

GOVERNO DO ESTADO



**CEARÁ**

AVANÇANDO NAS MUDANÇAS

**GOVERNO DO ESTADO DO CEARÁ**  
**SECRETARIA DOS RECURSOS HÍDRICOS**  
COMPANHIA DE GESTÃO DOS RECURSOS HÍDRICOS COGERH  
PROJETO DE DESENVOLVIMENTO URBANO E GESTÃO DOS RECURSOS HÍDRICOS  
PROURB CE

# PROJETO EXECUTIVO DA ADUTORA DE CAPONGA

RELATÓRIO DOS ESTUDOS BÁSICOS  
TOPOGRÁFICOS E GEOTÉCNICOS

**KL** Serviços e Engenharia Ltda

FORTALEZA  
SETEMBRO DE 1997

GOVERNO DO ESTADO



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**PROURB/CE**

# PROJETO EXECUTIVO DA ADUTORA DE CAPONGA

**RELATÓRIO DOS ESTUDOS BÁSICOS COMPLEMENTARES**  
**ESTUDOS TOPOGRÁFICOS E GEOTÉCNICOS**

Lote 02252 - Plan  Scan ( ) Index ( )

Projeto Nº 0208/03/A

Volume \_\_\_\_\_

Qtd A4 \_\_\_\_\_ Qtd A3 \_\_\_\_\_

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Qtd A0 \_\_\_\_\_ Outros \_\_\_\_\_

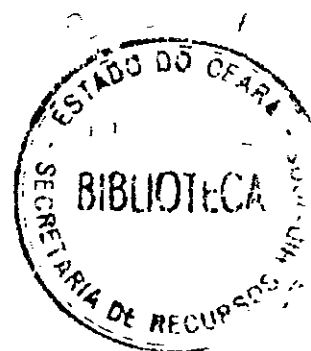
KL - SERVIÇOS E ENGENHARIA LTDA 

AV. SEN. ADEL VIREU DE LAYDRA, 1101 SALAB. 106 - 108  
CEP: 25137-660 - 261.7732 - FAX: 261.4266  
R. C. 222 - 644 - 0401 - 47 - CEP: 06.347.664 - 2  
- F. LULA - CEARÁ  
- FAX: 011 - 511 - FORTALEZA - 06/07/97

FORTALEZA  
SETEMBRO / 97



KL - Serviços e Engenharia Ltda



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## APRESENTAÇÃO

## **APRESENTAÇÃO**

A KL - Serviços e Engenharia Ltda , em cumprimento ao contrato nº 05-97/ PROURB - CE/ COGERH, apresenta os estudos referentes ao Projeto Executivo da Adutora de Caponga

O Projeto Executivo é composto pelos seguintes estudos.

### **FASE A: DIAGNÓSTICO E ANTEPROJETO**

- Relatório das Alternativas de traçado
- Relatório dos Estudos Básicos
- Relatório dos Estudos Básicos Complementares
- Relatório de Concepção

### **FASE B DETALHAMENTO DO PROJETO DE ENGENHARIA A NÍVEL EXECUTIVO**

- Minuta do Relatório Geral
- Relatório Geral
  - Volume 1 - Memorial Descritivo
  - Volume 2 - Memorial de Cálculo
  - Volume 3 – Quantitativos e Orçamentos
  - Volume 4 – Especificações Técnicas
  - Volume 5 – Plantas

O presente volume apresenta os estudos básicos complementares da adutora de Caponga, no âmbito do contrato entre a KI – Serviços e Engenharia Ltda e SRH – Secretaria dos Recursos Hídricos.



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## 1 - INTRODUÇÃO

## 1 - INTRODUÇÃO

Os estudos têm por finalidade o levantamento dos dados básicos complementares de topografia do caminhamento da alternativa escolhida para a Adutora de Caponga, dando subsídios para elaboração do Projeto Executivo do sistema de adução da respectiva cidade

Os serviços topográficos realizados constaram basicamente de um transporte de cotas e coordenadas para o eixo locado, levantamento planialtimétrico da malha, caminhamento escolhido numa faixa de 15m para cada lado bem como a malha de RN'S implantada em campo.

Estes serviços geraram uma restituição topográfica com curvas de nível espaçadas a cada metro Como também perfil longitudinal e planta cadastral do caminhamento da adutora

Estes serviços foram realizados com o auxílio de um dos mais modernos softwares de topografia TOPOEVN e linha Civil da SOFTDESK Estes programas permitiram que fosse feito o transporte de coordenadas para todos os pontos a partir de um único ponto

Os resultados obtidos com os serviços realizados estão abaixo resumidos

<b>SERVIÇOS REALIZADOS</b>	
<b>SERVIÇOS TOPOGRÁFICOS</b>	<b>QUANTIDADES</b>
Locação, nivelamento e seções do eixo da adutora	17,11 km
Transporte de cota	3,50 km
Levantamento Planialtimétrico	0,80 ha
Transporte de Coordenadas	2,00 km
<b>SERVIÇOS GEOTÉCNICOS</b>	
Sondagens a pá e picareta	73,50 m
Sondagens a percussão	6,13 m





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## 2 – RELATÓRIO TOPOGRÁFICO

## **2 – RELATÓRIO TOPOGRÁFICO**

### **2.1 – METODOLOGIA DO ESTUDO**

Os serviços constantes do estudo topográfico foram executados segundo as seguintes especificações

#### **2.1.1 – Locação do Eixo**

A locação do eixo foi executada com o emprego de teodolitos e as medidas lineares foram feitas com trenas de aço

O eixo foi piqueteado normalmente de 20 em 20 metros bem como em todos os pontos notáveis, tais como PI's, acidentes topográficos, cruzamentos com estradas, margens de rios e córregos, entre outros. Em todos os piquetes implantados, foram colocadas estacas-testemunha constituídas de madeira resistente com cerca de 60cm de comprimento, providas de entalhe, onde foram escritos a óleo, de cima para baixo, o número correspondente. Estas estacas estão localizadas sempre à esquerda do estacamento no sentido crescente de sua numeração e com o número voltado para o piquete. Os piquetes correspondentes a cada 2km das tangentes longas, foram amarradas por "pontos de segurança" de tal maneira que seja vista a amarração anterior ou posterior.

As medidas de distância foram feitas à trena, segundo a horizontal, para efeito de localização dos piquetes da linha de locação.

#### **2.1.2 – Transporte de Coordenadas**

O nivelamento e contranivelamento de todos os piquetes do eixo de locação foram feitos com o emprego de níveis óticos e de precisão, para controle do nivelamento e contranivelamento foram implantadas referências de nível (RN) estáveis, espaçadas a cada quinhentos metros, devidamente referidas nas plantas em relação ao estaqueamento de locação. Estas referências (RN) estão implantadas fora da linha do "eixo" e são constituídas de marcos de concreto com a inscrição do número correspondente.

O contranivelamento foi fechado nos RNs, com a tolerância admitida pelas normas da SRH.

### **2.1.3 – Seções Transversais**

As seções foram levantadas com nível ótico. Nos trechos em tangentes foram levantados seções transversais a cada 40 metros, identificado a topografia do terreno por 15 metros de cada lado.

Nos trechos em curva foram levantadas seções nos PI's.

### **2.1.4 – Amarrações e RN's**

Todos os PI's estão amarrados em V, fora da faixa, através de piquetes de madeira

As tangentes longas também receberam amarrações espaçadas de no máximo 1 000 metros

A implantação da rede de RNs, obedeceu a um espaçamento máximo de 0,5 km, utilizados pontos notáveis e fixos. Quando não, foram implantados marcos de concreto de seção quadrangular, medindo 12cm x 10cm e 50cm de comprimento e com um prego cravado no topo, na intersecção das diagonais, numerado e amarrado ao eixo com ângulos e distâncias



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### 3 – RELATÓRIO GEOTÉCNICO

### 3 – RELATÓRIO GEOTÉCNICO

#### 3.1 – METODOLOGIA DO ESTUDO

Ao longo do eixo da Adutora foram realizadas sondagens a pá e picareta a cada 200 m. As sondagens foram iniciadas a partir da superfície do terreno e interrompidas quando encontrado material impenetrável, ou quando atingiu-se a profundidade de 1,5 m.

Foi executada 01(uma) sondagem a percussão em locais que exijam ancoragens importantes bem como nas obras de edificações (ETA, etc)

As sondagens atingiram a profundidade recomendada pela NBR – 6484 da Associação Brasileira de Normas Técnicas (ABNT). Na execução das mesmas o avanço do furo foi feito, inicialmente, a trado até encontrar o nível d'água e a partir desta profundidade por lavagem. Para extração das amostras foi utilizado o amostrador padrão com diâmetros externos de 2" e interno de 1 3/8" recomendado no NB – 1211 da ABNT e adotado corretamente nas investigações de solos.

#### 3.2 RESULTADOS

As sondagens a pá e picareta executadas, seguiram na sua maioria o critério de parada de profundidade máxima, isto quer dizer que os furos chegaram a 1,50m.

Pela classificação, extrai-se que a adutora está locada em terrenos com ocorrência predominante de areia medianamente compacta, amarela a marrom. O nível d'água não foi detectado.

Os resultados das sondagens a pá e picareta, estão no Anexo B.

Com base nos boletins de sondagem a pá e picareta, elaborou-se uma planta com as ocorrências, indicando o provável perfil geotécnico ao longo do caminhamento da adutora. Este desenho encontra-se no anexo C – Desenhos.

Na sondagem a percussão, encontrou-se até 3,50 m de profundidade areia fina e média siltsosa, de pouco a medianamente compacta, com SPT de 8 a 80. Abaixo desta camada encontrou-se até o final ao furo (6,13 m), argila arenosa dura variegada, com SPT de 52 a 45/9.

O nível d'água não foi detectado.

Os resultados das sondagens a percussão encontram-se em Anexo B.



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#### **4 - ANEXOS**



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## ANEXO A – TOPOGRAFIA



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- Caderneta de Campo



Relatório dos dados da caderneta de campo

Pg.:001

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado	SRH	Proprietário										Data	26/08/97
IN	ALINH	ANGULO	RESIDUO	E S T A D I A			ANGULO	DISTANCIA	ALT	DIFBR	COD COD	COTA	DESCRICO
DICE	EST P V	HORIZONTAL	ANGULAR	SUP	MED	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO APA	DIRETA	DO PONTO
1	E0-E1	32 15'00"Az	0 00'00"	2.990	2.990	2.990	0 00'00"	20.000	1.995	0.000	0 1	4.250	ESTACAO
2	E0-1	302 15'00"Az	0 00'00"	3.318	3.318	3.318	0 00'00"	2.000	3.216	0.000	1 1	0.000	CERCA
3	E0-2	302 15'00"Az	0 00'00"	3.361	3.361	3.361	0 00'00"	15.000	3.216	0.000	1 1	0.000	
4	E0-3	122 15'00"Az	0 00'00"	3.100	3.100	3.100	0 00'00"	1.500	3.216	0.000	1 1	0.000	PE ATERRO
5	E0-4	122 15'00"Az	0 00'00"	0.216	0.216	0.216	0 00'00"	5.500	3.216	0.000	1 1	0.000	CRISTA
6	E0-5	122 15'00"Az	0 00'00"	0.000	0.500	0.000	0 00'00"	7.000	3.216	0.000	1 1	0.000	B P
7	E0-6	122 15'00"Az	0 00'00"	0.042	0.042	0.042	0 00'00"	15.000	3.216	0.000	1 1	0.000	
8	E1-E2	180 00'00"D	0 00'00"	2.427	2.427	2.427	0.00'00"	20.000	1.995	0.000	0 1	4.813	ESTACAO
9	E2-E3	180.00'00"D	0.00'00"	2.032	2.032	2.032	0 00'00"	20.000	1.995	0.000	0 1	5.208	ESTACAO
10	E2-1	90 00'00"D	0 00'00"	2.260	2.260	2.260	0 00'00"	2.000	2.210	0.000	1 1	0.000	CERCA
11	E2-2	90 00'00"D	0 00'00"	2.194	2.194	2.194	0 00'00"	15.000	2.210	0.000	1 1	0.000	
12	E2-3	270 00'00"D	0 00'00"	2.116	2.116	2.116	0 00'00"	2.000	2.210	0.000	1 1	0.000	PE ATERRO
13	E2-4	270 00'00"D	0 00'00"	0.180	0.180	0.180	0 00'00"	5.500	2.210	0.000	1 1	0.000	CRISTA
14	E2-5	270 00'00"D	0 00'00"	0.020	0.020	0.020	0 00'00"	7.000	2.210	0.000	1 1	0.000	B P
15	E2-6	270 00'00"D	0 00'00"	0.026	0.026	0.026	0 00'00"	15.000	2.210	0.000	1 1	0.000	
16	E3-E4	180.00'00"D	0.00'00"	1.476	1.476	1.476	0 00'00"	20.000	1.995	0.000	0 1	5.764	ESTACAO
17	E4-E5	180 00'00"D	0 00'00"	1.405	1.405	1.405	0 00'00"	20.000	1.995	0.000	0 1	5.835	ESTACAO
18	E4-1	90 00'00"D	0 00'00"	1.640	1.640	1.640	0 00'00"	2.000	1.620	0.000	1 1	0.000	CERCA
19	E4-2	90 00'00"D	0 00'00"	1.681	1.681	1.681	0 00'00"	15.000	1.620	0.000	1 1	0.000	
20	E4-3	270 00'00"D	0 00'00"	1.500	1.500	1.500	0 00'00"	2.000	1.620	0.000	1 1	0.000	
21	E4-4	270 00'00"D	0 00'00"	0.510	0.510	0.510	0 00'00"	5.600	1.620	0.000	1 1	0.000	
22	E4-5	270 00'00"D	0 00'00"	0.461	0.461	0.461	0 00'00"	7.000	1.620	0.000	1 1	0.000	
23	E4-6	270 00'00"D	0 00'00"	0.428	0.428	0.428	0 00'00"	15.000	1.620	0.000	1 1	0.000	
24	E5-E6	180 00'00"D	0.00'00"	1.207	1.207	1.207	0 00'00"	20.000	1.995	0.000	0 1	6.033	ESTACAO
25	E6-E7	180 00'00"D	0 00'00"	0.985	0.985	0.985	0 00'00"	20.000	1.995	0.000	0 1	6.255	ESTACAO
26	E6-1	90 00'00"D	0 00'00"	1.620	1.620	1.620	0 00'00"	2.000	1.660	0.000	1 1	0.000	
27	E6-2	90 00'00"D	0 00'00"	1.660	1.660	1.660	0 00'00"	15.000	1.660	0.000	1 1	0.000	
28	E6-3	270 00'00"D	0 00'00"	1.510	1.510	1.510	0 00'00"	3.100	1.660	0.000	1 1	0.000	
29	E6-4	270 00'00"D	0 00'00"	0.820	0.820	0.820	0 00'00"	5.500	1.660	0.000	1 1	0.000	
30	E6-5	270 00'00"D	0 00'00"	0.722	0.722	0.722	0 00'00"	7.000	1.660	0.000	1 1	0.000	
31	E6-6	270 00'00"D	0 00'00"	0.800	0.800	0.800	0 00'00"	15.000	1.660	0.000	1 1	0.000	
32	E7-E8	180 00'00"D	0.00'00"	0.900	0.900	0.900	0 00'00"	20.000	1.995	0.000	0 1	6.340	ESTACAO
33	E8-E9	180 00'00"D	0 00'00"	0.788	0.788	0.788	0 00'00"	20.000	1.995	0.000	0 1	6.452	ESTACAO
34	E8-1	90 00'00"D	0 00'00"	1.686	1.686	1.686	0 00'00"	2.000	1.620	0.000	1 1	0.000	CERCA
35	E8-2	90 00'00"D	0 00'00"	1.711	1.711	1.711	0 00'00"	15.000	1.620	0.000	1 1	0.000	
36	E8-3	270 00'00"D	0 00'00"	1.400	1.400	1.400	0 00'00"	3.300	1.620	0.000	1 1	0.000	PE ATERRO
37	E8-4	270 00'00"D	0 00'00"	0.722	0.722	0.722	0 00'00"	7.000	1.620	0.000	1 1	0.000	B P
38	E8-5	270 00'00"D	0 00'00"	0.735	0.735	0.735	0 00'00"	15.000	1.620	0.000	1 1	0.000	
39	E9-E10	180 00'00"D	0.00'00"	0.583	0.583	0.583	0.00'00"	20.000	1.995	0.000	0 1	6.657	ESTACAO
40	E10-E11	180.00'00"D	0.00'00"	3.290	3.290	3.290	0 00'00"	20.000	3.467	0.000	0 1	6.834	ESTACAO
41	E10-1	90 00'00"D	0 00'00"	1.600	1.600	1.600	0 00'00"	2.000	1.510	0.000	1 1	0.000	CERCA
42	E10-2	90 00'00"D	0 00'00"	1.594	1.594	1.594	0 00'00"	15.000	1.510	0.000	1 1	0.000	
43	E10-3	270 00'00"D	0 00'00"	1.400	1.400	1.400	0 00'00"	3.300	1.510	0.000	1 1	0.000	P A
44	E10-4	270 00'00"D	0 00'00"	0.360	0.360	0.360	0 00'00"	5.500	1.510	0.000	1 1	0.000	CRISTA
45	E10-5	270 00'00"D	0 00'00"	0.216	0.216	0.216	0 00'00"	7.000	1.510	0.000	1 1	0.000	B P

Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH		Proprietário									Data		26/08/97	
IN	ALINH	ANGULO		RESIDUO	E S T A D I A			ANGULO	DISTANCIA	ALT	DIFER	COD	COD	COTA	DESCRICAÇÃO	
DICE	EST	P	V	HORIZONTAL	ANGULAR	SUP	MED	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO	APA	DIRETA	DO PONTO
46	E10-6	270	00'00"D	0 00'00"	0 260	0 260	0 260	0 00'00"	15 000	1 510	0 000	1 1	0 000			
47	E11-E12	180	00'00"D	0 00'00"	3.082	3 082	3 082	0 00'00"	20.000	3.467	0.000	0 1	7.042			ESTACAO
48	E12-E13	180	00'00"D	0 00'00"	2.744	2 744	2 744	0 00'00"	20.000	3.467	0.000	0 1	7.380			ESTACAO
49	E12-1	90	00'00"D	0 00'00"	1 722	1 722	1 722	0 00'00"	2 000	1 680	0 000	1 1	0 000			CERCA
50	E12-2	90	00'00"D	0 00'00"	1 734	1 734	1 734	0 00'00"	15 000	1 680	0 000	1 1	0 000			
51	E12-3	270	00'00"D	0 00'00"	1 511	1 511	1 511	0 00'00"	3 200	1 680	0 000	1 1	0 000			
52	E12-4	270	00'00"D	0 00'00"	0 300	0 300	0 300	0 00'00"	5 500	1 680	0 000	1 1	0 000			
53	E12-5	270	00'00"D	0 00'00"	2 800	2 800	2 800	0 00'00"	7 000	1 680	0 000	1 1	0 000			
54	E12-6	270	00'00"D	0 00'00"	0 315	0 315	0 315	0 00'00"	15 000	1 680	0 000	1 1	0 000			
55	E13-E14	180	00'00"D	0.00'00"	2.517	2.517	2.517	0 00'00"	20.000	3.467	0.000	0 1	7.607			ESTACAO
56	E14-E15	180	00'00"D	0.00'00"	2.173	2 173	2 173	0.00'00"	20.000	3.467	0 000	0 1	7.951			ESTACAO
57	E14-1	90	00'00"D	0 00'00"	1 711	1 711	1 711	0 00'00"	2 000	1 810	0 000	1 1	0 000			
58	E14-2	90	00'00"D	0 00'00"	1 861	1 861	1 861	0 00'00"	15 000	1 810	0 000	1 1	0 000			
59	E14-3	270	00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	3 200	1 810	0 000	1 1	0 000			
60	E14-4	270	00'00"D	0 00'00"	0 360	0 360	0 360	0 00'00"	7 000	1 810	0 000	1 1	0 000			
61	E14-5	270	00'00"D	0 00'00"	0 300	0 300	0 300	0 00'00"	15 000	1 810	0 000	1 1	0 000			
62	E15-E16	180	00'00"D	0 00'00"	1 717	1 717	1 717	0.00'00"	20 000	3 467	0 000	0 1	8.407			ESTACAO
63	E16-E17	180	00'00"D	0 00'00"	0 992	0 992	0 992	0.00'00"	20.000	3.467	0 000	0 1	9 132			ESTACAO
64	E16-1	90	00'00"D	0 00'00"	1 866	1 866	1 866	0 00'00"	2 000	1 820	0 000	1 1	0 000			CERCA
65	E16-2	90	00'00"D	0 00'00"	1 913	1 913	1 913	0 00'00"	15 000	1 820	0 000	1 1	0 000			
66	E16-3	270	00'00"D	0 00'00"	1 510	1 510	1 510	0 00'00"	3 500	1 820	0 000	1 1	0 000			
67	E16-4	270	00'00"D	0 00'00"	0 516	0 516	0 516	0 00'00"	7 000	1 820	0 000	1 1	0 000			
68	E17-E18	180	00'00"D	0 00'00"	0 463	0 463	0 463	0 00'00"	20 000	3 467	0 000	0 1	9 661			ESTACAO
69	E18-E19	180	00'00"D	0 00'00"	3 417	3.417	3.417	0 00'00"	20 000	3 866	0.000	0 1	10 110			ESTACAO
70	E18-1	90	00'00"D	0 00'00"	1 822	1 822	1 822	0 00'00"	2 000	1 860	0 000	1 1	0 000			
71	E18-2	90	00'00"D	0 00'00"	1 867	1 867	1 867	0 00'00"	15 000	1 860	0 000	1 1	0 000			
72	E18-3	270	00'00"D	0 00'00"	1 315	1 315	1 315	0 00'00"	3 300	1 860	0 000	1 1	0 000			
73	E18-4	270	00'00"D	0 00'00"	1 166	1 166	1 166	0 00'00"	7 000	1 860	0 000	1 1	0 000			
74	E18-5	270	00'00"D	0 00'00"	1 200	1 200	1 200	0 00'00"	15 000	1 860	0 000	1 1	0 000			
75	E19-E20	180	00'00"D	0.00'00"	2 992	2 992	2 992	0.00'00"	20 000	3.866	0 000	0 1	10 535			ESTACAO
76	E20-E21	180	00'00"D	0.00'00"	2.933	2 933	2 933	0 00'00"	20 000	3.866	0 000	0 1	10.594			ESTACAO
77	E20-1	90	00'00"D	0 00'00"	1 560	1 560	1 560	0 00'00"	2 000	1 610	0 000	1 1	0 000			CERCA
78	E20-2	90	00'00"D	0 00'00"	1 496	1 496	1 496	0 00'00"	15 000	1 610	0 000	1 1	0 000			
79	E20-3	270	00'00"D	0 00'00"	1 266	1 266	1 266	0 00'00"	3 600	1 610	0 000	1 1	0 000			P A
80	E20-4	270	00'00"D	0 00'00"	0 994	0 994	0 994	0 00'00"	7 000	1 610	0 000	2 1	0 000			B P
81	E20-5	270	00'00"D	0 00'00"	0 988	0 988	0 988	0 00'00"	15 000	1 610	0 000	1 1	0 000			
82	E21-E22	180	00'00"D	0 00'00"	2 782	2.782	2.782	0 00'00"	20 000	3 866	0 000	0 1	10 745			ESTACAO
83	E22-E23	180	00'00"D	0 00'00"	2 702	2.702	2.702	0 00'00"	20 000	3 866	0 000	0 1	10 825			ESTACAO
84	E22-1	90	00'00"D	0 00'00"	2 000	2 000	2 000	0 00'00"	2 000	2 110	0 000	1 1	0 000			CERCA
85	E22-2	90	00'00"D	0 00'00"	2 000	2 000	2 000	0 00'00"	15 000	2 110	0 000	1 1	0 000			
86	E22-3	270	00'00"D	0 00'00"	2 030	2 030	2 030	0 00'00"	3 000	2 110	0 000	1 1	0 000			P A
87	E22-4	270	00'00"D	0 00'00"	1 080	1 080	1 080	0 00'00"	7 000	2 110	0 000	1 1	0 000			B P
88	E22-5	270	00'00"D	0 00'00"	1 100	1 100	1 100	0 00'00"	15 000	2 110	0 000	1 1	0 000			
89	E23-E24	180	00'00"D	0.00'00"	2.410	2 410	2.410	0 00'00"	20 000	3 866	0.000	0 1	11 117			ESTACAO
90	E24-E25	180	00'00"D	0.00'00"	2.195	2 195	2.195	0 00'00"	20 000	3 866	0.000	0 1	11 332			ESTACAO

Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA Local CASCAVEL - CE

Interessado		SRH		Proprietario					Data		26/08/97			
IN DICE	ALINH EST P V	ÂNGULO HORIZONTAL	RESIDUO ANGULAR	E S T A D I A			ÂNGULO VERTICAL	DISTÂNCIA INFORMADA	ALT APA	DIFER NIVEL	COD PTO	COD APA	COTA DIRETA	DESCRICAÇÃO DO PONTO
91	E24-1	90 00'00"D	0 00'00"	1 980	1 980	1 980	0 00'00"	2 000	1 966	0 000	1 1	0 000	CERCA	
92	E24-2	90 00'00"D	0 00'00"	1 887	1 887	1 887	0 00'00"	15 000	1 966	0 000	1 1	0 000		
93	E24-3	270 00'00"D	0 00'00"	1 722	1 722	1 722	0 00'00"	3 000	1 966	0 000	1 1	0 000	P A	
94	E24-4	270 00'00"D	0 00'00"	0 411	0 411	0 411	0 00'00"	7 000	1 966	0 000	1 1	0 000	B P	
95	E24-5	270 00'00"D	0 00'00"	0 460	0 460	0 460	0 00'00"	15 000	1 966	0 000	1 1	0 000		
96	E25-E26	180 00'00"D	0 00'00"	2.596	2 596	2.596	0.00'00"	20.000	2.872	0 000	0 1	11.608	ESTACAO	
97	E26-E27	180 00'00"D	0.00'00"	2.253	2.253	2.253	0.00'00"	20.000	2.872	0.000	0 1	11.951	ESTACAO	
98	E26-1	90 00'00"D	0 00'00"	2 000	2 000	2 000	0 00'00"	2 000	2 168	0 000	1 1	0 000		
99	E26-2	90 00'00"D	0 00'00"	2 108	2 108	2 108	0 00'00"	15 000	2 168	0 000	1 1	0 000		
100	E26-3	270 00'00"D	0 00'00"	1 810	1 810	1 810	0 00'00"	3 000	2 168	0 000	1 1	0 000		
101	E26-4	270 00'00"D	0 00'00"	0 300	0 300	0 300	0 00'00"	7 000	2 168	0 000	1 1	0 000	B P	
102	E26-5	270 00'00"D	0 00'00"	0 320	0 320	0 320	0 00'00"	15 000	2 168	0 000	1 1	0 000		
103	E27-E28	180 00'00"D	0 00'00"	1.962	1.962	1.962	0.00'00"	20.000	2.872	0 000	0 1	12.242	ESTACAO	
104	E28-E29	180 00'00"D	0.00'00"	1.512	1.512	1.512	0.00'00"	20 000	2 872	0.000	0 1	12.692	ESTACAO	
105	E28-1	90 00'00"D	0 00'00"	2 191	2 191	2 191	0 00'00"	2 000	2 060	0 000	1 1	0 000		
106	E28-2	90 00'00"D	0 00'00"	2 116	2 116	2 116	0 00'00"	15 000	2 060	0 000	1 1	0 000		
107	E28-3	270 00'00"D	0 00'00"	1 810	1 810	1 810	0 00'00"	3 000	2 060	0 000	1 1	0 000		
108	E28-4	270 00'00"D	0 00'00"	0 500	0 500	0 500	0 00'00"	7 000	2 060	0 000	1 1	0 000	B P	
109	E28-5	270 00'00"D	0 00'00"	0 500	0 500	0 500	0 00'00"	15 000	2 060	0 000	1 1	0 000		
110	E29-E30	180 00'00"D	0 00'00"	1 108	1 108	1 108	0 00'00"	20 000	2 872	0.000	0 1	13.096	ESTACAO	
111	E30-E31	180 00'00"D	0 00'00"	0.895	0 895	0.895	0 00'00"	20 000	2 872	0.000	0 1	13 309	ESTACAO	
112	E30-1	90 00'00"D	0 00'00"	1 780	1 780	1 780	0 00'00"	2 000	1 810	0 000	1 1	0 000		
113	E30-2	90 00'00"D	0 00'00"	1 800	1 800	1 800	0 00'00"	15 000	1 810	0 000	1 1	0 000		
114	E30-3	270 00'00"D	0 00'00"	1 500	1 500	1 500	0 00'00"	3 000	1 810	0 000	1 1	0 000		
115	E30-4	270 00'00"D	0 00'00"	0 466	0 466	0 466	0 00'00"	6 600	1 810	0 000	1 1	0 000	B P	
116	E30-5	270 00'00"D	0 00'00"	0 420	0 420	0 420	0 00'00"	15 000	1 810	0 000	1 1	0 000		
117	E31-E32	176.11'30"D	0.00'00"	0.358	0.358	0.358	0.00'00"	20 000	2.872	0 000	0 1	13 846	ESTACAO	
118	E32-E33	180.00'00"D	0 00'00"	3 239	3 239	3 239	0 00'00"	20 000	3 873	0.000	0 1	14.480	ESTACAO	
119	E32-1	90 00'00"D	0 00'00"	1 860	1 860	1 860	0 00'00"	2 000	1 811	0 000	1 1	0 000	CERCA	
120	E32-2	90 00'00"D	0 00'00"	1 900	1 900	1 900	0 00'00"	15 000	1 811	0 000	1 1	0 000		
121	E32-3	270 00'00"D	0 00'00"	1 611	1 611	1 611	0 00'00"	3 000	1 811	0 000	1 1	0 000		
122	E32-4	270 00'00"D	0 00'00"	0 416	0 416	0 416	0 00'00"	6 500	1 811	0 000	1 1	0 000	B P	
123	E32-5	270 00'00"D	0 00'00"	0 422	0 422	0 422	0 00'00"	15 000	1 811	0 000	1 1	0 000		
124	E33-E34	180 00'00"D	0.00'00"	2.486	2.486	2.486	0.00'00"	20.000	3 873	0 000	0 1	15 233	ESTACAO	
125	E34-E35	180 00'00"D	0 00'00"	1 468	1 468	1.468	0 00'00"	20 000	3 873	0.000	0 1	16 251	ESTACAO	
126	E34-1	90 00'00"D	0 00'00"	1 860	1 860	1 860	0 00'00"	1 300	1 800	0 000	1 1	0 000	CERCA	
127	E34-2	90 00'00"D	0 00'00"	1 860	1 860	1 860	0 00'00"	15 000	1 800	0 000	1 1	0 000		
128	E34-3	270 00'00"D	0 00'00"	1 588	1 588	1 588	0 00'00"	4 000	1 800	0 000	1 1	0 000	P A	
129	E34-4	270 00'00"D	0 00'00"	1 266	1 266	1 266	0 00'00"	7 000	1 800	0 000	1 1	0 000	B P	
130	E34-5	270 00'00"D	0 00'00"	1 300	1 300	1 300	0 00'00"	15 000	1 800	0 000	1 1	0 000		
131	E35-E36	180 00'00"D	0.00'00"	0.441	0.441	0.441	0.00'00"	20.000	3.873	0.000	0 1	17 278	ESTACAO	
132	E36-E37	180 00'00"D	0 00'00"	3 482	3 482	3 482	0.00'00"	20 000	3 924	0.000	0 1	17.720	ESTACAO	
133	E36-1	90 00'00"D	0 00'00"	1 688	1 688	1 688	0 00'00"	1 000	1 860	0 000	1 1	0 000	CERCA	
134	E36-2	90 00'00"D	0 00'00"	1 617	1 617	1 617	0 00'00"	15 000	1 860	0 000	1 1	0 000		
135	E36-3	270 00'00"D	0 00'00"	1 620	1 620	1 620	0 00'00"	5 000	1 860	0 000	1 1	0 000		

Relatório dos dados da caderneta de campo

Pg.:004

ADUTORA DE CAPONGA

Local CASCAVEL - CE

SRH

Proprietário

Data 26/08/97

IN	ALINH			RESIDUO	E S T A D I A			ANGULO	DISTANCIA	ALT	DIPER	COD COD		COTA	DESCRICAO	
	EST	P	V		ANGULO	HORIZONTAL	ANGULAR					SUP	MEB			INF
136	E36-4	270	00'00"D	0 00'00"	1 510	1 510	1 510	0 00'00"	6 500	1 860	0 000	1 1	0 000	B P		
137	E36-5	270	00'00"D	0 00'00"	1 561	1 561	1 561	0 00'00"	15 000	1 860	0 000	1 1	0 000			
138	E37-E38	176.35'00"D	0.00'00"	3 018	3 018	3.018	0 00'00"	20.000	3 924	0 000	0 1	18.184	ESTACAO			
139	E38-E39	180.00'00"D	0 00'00"	2 210	2 210	2.210	0 00'00"	20 000	3 924	0 000	0 1	18.992	ESTACAO			
140	E38-1	90	00'00"D	0 00'00"	1 800	1 800	1 800	0 00'00"	3 600	1 800	0 000	1 1	0 000	CERCA		
141	E38-2	90	00'00"D	0 00'00"	1 310	1 310	1 310	0 00'00"	4 600	1 800	0 000	1 1	0 000			
142	E38-3	90	00'00"D	0 00'00"	1 286	1 286	1 286	0 00'00"	15 000	1 800	0 000	1 1	0 000			
143	E38-4	270	00'00"D	0 00'00"	1 620	1 620	1 620	0 00'00"	3 000	1 800	0 000	1 1	0 000			
144	E38-5	270	00'00"D	0 00'00"	1 366	1 366	1 366	0 00'00"	6 400	1 800	0 000	1 1	0 000	B P		
145	E38-6	270	00'00"D	0 00'00"	1 210	1 210	1 210	0 00'00"	15 000	1 800	0 000	1 1	0 000			
146	E39-E40	180	00'00"D	0 00'00"	1 642	1.642	1.642	0 00'00"	20.000	3.924	0 000	0 1	19.560	ESTACAO		
147	E40-E41	180.00'00"D	0.00'00"	0.584	0 584	0 584	0.00'00"	20.000	3.924	0.000	0 1	20.618	ESTACAO			
148	E40-1	90	00'00"D	0 00'00"	1 422	1 422	1 422	0 00'00"	2 000	1 560	0 000	1 1	0 000	CERCA		
149	E40-2	90	00'00"D	0 00'00"	1 386	1 386	1 386	0 00'00"	15 000	1 560	0 000	1 1	0 000			
150	E40-3	270	00'00"D	0 00'00"	1 300	1 300	1 300	0 00'00"	3 500	1 560	0 000	1 1	0 000			
151	E40-4	270	00'00"D	0 00'00"	0 866	0 866	0 866	0 00'00"	6 400	1 560	0 000	1 1	0 000	B P		
152	E40-5	270	00'00"D	0 00'00"	0 722	0 722	0 722	0 00'00"	15 000	1 560	0 000	1 1	0 000			
153	E41-E42	178.10'00"D	0.00'00"	2.911	2 911	2 911	0.00'00"	20.000	3.887	0.000	0 1	21.594	ESTACAO			
154	E42-E43	180	00'00"D	0 00'00"	2.408	2 408	2.408	0 00'00"	20 000	3 887	0.000	0 1	22 097	ESTACAO		
155	E42-1	90	00'00"D	0 00'00"	1 610	1 610	1 610	0 00'00"	1 000	1 610	0 000	1 1	0 000	CERCA		
156	E42-2	90	00'00"D	0 00'00"	1 800	1 800	1 800	0 00'00"	15 000	1 610	0 000	1 1	0 000			
157	E42-3	270	00'00"D	0 00'00"	1 266	1 266	1 266	0 00'00"	6 200	1 610	0 000	1 1	0 000	B P		
158	E42-4	270	00'00"D	0 00'00"	1 186	1 186	1 186	0 00'00"	15 000	1 610	0 000	1 1	0 000			
159	E43-E44	180	00'00"D	0 00'00"	1 685	1 685	1.685	0 00'00"	20 000	3 887	0.000	0 1	22 820	ESTACAO		
160	E44-E45	180	00'00"D	0 00'00"	0 782	0 782	0 782	0 00'00"	20 000	3 887	0 000	0 1	23 723	ESTACAO		
161	E44-1	90	00'00"D	0 00'00"	1 700	1 700	1 700	0 00'00"	1 000	1 627	0 000	1 1	0 000	CERCA		
162	E44-2	90	00'00"D	0 00'00"	1 681	1 681	1 681	0 00'00"	15 000	1 627	0 000	1 1	0 000			
163	E44-3	270	00'00"D	0 00'00"	1 300	1 300	1 300	0 00'00"	3 000	1 627	0 000	1 1	0 000			
164	E44-4	270	00'00"D	0 00'00"	0 780	0 780	0 780	0 00'00"	6 400	1 627	0 000	1 1	0 000	B P		
165	E44-5	270	00'00"D	0 00'00"	0 666	0 666	0 666	0 00'00"	15 000	1 627	0 000	1 1	0 000			
166	E45-E46	180	00'00"D	0 00'00"	3 443	3 443	3.443	0.00'00"	20.000	3.987	0 000	0 1	21.062	ESTACAO		
167	E46-E47	180.00'00"D	0.00'00"	2.863	2 863	2 863	0 00'00"	20.000	3.987	0 000	0 1	21.642	ESTACAO			
168	E46-1	90	00'00"D	0 00'00"	1 580	1 580	1 580	0 00'00"	1 000	1 686	0 000	1 1	0 000	CERCA		
169	E46-2	90	00'00"D	0 00'00"	1 467	1 467	1 467	0 00'00"	15 000	1 686	0 000	1 1	0 000			
170	E46-3	270	00'00"D	0 00'00"	1 300	1 300	1 300	0 00'00"	3 000	1 686	0 000	1 1	0 000			
171	E46-4	270	00'00"D	0 00'00"	0 516	0 516	0 516	0 00'00"	6 400	1 686	0 000	1 1	0 000	B P		
172	E46-5	270	00'00"D	0 00'00"	0 486	0 486	0 486	0 00'00"	15 000	1 686	0 000	1 1	0 000			
173	E47-E48	180	00'00"D	0 00'00"	2 061	2.061	2.061	0 00'00"	20 000	3 987	0.000	0 1	22.444	ESTACAO		
174	E48-E49	180	00'00"D	0.00'00"	1.530	1 530	1 530	0.00'00"	20.000	3.987	0 000	0 1	22.975	ESTACAO		
175	E48-1	90	00'00"D	0 00'00"	1 686	1 686	1 686	0 00'00"	1 000	1 860	0 000	1 1	0 000	CERCA		
176	E48-2	90	00'00"D	0 00'00"	1 700	1 700	1 700	0 00'00"	15 000	1 860	0 000	1 1	0 000			
177	E48-3	270	00'00"D	0 00'00"	1 560	1 560	1 560	0 00'00"	3 000	1 860	0 000	1 1	0 000			
178	E48-4	270	00'00"D	0 00'00"	0 711	0 711	0 711	0 00'00"	6 400	1 860	0 000	1 1	0 000			
179	E48-5	270	00'00"D	0 00'00"	0 722	0 722	0 722	0 00'00"	15 000	1 860	0 000	1 1	0 000			
180	E49-E50	180	00'00"D	0.00'00"	0.971	0 971	0 971	0.00'00"	20.000	3.987	0 000	0 1	23.534	ESTACAO		

000020

Relatório dos dados da caderneta de campo

Pg.:005

1 ADUTORA DE CAPONGA

Local CASCAVEL - CE

SRH		Proprietário							Data 26/08/97					
IN	ALINH	ÂNGULO	RESIDUO	E S T A D I A			ÂNGULO	DISTÂNCIA	ALT	DIFER	COD	COD	COTA	DESCRIÇÃO
-	EST P V	HOPIZONTAL	ANGULAR	SUP	MEB	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO	APA	DIRETA	DO PONTO
181	E50-E51	180 00'00"D	0 00'00"	3 170	3 170	3.170	0 00'00"	20 000	3.805	0 000	0 1	24 169	ESTACAO	
182	E50-1	90 00'00"D	0 00'00"	1 886	1 886	1 886	0 00'00"	1 000	1 727	0 000	1 1	0 000	CERCA	
183	E50-2	90 00'00"D	0 00'00"	1 817	1 817	1 817	0 00'00"	15 000	1 727	0 000	1 1	0 000		
184	E50-3	270 00'00"D	0 00'00"	1 516	1 516	1 516	0 00'00"	3 000	1 727	0 000	1 1	0 000		
185	E50-4	270 00'00"D	0 00'00"	0 411	0 411	0 411	0 00'00"	6 400	1 727	0 000	1 1	0 000	B P	
186	E50-5	270 00'00"D	0 00'00"	0 426	0 426	0 426	0 00'00"	15 000	1 727	0 000	1 1	0 000		
187	E51-E52	180.00'00"D	0.00'00"	2.343	2.343	2.343	0.00'00"	20 000	3.805	0.000	0 1	24.996	ESTACAO	
188	E52-E53	180.00'00"D	0.00'00"	1.947	1.947	1 947	0.00'00"	20 000	3.805	0.000	0 1	25.392	ESTACAO	
189	E52-1	90 00'00"D	0 00'00"	1 300	1 300	1 300	0 00'00"	1 600	1 553	0 000	1 1	0 000	CERCA	
190	E52-2	90 00'00"D	0 00'00"	1 211	1 211	1 211	0 00'00"	15 000	1 553	0 000	1 1	0 000		
191	E52-3	270 00'00"D	0 00'00"	1 310	1 310	1 310	0 00'00"	3 600	1 553	0 000	1 1	0 000		
192	E52-4	270 00'00"D	0 00'00"	0 716	0 716	0 716	0 00'00"	6 400	1 553	0 000	1 1	0 000	B P	
193	E52-5	270 00'00"D	0 00'00"	0 733	0 733	0 733	0 00'00"	15 000	1 553	0 000	1 1	0 000		
194	E53-E54	180 00'00"D	0 00'00"	1.908	1.908	1 908	0 00'00"	20.000	3 805	0.000	0 1	25.431	ESTACAO	
195	E54-E55	180.00'00"D	0.00'00"	1.757	1 757	1.757	0 00'00"	20.000	3.805	0 000	0 1	25.582	ESTACAO	
196	E54-1	90 00'00"D	0 00'00"	2 033	2 033	2 033	0 00'00"	1 800	1 618	0 000	1 1	0 000	CERCA	
197	E54-2	90 00'00"D	0 00'00"	2 033	2 033	2 033	0 00'00"	15 000	1 618	0 000	1 1	0 000		
198	E54-3	270 00'00"D	0 00'00"	1 310	1 310	1 310	0 00'00"	3 000	1 618	0 000	1 1	0 000		
199	E54-4	270 00'00"D	0 00'00"	0 561	0 561	0 561	0 00'00"	6 400	1 618	0 000	1 1	0 000		
200	E54-5	270 00'00"D	0 00'00"	0 582	0 582	0 582	0 00'00"	15 000	1 618	0 000	1 1	0 000		
201	E55-E56	180 00'00"D	0 00'00"	1.613	1.613	1 613	0.00'00"	20 000	3 805	0.000	0 1	25.726	ESTACAO	
202	E56-E57	180 00'00"D	0 00'00"	1.820	1 820	1 820	0 00'00"	20 000	3 805	0.000	0 1	25.519	ESTACAO	
203	E56-1	90 00'00"D	0 00'00"	1 794	1 794	1 794	0 00'00"	2 000	1 713	0 000	1 1	0 000	CERCA	
204	E56-2	90 00'00"D	0 00'00"	1 866	1 866	1 866	0 00'00"	15 000	1 713	0 000	1 1	0 000		
205	E56-3	270 00'00"D	0 00'00"	1 510	1 510	1 510	0 00'00"	3 200	1 713	0 000	1 1	0 000		
206	E56-4	270 00'00"D	0 00'00"	0 566	0 566	0 566	0 00'00"	6 400	1 713	0 000	1 1	0 000		
207	E56-5	270 00'00"D	0 00'00"	0 580	0 580	0 580	0 00'00"	15 000	1 713	0 000	1 1	0 000		
208	E57-E58	180 00'00"D	0 00'00"	1.640	1.640	1 640	0 00'00"	20 000	3 805	0.000	0 1	25.699	ESTACAO	
209	E58-E59	180 00'00"D	0.00'00"	1 438	1 438	1.438	0 00'00"	20 000	3.805	0 000	0 1	25 901	ESTACAO	
210	E58-1	90 00'00"D	0 00'00"	1 686	1 686	1 686	0 00'00"	2 000	1 686	0 000	1 1	0 000	CERCA	
211	E58-2	90 00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	15 000	1 686	0 000	1 1	0 000		
212	E58-3	270 00'00"D	0 00'00"	1 410	1 410	1 410	0 00'00"	3 300	1 686	0 000	1 1	0 000		
213	E58-4	270 00'00"D	0 00'00"	0 590	0 590	0 590	0 00'00"	6 500	1 686	0 000	1 1	0 000	B P	
214	E58-5	270 00'00"D	0 00'00"	0 600	0 600	0 600	0 00'00"	15 000	1 686	0 000	1 1	0 000		
215	E59-E60	180 00'00"D	0.00'00"	1 518	1 518	1 518	0 00'00"	20.000	1 171	0 000	0 1	25 554	ESTACAO	
216	E60-E61	180 00'00"D	0 00'00"	1 445	1.445	1.445	0.00'00"	20 000	1.171	0 000	0 1	25.627	ESTACAO	
217	E60-1	90 00'00"D	0 00'00"	1 710	1 710	1 710	0 00'00"	2 000	1 615	0 000	1 1	0 000	CERCA	
218	E60-2	90 00'00"D	0 00'00"	2 113	2 113	2 113	0 00'00"	15 000	1 615	0 000	1 1	0 000		
219	E60-3	270 00'00"D	0 00'00"	1 422	1 422	1 422	0 00'00"	3 100	1 615	0 000	1 1	0 000		
220	E60-4	270 00'00"D	0 00'00"	0 566	0 566	0 566	0 00'00"	6 500	1 615	0 000	1 1	0 000		
221	E60-5	270 00'00"D	0 00'00"	0 583	0 583	0 583	0 00'00"	15 000	1 615	0 000	1 1	0 000		
222	E61-E62	180.00'00"D	0.00'00"	1 540	1 540	1.540	0 00'00"	20.000	1.171	0 000	0 1	25 532	ESTACAO	
223	E62-E63	180 00'00"D	0.00'00"	1 754	1.754	1.754	0 00'00"	20.000	1.171	0 000	0 1	25 318	ESTACAO	
224	E62-1	90 00'00"D	0 00'00"	1 926	1 926	1 926	0 00'00"	2 000	1 820	0 000	1 1	0 000	CERCA	
225	E62-2	90 00'00"D	0 00'00"	1 987	1 987	1 987	0 00'00"	15 000	1 820	0 000	1 1	0 000		

Relatório dos dados da caderneta de campo

Pg.:006

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH	Proprietário						Data 26/08/97				
IN	ALINH	ÂNGULO	RESIDUO	E S T A D I A			ÂNGULO	DISTÂNCIA	ALT	DIFER	COD COD	COTA	DESCRIÇÃO
"	EST P V	HORIZONTAL	ANGULAR	SUP	MED	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO APA	DIRETA	DO PONTO
226	E62-3	270 00'00"D	0 00'00"	1 586	1 586	1 586	0 00'00"	3 000	1 820	0 000	1 1	0 000	
227	E62-4	270 00'00"D	0 00'00"	0 650	0 650	0 650	0 00'00"	6 500	1 820	0 000	1 1	0 000	
228	E62-5	270 00'00"D	0 00'00"	0 650	0 650	0 650	0 00'00"	15 000	1 820	0 000	1 1	0 000	
229	E63-E64	180 00'00"D	0.00'00"	1.483	1.483	1.483	0 00'00"	20.000	1.171	0.000	0 1	25.589	ESTACAO
230	E64-E65	180 00'00"D	0 00'00"	1 875	1.875	1 875	0 00'00"	20 000	1.171	0 000	0 1	25.197	ESTACAO
231	E64-1	90 00'00"D	0 00'00"	1 811	1 811	1 811	0 00'00"	2 000	1 560	0 000	1 1	0 000	
232	E64-2	90 00'00"D	0 00'00"	2 114	2 114	2 114	0 00'00"	15 000	1 560	0 000	1 1	0 000	
233	E64-3	270 00'00"D	0 00'00"	1 316	1 316	1 316	0 00'00"	3 000	1 560	0 000	1 1	0 000	
234	E64-4	270 00'00"D	0 00'00"	0 700	0 700	0 700	0 00'00"	6 500	1 560	0 000	1 1	0 000	
235	E64-5	270 00'00"D	0 00'00"	0 711	0 711	0 711	0 00'00"	15 000	1 560	0 000	1 1	0 000	
236	E65-E66	180 00'00"D	0 00'00"	1 985	1 985	1 985	0.00'00"	20 000	1 171	0 000	0 1	25.087	ESTACAO
237	E66-E67	180 00'00"D	0 00'00"	1.763	1.763	1.763	0.00'00"	20.000	1.171	0 000	0 1	25.309	ESTACAO
238	E66-1	90 00'00"D	0 00'00"	2 126	2 126	2 126	0 00'00"	2 000	1 718	0 000	1 1	0 000	
239	E66-2	90 00'00"D	0 00'00"	2 268	2 268	2 268	0 00'00"	15 000	1 718	0 000	1 1	0 000	
240	E66-3	270 00'00"D	0 00'00"	1 511	1 511	1 511	0 00'00"	3 200	1 718	0 000	1 1	0 000	
241	E66-4	270 00'00"D	0 00'00"	0 613	0 613	0 613	0 00'00"	6 500	1 718	0 000	1 1	0 000	
242	E66-5	270 00'00"D	0 00'00"	0 624	0 624	0 624	0 00'00"	15 000	1 718	0 000	1 1	0 000	
243	E67-E68	180 00'00"D	0 00'00"	2 138	2 138	2 138	0.00'00"	20 000	1 171	0 000	0 1	24 934	ESTACAO
244	E68-E69	180 00'00"D	0.00'00"	2 295	2 295	2 295	0 00'00"	20 000	1 171	0 000	0 1	24 777	ESTACAO
245	E68-1	90 00'00"D	0 00'00"	2 260	2 260	2 260	0 00'00"	2 000	1 813	0 000	1 1	0 000	CERCA
246	E68-2	90 00'00"D	0 00'00"	2 481	2 481	2 481	0 00'00"	15 000	1 813	0 000	1 1	0 000	
247	E68-3	270 00'00"D	0 00'00"	1 510	1 510	1 510	0 00'00"	3 000	1 813	0 000	1 1	0 000	
248	E68-4	270 00'00"D	0 00'00"	0 766	0 766	0 766	0 00'00"	6 500	1 813	0 000	1 1	0 000	
249	E68-5	270 00'00"D	0 00'00"	0 754	0 754	0 754	0 00'00"	15 000	1 813	0 000	1 1	0 000	
250	E69-E70	180 00'00"D	0.00'00"	2 062	2 062	2 062	0 00'00"	20.000	1 171	0 000	0 1	25 010	ESTACAO
251	E70-E71	180 00'00"D	0 00'00"	1.536	1 536	1.536	0 00'00"	20 000	1.171	0.000	0 1	25.536	ESTACAO
252	E70-1	90 00'00"D	0 00'00"	2 116	2 116	2 116	0 00'00"	2 000	1 800	0 000	1 1	0 000	CERCA
253	E70-2	90 00'00"D	0 00'00"	2 492	2 492	2 492	0 00'00"	15 000	1 800	0 000	1 1	0 000	
254	E70-3	270 00'00"D	0 00'00"	1 311	1 311	1 311	0 00'00"	3 000	1 800	0 000	1 1	0 000	
255	E70-4	270 00'00"D	0 00'00"	0 691	0 691	0 691	0 00'00"	6 400	1 800	0 000	1 1	0 000	
256	E70-5	270 00'00"D	0 00'00"	0 567	0 567	0 567	0 00'00"	15 000	1 800	0 000	1 1	0 000	
257	E71-E72	180 00'00"D	0 00'00"	1 675	1 675	1 675	0 00'00"	20 000	0 927	0.000	0 1	24.788	ESTACAO
258	E72-E+14	180 00'00"D	0 00'00"	1 746	1 746	1 746	0 00'00"	14 000	0 927	0 000	0 1	24.717	ESTACAO
259	E72-1	90 00'00"D	0 00'00"	1 810	1 810	1 810	0 00'00"	1 300	1 810	0 000	1 1	0 000	CASA
260	E72-2	270 00'00"D	0 00'00"	1 580	1 580	1 580	0 00'00"	2 000	1 810	0 000	1 1	0 000	
261	E72-3	270 00'00"D	0 00'00"	0 610	0 610	0 610	0 00'00"	5 000	1 810	0 000	1 1	0 000	
262	E72-4	270 00'00"D	0 00'00"	0 680	0 680	0 680	0 00'00"	15 000	1 810	0 000	1 1	0 000	
263	E+14-E73	172 37'15"D	0 00'00"	1 425	1 425	1 425	0 00'00"	6 000	0.927	0 000	0 1	25.038	ESTACAO
264	E73-E74	180.00'00"D	0.00'00"	1.405	1.405	1.405	0.00'00"	20 000	0 927	0.000	0 1	25.058	ESTACAO
265	E74-E75	180 00'00"D	0 00'00"	0.909	0.909	0.909	0 00'00"	20.000	0.927	0 000	0 1	25 554	ESTACAO
266	E74-1	90 00'00"D	0 00'00"	1 846	1 846	1 846	0 00'00"	0 800	1 850	0 000	1 1	0 000	MURO
267	E74-2	270 00'00"D	0 00'00"	1 315	1 315	1 315	0 00'00"	2 000	1 850	0 000	1 1	0 000	
268	E74-3	270 00'00"D	0 00'00"	0 726	0 726	0 726	0 00'00"	5 000	1 850	0 000	1 1	0 000	
269	E74-4	270 00'00"D	0 00'00"	0 718	0 718	0 718	0 00'00"	15 000	1 850	0 000	1 1	0 000	
270	E75-E76	180.00'00"D	0.00'00"	2 471	2 471	2 471	0.00'00"	20.000	2.296	0.000	0 1	25.379	ESTACAO

Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH	Proprietário						Data 26/08/97					
IN DICE	ALINH EST P V	ÂNGULO HORIZONTAL	RESIDUO ANGULAR	E S T A D I A			ÂNGULO VERTICAL	DISTÂNCIA INFORMADA	ALT APA	DIFER NIVEL	COD PTO	COD APA	COTA DIRETA	DESCRIÇÃO DO PONTO
271	E76-E+14	180 00'00"D	0 00'00"	1.805	1 805	1.805	0 00'00"	14.000	2 296	0 000	0 1	26.045	ESTACAO	
272	E76-1	90 00'00"D	0 00'00"	1 821	1 821	1 821	0 00'00"	0 800	1 800	0 000	1 1	0 000	MURO	
273	E76-2	270 00'00"D	0 00'00"	0 966	0 966	0 966	0 00'00"	3 600	1 800	0 000	1 1	0 000	B P	
274	E76-3	270 00'00"D	0 00'00"	0 900	0 900	0 900	0 00'00"	15 000	1 800	0 000	1 1	0 000		
275	E+14-E77	169 33'00"D	0.00'00"	1.876	1 876	1 876	0.00'00"	6 000	2 296	0.000	0 1	25.974	ESTACAO	
276	E77-E78	180 00'00"D	0.00'00"	2.152	2 152	2.152	0.00'00"	20.000	2.296	0.000	0 1	25.698	ESTACAO	
277	E78-E79	180 00'00"D	0.00'00"	2.041	2.041	2 041	0 00'00"	20 000	2 296	0 000	0 1	25.809	ESTACAO	
278	E78-1	90 00'00"D	0 00'00"	1 724	1 724	1 724	0 00'00"	1 000	1 624	0 000	1 1	0 000	CERCA	
279	E78-2	90 00'00"D	0 00'00"	1 866	1 866	1 866	0 00'00"	15 000	1 624	0 000	1 1	0 000		
280	E78-3	270 00'00"D	0 00'00"	1 324	1 324	1 324	0 00'00"	2 000	1 624	0 000	1 1	0 000		
281	E78-4	270 00'00"D	0 00'00"	0 900	0 900	0 900	0 00'00"	3 900	1 624	0 000	1 1	0 000	B P	
282	E78-5	270 00'00"D	0 00'00"	0 711	0 711	0 711	0 00'00"	15 000	1 624	0 000	1 1	0 000		
283	E79-E80	180.00'00"D	0.00'00"	2.011	2.011	2 011	0.00'00"	20.000	2.296	0.000	0 1	25.839	ESTACAO	
284	E80-E+18	180 00'00"D	0 00'00"	1 820	1 820	1.820	0 00'00"	18.000	2.296	0.000	0 1	26.030	ESTACAO	
285	E80-1	90 00'00"D	0 00'00"	1 815	1 815	1 815	0 00'00"	1 000	1 567	0 000	1 1	0 000	CERCA	
286	E80-2	90 00'00"D	0 00'00"	1 863	1 863	1 863	0 00'00"	15 000	1 567	0 000	1 1	0 000		
287	E80-3	270 00'00"D	0 00'00"	1 000	1 000	1 000	0 00'00"	2 000	1 567	0 000	1 1	0 000		
288	E80-4	270 00'00"D	0 00'00"	0 666	0 666	0 666	0 00'00"	4 400	1 567	0 000	1 1	0 000	B P	
289	E80-5	270 00'00"D	0 00'00"	0 594	0 594	0 594	0 00'00"	15 000	1 567	0 000	1 1	0 000		
290	E+18-E81	173 44'30"D	0.00'00"	1.820	1 820	1 820	0 00'00"	2 000	1 788	0 000	0 1	25 998	ESTACAO	
291	E81-E82	180 00'00"D	0.00'00"	1.570	1 570	1 570	0 00'00"	20 000	1 788	0 000	0 1	26 248	ESTACAO	
292	E82-E83	180 00'00"D	0.00'00"	1 147	1 147	1 147	0 00'00"	20 000	1 788	0 000	0 1	26 671	ESTACAO	
293	E82-1	90 00'00"D	0 00'00"	1 816	1 816	1 816	0 00'00"	15 000	1 624	0 000	1 1	0 000		
294	E82-2	270 00'00"D	0 00'00"	0 800	0 800	0 800	0 00'00"	4 000	1 624	0 000	1 1	0 000	B P	
295	E82-3	270 00'00"D	0 00'00"	0 821	0 821	0 821	0 00'00"	15 000	1 624	0 000	1 1	0 000		
296	E83-E84	180 00'00"D	0 00'00"	0 924	0 924	0.924	0 00'00"	20.000	1 788	0.000	0 1	26.894	ESTACAO	
297	E84-E85	180 00'00"D	0.00'00"	0.877	0 877	0.877	0 00'00"	20.000	1.788	0.000	0 1	26 941	ESTACAO	
298	E84-1	90 00'00"D	0 00'00"	1 518	1 518	1 518	0 00'00"	2 000	1 500	0 000	1 1	0 000	CASA	
299	E84-2	270 00'00"D	0 00'00"	1 315	1 315	1 315	0 00'00"	4 500	1 500	0 000	1 1	0 000	B P	
300	E84-3	270 00'00"D	0 00'00"	1 294	1 294	1 294	0 00'00"	15 000	1 500	0 000	1 1	0 000		
301	E85-E86	180 00'00"D	0.00'00"	1.263	1 263	1 263	0 00'00"	20.000	1 788	0 000	0 1	26 555	ESTACAO	
302	E86-E87	180 00'00"D	0 00'00"	0 955	0 955	0.955	0 00'00"	20 000	1 788	0.000	0 1	26.863	ESTACAO	
303	E86-1	90 00'00"D	0 00'00"	1 870	1 870	1 870	0 00'00"	2 000	1 857	0 000	1 1	0 000	MURO	
304	E86-2	270 00'00"D	0 00'00"	1 513	1 513	1 513	0 00'00"	2 000	1 857	0 000	1 1	0 000		
305	E86-3	270 00'00"D	0 00'00"	0 932	0 932	0 932	0 00'00"	4 800	1 857	0 000	1 1	0 000	B P	
306	E86-4	270 00'00"D	0 00'00"	0 860	0 860	0 860	0 00'00"	15 000	1 857	0 000	1 1	0 000		
307	E87-E88	180 00'00"D	0.00'00"	0.911	0 911	0.911	0 00'00"	20.000	1.788	0.000	0 1	26.907	ESTACAO	
308	E88-E89	180.00'00"D	0 00'00"	0 396	0 396	0 396	0 00'00"	20 000	1 788	0 000	0 1	27 422	ESTACAO	
309	E88-1	90 00'00"D	0 00'00"	1 830	1 830	1 830	0 00'00"	2 000	1 827	0 000	1 1	0 000	MURO	
310	E88-2	270 00'00"D	0 00'00"	1 510	1 510	1 510	0 00'00"	2 300	1 827	0 000	1 1	0 000		
311	E88-3	270 00'00"D	0 00'00"	0 817	0 817	0 817	0 00'00"	5 000	1 827	0 000	1 1	0 000	B P	
312	E88-4	270 00'00"D	0 00'00"	0 820	0 820	0 820	0 00'00"	15 000	1 827	0 000	1 1	0 000		
313	E89-E90	180 00'00"D	0 00'00"	1 369	1.369	1 369	0.00'00"	20 000	1 788	0 000	0 1	26 449	ESTACAO	
314	E90-E91	180 00'00"D	0 00'00"	1.456	1 456	1.456	0 00'00"	20 000	1.788	0.000	0 1	26.362	ESTACAO	
315	E90-1	90 00'00"D	0 00'00"	2 316	2 316	2 316	0 00'00"	15 000	2 116	0 000	1 1	0 000		

Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRF		Proprietário							Data 26/08/97			
IN DICE	ALINH EST P V	ÂNGULO HORIZONTAL	RESIDUO ANGULAR	E S T A D I A			ÂNGULO VERTICAL	DISTÂNCIA INFORMADA	ALT APA	DIFER NIVEL	COD PTO	COD APA	COTA DIRETA	DESCRIÇÃO DO PONTO
316	E90-2	270 00'00"D	0 00'00"	1 810	1 810	1 810	0 00'00"	1 000	2 116	0 000	1 1	0 000	P A	
317	E90-3	270 00'00"D	0 00'00"	0 166	0 166	0 166	0 00'00"	5 800	2 116	0 000	1 1	0 000	B P	
318	E90-4	270 00'00"D	0 00'00"	0 216	0 216	0 216	0 00'00"	15 000	2 116	0 000	1 1	0 000		
319	E91-E92	180 00'00"D	0.00'00"	0 930	0 930	0.930	0.00'00"	20 000	1.788	0 000	0 1	26 888	ESTACAO	
320	E92-E93	200 41'00"D	0.00'00"	1.698	1 698	1 698	0.00'00"	20 000	1 903	0 000	0 1	27.093	ESTACAO	
321	E92-1	90 00'00"D	0 00'00"	1 900	1 900	1 900	0 00'00"	15 000	1 860	0 000	1 1	0 000		
322	E92-2	270 00'00"D	0 00'00"	1 616	1 616	1 616	0 00'00"	8 000	1 860	0 000	1 1	0 000		
323	E92-3	270 00'00"D	0 00'00"	0 422	0 422	0 422	0 00'00"	11 000	1 860	0 000	1 1	0 000	B P	
324	E92-4	270 00'00"D	0 00'00"	0 460	0 460	0 460	0 00'00"	15 000	1 860	0 000	1 1	0 000		
325	E93-E94	180.00'00"D	0.00'00"	1.742	1 742	1 742	0.00'00"	20 000	1 903	0.000	0 1	27.049	ESTACAO	
326	E94-E95	180.00'00"D	0 00'00"	1.490	1.490	1.490	0 00'00"	20.000	1 903	0.000	0 1	27.301	ESTACAO	
327	E94-1	90 00'00"D	0 00'00"	2 194	2 194	2 194	0 00'00"	15 000	1 856	0 000	1 1	0 000		
328	E94-2	270 00'00"D	0 00'00"	1 516	1 516	1 516	0 00'00"	3 000	1 856	0 000	1 1	0 000		
329	E94-3	270 00'00"D	0 00'00"	0 286	0 286	0 286	0 00'00"	6 300	1 856	0 000	1 1	0 000	B P	
330	E94-4	270 00'00"D	0 00'00"	0 408	0 408	0 408	0 00'00"	15 000	1 856	0 000	1 1	0 000		
331	E95-E96	180 00'00"D	0.00'00"	1 390	1.390	1.390	0 00'00"	20.000	1 903	0.000	0 1	27.401	ESTACAO	
332	E96-E97	180 00'00"D	0.00'00"	1.483	1 483	1.483	0.00'00"	20.000	1.903	0.000	0 1	27.308	ESTACAO	
333	E96-1	90 00'00"D	0 00'00"	1 700	1 700	1 700	0 00'00"	15 000	1 686	0 000	1 1	0 000		
334	E96-2	270 00'00"D	0 00'00"	1 160	1 160	1 160	0 00'00"	5 000	1 686	0 000	1 1	0 000		
335	E96-3	270 00'00"D	0 00'00"	0 366	0 366	0 366	0 00'00"	8 400	1 686	0 000	1 1	0 000	B P	
336	E96-4	270 00'00"D	0 00'00"	0 324	0 324	0 324	0 00'00"	15 000	1 686	0 000	1 1	0 000		
337	E97-E+5	180 00'00"D	0 00'00"	1.413	1 413	1 413	0.00'00"	5 000	1 903	0 000	0 1	27.378	ESTACAO	
338	E+5-E98	203 29'00"D	0 00'00"	1 510	1 510	1 510	0 00'00"	15 000	1 903	0 000	0 1	27 281	ESTACAO	
339	E98-E99	180 00'00"D	0 00'00"	1 279	1 279	1.279	0 00'00"	20 000	1 903	0.000	0 1	27.512	ESTACAO	
340	E98-1	90 00'00"D	0 00'00"	1 618	1 618	1 618	0 00'00"	1 000	1 680	0 000	1 1	0 000	CERCA	
341	E98-2	90 00'00"D	0 00'00"	1 622	1 622	1 622	0 00'00"	15 000	1 680	0 000	1 1	0 000		
342	E98-3	270 00'00"D	0 00'00"	1 500	1 500	1 500	0 00'00"	6 800	1 680	0 000	1 1	0 000		
343	E98-4	270 00'00"D	0 00'00"	0 496	0 496	0 496	0 00'00"	9 000	1 680	0 000	1 1	0 000		
344	E98-5	270 00'00"D	0 00'00"	0 566	0 566	0 566	0 00'00"	15 000	1 680	0 000	1 1	0 000		
345	E99-E100	180 00'00"D	0.00'00"	1 832	1 832	1.832	0 00'00"	20 000	1 753	0 000	0 1	27.433	ESTACAO	
346	E100-E101	180 00'00"D	0.00'00"	1 537	1.537	1.537	0 00'00"	20.000	1 753	0.000	0 1	27.728	ESTACAO	
347	E100-1	90 00'00"D	0 00'00"	1 866	1 866	1 866	0 00'00"	1 200	1 810	0 000	1 1	0 000	CERCA	
348	E100-2	90 00'00"D	0 00'00"	1 913	1 913	1 913	0 00'00"	15 000	1 810	0 000	1 1	0 000		
349	E100-3	270 00'00"D	0 00'00"	1 510	1 510	1 510	0 00'00"	2 000	1 810	0 000	1 1	0 000		
350	E100-4	270 00'00"D	0 00'00"	0 794	0 794	0 794	0 00'00"	4 700	1 810	0 000	1 1	0 000	B P	
351	E100-5	270 00'00"D	0 00'00"	0 796	0 796	0 796	0 00'00"	15 000	1 810	0 000	1 1	0 000		
352	E101-E102	180 00'00"D	0 00'00"	1 758	1 758	1.758	0 00'00"	20 000	1 753	0 000	0 1	27.507	ESTACAO	
353	E102-E103	180.00'00"D	0 00'00"	2.103	2 103	2 103	0.00'00"	20.000	1.753	0.000	0 1	27 162	ESTACAO	
354	E102-1	90 00'00"D	0 00'00"	1 722	1 722	1 722	0 00'00"	1 000	1 680	0 000	1 1	0 000	CERCA	
355	E102-2	90 00'00"D	0 00'00"	1 800	1 800	1 800	0 00'00"	15 000	1 680	0 000	1 1	0 000		
356	E102-3	270 00'00"D	0 00'00"	0 796	0 796	0 796	0 00'00"	5 300	1 680	0 000	1 1	0 000	B P	
357	E102-4	270 00'00"D	0 00'00"	0 800	0 800	0 800	0 00'00"	15 000	1 680	0 000	1 1	0 000		
358	E103-E104	183 48'30"D	0 00'00"	2.070	2 070	2 070	0.00'00"	20 000	1.753	0.000	0 1	27 195	ESTACAO	
359	E104-E105	180 00'00"D	0.00'00"	2.156	2 156	2.156	0 00'00"	20 000	1 753	0.000	0 1	27.109	ESTACAO	
360	E104-1	90 00'00"D	0 00'00"	1 711	1 711	1 711	0 00'00"	1 200	1 680	0 000	1 1	0 000	CERCA	



Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA Local CASCAVEL - CE

SRH		Proprietário							Data 26/08/97				
IN	ALINH	ANGULO	RESIDUO	B S T A D I A			ANGULO	DISTÂNCIA	ALT	DIPER	COD COD	COTA	DESCRIÇÃO
"	EST P V	HORIZONTAL	ANGULAR	SUP	MED	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO APA	DIRETA	DO PONTO
361	E104-2	90 00'00"D	0 00'00"	1 866	1 866	1 866	0 00'00"	15 000	1 680	0 000	1 1	0 000	
362	E104-3	270 00'00"D	0 00'00"	1 300	1 300	1 300	0 00'00"	3 000	1 680	0 000	1 1	0 000	
363	E104-4	270 00'00"D	0 00'00"	0 596	0 596	0 596	0 00'00"	6 000	1 680	0 000	1 1	0 000	
364	E104-5	270 00'00"D	0 00'00"	0 600	0 600	0 600	0 00'00"	15 000	1 680	0 000	1 1	0 000	
365	E105-E106	180.00'00"D	0 00'00"	2.389	2 389	2.389	0 00'00"	20 000	1 753	0.000	0 1	26.876	ESTACAO
366	E106-E107	180.00'00"D	0.00'00"	2.130	2.130	2.130	0 00'00"	20 000	1.753	0.000	0 1	27.135	ESTACAO
367	E106-1	90 00'00"D	0 00'00"	1 875	1 875	1 875	0 00'00"	1 500	1 821	0 000	1 1	0 000	CERCA
368	E106-2	90 00'00"D	0 00'00"	1 977	1 977	1 977	0 00'00"	15 000	1 821	0 000	1 1	0 000	
369	E106-3	270 00'00"D	0 00'00"	1 566	1 566	1 566	0 00'00"	3 000	1 821	0 000	1 1	0 000	
370	E106-4	270 00'00"D	0 00'00"	0 794	0 794	0 794	0 00'00"	5 300	1 821	0 000	1 1	0 000	
371	E106-5	270 00'00"D	0 00'00"	0 816	0 816	0 816	0 00'00"	15 000	1 821	0 000	1 1	0.000	
372	E107-E108	180.00'00"D	0.00'00"	2.420	2.420	2.420	0.00'00"	20.000	1.753	0.000	0 1	26.845	ESTACAO
373	E108-E109	180.00'00"D	0.00'00"	2.326	2.326	2 326	0.00'00"	20.000	1.753	0.000	0 1	26.939	ESTACAO
374	E108-1	90 00'00"D	0 00'00"	1 796	1 796	1 796	0 00'00"	15 000	1 866	0 000	1 1	0 000	
375	E108-2	270 00'00"D	0 00'00"	1 611	1 611	1 611	0 00'00"	3 800	1 866	0 000	1 1	0 000	
376	E108-3	270 00'00"D	0 00'00"	0 612	0 612	0 612	0 00'00"	6 200	1 866	0 000	1 1	0 000	
377	E108-4	270 00'00"D	0 00'00"	0 622	0 622	0 622	0 00'00"	15 000	1 866	0 000	1 1	0 000	
378	E109-E110	180 00'00"D	0 00'00"	2.922	2 922	2.922	0 00'00"	20 000	1.753	0.000	0 1	26.343	ESTACAO
379	E110-E111	191 37'15"D	0.00'00"	0.739	0 739	0.739	0 00'00"	20 000	0 458	0.000	0 1	26.062	ESTACAO
380	E110-1	90 00'00"D	0 00'00"	1 872	1 872	1 872	0 00'00"	15 000	1 856	0 000	1 1	0 000	
381	E110-2	270 00'00"D	0 00'00"	1 620	1 620	1 620	0 00'00"	8 000	1 856	0 000	1 1	0 000	
382	E110-3	270 00'00"D	0 00'00"	0 428	0 428	0 428	0 00'00"	10 000	1 856	0 000	1 1	0 000	
383	E110-4	270 00'00"D	0 00'00"	0 400	0 400	0 400	0 00'00"	15 000	1 856	0 000	1 1	0 000	
384	E111-E112	180.00'00"D	0.00'00"	1.247	1.247	1 247	0.00'00"	20 000	0 458	0 000	0 1	25 554	ESTACAO
385	E112-E113	180 00'00"D	0 00'00"	1.825	1 825	1 825	0 00'00"	20 000	0 458	0 000	0 1	24.976	ESTACAO
386	E112-1	90 00'00"D	0 00'00"	1 511	1 511	1 511	0 00'00"	15 000	1 816	0 000	1 1	0 000	
387	E112-2	270 00'00"D	0 00'00"	1 621	1 621	1 621	0 00'00"	5 000	1 816	0 000	1 1	0 000	
388	E112-3	270 00'00"D	0 00'00"	0 794	0 794	0 794	0 00'00"	8 200	1 816	0 000	1 1	0 000	B P
389	E112-4	270 00'00"D	0 00'00"	0 788	0 788	0 788	0 00'00"	15 000	1 816	0 000	1 1	0 000	
390	E113-E114	180 00'00"D	0 00'00"	2.695	2 695	2 695	0 00'00"	20.000	0 458	0 000	0 1	24.106	ESTACAO
391	E114-E115	180 00'00"D	0.00'00"	1.105	1 105	1 105	0 00'00"	20.000	0 303	0 000	0 1	23.304	ESTACAO
392	E114-1	90 00'00"D	0 00'00"	1 466	1 466	1 466	0 00'00"	15 000	1 620	0 000	1 1	0 000	
393	E114-2	270 00'00"D	0 00'00"	1 587	1 587	1 587	0 00'00"	6 000	1 620	0 000	1 1	0 000	
394	E114-3	270 00'00"D	0 00'00"	0 910	0 910	0 910	0 00'00"	8 800	1 620	0 000	1 1	0 000	
395	E114-4	270 00'00"D	0 00'00"	0 931	0 931	0 931	0 00'00"	15 000	1 620	0 000	1 1	0 000	
396	E115-E116	180 00'00"D	0 00'00"	1 804	1 804	1 804	0.00'00"	20.000	0 303	0 000	0 1	22 605	ESTACAO
397	E116-E117	180 00'00"D	0 00'00"	2.298	2 298	2 298	0 00'00"	20 000	0 368	0 000	0 1	20.675	ESTACAO
398	E116-1	90 00'00"D	0 00'00"	1 586	1 586	1 586	0 00'00"	15 000	1 610	0 000	1 1	0 000	
399	E116-2	270 00'00"D	0 00'00"	1 722	1 722	1 722	0 00'00"	9 300	1 610	0 000	1 1	0 000	B P
400	E116-3	270 00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	15 000	1 610	0 000	1 1	0 000	
401	E117-E118	180 00'00"D	0.00'00"	1.226	1 226	1.226	0 00'00"	20.000	0.136	0.000	0 1	21.747	ESTACAO
402	E118-E119	180.00'00"D	0.00'00"	2.432	2.432	2.432	0.00'00"	20 000	0.136	0.000	0 1	20.541	ESTACAO
403	E118-1	90 00'00"D	0 00'00"	1 720	1 720	1 720	0 00'00"	1 000	1 622	0 000	1 1	0 000	
404	E118-2	90 00'00"D	0 00'00"	3 194	3 194	3 194	0 00'00"	3 000	1 622	0 000	1 1	0 000	
405	E118-3	90 00'00"D	0 00'00"	1 720	1 720	1 720	0 00'00"	7 500	1 622	0 000	1 1	0 000	

Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH	Proprietário							Data 26/08/97					
IN	ALINH	ÂNGULO	RESIDUO	E S T A D I A			ÂNGULO	DISTÂNCIA	ALT	DIPER	COD	COD	COTA	DESCRIÇÃO	
DIK	EST	P V	HORIZONTAL	ANGULAR	SUP	MBD	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO	APA	DIRETA	DO PONTO
406	E118-4	90	00'00"D	0 00'00"	1 516	1 516	1 516	0 00'00"	15 000	1 622	0 000	1 1	0 000		
407	E118-5	270	00'00"D	0 00'00"	0 910	0 910	0 910	0 00'00"	8 000	1 622	0 000	1 1	0 000		
408	E118-6	270	00'00"D	0 00'00"	0 610	0 610	0 610	0 00'00"	10 000	1 622	0 000	1 1	0 000	B P	
409	E119-E120	180	00'00"D	0.00'00"	1.363	1.363	1.363	0.00'00"	20 000	0.097	0.000	0 1	19.275	ESTACAO	
410	E120-E121	180	00'00"D	0 00'00"	2.040	2.040	2.040	0.00'00"	20.000	0.097	0.000	0 1	18.598	ESTACAO	
411	E120-1	90	00'00"D	0 00'00"	1 711	1 711	1 711	0 00'00"	15 000	1 864	0 000	1 1	0 000		
412	E120-2	270	00'00"D	0 00'00"	1 066	1 066	1 066	0 00'00"	8 000	1 864	0 000	1 1	0 000		
413	E120-3	270	00'00"D	0 00'00"	0 316	0 316	0 316	0 00'00"	10 700	1 864	0 000	1 1	0 000	B P	
414	E120-4	270	00'00"D	0 00'00"	0 311	0 311	0 311	0 00'00"	15 000	1 864	0.000	1 1	0 000		
415	E121-E122	180	00'00"D	0.00'00"	2.363	2.363	2.363	0.00'00"	20.000	0.097	0.000	0 1	18.275	ESTACAO	
416	E122-E123	180	00'00"D	0.00'00"	3.098	3.098	3.098	0.00'00"	20.000	0.097	0.000	0 1	17.540	ESTACAO	
417	E122-1	90	00'00"D	0 00'00"	2 194	2 194	2 194	0 00'00"	15 000	1 622	0 000	1 1	0 000		
418	E122-2	270	00'00"D	0 00'00"	0 810	0 810	0 810	0 00'00"	11 400	1 622	0 000	1 1	0 000	B P	
419	E122-3	270	00'00"D	0 00'00"	0 860	0 860	0 860	0 00'00"	15 000	1 622	0 000	1 1	0 000		
420	E123-E124	180	00'00"D	0.00'00"	1.146	1.146	1.146	0.00'00"	20.000	0.308	0.000	0 1	16.702	ESTACAO	
421	E124-E125	180	00'00"D	0.00'00"	2 339	2 339	2 339	0.00'00"	20 000	0.308	0.000	0 1	15.509	ESTACAO	
422	E124-1	90	00'00"D	0 00'00"	1 594	1 594	1 594	0 00'00"	15 000	1 620	0 000	1 1	0 000		
423	E124-2	270	00'00"D	0 00'00"	0 966	0 966	0 966	0 00'00"	12 000	1 620	0 000	1 1	0 000		
424	E124-3	270	00'00"D	0 00'00"	0 980	0 980	0 980	0 00'00"	15 000	1 620	0 000	1 1	0 000		
425	E125-E126	180	00'00"D	0.00'00"	2 220	2 220	2 220	0.00'00"	20 000	0.399	0.000	0 1	13 688	ESTACAO	
426	E126-E127	180	00'00"D	0.00'00"	2 201	2 201	2 201	0 00'00"	20.000	0 193	0.000	0 1	11 680	ESTACAO	
427	E126-1	90	00'00"D	0 00'00"	1 866	1 866	1 866	0 00'00"	10 000	2 680	0 000	1 1	0 000	CASA	
428	E126-2	270	00'00"D	0 00'00"	0 618	0 618	0 618	0 00'00"	12 600	2 680	0 000	1 1	0 000	B P	
429	E126-3	270	00'00"D	0 00'00"	0 624	0 624	0 624	0 00'00"	15 000	2 680	0 000	1 1	0 000		
430	E127-E128	180	00'00"D	0 00'00"	1 157	1 157	1 157	0 00'00"	20 000	0 192	0.000	0 1	10 715	ESTACAO	
431	E128-E129	180	00'00"D	0 00'00"	1 745	1 745	1 745	0 00'00"	20.000	0 192	0 000	0 1	10.127	ESTACAO	
432	E128-1	90	00'00"D	0 00'00"	1 975	1 975	1 975	0 00'00"	5 000	1 894	0 000	1 1	0 000		
433	E128-2	270	00'00"D	0 00'00"	0 680	0 680	0 680	0 00'00"	5 000	1 894	0 000	1 1	0 000		
434	E128-3	270	00'00"D	0 00'00"	0 110	0 110	0 110	0 00'00"	14 000	1 894	0 000	1 1	0 000	B P	
435	E129-E130	180	00'00"D	0 00'00"	2.222	2.222	2 222	0 00'00"	20.000	0 192	0 000	0 1	9.650	ESTACAO	
436	E130-E131	180	00'00"D	0 00'00"	2.270	2.270	2 270	0 00'00"	20.000	0.192	0 000	0 1	9 602	ESTACAO	
437	E130-1	90	00'00"D	0 00'00"	1 861	1 861	1 861	0 00'00"	15 000	1 810	0 000	1 1	0 000		
438	E130-2	270	00'00"D	0 00'00"	0 700	0 700	0 700	0 00'00"	14 700	1 810	0 000	1 1	0 000	B P	
439	E131-E132	180	00'00"D	0.00'00"	3 727	3 727	3 727	0.00'00"	20.000	0 192	0.000	0 1	8.145	ESTACAO	
440	E132-E133	180	00'00"D	0 00'00"	2.133	2 133	2 133	0.00'00"	20.000	0.520	0 000	0 1	6 532	ESTACAO	
441	E132-1	90	00'00"D	0 00'00"	1 628	1 628	1 628	0 00'00"	15 000	1 610	0 000	1 1	0 000		
442	E132-2	270	00'00"D	0 00'00"	1 266	1 266	1 266	0 00'00"	10 000	1 610	0 000	1 1	0 000		
443	E133-E134	180	00'00"D	0 00'00"	2 587	2 587	2 587	0 00'00"	20.000	0 520	0.000	0 1	6.078	ESTACAO	
444	E134-E135	180	00'00"D	0 00'00"	2.930	2.930	2 930	0 00'00"	20.000	0 520	0.000	0 1	5.735	ESTACAO	
445	E134-1	90	00'00"D	0 00'00"	1 712	1 712	1 712	0 00'00"	15 000	1 680	0 000	1 1	0 000		
446	E134-2	270	00'00"D	0 00'00"	1 300	1 300	1 300	0 00'00"	12 000	1 680	0 000	1 1	0 000		
447	E134-3	270	00'00"D	0 00'00"	0 020	0 020	0 020	0 00'00"	15 000	1 680	0 000	1 1	0 000		
448	E135-E+13	180	00'00"D	0 00'00"	2.880	2.880	2 880	0 00'00"	13.000	0 520	0 000	0 1	5.785	ESTACAO	
449	E+13-E136	180	00'00"D	0 00'00"	3.081	3.081	3 081	0.00'00"	7.000	0 520	0 000	0 1	5.584	ESTACAO	
450	E136-E137	180	00'00"D	0.00'00"	3.882	3.882	3 882	0.00'00"	20.000	3.348	0 000	0 1	5.050	ESTACAO	

Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH	Proprietário							Data 26/08/97				
IN DICE	ALINH EST P V	ÂNGULO HORIZONTAL	RESIDUO ANGULAR	E S T A D I A			ÂNGULO VERTICAL	DISTÂNCIA INFORMADA	ALT APA	DIPER NIVEL	COD PTO	COD APA	COTA DIRETA	DESCRIÇÃO DO PONTO
451	E137-E+5	274.31'15"D	0 00'00"	3 950	3.950	3.950	0 00'00"	5 000	3.348	0.000	0 1	4.982	ESTACAO	
452	E+5-E138	180.00'00"D	0.00'00"	2.945	2 945	2.945	0.00'00"	15 000	3 348	0 000	0 1	5.987	ESTACAO	
453	E138-E139	180.00'00"D	0.00'00"	1.572	1.572	1.572	0.00'00"	20 000	2 197	0 000	0 1	6.612	ESTACAO	
454	E138-1	90 00'00"D	0 00'00"	2 420	2 420	2 420	0 00'00"	2 000	2 684	0 000	1 1	0 000	P A	
455	E138-2	90 00'00"D	0 00'00"	0 421	0 421	0 421	0 00'00"	9 500	2 684	0 000	1 1	0 000	B P	
456	E138-3	90 00'00"D	0 00'00"	0 430	0 430	0 430	0 00'00"	15 000	2 684	0 000	1 1	0 000		
457	E138-4	270 00'00"D	0 00'00"	2 611	2 611	2 611	0 00'00"	15 000	2 684	0 000	1 1	0 000		
458	E139-E140	180 00'00"D	0.00'00"	1.089	1.089	1.089	0 00'00"	20.000	2.197	0.000	0 1	7.095	ESTACAO	
459	E140-E141	180 00'00"D	0.00'00"	2.385	2.385	2.385	0 00'00"	20.000	3.483	0.000	0 1	8.193	ESTACAO	
460	E140-1	90 00'00"D	0 00'00"	1 826	1 826	1 826	0 00'00"	5 000	1 810	0 000	1 1	0 000		
461	E140-2	90 00'00"D	0 00'00"	0 712	0 712	0 712	0 00'00"	10 000	1 810	0 000	1 1	0 000	B P	
462	E140-3	90 00'00"D	0 00'00"	0 800	0 800	0 800	0 00'00"	15 000	1 810	0 000	1 1	0 000		
463	E140-4	270 00'00"D	0 00'00"	1 816	1 816	1 816	0 00'00"	15 000	1 810	0 000	1 1	0 000		
464	E141-E142	180 00'00"D	0.00'00"	1.143	1.143	1 143	0 00'00"	20 000	3.483	0.000	0 1	9.435	ESTACAO	
465	E142-E143	87 30'00"D	0.00'00"	0.514	0.514	0 514	0 00'00"	20.000	3.483	0.000	0 1	10.064	ESTACAO	
466	E142-1	90 00'00"D	0 00'00"	1 711	1 711	1 711	0 00'00"	8 400	1 620	0 000	1 1	0 000	B P	
467	E142-2	90 00'00"D	0 00'00"	1 710	1 710	1 710	0 00'00"	15 000	1 620	0 000	1 1	0 000		
468	E142-3	270 00'00"D	0 00'00"	1 460	1 460	1 460	0 00'00"	15 000	1 620	0 000	1 1	0 000		
469	E143-E144	195.03'15"D	0.00'00"	2.238	2.238	2.238	0.00'00"	20 000	3 266	0 000	0 1	11 092	ESTACAO	
470	E144-E145	180 00'00"D	0.00'00"	2.468	2.468	2 468	0 00'00"	20 000	3 266	0.000	0 1	10.862	ESTACAO	
471	E144-1	90 00'00"D	0 00'00"	1 722	1 722	1 722	0 00'00"	8 700	1 680	0 000	1 1	0 000	B P	
472	E144-2	90 00'00"D	0 00'00"	1 607	1 607	1 607	0 00'00"	15 000	1 680	0 000	1 1	0 000		
473	E144-3	270 00'00"D	0 00'00"	1 420	1 420	1 420	0 00'00"	15 000	1 680	0 000	1 1	0 000		
474	E145-E146	180 00'00"D	0 00'00"	1 297	1.297	1.297	0.00'00"	20 000	3 266	0 000	0 1	12 033	ESTACAO	
475	E146-E147	180 00'00"D	0 00'00"	3 043	3.043	3.043	0.00'00"	20 000	3 535	0 000	0 1	12 525	ESTACAO	
476	E146-1	90 00'00"D	0 00'00"	0 610	0 610	0 610	0 00'00"	10 200	1 810	0 000	1 1	0 000	B P	
477	E146-2	90 00'00"D	0 00'00"	0 600	0 600	0 600	0 00'00"	15 000	1 810	0 000	1 1	0 000		
478	E146-3	270 00'00"D	0 00'00"	1 700	1 700	1 700	0 00'00"	15 000	1 810	0 000	1 1	0 000		
479	E147-E148	180 00'00"D	0 00'00"	2 094	2.094	2.094	0.00'00"	20 000	3 535	0 000	0 1	13 474	ESTACAO	
480	E148-E149	180 00'00"D	0.00'00"	1.443	1 443	1 443	0 00'00"	20 000	3 535	0.000	0 1	14.125	ESTACAO	
481	E148-1	90 00'00"D	0 00'00"	0 716	0 716	0 716	0 00'00"	8 700	1 716	0 000	1 1	0 000	B P	
482	E148-2	90 00'00"D	0 00'00"	0 587	0 587	0 587	0 00'00"	15 000	1 716	0 000	1 1	0 000		
483	E148-3	270 00'00"D	0 00'00"	1 681	1 681	1 681	0 00'00"	15 000	1 716	0 000	1 1	0 000		
484	E149-E150	180 00'00"D	0.00'00"	3.530	3.530	3 530	0 00'00"	20 000	3 820	0.000	0 1	14.415	ESTACAO	
485	E150-E151	180 00'00"D	0.00'00"	2.233	2 233	2 233	0 00'00"	20 000	3.820	0.000	0 1	15.712	ESTACAO	
486	E150-1	90 00'00"D	0 00'00"	0 810	0 810	0 810	0 00'00"	6 600	1 810	0 000	1 1	0 000	B P	
487	E150-2	90 00'00"D	0 00'00"	0 794	0 794	0 794	0 00'00"	15 000	1 810	0 000	1 1	0 000		
488	E150-3	270 00'00"D	0 00'00"	1 910	1 910	1 910	0 00'00"	1 600	1 810	0 000	1 1	0 000		
489	E150-4	270 00'00"D	0 00'00"	3 960	3 960	3 960	0 00'00"	3 000	1 810	0 000	1 1	0 000		
490	E150-5	270 00'00"D	0 00'00"	3 968	3 968	3 968	0 00'00"	15 000	1 810	0 000	1 1	0 000		
491	E151-E152	180.00'00"D	0.00'00"	0.927	0 927	0 927	0 00'00"	20.000	3.820	0.000	0 1	17.018	ESTACAO	
492	E152-E+12	180.00'00"D	0 00'00"	3.339	3.339	3.339	0.00'00"	12 000	3.989	0.000	0 1	17 668	ESTACAO	
493	E152-1	90 00'00"D	0 00'00"	1 319	1 319	1 319	0 00'00"	4 500	1 622	0 000	1 1	0 000	B P	
494	E152-2	90 00'00"D	0 00'00"	1 300	1 300	1 300	0 00'00"	15 000	1 622	0 000	1 1	0 000		
495	E152-3	270 00'00"D	0 00'00"	1 416	1 416	1 416	0 00'00"	3 000	1 622	0 000	1 1	0 000		

**Relatório dos dados da caderneta de campo**

**Pg.:012**

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH	Proprietário							Data 26/08/97					
IN	ALINH	ÂNGULO	RESIDUO	E S T A D I A			ÂNGULO	DISTÂNCIA	ALT	DIFER	COD	COD	COTA	DESCRIÇÃO	
BOOK	EST	P V	HORIZONTAL	ANGULAR	SUP	MED	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO	APA	DIRETA	DO PONTO
496	E152-4		270 00'00"D	0 00'00"	3 910	3 910	3 910	0 00'00"	4 800	1 622	0 000	1	1	0 000	
497	E152-5		270 00'00"D	0 00'00"	0 000	3 990	0 000	0 00'00"	15 000	1 622	0 000	1	1	0 000	
498	E+12-E153		182.50'00"D	0.00'00"	2.910	2 910	2 910	0 00'00"	8.000	3.989	0.000	0	1	18.097	ESTACAO
499	E153-E154		180 00'00"D	0.00'00"	1.975	1.975	1.975	0 00'00"	20.000	3.989	0.000	0	1	19.032	ESTACAO
500	E154-E155		180.00'00"D	0.00'00"	0 296	0 296	0 296	0 00'00"	20 000	3.989	0 000	0	1	20.711	ESTACAO
501	E154-1		90 00'00"D	0 00'00"	0 494	0 494	0 494	0 00'00"	4 000	1 066	0 000	1	1	0 000	B P
502	E154-2		90 00'00"D	0 00'00"	0 366	0 366	0 366	0 00'00"	15 000	1 066	0 000	1	1	0 000	
503	E154-3		270 00'00"D	0 00'00"	1 100	1 100	1 100	0 00'00"	2 000	1 066	0 000	1	1	0 000	
504	E154-4		270 00'00"D	0 00'00"	3 910	3 910	3 910	0 00'00"	3 800	1 066	0 000	1	1	0 000	
505	E154-5		270 00'00"D	0 00'00"	3 966	3 966	3 966	0 00'00"	15 000	1 066	0 000	1	1	0 000	
506	E155-E156		180.00'00"D	0.00'00"	2 862	2.862	2.862	0.00'00"	20 000	3 593	0 000	0	1	21 442	ESTACAO
507	E156-E157		180.00'00"D	0.00'00"	2.108	2 108	2 108	0 00'00"	20.000	3.593	0 000	0	1	22.196	ESTACAO
508	E156-1		90 00'00"D	0 00'00"	1 360	1 360	1 360	0 00'00"	4 000	1 610	0 000	1	1	0 000	B P
509	E156-2		90 00'00"D	0 00'00"	1 316	1 316	1 316	0 00'00"	15 000	1 610	0 000	1	1	0 000	
510	E156-3		270 00'00"D	0 00'00"	1 516	1 516	1 516	0 00'00"	8 000	1 610	0 000	1	1	0 000	CASA
511	E157-E158		180.00'00"D	0.00'00"	1.271	1 271	1.271	0 00'00"	20.000	3.593	0 000	0	1	23.033	ESTACAO
512	E158-E159		180.00'00"D	0.00'00"	0.683	0 683	0 683	0 00'00"	20 000	3.593	0 000	0	1	23 621	ESTACAO
513	E158-1		90 00'00"D	0 00'00"	1 517	1 517	1 517	0 00'00"	4 000	1 618	0 000	1	1	0 000	B P
514	E158-2		90 00'00"D	0 00'00"	1 496	1 496	1 496	0 00'00"	15 000	1 618	0 000	1	1	0 000	
515	E158-3		270 00'00"D	0 00'00"	1 607	1 607	1 607	0 00'00"	1 000	1 618	0 000	1	1	0 000	CERCA
516	E158-4		270 00'00"D	0 00'00"	1 499	1 499	1 499	0 00'00"	15 000	1 618	0 000	1	1	0 000	
517	E159-E160		180 00'00"D	0 00'00"	1 730	1.730	1.730	0.00'00"	20.000	2 171	0 000	0	1	24 062	ESTACAO
518	E160-E161		180 00'00"D	0 00'00"	1 522	1 522	1.522	0 00'00"	20.000	2 171	0 000	0	1	24 270	ESTACAO
519	E160-1		90 00'00"D	0 00'00"	0 611	0 611	0 611	0 00'00"	4 000	1 594	0 000	1	1	0 000	B P
520	E160-2		90 00'00"D	0 00'00"	0 564	0 564	0 564	0 00'00"	15 000	1 594	0 000	1	1	0 000	
521	E160-3		270 00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	1 000	1 594	0 000	1	1	0 000	CERCA
522	E160-4		270 00'00"D	0 00'00"	1 517	1 517	1 517	0 00'00"	15 000	1 594	0 000	1	1	0 000	
523	E161-E162		180 00'00"D	0 00'00"	0.962	0 962	0 962	0 00'00"	20 000	2.171	0 000	0	1	24.830	ESTACAO
524	E162-E163		180 00'00"D	0.00'00"	0 540	0 540	0 540	0 00'00"	20 000	2 171	0 000	0	1	25 252	ESTACAO
525	E162-1		90 00'00"D	0 00'00"	1 216	1 216	1 216	0 00'00"	4 000	1 570	0 000	1	1	0 000	B P
526	E162-2		90 00'00"D	0 00'00"	1 100	1 100	1 100	0 00'00"	15 000	1 570	0 000	1	1	0 000	
527	E162-3		270 00'00"D	0 00'00"	1 610	1 610	1 610	0 00'00"	5 000	1 570	0 000	1	1	0 000	CASA
528	E163-E164		180 00'00"D	0 00'00"	1 593	1.593	1.593	0.00'00"	20 000	1 720	0.000	0	1	25.379	ESTACAO
529	E164-E165		180 00'00"D	0 00'00"	1.322	1 322	1 322	0 00'00"	20 000	1 720	0 000	0	1	25 650	ESTACAO
530	E164-1		90 00'00"D	0 00'00"	1 422	1 422	1 422	0 00'00"	4 000	1 610	0 000	1	1	0 000	B P
531	E164-2		90 00'00"D	0 00'00"	1 680	1 680	1 680	0 00'00"	15 000	1 610	0 000	1	1	0 000	
532	E164-3		270 00'00"D	0 00'00"	1 610	1 610	1 610	0 00'00"	0 900	1 610	0 000	1	1	0 000	CASA
533	E165-E166		184.46'00"D	0.00'00"	1 483	1 483	1 483	0.00'00"	20 000	1 720	0.000	0	1	25 489	ESTACAO
534	E166-E167		180 00'00"D	0 00'00"	1 445	1.445	1.445	0 00'00"	20.000	1.720	0 000	0	1	25.527	ESTACAO
535	E166-1		90 00'00"D	0 00'00"	1 300	1 300	1 300	0 00'00"	3 800	1 510	0 000	1	1	0 000	B P
536	E166-2		90 00'00"D	0 00'00"	1 586	1 586	1 586	0 00'00"	15 000	1 510	0 000	1	1	0 000	
537	E166-3		270 00'00"D	0 00'00"	1 510	1 510	1 510	0 00'00"	1 300	1 510	0 000	1	1	0 000	P M
538	E167-E168		180 00'00"D	0 00'00"	1.333	1 333	1 333	0 00'00"	20 000	1 720	0 000	0	1	25.639	ESTACAO
539	E168-E169		180.00'00"D	0 00'00"	2.122	2.122	2.122	0 00'00"	20 000	1.893	0 000	0	1	25.410	ESTACAO
540	E168-1		90 00'00"D	0 00'00"	1 311	1 311	1 311	0 00'00"	3 800	1 616	0 000	1	1	0 000	B P

Relatório dos dados da caderneta de campo

Pg.:013

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH	Proprietário						Data 26/08/97				
IN	ALINH	ANGULO	RBSIDUO	E S T A D I A			ANGULO	DISTÂNCIA	ALT	DIFER	COD COD	COTA	DESCRIÇÃO
N	EST P V	HORIZONTAL	ANGULAR	SUP	MED	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO APA	DIRETA	DO PONTO
541	E168-2	90 00'00"D	0 00'00"	1 608	1 608	1 608	0 00'00"	15 000	1 616	0 000	1 1	0 000	
542	E168-3	270 00'00"D	0 00'00"	1 806	1 806	1 806	0 00'00"	6 000	1 616	0 000	1 1	0 000	CASA
543	E169-E+10	180.00'00"D	0.00'00"	1.952	1 952	1.952	0 00'00"	10 000	1.893	0.000	0 1	25.580	ESTACAO
544	E+10-E170	188 55'15"D	0.00'00"	2.030	2 030	2.030	0 00'00"	10.000	1.893	0.000	0 1	25.502	ESTACAO
545	E170-E171	180 00'00"D	0.00'00"	2 238	2.238	2 238	0.00'00"	20.000	1 893	0 800	0 1	25.294	ESTACAO
546	E170-1	90 00'00"D	0 00'00"	1 120	1 120	1 120	0 00'00"	3 000	1 722	0 000	1 1	0 000	B P
547	E170-2	90 00'00"D	0 00'00"	1 180	1 180	1 180	0 00'00"	15 000	1 722	0 000	1 1	0 000	
548	E170-3	270 00'00"D	0 00'00"	1 810	1 810	1 810	0 00'00"	2 000	1 722	0 000	1 1	0 000	CERCA
549	E170-4	270 00'00"D	0 00'00"	1 872	1 872	1 872	0 00'00"	15 000	1 722	0 000	1 1	0 000	
550	E171-E172	180.00'00"D	0.00'00"	1.343	1.343	1.343	0.00'00"	20.000	1.221	0.000	0 1	25.172	ESTACAO
551	E172-E173	180.00'00"D	0.00'00"	1.500	1.500	1.500	0.00'00"	20.000	1 221	0.000	0 1	25.015	ESTACAO
552	E172-1	90 00'00"D	0 00'00"	0 860	0 860	0 860	0 00'00"	4 800	1 622	0 000	1 1	0 000	B P
553	E172-2	90 00'00"D	0 00'00"	0 860	0 860	0 860	0 00'00"	15 000	1 622	0 000	1 1	0 000	
554	E172-3	270 00'00"D	0 00'00"	1 682	1 682	1 682	0 00'00"	2 000	1 622	0 000	1 1	0 000	CERCA
555	E172-4	270 00'00"D	0 00'00"	1 626	1 626	1 626	0 00'00"	15 000	1 622	0 000	1 1	0 000	CERCA
556	E173-E174	180 00'00"D	0.00'00"	1.478	1.478	1.478	0.00'00"	20.000	1.221	0.000	0 1	25.037	ESTACAO
557	E174-E175	180 00'00"D	0 00'00"	1.300	1 300	1.300	0 00'00"	20 000	1.221	0.000	0 1	25 215	ESTACAO
558	E174-1	90 00'00"D	0 00'00"	0 687	0 687	0 687	0 00'00"	6 000	1 682	0 000	1 1	0 000	B P
559	E174-2	90 00'00"D	0 00'00"	0 900	0 900	0 900	0 00'00"	15 000	1 682	0 000	1 1	0 000	
560	E174-3	270 00'00"D	0 00'00"	1 800	1 800	1 800	0 00'00"	2 500	1 682	0 000	1 1	0 000	CERCA
561	E174-4	270 00'00"D	0 00'00"	1 816	1 816	1 816	0 00'00"	15 000	1 682	0 000	1 1	0 000	
562	E175-E176	180 00'00"D	0.00'00"	1.455	1 455	1 455	0.00'00"	20.000	1 221	0 000	0 1	25.060	ESTACAO
563	E176-E177	180 00'00"D	0.00'00"	1 705	1.705	1 705	0.00'00"	20.000	1 221	0 000	0 1	24.810	ESTACAO
564	E176-1	90 00'00"D	0 00'00"	1 094	1 094	1 094	0 00'00"	0 400	1 810	0 000	1 1	0 000	B P
565	E176-2	90 00'00"D	0 00'00"	1 063	1 063	1 063	0 00'00"	15 000	1 810	0 000	1 1	0 000	
566	E176-3	270 00'00"D	0 00'00"	1 894	1 894	1 894	0 00'00"	3 000	1 810	0 000	1 1	0 000	CERCA
567	E176-4	270 00'00"D	0 00'00"	2 066	2 066	2 066	0 00'00"	15 000	1 810	0 000	1 1	0 000	
568	E177-E178	180 00'00"D	0 00'00"	1 975	1.975	1.975	0 00'00"	20.000	1 221	0.000	0 1	24.540	ESTACAO
569	E178-E179	180 00'00"D	0 00'00"	2.050	2.050	2.050	0 00'00"	20 000	1 221	0 000	0 1	24 465	ESTACAO
570	E178-1	90 00'00"D	0 00'00"	0 810	0 810	0 810	0 00'00"	6 900	1 496	0 000	1 1	0 000	
571	E178-2	90 00'00"D	0 00'00"	0 866	0 866	0 866	0 00'00"	15 000	1 496	0 000	1 1	0 000	
572	E178-3	270 00'00"D	0 00'00"	1 611	1 611	1 611	0 00'00"	3 000	1 496	0 000	1 1	0 000	
573	E178-4	270 00'00"D	0 00'00"	1 866	1 866	1 866	0 00'00"	15 000	1 496	0 000	1 1	0 000	
574	E179-E180	180 00'00"D	0 00'00"	1 155	1.155	1.155	0 00'00"	20 000	1 062	0.000	0 1	24 372	ESTACAO
575	E180-E181	180 00'00"D	0.00'00"	1.225	1 225	1 225	0 00'00"	20 000	1 062	0 000	0 1	24 302	ESTACAO
576	E180-1	90 00'00"D	0 00'00"	1 000	1 000	1 000	0 00'00"	7 000	1 626	0 000	1 1	0 000	
577	E180-2	90 00'00"D	0 00'00"	0 996	0 996	0 996	0 00'00"	15 000	1 626	0 000	1 1	0 000	
578	E180-3	270 00'00"D	0 00'00"	1 894	1 894	1 894	0 00'00"	3 000	1 626	0 000	1 1	0 000	
579	E180-4	270 00'00"D	0 00'00"	1 996	1 996	1 996	0 00'00"	15 000	1 626	0 000	1 1	0 000	
580	E181-E182	180 00'00"D	0.00'00"	1.133	1 133	1 133	0.00'00"	20.000	1.062	0 000	0 1	24.394	ESTACAO
581	E182-E183	183 28'40"D	0 00'00"	1 293	1.293	1.293	0 00'00"	20 000	1.062	0.000	0 1	24 234	ESTACAO
582	E182-1	90 00'00"D	0 00'00"	1 106	1 106	1 106	0 00'00"	7 000	1 626	0 000	1 1	0 000	B P
583	E182-2	90 00'00"D	0 00'00"	1 100	1 100	1 100	0 00'00"	15 000	1 626	0 000	1 1	0 000	
584	E182-3	270 00'00"D	0 00'00"	1 640	1 640	1 640	0 00'00"	2 500	1 626	0 000	1 1	0 000	CERCA
585	E182-4	270 00'00"D	0 00'00"	1 686	1 686	1 686	0 00'00"	15 000	1 626	0 000	1 1	0 000	

**Relatório dos dados da caderneta de campo**

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH	Proprietário							Data 26/08/97					
IN	ALINH	ANGULO	RESIDUO	E S T A D I A			ANGULO	DISTANCIA	ALT	DIFER	COD	COD	COTA	DESCRICO	
DICE	EST	P V	HORIZONTAL	ANGULAR	SUP	MED	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO	APA	DIRETA	DO PONTO
586	E183-E184	180	00'00"D	0.00'00"	1.405	1.405	1.405	0 00'00"	20.000	1.062	0 000	0	1	24.122	ESTACAO
587	E184-E185	180	00'00"D	0 00'00"	1.712	1.712	1.712	0.00'00"	20.000	1.062	0 000	0	1	23.815	ESTACAO
588	E184-1	90	00'00"D	0 00'00"	1.112	1.112	1.112	0 00'00"	7.900	1.620	0 000	1	1	0 000	
589	E184-2	90	00'00"D	0 00'00"	1.094	1.094	1.094	0 00'00"	15.000	1.620	0 000	1	1	0 000	
590	E184-3	270	00'00"D	0 00'00"	1.680	1.680	1.680	0 00'00"	1.500	1.620	0 000	1	1	0 000	CBRCA
591	E184-4	270	00'00"D	0 00'00"	1.574	1.574	1.574	0 00'00"	15.000	1.620	0 000	1	1	0 000	
592	E185-E186	180	00'00"D	0.00'00"	1.872	1.872	1.872	0.00'00"	20.000	1.062	0 000	0	1	23.655	ESTACAO
593	E186-E187	180	00'00"D	0.00'00"	2.320	2.320	2.320	0.00'00"	20.000	1.062	0.000	0	1	23.207	ESTACAO
594	E186-1	90	00'00"D	0 00'00"	1.000	1.000	1.000	0 00'00"	8.700	1.600	0 000	1	1	0 000	B P
595	E186-2	90	00'00"D	0 00'00"	1.000	1.000	1.000	0 00'00"	15.000	1.600	0 000	1	1	0 000	
596	E186-3	270	00'00"D	0 00'00"	1.680	1.680	1.680	0 00'00"	2.000	1.600	0 000	1	1	0 000	
597	E186-4	270	00'00"D	0 00'00"	1.593	1.593	1.593	0 00'00"	15.000	1.600	0 000	1	1	0 000	
598	E187-E188	180	00'00"D	0.00'00"	2.695	2.695	2.695	0.00'00"	20.000	1.062	0 000	0	1	22.832	ESTACAO
599	E188-E189	180	00'00"D	0.00'00"	2.863	2.863	2.863	0.00'00"	20.000	1.062	0.000	0	1	22.664	ESTACAO
600	E188-1	90	00'00"D	0 00'00"	0.986	0.986	0.986	0 00'00"	8.500	1.686	0 000	1	1	0 000	B P
601	E188-2	90	00'00"D	0 00'00"	0.917	0.917	0.917	0 00'00"	15.000	1.686	0 000	1	1	0 000	
602	E188-3	270	00'00"D	0 00'00"	1.700	1.700	1.700	0 00'00"	2.000	1.686	0 000	1	1	0 000	
603	E188-4	270	00'00"D	0 00'00"	1.621	1.621	1.621	0 00'00"	15.000	1.686	0 000	1	1	0 000	
604	E189-E190	180	00'00"D	0.00'00"	2.970	2.970	2.970	0.00'00"	20.000	1.062	0.000	0	1	22.557	ESTACAO
605	E190-E191	181	08'30"D	0.00'00"	0.618	0.618	0.618	0 00'00"	20.000	0.223	0 000	0	1	22.162	ESTACAO
606	E190-1	90	00'00"D	0 00'00"	0.996	0.996	0.996	0 00'00"	8.200	1.713	0 000	1	1	0 000	B P
607	E190-2	90	00'00"D	0 00'00"	0.913	0.913	0.913	0 00'00"	15.000	1.713	0 000	1	1	0 000	
608	E190-3	270	00'00"D	0 00'00"	1.720	1.720	1.720	0 00'00"	2.000	1.713	0 000	1	1	0 000	CBRCA
609	E190-4	270	00'00"D	0 00'00"	1.680	1.680	1.680	0 00'00"	15.000	1.713	0 000	1	1	0 000	
610	E191-E192	180	00'00"D	0 00'00"	0.797	0.797	0.797	0.00'00"	20.000	0.223	0.000	0	1	21.983	ESTACAO
611	E192-E193	180	00'00"D	0 00'00"	1.202	1.202	1.202	0.00'00"	20.000	0.223	0.000	0	1	21.578	ESTACAO
612	E192-1	90	00'00"D	0 00'00"	0.722	0.722	0.722	0 00'00"	8.300	1.570	0 000	1	1	0 000	
613	E192-2	90	00'00"D	0 00'00"	0.786	0.786	0.786	0 00'00"	15.000	1.570	0 000	1	1	0 000	
614	E192-3	270	00'00"D	0 00'00"	1.422	1.422	1.422	0 00'00"	3.000	1.570	0 000	1	1	0 000	CBRCA
615	E192-4	270	00'00"D	0 00'00"	1.397	1.397	1.397	0 00'00"	15.000	1.570	0 000	1	1	0 000	
616	E193-E194	180	00'00"D	0.00'00"	1.335	1.335	1.335	0 00'00"	20.000	0.223	0 000	0	1	21.445	ESTACAO
617	E194-E195	180	00'00"D	0.00'00"	1.473	1.473	1.473	0 00'00"	20.000	0.223	0 000	0	1	21.307	ESTACAO
618	E194-1	90	00'00"D	0 00'00"	0.967	0.967	0.967	0 00'00"	8.300	1.633	0 000	1	1	0 000	
619	E194-2	90	00'00"D	0 00'00"	0.980	0.980	0.980	0 00'00"	15.000	1.633	0 000	1	1	0 000	
620	E194-3	270	00'00"D	0 00'00"	1.620	1.620	1.620	0 00'00"	3.000	1.633	0 000	1	1	0 000	CBRCA
621	E194-4	270	00'00"D	0 00'00"	1.518	1.518	1.518	0 00'00"	15.000	1.633	0 000	1	1	0 000	
622	E195-E196	180	00'00"D	0.00'00"	1.818	1.818	1.818	0.00'00"	20.000	0.223	0.000	0	1	20.962	ESTACAO
623	E196-E197	180	00'00"D	0 00'00"	1.923	1.923	1.923	0.00'00"	20.000	0.223	0.000	0	1	20.857	ESTACAO
624	E196-1	90	00'00"D	0 00'00"	0.500	0.500	0.500	0 00'00"	8.300	1.722	0 000	1	1	0 000	B P
625	E196-2	90	00'00"D	0 00'00"	0.496	0.496	0.496	0 00'00"	15.000	1.722	0 000	1	1	0 000	
626	E196-3	270	00'00"D	0 00'00"	1.711	1.711	1.711	0 00'00"	3.000	1.722	0 000	1	1	0 000	
627	E196-4	270	00'00"D	0 00'00"	1.686	1.686	1.686	0 00'00"	15.000	1.722	0 000	1	1	0 000	
628	E197-E198	180	00'00"D	0 00'00"	1.947	1.947	1.947	0 00'00"	20.000	0.223	0.000	0	1	20.833	ESTACAO
629	E198-E199	180	00'00"D	0.00'00"	2.325	2.325	2.325	0 00'00"	20.000	0.223	0 000	0	1	20.455	ESTACAO
630	E198-1	90	00'00"D	0 00'00"	0.618	0.618	0.618	0 00'00"	8.200	1.860	0 000	1	1	0 000	B P

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Relatório dos dados da caderneta de campo

ADUTORA DE CAPONGA

Local CASCAVEL - CE

SRH		Proprietario							Data 26/08/97				
IN	ALINH	ÂNGULO	RESIDUO	E S T A D I A			ÂNGULO	DISTANCIA	ALT	DIFER	COD COD	COTA	DESCRIÇÃO
BST	P V	HORIZONTAL	ANGULAR	SUP	MEQ	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO APA	DIRETA	DO PONTO
631	E198-2	90 00'00"D	0 00'00"	0 634	0 634	0 634	0 00'00"	15 000	1 860	0 000	1 1	0 000	
632	E198-3	270 00'00"D	0 00'00"	1 894	1 894	1 894	0 00'00"	2 500	1 860	0 000	1 1	0 000	CERCA
633	E198-4	270 00'00"D	0 00'00"	1 877	1 877	1 877	0 00'00"	15 000	1 860	0 000	1 1	0 000	
634	E199-E200	180 00'00"D	0.00'00"	1.802	1.802	1 802	0.00'00"	20.000	0.223	0.000	0 1	20.978	ESTACAO
635	E200-E201	180 00'00"D	0 00'00"	2.502	2.502	2.502	0 00'00"	20 000	2 713	0 000	0 1	21.189	ESTACAO
636	E200-1	90 00'00"D	0 00'00"	1 511	1 511	1 511	0 00'00"	4 000	1 560	0 000	1 1	0 000	P A
637	E200-2	90 00'00"D	0 00'00"	0 086	0 086	0 086	0 00'00"	8 300	1 560	0 000	1 1	0 000	B P
638	E200-3	90 00'00"D	0 00'00"	0 090	0 090	0 090	0 00'00"	15 000	1 560	0 000	1 1	0 000	
639	E200-4	270 00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	3 000	1 560	0 000	1 1	0 000	CERCA
640	E200-5	270 00'00"D	0 00'00"	1 497	1 497	1 497	0 00'00"	15 000	1 560	0 000	1 1	0 000	
641	E201-E202	180.00'00"D	0 00'00"	2 340	2.340	2.340	0 00'00"	20 000	2.713	0.000	0 1	21.351	ESTACAO
642	E202-E203	180 00'00"D	0 00'00"	2.225	2.225	2.225	0 00'00"	20 000	2.713	0.000	0 1	21.466	ESTACAO
643	E202-1	90 00'00"D	0 00'00"	1 519	1 519	1 519	0 00'00"	4 000	1 682	0 000	1 1	0 000	P A
644	E202-2	90 00'00"D	0 00'00"	0 316	0 316	0 316	0 00'00"	8 300	1 682	0 000	1 1	0 000	B P
645	E202-3	90 00'00"D	0 00'00"	0 324	0 324	0 324	0 00'00"	15 000	1 682	0 000	1 1	0 000	
646	E202-4	270 00'00"D	0 00'00"	1 670	1 670	1 670	0 00'00"	3 000	1 682	0 000	1 1	0 000	CERCA
647	E202-5	270 00'00"D	0 00'00"	1 517	1 517	1 517	0 00'00"	15 000	1 682	0 000	1 1	0 000	
648	E203-E204	180 00'00"D	0 00'00"	2 100	2.100	2 100	0 00'00"	20 000	2 713	0.000	0 1	21.591	ESTACAO
649	E204-E205	180 00'00"D	0 00'00"	1 969	1 969	1.969	0 00'00"	20 000	2.713	0.000	0 1	21.722	ESTACAO
650	E204-1	90 00'00"D	0 00'00"	1 700	1 700	1 700	0 00'00"	4 000	1 627	0 000	1 1	0 000	
651	E204-2	90 00'00"D	0 00'00"	0 611	0 611	0 611	0 00'00"	8 300	1 627	0 000	1 1	0 000	
652	E204-3	90 00'00"D	0 00'00"	0 624	0 624	0 624	0 00'00"	15 000	1 627	0 000	1 1	0 000	
653	E204-4	270 00'00"D	0 00'00"	1 680	1 680	1 680	0 00'00"	3 000	1 627	0 000	1 1	0 000	CERCA
654	E204-5	270 00'00"D	0 00'00"	1 599	1 599	1 599	0 00'00"	15 000	1 627	0 000	1 1	0 000	
655	E205-E206	180 00'00"D	0 00'00"	1 820	1 820	1.820	0 00'00"	20 000	1 627	0 000	0 1	21.529	ESTACAO
656	E206-E207	180 00'00"D	0.00'00"	2 368	2 368	2 368	0.00'00"	20.000	2 421	0 000	0 1	21 582	ESTACAO
657	E206-1	90 00'00"D	0 00'00"	1 622	1 622	1 622	0 00'00"	4 100	1 620	0 000	1 1	0 000	
658	E206-2	90 00'00"D	0 00'00"	0 618	0 618	0 618	0 00'00"	8 300	1 620	0 000	1 1	0 000	
659	E206-3	90 00'00"D	0 00'00"	0 620	0 620	0 620	0 00'00"	15 000	1 620	0 000	1 1	0 000	
660	E206-4	270 00'00"D	0 00'00"	1 650	1 650	1 650	0 00'00"	3 000	1 620	0 000	1 1	0 000	CERCA
661	E206-5	270 00'00"D	0 00'00"	1 621	1 621	1 621	0 00'00"	15 000	1 620	0 000	1 1	0 000	
662	E207-E208	180 00'00"D	0 00'00"	2 380	2 380	2 380	0.00'00"	20.000	2 421	0 000	0 1	21 570	ESTACAO
663	E208-E209	180 00'00"D	0 00'00"	2.222	2.222	2.222	0 00'00"	20 000	2.421	0.000	0 1	21.728	ESTACAO
664	E208-1	90 00'00"D	0 00'00"	1 517	1 517	1 517	0 00'00"	4 000	1 724	0 000	1 1	0 000	
665	E208-2	90 00'00"D	0 00'00"	0 819	0 819	0 819	0 00'00"	8 300	1 724	0 000	1 1	0 000	B P
666	E208-3	90 00'00"D	0 00'00"	0 866	0 866	0 866	0 00'00"	15 000	1 724	0 000	1 1	0 000	
667	E208-4	270 00'00"D	0 00'00"	1 780	1 780	1 780	0 00'00"	3 000	1 724	0 000	1 1	0 000	
668	E208-5	270 00'00"D	0 00'00"	2 266	2 266	2 266	0 00'00"	15 000	1 724	0 000	1 1	0 000	
669	E209-E210	180 00'00"D	0.00'00"	2.000	2.000	2.000	0 00'00"	20 000	2.421	0.000	0 1	21.950	ESTACAO
670	E210-E211	180.00'00"D	0.00'00"	1.859	1 859	1 859	0.00'00"	20.000	2 421	0.000	0 1	22.091	ESTACAO
671	E210-1	90 00'00"D	0 00'00"	1 716	1 716	1 716	0 00'00"	3 900	1 813	0 000	1 1	0 000	P A
672	E210-2	90 00'00"D	0 00'00"	0 911	0 911	0 911	0 00'00"	8 300	1 813	0 000	1 1	0 000	B P
673	E210-3	90 00'00"D	0 00'00"	0 922	0 922	0 922	0 00'00"	15 000	1 813	0 000	1 1	0 000	
674	E210-4	270 00'00"D	0 00'00"	1 887	1 887	1 887	0 00'00"	3 000	1 813	0 000	1 1	0 000	CERCA
675	E210-5	270 00'00"D	0 00'00"	2 267	2 267	2 267	0 00'00"	15 000	1 813	0 000	1 1	0 000	

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Relatório dos dados da caderneta de campo

Imovel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH		Proprietário							Data 26/08/97					
IN	ALINH	ÂNGULO		RESIDUO	E S T A D I A			ÂNGULO	DISTANCIA	ALT	DIPER	COD	COD	COTA	DESCRIÇÃO	
DICE	EST	P	V	HORIZONTAL	ANGULAR	SUP	MED	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO	APA	DIRETA	DO PONTO
676	E211-E212	180	00'00"D	0.00'00"	1.571	1.571	1	571	0 00'00"	20.000	2 421	0 000	0	1	22.379	ESTACAO
677	E212-E213	180	00'00"D	0.00'00"	1.194	1 194	1	194	0.00'00"	20.000	2 421	0 000	0	1	22 756	ESTACAO
678	E212-1	90	00'00"D	0 00'00"	1 684	1 684	1	684	0 00'00"	3 600	1 810	0 000	1	1	0 000	
679	E212-2	90	00'00"D	0 00'00"	0 933	0 933	0	933	0 00'00"	7 900	1 810	0 000	1	1	0 000	
680	E212-3	90	00'00"D	0 00'00"	0 954	0 954	0	954	0 00'00"	15 000	1 810	0 000	1	1	0 000	
681	E212-4	270	00'00"D	0 00'00"	1 916	1 916	1	916	0 00'00"	3 000	1 810	0 000	1	1	0 000	
682	E212-5	270	00'00"D	0 00'00"	2 268	2 268	2	268	0 00'00"	15 000	1 810	0 000	1	1	0 000	
683	E213-E214	180	00'00"D	0 00'00"	0.820	0.820	0	820	0 00'00"	20 000	2.421	0.000	0	1	23.130	ESTACAO
684	E214-E215	180	00'00"D	0.00'00"	0.771	0.771	0	771	0.00'00"	20.000	2.421	0.000	0	1	23.179	ESTACAO
685	E214-1	90	00'00"D	0 00'00"	1 710	1 710	1	710	0 00'00"	3 000	1 680	0 000	1	1	0 000	
686	E214-2	90	00'00"D	0 00'00"	0 886	0 886	0	886	0 00'00"	7 300	1 680	0 000	1	1	0 000	B P
687	E214-3	90	00'00"D	0 00'00"	0 817	0 817	0	817	0 00'00"	15 000	1 680	0 000	1	1	0 000	
688	E214-4	270	00'00"D	0 00'00"	1 800	1 800	1	800	0 00'00"	3 600	1 680	0 000	1	1	0 000	CERCA
689	E214-5	270	00'00"D	0 00'00"	1 937	1 937	1	937	0 00'00"	15 000	1 680	0 000	1	1	0 000	
690	E215-E216	180	00'00"D	0.00'00"	2.711	2 711	2	711	0.00'00"	20.000	2 738	0 000	0	1	23.206	ESTACAO
691	E216-E217	180	00'00"D	0 00'00"	2 515	2.515	2	515	0 00'00"	20 000	2.738	0 000	0	1	23 402	ESTACAO
692	E216-1	90	00'00"D	0 00'00"	1 050	1 050	1	050	0 00'00"	6 800	1 510	0 000	1	1	0 000	
693	E216-2	90	00'00"D	0 00'00"	0 986	0 986	0	986	0 00'00"	15 000	1 510	0 000	1	1	0 000	
694	E216-3	270	00'00"D	0 00'00"	1 622	1 622	1	622	0 00'00"	3 000	1 510	0 000	1	1	0 000	
695	E216-4	270	00'00"D	0 00'00"	1 700	1 700	1	700	0 00'00"	15 000	1 510	0 000	1	1	0 000	
696	E217-E218	180	00'00"D	0.00'00"	2.317	2.317	2	317	0 00'00"	20 000	2 738	0.000	0	1	23.600	ESTACAO
697	E218-E219	180	00'00"D	0.00'00"	2.405	2 405	2	405	0.00'00"	20 000	2 738	0 000	0	1	23 512	ESTACAO
698	E218-1	90	00'00"D	0 00'00"	0 640	0 640	0	640	0 00'00"	5 800	1 620	0 000	1	1	0 000	B P
699	E218-2	90	00'00"D	0 00'00"	0 628	0 628	0	628	0 00'00"	15 000	1 620	0 000	1	1	0 000	
700	E218-3	270	00'00"D	0 00'00"	1 686	1 686	1	686	0 00'00"	5 000	1 620	0 000	1	1	0 000	
701	E218-4	270	00'00"D	0 00'00"	1 722	1 722	1	722	0 00'00"	15 000	1 620	0 000	1	1	0 000	
702	E219-E220	181	28'15"D	0 00'00"	2 238	2 238	2	238	0 00'00"	20 000	2.738	0 000	0	1	23.679	ESTACAO
703	E220-E221	180	00'00"D	0.00'00"	2.189	2.189	2	189	0.00'00"	20.000	2 738	0.000	0	1	23.728	ESTACAO
704	E220-1	90	00'00"D	0 00'00"	0 566	0 566	0	566	0 00'00"	5 800	1 626	0 000	1	1	0 000	
705	E220-2	90	00'00"D	0 00'00"	0 514	0 514	0	514	0 00'00"	15 000	1 626	0 000	1	1	0 000	
706	E220-3	270	00'00"D	0 00'00"	1 718	1 718	1	718	0 00'00"	5 000	1 626	0 000	1	1	0 000	
707	E220-4	270	00'00"D	0 00'00"	1 966	1 966	1	966	0 00'00"	15 000	1 626	0 000	1	1	0 000	
708	E221-E222	180	00'00"D	0 00'00"	2 095	2.095	2	095	0 00'00"	20 000	2.738	0.000	0	1	23 822	ESTACAO
709	E222-E223	180	00'00"D	0.00'00"	2.220	2.220	2	220	0.00'00"	20.000	2 188	0.000	0	1	23.790	ESTACAO
710	E222-1	90	00'00"D	0 00'00"	0 450	0 450	0	450	0 00'00"	5 800	1 560	0 000	1	1	0 000	
711	E222-2	90	00'00"D	0 00'00"	0 434	0 434	0	434	0 00'00"	15 000	1 560	0 000	1	1	0 000	
712	E222-3	270	00'00"D	0 00'00"	1 611	1 611	1	611	0 00'00"	5 000	1 560	0 000	1	1	0 000	
713	E222-4	270	00'00"D	0 00'00"	1 800	1 800	1	800	0 00'00"	15 000	1 560	0 000	1	1	0 000	
714	E223-E224	180	00'00"D	0 00'00"	2 395	2 395	2	395	0 00'00"	20 000	2.188	0 000	0	1	23 615	ESTACAO
715	E224-E225	180	00'00"D	0.00'00"	2.543	2.543	2	543	0.00'00"	20.000	2.188	0.000	0	1	23.467	ESTACAO
716	E224-1	90	00'00"D	0 00'00"	0 466	0 466	0	466	0 00'00"	5 800	1 686	0 000	1	1	0 000	B P
717	E224-2	90	00'00"D	0 00'00"	0 430	0 430	0	430	0 00'00"	15 000	1 686	0 000	1	1	0 000	
718	E224-3	270	00'00"D	0 00'00"	1 894	1 894	1	894	0 00'00"	5 000	1 686	0 000	1	1	0 000	
719	E224-4	270	00'00"D	0 00'00"	2 216	2 216	2	216	0 00'00"	15 000	1 686	0 000	1	1	0 000	
720	E225-E226	180	00'00"D	0 00'00"	2 748	2 748	2	748	0 00'00"	20.000	2 188	0 000	0	1	23 262	ESTACAO



Relatório dos dados da caderneta de campo

ADUTORA DE CAPONGA

Local CASCAVEL - CB

SRH

Proprietário

Data 26/08/97

IN	ALINH		ÂNGULO HORIZONTAL	RESIDUO ANGULAR	B S T A D I A			ÂNGULO VERTICAL	DISTÂNCIA INFORMADA	ALT APA	DIPER NIVEL	COD COD		COTA DIRETA	DESCRIÇÃO DO PONTO
	EST	P V			SUP	MED	INF					PTO	APA		
721	E226-E227	180	00'00"D	0.00'00"	2.620	2.620	2.620	0.00'00"	20.000	2.188	0.000	0	1	23.390	ESTACAO
722	E226-1	90	00'00"D	0 00'00"	0 410	0 410	0 410	0 00'00"	5 800	1 887	0 000	1	1	0 000	B PISTA
723	E226-2	90	00'00"D	0 00'00"	0 430	0 430	0 430	0 00'00"	15 000	1 887	0 000	1	1	0 000	
724	E226-3	270	00'00"D	0 00'00"	1 895	1 895	1 895	0 00'00"	0 400	1 887	0 000	1	1	0 000	CERCA
725	E226-4	270	00'00"D	0 00'00"	3 860	3 860	3 860	0 00'00"	5 000	1 887	0 000	1	1	0 000	
726	E226-5	270	00'00"D	0 00'00"	3 967	3 967	3 967	0 00'00"	15 000	1 887	0 000	1	1	0 000	
727	E227-E228	180	00'00"D	0.00'00"	2.580	2.580	2.580	0.00'00"	20.000	2.188	0.000	0	1	23.430	ESTACAO
728	E228-E229	180	00'00"D	0.00'00"	2.555	2.555	2.555	0.00'00"	20.000	2.188	0.000	0	1	23.455	ESTACAO
729	E228-1	90	00'00"D	0 00'00"	0 690	0 690	0 690	0 00'00"	5 800	1 712	0 000	1	1	0 000	
730	E228-2	90	00'00"D	0 00'00"	0 712	0 712	0 712	0 00'00"	15 000	1 712	0 000	1	1	0 000	
731	E228-3	270	00'00"D	0 00'00"	1 860	1 860	1 860	0 00'00"	0 800	1 712	0 000	1	1	0 000	CERCA
732	E228-4	270	00'00"D	0 00'00"	3 320	3 320	3 320	0 00'00"	5 000	1 712	0 000	1	1	0 000	
733	E228-5	270	00'00"D	0 00'00"	3 980	3 980	3 980	0 00'00"	15 000	1 712	0 000	1	1	0 000	
734	E229-E230	180	00'00"D	0.00'00"	1.880	1.880	1.880	0.00'00"	20.000	1.925	0.000	0	1	23.500	ESTACAO
735	E230-E231	180	00'00"D	0.00'00"	1.815	1.815	1.815	0.00'00"	20.000	1.925	0.000	0	1	23.565	ESTACAO
736	E230-1	90	00'00"D	0 00'00"	0 792	0 792	0 792	0 00'00"	5 800	1 800	0 000	1	1	0 000	B P
737	E230-2	90	00'00"D	0 00'00"	0 806	0 806	0 806	0 00'00"	15 000	1 800	0 000	1	1	0 000	
738	E230-3	270	00'00"D	0 00'00"	1 910	1 910	1 910	0 00'00"	1 000	1 800	0 000	1	1	0 000	
739	E230-4	270	00'00"D	0 00'00"	3 860	3 860	3 860	0 00'00"	15 000	1 800	0 000	1	1	0 000	
740	E231-E232	180	00'00"D	0.00'00"	1.795	1.795	1.795	0.00'00"	20.000	1.925	0.000	0	1	23.585	ESTACAO
741	E232-E233	180	00'00"D	0.00'00"	1.604	1.604	1.604	0.00'00"	20.000	1.925	0.000	0	1	23.776	ESTACAO
742	E232-1	90	00'00"D	0 00'00"	0 590	0 590	0 590	0 00'00"	5 800	1 686	0 000	1	1	0 000	
743	E232-2	90	00'00"D	0 00'00"	0 612	0 612	0 612	0 00'00"	15 000	1 686	0 000	1	1	0 000	
744	E232-3	270	00'00"D	0 00'00"	1 710	1 710	1 710	0 00'00"	1 000	1 686	0 000	1	1	0 000	CERCA
745	E232-4	270	00'00"D	0 00'00"	3 990	3 990	3 990	0 00'00"	15 000	1 686	0 000	1	1	0 000	
746	E233-E234	180	00'00"D	0.00'00"	1.277	1.277	1.277	0.00'00"	20.000	1.925	0.000	0	1	24.103	ESTACAO
747	E234-E235	180	00'00"D	0.00'00"	1.455	1.455	1.455	0.00'00"	20.000	1.925	0.000	0	1	23.925	ESTACAO
748	E234-1	90	00'00"D	0 00'00"	0 998	0 998	0 998	0 00'00"	5 800	1 592	0 000	1	1	0 000	
749	E234-2	90	00'00"D	0 00'00"	0 960	0 960	0 960	0 00'00"	15 000	1 592	0 000	1	1	0 000	
750	E234-3	270	00'00"D	0 00'00"	1 611	1 611	1 611	0 00'00"	3 000	1 592	0 000	1	1	0 000	CASA
751	E235-E236	180	00'00"D	0.00'00"	1.507	1.507	1.507	0.00'00"	20.000	1.925	0.000	0	1	23.873	ESTACAO
752	E236-E237	180	00'00"D	0.00'00"	1.626	1.626	1.626	0.00'00"	20.000	1.925	0.000	0	1	23.754	ESTACAO
753	E236-1	90	00'00"D	0 00'00"	0 816	0 816	0 816	0 00'00"	5 800	1 510	0 000	1	1	0 000	B P
754	E236-2	90	00'00"D	0 00'00"	0 864	0 864	0 864	0 00'00"	15 000	1 510	0 000	1	1	0 000	
755	E236-3	270	00'00"D	0 00'00"	1 538	1 538	1 538	0 00'00"	5 000	1 510	0 000	1	1	0 000	CASAS
756	E237-E238	180	00'00"D	0.00'00"	1.725	1.725	1.725	0.00'00"	20.000	1.925	0.000	0	1	23.655	ESTACAO
757	E238-E239	180	00'00"D	0.00'00"	2.070	2.070	2.070	0.00'00"	20.000	1.925	0.000	0	1	23.310	ESTACAO
758	E238-1	90	00'00"D	0 00'00"	0 610	0 610	0 610	0 00'00"	5 800	1 620	0 000	1	1	0 000	B P
759	E238-2	90	00'00"D	0 00'00"	0 660	0 660	0 660	0 00'00"	15 000	1 620	0 000	1	1	0 000	
760	E238-3	270	00'00"D	0 00'00"	1 620	1 620	1 620	0 00'00"	5 000	1 620	0 000	1	1	0 000	
761	E238-4	270	00'00"D	0 00'00"	1 660	1 660	1 660	0 00'00"	10 000	1 620	0 000	1	1	0 000	CASA
762	E239-E240	180	00'00"D	0.00'00"	2.250	2.250	2.250	0.00'00"	20.000	1.925	0.000	0	1	23.130	ESTACAO
763	E240-E241	180	00'00"D	0.00'00"	2.040	2.040	2.040	0.00'00"	20.000	1.925	0.000	0	1	23.340	ESTACAO
764	E240-1	90	00'00"D	0 00'00"	0 294	0 294	0 294	0 00'00"	5 800	1 680	0 000	1	1	0 000	
765	E240-2	90	00'00"D	0 00'00"	0 313	0 313	0 313	0 00'00"	15 000	1 680	0 000	1	1	0 000	

Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado	SRH	Proprietário							Data 26/08/97				
IN	ALINH	ÂNGULO	RESIDUO	E S T A D I A			ÂNGULO	DISTÂNCIA	ALT	DIPER	COD COD	COTA	DESCRIÇÃO
EST	P V	HORIZONTAL	ANGULAR	SUP	MED	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO APA	DIRETA	DO PONTO
766	E240-3	270 00'00"D	0 00'00"	3 000	3 000	3 000	0 00'00"	5 000	1 680	0 000	1 1	0 000	
767	E240-4	270 00'00"D	0 00'00"	3 986	3 986	3 986	0 00'00"	15 000	1 680	0 000	1 1	0 000	
768	E241-E242	180 00'00"D	0.00'00"	1.181	1.181	1 181	0 00'00"	20.000	1 262	0.000	0 1	23.421	ESTACAO
769	E242-E243	180.00'00"D	0.00'00"	1.540	1.540	1 540	0 00'00"	20.000	1 262	0.000	0 1	23.062	ESTACAO
770	E242-1	90 00'00"D	0 00'00"	0 720	0 720	0 720	0 00'00"	5 800	1 660	0 000	1 1	0 000	B P
771	E242-2	90 00'00"D	0 00'00"	0 777	0 777	0 777	0 00'00"	15 000	1 660	0 000	1 1	0 000	
772	E242-3	270 00'00"D	0 00'00"	3 260	3 260	3 260	0 00'00"	5 000	1 660	0 000	1 1	0 000	
773	E242-4	270 00'00"D	0 00'00"	3 260	3 260	3 260	0 00'00"	15 000	1 660	0 000	1 1	0 000	
774	E243-E244	180.00'00"D	0.00'00"	1.048	1.048	1.048	0.00'00"	20.000	1.262	0.000	0 1	23.554	ESTACAO
775	E244-E245	180 00'00"D	0.00'00"	1.595	1 595	1.595	0.00'00"	20.000	1 262	0 000	0 1	23.007	ESTACAO
776	E244-1	90 00'00"D	0 00'00"	1 007	1 007	1 007	0 00'00"	5 800	1 626	0 000	1 1	0 000	B P
777	E244-2	90 00'00"D	0 00'00"	0 996	0 996	0 996	0 00'00"	15 000	1 626	0 000	1 1	0 000	
778	E244-3	270 00'00"D	0 00'00"	1 813	1 813	1 813	0 00'00"	5 000	1 626	0 000	1 1	0 000	
779	E244-4	270 00'00"D	0 00'00"	2 060	2 060	2 060	0 00'00"	15 000	1 626	0 000	1 1	0 000	
780	E245-E246	180.00'00"D	0.00'00"	1.539	1.539	1.539	0.00'00"	20.000	1.262	0.000	0 1	23.063	ESTACAO
781	E246-E247	180.00'00"D	0.00'00"	1.465	1.465	1.465	0.00'00"	20.000	1.262	0.000	0 1	23.137	ESTACAO
782	E246-1	90 00'00"D	0 00'00"	1 006	1 006	1 006	0 00'00"	5 800	1 810	0 000	1 1	0 000	
783	E246-2	90 00'00"D	0 00'00"	1 000	1 000	1 000	0 00'00"	15 000	1 810	0 000	1 1	0 000	
784	E246-3	270 00'00"D	0 00'00"	1 986	1 986	1 986	0 00'00"	5 000	1 810	0 000	1 1	0 000	
785	E246-4	270 00'00"D	0 00'00"	2 260	2 260	2 260	0 00'00"	15 000	1 810	0 000	1 1	0 000	
786	E247-E248	180 00'00"D	0.00'00"	1 440	1.440	1 440	0 00'00"	20 000	1.262	0 000	0 1	23.162	ESTACAO
787	E248-E249	180.00'00"D	0.00'00"	1.557	1.557	1 557	0 00'00"	20 000	1.262	0.000	0 1	23.045	ESTACAO
788	E248-1	90 00'00"D	0 00'00"	0 966	0 966	0 966	0 00'00"	5 800	1 610	0 000	1 1	0 000	
789	E248-2	90 00'00"D	0 00'00"	0 930	0 930	0 930	0 00'00"	15 000	1 610	0 000	1 1	0 000	
790	E248-3	270 00'00"D	0 00'00"	3 000	3 000	3 000	0 00'00"	5 000	1 610	0 000	1 1	0 000	
791	E248-4	270 00'00"D	0 00'00"	3 986	3 986	3 986	0 00'00"	15 000	1 610	0 000	1 1	0 000	
792	E249-E250	180.00'00"D	0.00'00"	1.596	1.596	1.596	0.00'00"	20.000	1.262	0.000	0 1	23.006	ESTACAO
793	E250-E251	180 00'00"D	0.00'00"	1.109	1 109	1.109	0 00'00"	20.000	1 048	0.000	0 1	22.945	ESTACAO
794	E250-1	90 00'00"D	0 00'00"	0 819	0 819	0 819	0 00'00"	5 800	1 872	0 000	1 1	0 000	B P
795	E250-2	90 00'00"D	0 00'00"	0 861	0 861	0 861	0 00'00"	15 000	1 872	0 000	1 1	0 000	
796	E250-3	270 00'00"D	0 00'00"	3 210	3 210	3 210	0 00'00"	5 000	1 872	0 000	1 1	0 000	
797	E250-4	270 00'00"D	0 00'00"	3 791	3 791	3 791	0 00'00"	15 000	1 872	0 000	1 1	0 000	
798	E251-E252	180 00'00"D	0.00'00"	1.137	1 137	1.137	0 00'00"	20.000	1 048	0.000	0 1	22 917	ESTACAO
799	E252-E253	180 00'00"D	0 00'00"	1 147	1 147	1.147	0.00'00"	20.000	1 048	0 000	0 1	22 907	ESTACAO
800	E252-1	90 00'00"D	0 00'00"	0 810	0 810	0 810	0 00'00"	5 800	1 717	0 000	1 1	0 000	B P
801	E252-2	90 00'15"D	0 00'00"	0 794	0 794	0 794	0 00'00"	0 000	1 717	0 000	1 1	0 000	
802	E252-3	270 00'00"D	0 00'00"	2 980	2 980	2 980	0 00'00"	5 000	1 717	0 000	1 1	0 000	
803	E252-4	270 00'00"D	0 00'00"	3 680	3 680	3 680	0 00'00"	15 000	1 717	0 000	1 1	0 000	
804	E253-E254	180 00'00"D	0 00'00"	1.200	1 200	1.200	0.00'00"	20.000	1.048	0.000	0 1	22.854	ESTACAO
805	E254-E255	180 00'00"D	0 00'00"	1 345	1 345	1.345	0.00'00"	20.000	1 048	0.000	0 1	22 709	ESTACAO
806	E254-1	90 00'00"D	0 00'00"	0 628	0 628	0 628	0 00'00"	5 800	1 628	0 000	1 1	0 000	B P
807	E254-2	90 00'00"D	0 00'00"	0 711	0 711	0 711	0 00'00"	15 000	1 628	0 000	1 1	0 000	
808	E254-3	270 00'00"D	0 00'00"	1 820	1 820	1 820	0 00'00"	5 000	1 628	0 000	1 1	0 000	
809	E254-4	270 00'00"D	0 00'00"	1 860	1 860	1 860	0 00'00"	15 000	1 628	0 000	1 1	0 000	
810	E255-E256	180 00'00"D	0 00'00"	0.990	0 990	0.990	0.00'00"	20 000	1.048	0.000	0 1	23.064	ESTACAO

Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CB

Interessado		SRH		Proprietário							Data 26/08/97				
IN	ALINH	ANGULO		RESIDUO		E S T A D I A			ANGULO	DISTANCIA	ALT	DIFBR	COD COD	COTA	DESCRICA
DICE	BST P V	HORIZONTAL		ANGULAR		SUP	MED	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO APA	DIRETA	DO PONTO
811	E256-E257	180.00'00"D	0 00'00"	0.797	0.797	0.797	0.00'00"	20.000	1.048	0.000	0 1	23.257	ESTACAO		
812	E256-1	90 00'00"D	0 00'00"	0.996	0.996	0.996	0 00'00"	5.800	1.515	0.000	1 1	0.000	B P		
813	E256-2	90 00'00"D	0 00'00"	1.100	1.100	1.100	0 00'00"	15.000	1.515	0.000	1 1	0.000			
814	E256-3	270 00'00"D	0 00'00"	1.700	1.700	1.700	0 00'00"	5.000	1.515	0.000	1 1	0.000			
815	E256-4	270 00'00"D	0 00'00"	1.724	1.724	1.724	0 00'00"	15.000	1.515	0.000	1 1	0.000			
816	E257-E258	180.00'00"D	0.00'00"	1.585	1.585	1.585	0.00'00"	20.000	1.048	0.000	0 1	22.469	ESTACAO		
817	E258-E259	180.00'00"D	0.00'00"	1.625	1.625	1.625	0.00'00"	20.000	1.048	0.000	0 1	22.429	ESTACAO		
818	E258-1	90 00'00"D	0 00'00"	0.866	0.866	0.866	0 00'00"	5.800	1.570	0.000	1 1	0.000			
819	E258-2	90 00'00"D	0 00'00"	0.900	0.900	0.900	0 00'00"	15.000	1.570	0.000	1 1	0.000			
820	E258-3	270 00'00"D	0 00'00"	1.497	1.497	1.497	0 00'00"	5.000	1.570	0.000	1 1	0.000			
821	E258-4	270 00'00"D	0 00'00"	1.500	1.500	1.500	0 00'00"	15.000	1.570	0.000	1 1	0.000			
822	E259-E260	180.00'00"D	0 00'00"	1.748	1.748	1.748	0.00'00"	20.000	1.048	0.000	0 1	22.306	ESTACAO		
823	E260-E261	180.00'00"D	0.00'00"	1.900	1.900	1.900	0 00'00"	20.000	1.048	0.000	0 1	22.154	ESTACAO		
824	E260-1	90 00'00"D	0 00'00"	0.816	0.816	0.816	0 00'00"	5.800	1.710	0.000	1 1	0.000	B P		
825	E260-2	90 00'00"D	0 00'00"	0.917	0.917	0.917	0 00'00"	15.000	1.710	0.000	1 1	0.000			
826	E260-3	270 00'00"D	0 00'00"	1.620	1.620	1.620	0 00'00"	5.000	1.710	0.000	1 1	0.000			
827	E260-4	270 00'00"D	0 00'00"	1.515	1.515	1.515	0 00'00"	15.000	1.710	0.000	1 1	0.000			
828	E261-E262	180.00'00"D	0.00'00"	1.928	1.928	1.928	0.00'00"	20.000	1.048	0.000	0 1	22.126	ESTACAO		
829	E262-E263	180.00'00"D	0.00'00"	2.225	2.225	2.225	0.00'00"	20.000	1.048	0.000	0 1	21.829	ESTACAO		
830	E262-1	90 00'00"D	0 00'00"	0.612	0.612	0.612	0 00'00"	5.800	1.500	0.000	1 1	0.000			
831	E262-2	90 00'00"D	0 00'00"	0.624	0.624	0.624	0 00'00"	15.000	1.500	0.000	1 1	0.000			
832	E262-3	270 00'00"D	0 00'00"	1.506	1.506	1.506	0 00'00"	5.000	1.500	0.000	1 1	0.000			
833	E262-4	270 00'00"D	0 00'00"	1.466	1.466	1.466	0 00'00"	15.000	1.500	0.000	1 1	0.000			
834	E263-E264	180.00'00"D	0 00'00"	2.365	2.365	2.365	0.00'00"	20.000	1.048	0.000	0 1	21.689	ESTACAO		
835	E264-E265	180.00'00"D	0 00'00"	2.384	2.384	2.384	0 00'00"	20.000	1.048	0.000	0 1	21.670	ESTACAO		
836	E264-1	90 00'00"D	0 00'00"	0.711	0.711	0.711	0 00'00"	5.800	1.716	0.000	1 1	0.000	B P		
837	E264-2	90 00'00"D	0 00'00"	0.722	0.722	0.722	0 00'00"	15.000	1.716	0.000	1 1	0.000			
838	E264-3	270 00'00"D	0 00'00"	1.812	1.812	1.812	0 00'00"	5.000	1.716	0.000	1 1	0.000			
839	E264-4	270 00'00"D	0 00'00"	1.880	1.880	1.880	0 00'00"	15.000	1.716	0.000	1 1	0.000			
840	E265-E266	180.00'00"D	0.00'00"	1.715	1.715	1.715	0 00'00"	20.000	1.275	0.000	0 1	21.230	ESTACAO		
841	E266-E267	180.00'00"D	0 00'00"	2.033	2.033	2.033	0.00'00"	20.000	1.275	0.000	0 1	20.912	ESTACAO		
842	E266-1	90 00'00"D	0 00'00"	0.800	0.800	0.800	0 00'00"	5.800	1.810	0.000	1 1	0.000			
843	E266-2	90 00'00"D	0 00'00"	0.862	0.862	0.862	0 00'00"	15.000	1.810	0.000	1 1	0.000			
844	E266-3	270 00'00"D	0 00'00"	1.880	1.880	1.880	0 00'00"	0.300	1.810	0.000	1 1	0.000	CBRCA		
845	E266-4	270 00'00"D	0 00'00"	3.966	3.966	3.966	0 00'00"	15.000	1.810	0.000	1 1	0.000			
846	E267-E268	180.00'00"D	0.00'00"	2.154	2.154	2.154	0 00'00"	20.000	1.275	0.000	0 1	20.791	ESTACAO		
847	E268-E269	180.00'00"D	0.00'00"	2.240	2.240	2.240	0 00'00"	20.000	1.275	0.000	0 1	20.705	ESTACAO		
848	E268-1	90 00'00"D	0 00'00"	0.794	0.794	0.794	0 00'00"	5.800	1.820	0.000	1 1	0.000	B P		
849	E268-2	90 00'00"D	0 00'00"	0.816	0.816	0.816	0 00'00"	15.000	1.820	0.000	1 1	0.000			
850	E268-3	270 00'00"D	0 00'00"	1.880	1.880	1.880	0 00'00"	0.400	1.820	0.000	1 1	0.000	CBRCA		
851	E268-4	270 00'00"D	0 00'00"	3.916	3.916	3.916	0 00'00"	15.000	1.820	0.000	1 1	0.000			
852	E269-E270	180.00'00"D	0.00'00"	2.650	2.650	2.650	0 00'00"	20.000	1.275	0.000	0 1	20.295	ESTACAO		
853	E270-E271	180.00'00"D	0.00'00"	2.719	2.719	2.719	0.00'00"	20.000	1.275	0.000	0 1	20.226	ESTACAO		
854	E270-1	90 00'00"D	0 00'00"	0.216	0.216	0.216	0 00'00"	5.800	1.794	0.000	1 1	0.000	B P		
855	E270-2	90 00'00"D	0 00'00"	0.243	0.243	0.243	0 00'00"	15.000	1.794	0.000	1 1	0.000			

Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CARONGA

Local CASCAVEL - CE

Interessado SRF

Proprietário

Data 26/08/97

IN DICE	ALINH EST P V		ÂNGULO HORIZONTAL	RESIDUO ANGULAR	E S T A D I A SUP MBD INF			ÂNGULO VERTICAL	DISTÂNCIA INPOPADA	ALT APA	DIFER NIVEL	COD PTO	COD APA	COTA DIRETA	DESCRIÇÃO DO PONTO
	856	E270-3		270 00'00"D	0 00'00"	1 810	1 810	1 810	0 00'00"	0 400	1 794	0 000	1 1	1 1	0 000
857	E270-4		270 00'00"D	0 00'00"	3 396	3 396	3 396	0 00'00"	15 000	1 794	0 000	1 1	1 1	0 000	
858	E271-E272		180.00'00"D	0.00'00"	2.708	2.708	2.708	0.00'00"	20 000	1.275	0.000	0 2		20.237	ESTACAO
859	E272-E273		180 00'00"D	0 00'00"	1.775	1.775	1 775	0 00'00"	20.000	1.275	0.000	0 1		21.170	ESTACAO
860	E272-1		90 00'00"D	0 00'00"	0 311	0 311	0 311	0 00'00"	5 800	1 680	0 000	1 1	1 1	0 000	B P
861	E272-2		90 00'00"D	0 00'00"	0 360	0 360	0 360	0 00'00"	15 000	1 680	0 000	1 1	1 1	0 000	
862	E272-3		270 00'00"D	0 00'00"	1 700	1 700	1 700	0 00'00"	0 400	1 680	0 000	1 1	1 1	0 000	CERCA
863	E272-4		270 00'00"D	0 00'00"	3 866	3 866	3 866	0 00'00"	15 000	1 680	0 000	1 1	1 1	0 000	
864	E273-E274		180 00'00"D	0.00'00"	2.353	2.353	2.353	0.00'00"	20.000	1.275	0.000	0 1		20.592	ESTACAO
865	E274-E275		180.00'00"D	0.00'00"	2.565	2.565	2.565	0.00'00"	20.000	1.275	0.000	0 1		20.380	ESTACAO
866	E274-1		90 00'00"D	0 00'00"	0 712	0 712	0 712	0 00'00"	5 800	1 622	0 000	1 1	1 1	0 000	B P
867	E274-2		90 00'00"D	0 00'00"	0 722	0 722	0 722	0 00'00"	15 000	1 622	0 000	1 1	1 1	0 000	
868	E274-3		270 00'00"D	0 00'00"	1 610	1 610	1 610	0 00'00"	15 000	1 622	0 000	1 1	1 1	0 000	
869	E274-4		270 00'00"D	0 00'00"	1 516	1 516	1 516	0 00'00"	15 000	1 622	0 000	1 1	1 1	0 000	
870	E275-E276		180.00'00"D	0.00'00"	2.820	2.820	2.820	0.00'00"	20.000	1.275	0 000	0 1		20.125	ESTACAO
871	E276-E277		180 00'00"D	0 00'00"	1.131	1.131	1.131	0.00'00"	20.000	0.920	0.000	0 1		19.914	ESTACAO
872	E276-1		90 00'00"D	0 00'00"	0 367	0 367	0 367	0 00'00"	5 800	1 480	0 000	1 1	1 1	0 000	
873	E276-2		90 00'00"D	0 00'00"	0 400	0 400	0 400	0 00'00"	15 000	1 480	0 000	1 1	1 1	0 000	
874	E276-3		270 00'00"D	0 00'00"	1 460	1 460	1 460	0 00'00"	5 000	1 480	0 000	1 1	1 1	0 000	
875	E276-4		270 00'00"D	0 00'00"	1 494	1 494	1 494	0 00'00"	15 000	1 480	0 000	1 1	1 1	0 000	
876	E277-E278		180 00'00"D	0 00'00"	1.460	1.460	1.460	0 00'00"	20.000	0.920	0.000	0 1		19.585	ESTACAO
877	E278-E279		180 00'00"D	0.00'00"	1.607	1.607	1.607	0 00'00"	20 000	0 920	0 000	0 1		19 438	ESTACAO
878	E278-1		90 00'00"D	0 00'00"	0 610	0 610	0 610	0 00'00"	5 800	1 621	0 000	1 1	1 1	0 000	
879	E278-2		90 00'00"D	0 00'00"	0 622	0 622	0 622	0 00'00"	15 000	1 621	0 000	1 1	1 1	0 000	
880	E278-3		270 00'00"D	0 00'00"	1 618	1 618	1 618	0 00'00"	5 000	1 621	0 000	1 1	1 1	0 000	
881	E278-4		270 00'00"D	0 00'00"	1 711	1 711	1 711	0 00'00"	15 000	1 621	0 000	1 1	1 1	0 000	
882	E279-E280		180 00'00"D	0 00'00"	1.535	1.535	1.535	0 00'00"	20.000	0.920	0.000	0 1		19.510	ESTACAO
883	E280-E281		180 00'00"D	0.00'00"	1.868	1.868	1.868	0.00'00"	20 000	0.920	0 000	0 1		19 177	ESTACAO
884	E280-1		90 00'00"D	0 00'00"	0 510	0 510	0 510	0 00'00"	5 800	1 575	0 000	1 1	1 1	0 000	
885	E280-2		90 00'00"D	0 00'00"	0 516	0 516	0 516	0 00'00"	15 000	1 575	0 000	1 1	1 1	0 000	
886	E280-3		270 00'00"D	0 00'00"	1 611	1 611	1 611	0 00'00"	5 000	1 575	0 000	1 1	1 1	0 000	
887	E280-4		270 00'00"D	0 00'00"	1 716	1 716	1 716	0 00'00"	15 000	1 575	0 000	1 1	1 1	0 000	
888	E281-E282		180 00'00"D	0 00'00"	1.835	1.835	1.835	0 00'00"	20.000	0.920	0.000	0 1		19.210	ESTACAO
889	E282-E283		180 00'00"D	0.00'00"	1.596	1.596	1.596	0.00'00"	20 000	0.920	0 000	0 1		19.449	ESTACAO
890	E282-1		90 00'00"D	0 00'00"	0 621	0 621	0 621	0 00'00"	5 800	1 628	0 000	1 1	1 1	0 000	
891	E282-2		90 00'00"D	0 00'00"	0 700	0 700	0 700	0 00'00"	15 000	1 628	0 000	1 1	1 1	0 000	
892	E282-3		270 00'00"D	0 00'00"	1 611	1 611	1 611	0 00'00"	5 000	1 628	0 000	1 1	1 1	0 000	
893	E282-4		270 00'00"D	0 00'00"	1 772	1 772	1 772	0 00'00"	15 000	1 628	0 000	1 1	1 1	0 000	
894	E283-E284		180 00'00"D	0 00'00"	1.490	1.490	1.490	0 00'00"	20 000	0 920	0.000	0 1		19 555	ESTACAO
895	E284-E285		180.00'00"D	0.00'00"	1.291	1.291	1.291	0.00'00"	20.000	0.920	0 000	0 1		19.754	ESTACAO
896	E284-1		90 00'00"D	0 00'00"	0 552	0 552	0 552	0 00'00"	5 800	1 555	0 000	1 1	1 1	0 000	B P
897	E284-2		90 00'00"D	0 00'00"	0 539	0 539	0 539	0 00'00"	15 000	1 555	0 000	1 1	1 1	0 000	B P
898	E284-3		270 00'00"D	0 00'00"	1 537	1 537	1 537	0 00'00"	5 000	1 555	0 000	1 1	1 1	0 000	
899	E284-4		270 00'00"D	0 00'00"	1 566	1 566	1 566	0 00'00"	15 000	1 555	0 000	1 1	1 1	0 000	
900	E285-E286		180 00'00"D	0 00'00"	1.175	1.175	1.175	0.00'00"	20 000	0 920	0 000	0 1		19.870	ESTACAO

Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL CE

Interessado SRH Proprietario Data 26/08/97

LINHA	ALINH EST P V	ANGULO HORIZONTAL	RESIDUO			E S T A D I A			ANGULO VERTICAL	DISTANCIA INFORMADA	ALT APA	DIPER NIVEL	COD PTO	COD APA	COTA DIRETA	DESCRICA DO PONTO
			ANGULAR	SUP	MED	INP	SUP	MED								
901	E286-E287	180 00'00"D	0 00'00"	0 820	0 820	0 820	0 00'00"	20.000	0.920	0 000	0 1	20 225	ESTACAO			
902	E286-1	90 00'00"D	0 00'00"	0 490	0 490	0 490	0 00'00"	5 800	1 466	0 000	1 1	0 000	B P			
903	E286-2	90 00'00"D	0 00'00"	0 496	0 496	0 496	0 00'00"	15 000	1 466	0 000	1 1	0 000				
904	E286-3	270 00'00"D	0 00'00"	1 510	1 510	1 510	0 00'00"	5 000	1 466	0 000	1 1	0 000				
905	E286-4	270 00'00"D	0 00'00"	1 563	1 563	1 563	0 00'00"	15 000	1 466	0 000	1 1	0 000				
906	E287-E288	180 00'00"D	0.00'00"	2 005	2.005	2.005	0 00'00"	20.000	2.321	0.000	0 1	20.541	ESTACAO			
907	E288-E289	180 00'00"D	0.00'00"	1.788	1.788	1.788	0.00'00"	20.000	2.321	0 000	0 1	20 758	ESTACAO			
908	E288-1	90 00'00"D	0 00'00"	0 534	0 534	0 534	0 00'00"	5 800	1 513	0 000	1 1	0 000				
909	E288-2	90 00'00"D	0 00'00"	0 562	0 562	0 562	0 00'00"	15 000	1 513	0 000	1 1	0 000				
910	E288-3	270 00'00"D	0 00'00"	1 607	1 607	1 607	0 00'00"	5 000	1 513	0 000	1 1	0 000				
911	E288-4	270 00'00"D	0 00'00"	1 617	1 617	1 617	0 00'00"	15 000	1 513	0 000	1 1	0 000				
912	E289-E290	180 00'00"D	0.00'00"	2.020	2.020	2.020	0 00'00"	20.000	2.321	0.000	0 1	20.526	ESTACAO			
913	E290-E291	180.00'00"D	0.00'00"	1.905	1.905	1 905	0.00'00"	20.000	2.321	0.000	0 1	20.641	ESTACAO			
914	E290-1	90 00'00"D	0 00'00"	0 592	0 592	0 592	0 00'00"	5 800	1 600	0 000	1 1	0 000				
915	E290-2	90 00'00"D	0 00'00"	0 577	0 577	0 577	0 00'00"	15 000	1 600	0 000	1 1	0 000				
916	E290-3	270 00'00"D	0 00'00"	1 621	1 621	1 621	0 00'00"	5 000	1 600	0 000	1 1	0 000				
917	E290-4	270 00'00"D	0 00'00"	1 660	1 660	1 660	0 00'00"	15 000	1 600	0 000	1 1	0 000				
918	E291-E292	180 00'00"D	0 00'00"	1 894	1 894	1 894	0.00'00"	20 000	2 321	0.000	0 1	20.652	ESTACAO			
919	E292-E293	180 00'00"D	0 00'00"	1 755	1 755	1.755	0 00'00"	20 000	2 321	0.000	0 1	20.791	ESTACAO			
920	E292-1	90 00'00"D	0 00'00"	0 592	0 592	0 592	0 00'00"	5 800	1 613	0 000	1 1	0 000				
921	E292-2	90 00'00"D	0 00'00"	0 600	0 600	0 600	0 00'00"	15 000	1 613	0 000	1 1	0 000				
922	E292-3	270 00'00"D	0 00'00"	1 680	1 680	1 680	0 00'00"	5 000	1 613	0 000	1 1	0 000				
923	E292-4	270 00'00"D	0 00'00"	1 694	1 694	1 694	0 00'00"	15 000	1 613	0 000	1 1	0 000				
924	E293-E294	180 00'00"D	0.00'00"	1 582	1 582	1 582	0 00'00"	20.000	2.321	0 000	0 1	20 964	ESTACAO			
925	E294-E295	180 00'00"D	0.00'00"	1.535	1 535	1 535	0 00'00"	20 000	2.321	0.000	0 1	21 011	ESTACAO			
926	E294-1	90 00'00"D	0 00'00"	0 603	0 603	0 603	0 00'00"	5 800	1 627	0 000	1 1	0 000				
927	E294-2	90 00'00"D	0 00'00"	0 622	0 622	0 622	0 00'00"	15 000	1 627	0 000	1 1	0 000				
928	E294-3	270 00'00"D	0 00'00"	1 662	1 662	1 662	0 00'00"	5 000	1 627	0 000	1 1	0 000				
929	E294-4	270 00'00"D	0 00'00"	1 713	1 713	1 713	0 00'00"	15 000	1 627	0 000	1 1	0 000				
930	E295-E296	180 00'00"D	0 00'00"	1 383	1 383	1.383	0 00'00"	20 000	2.321	0.000	0 1	21 163	ESTACAO			
931	E296-E297	180.00'00"D	0.00'00"	1.341	1.341	1 341	0 00'00"	20.000	2.321	0 000	0 1	21 205	ESTACAO			
932	E296-1	90 00'00"D	0 00'00"	0 390	0 390	0 390	0 00'00"	5 800	1 444	0 000	1 1	0 000				
933	E296-2	90 00'00"D	0 00'00"	0 386	0 386	0 386	0 00'00"	15 000	1 444	0 000	1 1	0 000				
934	E296-3	270 00'00"D	0 00'00"	1 500	1 500	1 500	0 00'00"	5 000	1 444	0 000	1 1	0 000				
935	E296-4	270 00'00"D	0 00'00"	1 621	1 621	1 621	0 00'00"	15 000	1 444	0 000	1 1	0 000				
936	E297-E298	180.00'00"D	0 00'00"	1 258	1 258	1.258	0 00'00"	20 000	2 321	0.000	0 1	21.288	ESTACAO			
937	E298-E299	180 00'00"D	0.00'00"	1.203	1.203	1 203	0 00'00"	20.000	2.321	0 000	0 1	21.343	ESTACAO			
938	E298-1	90 00'00"D	0 00'00"	0 467	0 467	0 467	0 00'00"	5 800	1 510	0 000	1 1	0 000				
939	E298-2	90 00'00"D	0 00'00"	0 472	0 472	0 472	0 00'00"	15 000	1 510	0 000	1 1	0 000				
940	E298-3	270 00'00"D	0 00'00"	1 572	1 572	1 572	0 00'00"	5 000	1 510	0 000	1 1	0 000				
941	E298-4	270 00'00"D	0 00'00"	1 612	1 612	1 612	0 00'00"	15 000	1 510	0 000	1 1	0 000				
942	E299-E300	180 00'00"D	0.00'00"	1.837	1 837	1 837	0.00'00"	20.000	1.855	0.000	0 1	21.361	ESTACAO			
943	E300-E301	180.00'00"D	0 00'00"	1 765	1 765	1.765	0.00'00"	20 000	1 855	0.000	0 1	21.433	ESTACAO			
944	E300-1	90 00'00"D	0 00'00"	0 561	0 561	0 561	0 00'00"	5 800	1 584	0 000	1 1	0 000	B P			
945	E300-2	90 00'00"D	0 00'00"	0 560	0 560	0 560	0 00'00"	15 000	1 584	0 000	1 1	0 000				

Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH	Proprietário							Data 26/08/97				
IN DICE	ALINH EST P V	ÂNGULO HORIZONTAL	RESIDUO ANGULAR	E S T A D I A			ÂNGULO VERTICAL	DISTÂNCIA INFORMADA	ALT APA	DIPER NIVEL	COD PTO	COD APA	COTA DIRETA	DESCRIÇÃO DO PONTO
946	E300-3	270 00'00"D	0 00'00"	1 512	1 512	1 512	0 00'00"	5 000	1 584	0 000	1 1	0 000		
947	E300-4	270 00'00"D	0 00'00"	1 514	1 514	1 514	0 00'00"	15 000	1 584	0 000	1 1	0 000		
948	E301-E302	180.00'00"D	0.00'00"	1.527	1 527	1.527	0.00'00"	20 000	1 855	0 000	0 1	21 671	ESTACAO	
949	E302-E303	180.00'00"D	0.00'00"	1 831	1 831	1 831	0.00'00"	20 000	1 855	0 000	0 1	21 367	ESTACAO	
950	E302-1	90 00'00"D	0 00'00"	0 711	0 711	0 711	0 00'00"	5 800	1 594	0 000	1 1	0 000	B P	
951	E302-2	90 00'00"D	0 00'00"	0 723	0 723	0 723	0 00'00"	15 000	1 594	0 000	1 1	0 000		
952	E302-3	270 00'00"D	0 00'00"	1 519	1 519	1 519	0 00'00"	5 000	1 594	0 000	1 1	0 000		
953	E302-4	270 00'00"D	0 00'00"	1 496	1 496	1 496	0 00'00"	15 000	1 594	0 000	1 1	0 000		
954	E303-E304	180.00'00"D	0.00'00"	1.845	1.845	1.845	0.00'00"	20.000	1.855	0.000	0 1	21.353	ESTACAO	
955	E304-E305	180.00'00"D	0.00'00"	1.992	1.992	1.992	0 00'00"	20.000	1.855	0.000	0 1	21.206	ESTACAO	
956	E304-1	90 00'00"D	0 00'00"	0 712	0 712	0 712	0 00'00"	5 800	1 572	0 000	1 1	0 000		
957	E304-2	90 00'00"D	0 00'00"	0 722	0 722	0 722	0 00'00"	15 000	1 572	0 000	1 1	0 000		
958	E304-3	270 00'00"D	0 00'00"	1 518	1 518	1 518	0 00'00"	5 000	1 572	0 000	1 1	0 000		
959	E304-4	270 00'00"D	0 00'00"	1 563	1 563	1 563	0 00'00"	15 000	1 572	0 000	1 1	0 000		
960	E305-E306	180.00'00"D	0.00'00"	1.970	1 970	1.970	0.00'00"	20.000	1 855	0 000	0 1	21.228	ESTACAO	
961	E306-E307	180.00'00"D	0.00'00"	2 119	2.119	2.119	0.00'00"	20 000	1 855	0.000	0 1	21 079	ESTACAO	
962	E306-1	90 00'00"D	0 00'00"	0 712	0 712	0 712	0 00'00"	5 800	1 537	0 000	1 1	0 000		
963	E306-2	90 00'00"D	0 00'00"	0 694	0 694	0 694	0 00'00"	15 000	1 537	0 000	1 1	0 000		
964	E306-3	270 00'00"D	0 00'00"	1 500	1 500	1 500	0 00'00"	5 000	1 537	0 000	1 1	0 000		
965	E306-4	270 00'00"D	0 00'00"	1 467	1 467	1 467	0 00'00"	15 000	1 537	0 000	1 1	0 000		
966	E307-E308	180 00'00"D	0.00'00"	2 032	2.032	2.032	0 00'00"	20.000	1 855	0 000	0 1	21 166	ESTACAO	
967	E308-E309	180 00'00"D	0.00'00"	2 483	2 483	2 483	0 00'00"	20 000	1 855	0 000	0 1	20 715	ESTACAO	
968	E308-1	90 00'00"D	0 00'00"	1 013	1 013	1 013	0 00'00"	5 800	1 660	0 000	1 1	0 000	B P	
969	E308-2	90 00'00"D	0 00'00"	1 061	1 061	1 061	0 00'00"	15 000	1 660	0 000	1 1	0 000		
970	E308-3	270 00'00"D	0 00'00"	1 588	1 588	1 588	0 00'00"	5 000	1 660	0 000	1 1	0 000		
971	E308-4	270 00'00"D	0 00'00"	1 573	1 573	1 573	0 00'00"	15 000	1 660	0 000	1 1	0 000		
972	E309-E310	180 00'00"D	0.00'00"	2.650	2 650	2.650	0 00'00"	20.000	1.855	0 000	0 1	20 548	ESTACAO	
973	E310-E311	180 00'00"D	0.00'00"	2 973	2 973	2.973	0 00'00"	20.000	1 855	0 000	0 1	20 225	ESTACAO	
974	E310-1	90 00'00"D	0 00'00"	1 042	1 042	1 042	0 00'00"	5 800	1 594	0 000	1 1	0 000		
975	E310-2	90 00'00"D	0 00'00"	1 053	1 053	1 053	0 00'00"	15 000	1 594	0 000	1 1	0 000		
976	E310-3	270 00'00"D	0 00'00"	1 496	1 496	1 496	0 00'00"	5 000	1 594	0 000	1 1	0 000		
977	E310-4	270 00'00"D	0 00'00"	1 498	1 498	1 498	0 00'00"	15 000	1 594	0 000	1 1	0 000		
978	E311-E312	180 00'00"D	0.00'00"	3.367	3 367	3.367	0 00'00"	20.000	1 855	0 000	0 1	19.831	ESTACAO	
979	E312-E313	180.00'00"D	0.00'00"	2.690	2 690	2.690	0 00'00"	20 000	2 409	0 000	0 1	19 550	ESTACAO	
980	E312-1	90 00'00"D	0 00'00"	0 711	0 711	0 711	0 00'00"	5 800	1 622	0 000	1 1	0 000		
981	E312-2	90 00'00"D	0 00'00"	0 720	0 720	0 720	0 00'00"	15 000	1 622	0 000	1 1	0 000		
982	E312-3	270 00'00"D	0 00'00"	1 594	1 594	1 594	0 00'00"	5 000	1 622	0 000	1 1	0 000		
983	E312-4	270 00'00"D	0 00'00"	1 630	1 630	1 630	0 00'00"	15 000	1 622	0 000	1 1	0 000		
984	E313-E314	180 00'00"D	0.00'00"	3.032	3.032	3 032	0.00'00"	20.000	2.409	0.000	0 1	19.208	ESTACAO	
985	E314-E315	180 00'00"D	0.00'00"	3.125	3 125	3.125	0 00'00"	20 000	2.409	0 000	0 1	19 115	ESTACAO	
986	E314-1	90 00'00"D	0 00'00"	0 172	0 172	0 172	0 00'00"	5 800	2 163	0 000	1 1	0 000	B P	
987	E314-2	90 00'00"D	0 00'00"	0 166	0 166	0 166	0 00'00"	15 000	2 163	0 000	1 1	0 000		
988	E314-3	270 00'00"D	0 00'00"	2 063	2 063	2 063	0 00'00"	5 000	2 163	0 000	1 1	0 000		
989	E314-4	270 00'00"D	0 00'00"	2 084	2 084	2 084	0 00'00"	11 000	2 163	0 000	1 1	0 000	MURO	
990	E315-E316	180 00'00"D	0.00'00"	3.147	3.147	3 147	0 00'00"	20.000	2.409	0.000	0 1	19.093	ESTACAO	

Relatório dos dados da caderneta de campo

móvel ADUTORA DE CAPONGA

Local CASCABEL - CE

Interessado SRP Proprietário Data 26/08/97

IN	ALINH		ANGULO	RESIDUO	E S T A D I A			ANGULO	DISTANCIA	ALT	DIFER	COD COD		COTA	DBSCRIÇÃO
	EST	P V			HORIZONTAL	ANGULAR	SUP					MED	INF		
991	E316-E317	180	00'00"D	0 00'00"	2.843	2.843	2 843	0.00'00"	20 000	2.409	0.000	0 1	19.397	ESTACAO	
992	E316-1	90	00'00"D	0 00'00"	0 213	0 213	0 213	0 00'00"	5 800	2 194	0 000	1 1	0 000		
993	E316-2	90	00'00"D	0 00'00"	0 200	0 200	0 200	0 00'00"	15 000	2 194	0 000	1 1	0 000		
994	E316-3	270	00'00"D	0 00'00"	2 044	2 044	2 044	0 00'00"	5 000	2 194	0 000	1 1	0 000		
995	E316-4	270	00'00"D	0 00'00"	2 008	2 008	2 008	0 00'00"	11 000	2 194	0 000	1 1	0 000	CERCA	
996	E317-E318	180	00'00"D	0.00'00"	2.352	2.352	2.352	0.00'00"	20 000	2 409	0.000	0 1	19.888	ESTACAO	
997	E318-E319	180	00'00"D	0.00'00"	1.900	1.900	1.900	0.00'00"	20 000	2 409	0.000	0 1	20.340	ESTACAO	
998	E318-1	90	00'00"D	0 00'00"	0 824	0 824	0 824	0 00'00"	5 800	1 813	0 000	1 1	0 000	B P	
999	E318-2	90	00'00"D	0 00'00"	0 811	0 811	0 811	0 00'00"	15 000	1 813	0 000	1 1	0 000		
	E318-3	270	00'00"D	0 00'00"	1 694	1 694	1 694	0 00'00"	5 000	1 813	0 000	1 1	0 000		
	E318-4	270	00'00"D	0 00'00"	1 606	1 606	1 606	0 00'00"	11 000	1 813	0 000	1 1	0 000	CERCA	
	E319-E320	180	00'00"D	0.00'00"	1.615	1.615	1.615	0.00'00"	20.000	2.409	0 000	0 1	20.625	ESTACAO	
	E320-E321	180	00'00"D	0.00'00"	1.268	1.268	1.268	0.00'00"	20 000	2 409	0 000	0 1	20.972	ESTACAO	
	E320-1	90	00'00"D	0 00'00"	0 966	0 966	0 966	0 00'00"	5 800	1 466	0 000	1 1	0 000	B P	
	E320-2	90	00'00"D	0 00'00"	0 970	0 970	0 970	0 00'00"	15 000	1 466	0 000	1 1	0 000		
	E320-3	270	00'00"D	0 00'00"	1 412	1 412	1 412	0 00'00"	5 000	1 466	0 000	1 1	0 000		
	E320-4	270	00'00"D	0 00'00"	1 400	1 400	1 400	0 00'00"	15 000	1 466	0 000	1 1	0 000		
	E321-E322	180	00'00"D	0.00'00"	0.972	0 972	0.972	0 00'00"	20.000	2.409	0 000	0 1	21 268	ESTACAO	
	E322-E323	180	00'00"D	0.00'00"	0 830	0.830	0.830	0 00'00"	20 000	2 409	0 000	0 1	21 410	ESTACAO	
	E322-1	90	00'00"D	0 00'00"	1 066	1 066	1 066	0 00'00"	5 800	1 422	0 000	1 1	0 000	B P	
	E322-2	90	00'00"D	0 00'00"	1 080	1 080	1 080	0 00'00"	15 000	1 422	0 000	1 1	0 000		
	E322-3	270	00'00"D	0 00'00"	1 413	1 413	1 413	0 00'00"	5 000	1 422	0 000	1 1	0 000		
	E322-4	270	00'00"D	0 00'00"	1 377	1 377	1 377	0 00'00"	15 000	1 422	0 000	1 1	0 000		
	E323-E324	180	00'00"D	0 00'00"	2.235	2.235	2.235	0 00'00"	20 000	2 554	0 000	0 1	21.729	ESTACAO	
	E324-E325	180	00'00"D	0 00'00"	1 988	1.988	1 988	0 00'00"	20 000	2 554	0 000	0 1	21.976	ESTACAO	
	E324-1	90	00'00"D	0 00'00"	1 067	1 067	1 067	0 00'00"	5 800	1 500	0 000	1 1	0 000	B P	
	E324-2	90	00'00"D	0 00'00"	1 021	1 021	1 021	0 00'00"	15 000	1 500	0 000	1 1	0 000		
	E324-3	270	00'00"D	0 00'00"	1 466	1 466	1 466	0 00'00"	5 000	1 500	0 000	1 1	0 000		
	E324-4	270	00'00"D	0 00'00"	1 397	1 397	1 397	0 00'00"	10 000	1 500	0 000	1 1	0 000	CAIXA	
	E325-E326	180	00'00"D	0 00'00"	2.050	2.050	2 050	0.00'00"	20 000	2 554	0 000	0 1	21.914	ESTACAO	
	E326-E327	180	00'00"D	0 00'00"	1 828	1 828	1 828	0.00'00"	20.000	2 554	0.000	0 1	22 136	ESTACAO	
	E326-1	90	00'00"D	0 00'00"	0 567	0 567	0 567	0 00'00"	5 800	1 494	0 000	1 1	0 000	B P	
	E326-2	90	00'00"D	0 00'00"	0 600	0 600	0 600	0 00'00"	15 000	1 494	0 000	1 1	0 000		
	E326-3	270	00'00"D	0 00'00"	1 312	1 312	1 312	0 00'00"	5 000	1 494	0 000	1 1	0 000		
	E326-4	270	00'00"D	0 00'00"	1 421	1 421	1 421	0 00'00"	15 000	1 494	0 000	1 1	0 000		
	E327-E328	180	00'00"D	0.00'00"	1.690	1 690	1 690	0 00'00"	20 000	2.554	0.000	0 1	22.274	ESTACAO	
	E328-E329	180	00'00"D	0.00'00"	1 579	1 579	1.579	0 00'00"	20.000	2.554	0.000	0 1	22 385	ESTACAO	
	E328-1	90	00'00"D	0 00'00"	0 712	0 712	0 712	0 00'00"	5 800	1 670	0 000	1 1	0 000		
	E328-2	90	00'00"D	0 00'00"	0 712	0 712	0 712	0 00'00"	15 000	1 670	0 000	1 1	0 000		
	E328-3	270	00'00"D	0 00'00"	1 686	1 686	1 686	0 00'00"	5 000	1 670	0 000	1 1	0 000		
	E328-4	270	00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	15 000	1 670	0 000	1 1	0 000		
	E329-E330	180	00'00"D	0.00'00"	1.613	1 613	1.613	0 00'00"	20.000	2.554	0.000	0 1	22 351	ESTACAO	
	E330-E331	180	00'00"D	0.00'00"	1 584	1.584	1.584	0 00'00"	20 000	2.554	0 000	0 1	22.380	ESTACAO	
	E330-1	90	00'00"D	0 00'00"	1 000	1 000	1 000	0 00'00"	5 800	1 810	0 000	1 1	0 000		
	E330-2	90	00'00"D	0 00'00"	1 000	1 000	1 000	0 00'00"	15 000	1 810	0 000	1 1	0 000		

Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH	Proprietario						Data 26/08/97						
IN	ALINH	ÂNGULO	RESIDUO	E S T A D I A			ÂNGULO	DISTÂNCIA	ALT	DIFER	COD	COD	COTA	DESCRIÇÃO	
DICB	EST	P V	HORIZONTAL	ANGULAR	SUP	MBD	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO	APA	DIRETA	DO PONTO
1036	E330-3	270	00'00"D	0 00'00"	1 722	1 722	1 722	0 00'00"	5 000	1 810	0 000	1 1	0 000		
1037	E330-4	270	00'00"D	0 00'00"	1 684	1 684	1 684	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1038	E331-E332	180	00'00"D	0.00'00"	1.670	1.670	1.670	0.00'00"	20.000	2.554	0.000	0 1	22.294	ESTACAO	
1039	E332-E333	180	00'00"D	0.00'00"	1.839	1 839	1.839	0.00'00"	20.000	2.554	0.000	0 1	22.125	ESTACAO	
1040	E332-1	90	00'00"D	0 00'00"	0 422	0 422	0 422	0 00'00"	5 800	1 686	0 000	1 1	0 000	B P	
1041	E332-2	90	00'00"D	0 00'00"	0 436	0 436	0 436	0 00'00"	15 000	1 686	0 000	1 1	0 000		
1042	E332-3	270	00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	5 000	1 686	0 000	1 1	0 000		
1043	E332-4	270	00'00"D	0 00'00"	1 472	1 472	1 472	0 00'00"	15 000	1 686	0 000	1 1	0 000		
1044	E333-E334	180	00'00"D	0.00'00"	1.775	1.775	1 775	0.00'00"	20.000	2.554	0.000	0 1	22.189	ESTACAO	
1045	E334-E335	180	00'00"D	0.00'00"	1.545	1.545	1.545	0.00'00"	20.000	2.554	0.000	0 1	22.419	ESTACAO	
1046	E334-1	90	00'00"D	0 00'00"	1 084	1 084	1 084	0 00'00"	5 800	2 120	0 000	1 1	0 000	B P	
1047	E334-2	90	00'00"D	0 00'00"	1 067	1 067	1 067	0 00'00"	15 000	2 120	0 000	1 1	0 000		
1048	E334-3	270	00'00"D	0 00'00"	2 060	2 060	2 060	0 00'00"	5 000	2 120	0 000	1 1	0 000		
1049	E334-4	270	00'00"D	0 00'00"	2 094	2 094	2 094	0 00'00"	15 000	2 120	0 000	1 1	0 000		
1050	E335-E336	180	00'00"D	0.00'00"	1.881	1.881	1 881	0.00'00"	20.000	2.554	0.000	0 1	22.083	ESTACAO	
1051	E336-E337	180	00'00"D	0.00'00"	2.048	2.048	2 048	0.00'00"	20.000	2 554	0.000	0 1	21.916	ESTACAO	
1052	E336-1	90	00'00"D	0 00'00"	1 096	1 096	1 096	0 00'00"	5 800	1 810	0 000	1 1	0 000		
1053	E336-2	90	00'00"D	0 00'00"	1 100	1 100	1 100	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1054	E336-3	270	00'00"D	0 00'00"	1 694	1 694	1 694	0 00'00"	5 000	1 810	0 000	1 1	0 000		
1055	E336-4	270	00'00"D	0 00'00"	1 711	1 711	1 711	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1056	E337-E338	180	00'00"D	0.00'00"	2.122	2.122	2 122	0.00'00"	20 000	2 554	0.000	0 1	21 842	ESTACAO	
1057	E338-E339	180	00'00"D	0.00'00"	2.320	2 320	2 320	0.00'00"	20.000	2 554	0.000	0 1	21.644	ESTACAO	
1058	E338-1	90	00'00"D	0 00'00"	0 994	0 994	0 994	0 00'00"	5 800	1 694	0 000	1 1	0 000	B P	
1059	E338-2	90	00'00"D	0 00'00"	0 977	0 977	0 977	0 00'00"	15 000	1 694	0 000	1 1	0 000		
1060	E338-3	270	00'00"D	0 00'00"	1 592	1 592	1 592	0 00'00"	5 000	1 694	0 000	1 1	0 000		
1061	E338-4	270	00'00"D	0 00'00"	1 510	1 510	1 510	0 00'00"	15 000	1 694	0 000	1 1	0 000		
1062	E339-E340	180	00'00"D	0 00'00"	1 628	1 628	1.628	0 00'00"	20.000	1.435	0.000	0 1	21.451	ESTACAO	
1063	E340-E341	180	00'00"D	0 00'00"	1 789	1 789	1.789	0 00'00"	20 000	1 435	0 000	0 1	21 290	ESTACAO	
1064	E340-1	90	00'00"D	0 00'00"	0 996	0 996	0 996	0 00'00"	5 800	1 890	0 000	1 1	0 000		
1065	E340-2	90	00'00"D	0 00'00"	0 970	0 970	0 970	0 00'00"	15 000	1 890	0 000	1 1	0 000		
1066	E340-3	270	00'00"D	0 00'00"	1 711	1 711	1 711	0 00'00"	5 000	1 890	0 000	1 1	0 000		
1067	E340-4	270	00'00"D	0 00'00"	1 691	1 691	1 691	0 00'00"	15 000	1 890	0 000	1 1	0 000		
1068	E341-E342	180	00'00"D	0 00'00"	1.980	1.980	1 980	0.00'00"	20 000	1 435	0 000	0 1	21 099	ESTACAO	
1069	E342-E343	180	00'00"D	0.00'00"	2.048	2 048	2 048	0.00'00"	20 000	1.435	0 000	0 1	21.031	ESTACAO	
1070	E342-1	90	00'00"D	0 00'00"	0 413	0 413	0 413	0 00'00"	5 800	1 342	0 000	1 1	0 000		
1071	E342-2	90	00'00"D	0 00'00"	0 427	0 427	0 427	0 00'00"	15 000	1 342	0 000	1 1	0 000		
1072	E342-3	270	00'00"D	0 00'00"	1 294	1 294	1 294	0 00'00"	5 000	1 342	0 000	1 1	0 000		
1073	E342-4	270	00'00"D	0 00'00"	1 116	1 116	1 116	0 00'00"	15 000	1 342	0 000	1 1	0 000		
1074	E343-E344	180	00'00"D	0.00'00"	2.368	2 368	2.368	0.00'00"	20.000	1.435	0.000	0 1	20.711	ESTACAO	
1075	E344-E345	180	00'00"D	0 00'00"	2 492	2 492	2.492	0.00'00"	20.000	1.435	0.000	0 1	20.587	ESTACAO	
1076	E344-1	90	00'00"D	0 00'00"	0 894	0 894	0 894	0 00'00"	6 000	2 060	0 000	1 1	0 000	B P	
1077	E344-2	90	00'00"D	0 00'00"	0 867	0 867	0 867	0 00'00"	15 000	2 060	0 000	1 1	0 000		
1078	E344-3	270	00'00"D	0 00'00"	1 937	1 937	1 937	0 00'00"	5 000	2 060	0 000	1 1	0 000		
1079	E344-4	270	00'00"D	0 00'00"	1 914	1 914	1 914	0 00'00"	15 000	2 060	0 000	1 1	0 000		
1080	E345-E346	180	00'00"D	0 00'00"	2.717	2.717	2.717	0 00'00"	20.000	1.435	0.000	0 1	20.362	ESTACAO	



Relatório dos dados da caderneta de campo

Pg.:025

móvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado	SRH	Proprietário										Data		
IN	ALINH	ANGULO	RESIDUO	E S T A D I A			ANGULO	DISTANCIA	ALT	DIFER	COD	COD	COTA	DESCRICO
STK	BST P V	HORIZONTAL	ANGULAR	SUP	MD	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO	APA	DIRETA	DO PONTO
	E346-E347	180.00'00"D	0.00'00"	2.810	2.810	2.810	0.00'00"	20.000	1.435	0.000	0	1	20.269	ESTACAO
	E346-1	90.00'00"D	0.00'00"	1.900	1.900	1.900	0.00'00"	6.000	1.896	0.000	1	1	0.000	
	E346-2	90.00'00"D	0.00'00"	0.517	0.517	0.517	0.00'00"	9.500	1.896	0.000	1	1	0.000	B P
	E346-3	90.00'00"D	0.00'00"	0.522	0.522	0.522	0.00'00"	15.000	1.896	0.000	1	1	0.000	
	E346-4	270.00'00"D	0.00'00"	1.756	1.756	1.756	0.00'00"	5.000	1.896	0.000	1	1	0.000	
	E346-5	270.00'00"D	0.00'00"	1.713	1.713	1.713	0.00'00"	15.000	1.896	0.000	1	1	0.000	
	E347-E348	162.26'20"D	0.00'00"	2.990	2.990	2.990	0.00'00"	20.000	1.435	0.000	0	1	20.089	ESTACAO
	E348-E349	180.00'00"D	0.00'00"	3.110	3.110	3.110	0.00'00"	20.000	1.435	0.000	0	1	19.969	ESTACAO
	E348-1	90.00'00"D	0.00'00"	0.810	0.810	0.810	0.00'00"	9.700	2.116	0.000	1	1	0.000	B P
	E348-2	90.00'00"D	0.00'00"	0.867	0.867	0.867	0.00'00"	15.000	2.116	0.000	1	1	0.000	
	E348-3	270.00'00"D	0.00'00"	2.070	2.070	2.070	0.00'00"	5.000	2.116	0.000	1	1	0.000	
	E348-4	270.00'00"D	0.00'00"	2.037	2.037	2.037	0.00'00"	15.000	2.116	0.000	1	1	0.000	
	E349-E350	180.00'00"D	0.00'00"	3.266	3.266	3.266	0.00'00"	20.000	1.435	0.000	0	1	19.813	ESTACAO
	E350-E351	180.00'00"D	0.00'00"	3.402	3.402	3.402	0.00'00"	20.000	1.435	0.000	0	1	19.677	ESTACAO
	E350-1	90.00'00"D	0.00'00"	0.510	0.510	0.510	0.00'00"	6.500	2.063	0.000	1	1	0.000	B P
	E350-2	90.00'00"D	0.00'00"	0.520	0.520	0.520	0.00'00"	15.000	2.063	0.000	1	1	0.000	
	E350-3	270.00'00"D	0.00'00"	2.030	2.030	2.030	0.00'00"	5.000	2.063	0.000	1	1	0.000	
	E350-4	270.00'00"D	0.00'00"	1.966	1.966	1.966	0.00'00"	15.000	2.063	0.000	1	1	0.000	
	E351-E352	180.00'00"D	0.00'00"	2.293	2.293	2.293	0.00'00"	20.000	2.270	0.000	0	1	19.654	ESTACAO
	E352-E353	180.00'00"D	0.00'00"	2.468	2.468	2.468	0.00'00"	20.000	2.270	0.000	0	1	19.479	ESTACAO
	E352-1	90.00'00"D	0.00'00"	1.037	1.037	1.037	0.00'00"	6.300	2.421	0.000	1	1	0.000	B P
	E352-2	90.00'00"D	0.00'00"	1.048	1.048	1.048	0.00'00"	15.000	2.421	0.000	1	1	0.000	
	E352-3	270.00'00"D	0.00'00"	2.220	2.220	2.220	0.00'00"	5.000	2.421	0.000	1	1	0.000	
	E352-4	270.00'00"D	0.00'00"	2.167	2.167	2.167	0.00'00"	15.000	2.421	0.000	1	1	0.000	
	E353-E354	180.00'00"D	0.00'00"	2.583	2.583	2.583	0.00'00"	20.000	2.270	0.000	0	1	19.364	ESTACAO
	E354-E355	180.00'00"D	0.00'00"	2.668	2.668	2.668	0.00'00"	20.000	2.270	0.000	0	1	19.279	ESTACAO
	E354-1	90.00'00"D	0.00'00"	0.411	0.411	0.411	0.00'00"	8.400	1.913	0.000	1	1	0.000	B P
	E354-2	90.00'00"D	0.00'00"	0.460	0.460	0.460	0.00'00"	15.000	1.913	0.000	1	1	0.000	
	E354-3	270.00'00"D	0.00'00"	1.860	1.860	1.860	0.00'00"	5.000	1.913	0.000	1	1	0.000	
	E354-4	270.00'00"D	0.00'00"	1.720	1.720	1.720	0.00'00"	15.000	1.913	0.000	1	1	0.000	
	E355-E356	180.00'00"D	0.00'00"	2.551	2.551	2.551	0.00'00"	20.000	2.270	0.000	0	1	19.396	ESTACAO
	E356-E357	180.00'00"D	0.00'00"	3.468	3.468	3.468	0.00'00"	20.000	2.270	0.000	0	1	18.479	ESTACAO
	E356-1	90.00'00"D	0.00'00"	2.210	2.210	2.210	0.00'00"	10.000	2.033	0.000	1	1	0.000	
	E356-2	90.00'00"D	0.00'00"	0.570	0.570	0.570	0.00'00"	13.500	2.033	0.000	1	1	0.000	B P
	E356-3	90.00'00"D	0.00'00"	0.560	0.560	0.560	0.00'00"	15.000	2.033	0.000	1	1	0.000	
	E356-4	270.00'00"D	0.00'00"	1.913	1.913	1.913	0.00'00"	5.000	2.033	0.000	1	1	0.000	
	E356-5	270.00'00"D	0.00'00"	1.870	1.870	1.870	0.00'00"	15.000	2.033	0.000	1	1	0.000	
	E357-E358	157.42'00"D	0.00'00"	2.982	2.982	2.982	0.00'00"	20.000	2.270	0.000	0	1	18.965	ESTACAO
	E358-E359	180.00'00"D	0.00'00"	2.763	2.763	2.763	0.00'00"	20.000	2.270	0.000	0	1	19.184	ESTACAO
	E358-1	90.00'00"D	0.00'00"	2.310	2.310	2.310	0.00'00"	10.000	2.190	0.000	1	1	0.000	
	E358-2	90.00'00"D	0.00'00"	0.722	0.722	0.722	0.00'00"	13.700	2.190	0.000	1	1	0.000	B P
	E358-3	90.00'00"D	0.00'00"	0.730	0.730	0.730	0.00'00"	15.000	2.190	0.000	1	1	0.000	
	E358-4	270.00'00"D	0.00'00"	2.030	2.030	2.030	0.00'00"	1.000	2.190	0.000	1	1	0.000	CERCA
	E358-5	270.00'00"D	0.00'00"	1.966	1.966	1.966	0.00'00"	15.000	2.190	0.000	1	1	0.000	
	E359-E360	180.00'00"D	0.00'00"	3.597	3.597	3.597	0.00'00"	20.000	2.270	0.000	0	1	18.350	ESTACAO

Relatório dos dados da caderneta de campo

ADJTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH	Proprietário							Data 26/08/97				
IN	ALINH	ANGULO	RBSIDUO	B S T A D I A			ANGULO	DISTANCIA	ALT	DIFER	COD COD	COTA	DESCRICA	
N	BST P V	HORIZONTAL	ANGULAR	SUP	MRD	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO APA	DIRETA	DO PONTO	
1128	E360-E361	180 00'00"D	0.00'00"	0.750	0.750	0.750	0 00'00"	20 000	1.003	0 000	0 1	18.603	ESTACAO	
1129	E360-1	90 00'00"D	0 00'00"	0 066	0 066	0 066	0 00'00"	8 300	1 960	0 000	1 1	0 000	B P	
1130	E360-2	90 00'00"D	0 00'00"	0 118	0 118	0 118	0 00'00"	15 000	1 960	0 000	1 1	0 000		
1131	E360-3	270 00'00"D	0 00'00"	1 766	1 766	1 766	0 00'00"	3 000	1 960	0 000	1 1	0 000	CERCA	
1132	E360-4	270 00'00"D	0 00'00"	1 594	1 594	1 594	0 00'00"	15 000	1 960	0 000	1 1	0 000		
1133	E361-E362	180 00'00"D	0.00'00"	1.048	1.048	1.048	0.00'00"	20.000	1.003	0.000	0 1	18.305	ESTACAO	
1134	E362-E363	180 00'00"D	0.00'00"	1.462	1.462	1.462	0.00'00"	20.000	1.003	0.000	0 1	17.891	ESTACAO	
1135	E362-1	90 00'00"D	0 00'00"	0 410	0 410	0 410	0 00'00"	5 600	1 800	0 000	1 1	0 000	B P	
1136	E362-2	90 00'00"D	0 00'00"	0 422	0 422	0 422	0 00'00"	15 000	1 800	0 000	1 1	0 000		
1137	E362-3	270 00'00"D	0 00'00"	1 360	1 360	1 360	0 00'00"	5 000	1 800	0 000	1 1	0 000		
1138	E362-4	270 00'00"D	0 00'00"	1 420	1 420	1 420	0 00'00"	15 000	1 800	0 000	1 1	0 000		
1139	E363-E364	180.00'00"D	0.00'00"	1.755	1.755	1.755	0.00'00"	20.000	1.003	0.000	0 1	17.598	ESTACAO	
1140	E364-E365	180 00'00"D	0.00'00"	1.745	1.745	1.745	0.00'00"	20.000	1.003	0.000	0 1	17.608	ESTACAO	
1141	E364-1	90 00'00"D	0 00'00"	0 366	0 366	0 366	0 00'00"	6 300	1 810	0 000	1 1	0 000	B P	
1142	E364-2	90 00'00"D	0 00'00"	0 411	0 411	0 411	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1143	E364-3	270 00'00"D	0 00'00"	1 680	1 680	1 680	0 00'00"	5 000	1 810	0 000	1 1	0 000		
1144	E364-4	270 00'00"D	0 00'00"	1 611	1 611	1 611	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1145	E365-E366	180.00'00"D	0.00'00"	0.740	0.740	0.740	0 00'00"	20.000	0.625	0.000	0 1	17.493	ESTACAO	
1146	E366-+12	180 00'00"D	0.00'00"	0.985	0.985	0.985	0 00'00"	12 000	0.625	0.000	0 1	17.248	ESTACAO	
1147	E366-1	90 00'00"D	0 00'00"	0 310	0 310	0 310	0 00'00"	9 100	1 620	0 000	1 1	0 000	B P	
1148	E366-2	90 00'00"D	0 00'00"	0 353	0 353	0 353	0 00'00"	15 000	1 620	0 000	1 1	0 000		
1149	E366-3	270 00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	5 000	1 620	0 000	1 1	0 000		
1150	E366-4	270 00'00"D	0 00'00"	1 572	1 572	1 572	0 00'00"	15 000	1 620	0 000	1 1	0 000		
1151	+12-E367	166 30'40"D	0.00'00"	1.212	1.212	1.212	0 00'00"	8 000	0 625	0.000	0 1	17.021	ESTACAO	
1152	E367-E368	180 00'00"D	0.00'00"	2.315	2.315	2.315	0.00'00"	20 000	0.625	0 000	0 1	15.918	ESTACAO	
1153	E368-E369	180 00'00"D	0.00'00"	3 112	3 112	3.112	0.00'00"	20.000	0 625	0 000	0 1	15 121	ESTACAO	
1154	E368-1	90 00'00"D	0 00'00"	0 260	0 260	0 260	0 00'00"	7 800	1 711	0 000	1 1	0 000	B P	
1155	E368-2	90 00'00"D	0 00'00"	0 311	0 311	0 311	0 00'00"	15 000	1 711	0 000	1 1	0 000		
1156	E368-3	270 00'00"D	0 00'00"	1 500	1 500	1 500	0 00'00"	5 000	1 711	0 000	1 1	0 000		
1157	E368-4	270 00'00"D	0 00'00"	1 394	1 394	1 394	0 00'00"	15 000	1 711	0 000	1 1	0 000		
1158	E369-E370	180 00'00"D	0 00'00"	2 375	2 375	2.375	0.00'00"	20.000	1 322	0 000	0 1	14 068	ESTACAO	
1159	E370-E371	180.00'00"D	0.00'00"	3 696	3 696	3 696	0 00'00"	20.000	1 322	0 000	0 1	12 747	ESTACAO	
1160	E370-1	90 00'00"D	0 00'00"	0 310	0 310	0 310	0 00'00"	6 700	1 810	0 000	1 1	0 000	B P	
1161	E370-2	180 00'00"D	0 00'00"	0 421	0 421	0 421	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1162	E370-3	270 00'00"D	0 00'00"	1 422	1 422	1 422	0 00'00"	5 000	1 810	0 000	1 1	0 000		
1163	E370-4	270 00'00"D	0 00'00"	1 060	1 060	1 060	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1164	E371-E372	180 00'00"D	0.00'00"	2 662	2 662	2.662	0 00'00"	20.000	1 855	0 000	0 1	11.940	ESTACAO	
1165	E372-E373	180.00'00"D	0 00'00"	3.623	3.623	3 623	0 00'00"	20 000	1 855	0.000	0 1	10.979	ESTACAO	
1166	E372-1	90 00'00"D	0 00'00"	0 268	0 268	0 268	0 00'00"	6 800	2 210	0 000	1 1	0 000	B P	
1167	E372-2	90 00'00"D	0 00'00"	0 300	0 300	0 300	0 00'00"	15 000	2 210	0 000	1 1	0 000		
1168	E372-3	270 00'00"D	0 00'00"	2 190	2 190	2 190	0 00'00"	1 200	2 210	0 000	1 1	0 000	CERCA	
1169	E372-4	270 00'00"D	0 00'00"	2 066	2 066	2 066	0 00'00"	15 000	2 210	0 000	1 1	0 000		
1170	E373-E374	180.00'00"D	0.00'00"	3 197	3 197	3 197	0 00'00"	20.000	1 855	0.000	0 1	11.405	ESTACAO	
1171	E374-E375	180.00'00"D	0.00'00"	2.168	2.168	2 168	0.00'00"	20.000	1 855	0.000	0 1	12.434	ESTACAO	
1172	E374-1	90 00'00"D	0 00'00"	0 428	0 428	0 428	0 00'00"	7 000	2 422	0 000	1 1	0 000		

Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH	Proprietário							Data 26/08/97					
IN DICE	ALINH EST	P V	ÂNGULO HORIZONTAL	RESIDUO ANGULAR	E S T A D I A			ÂNGULO VERTICAL	DISTÂNCIA INFORMADA	ALT APA	DIFER NIVEL	COD PTO	COD APA	COTA DIRETA	DESCRIÇÃO DO PONTO
					SUP	MED	INF								
1171	E374-2		90 00'00"D	0 00'00"	0 434	0 434	0 434	0 00'00"	15 000	2 422	0 000	1 1	0 000		
1172	E374-3		270 00'00"D	0 00'00"	2 296	2 296	2 296	0 00'00"	1 500	2 422	0 000	1 1	0 000	CBRCA	
1173	E374-4		270 00'00"D	0 00'00"	2 067	2 067	2 067	0 00'00"	15 000	2 422	0 000	1 1	0 000		
1174	E375-E376		180 00'00"D	0 00'00"	3.230	3.230	3 230	0.00'00"	20.000	3 463	0 000	0 1	12.667	ESTACAO	
1175	E376-E377		180.00'00"D	0.00'00"	1.813	1.813	1 813	0.00'00"	20.000	3 463	0.000	0 1	14 084	ESTACAO	
1176	E376-1		90 00'00"D	0 00'00"	1 426	1 426	1 426	0 00'00"	7 300	1 810	0 000	1 1	0 000	B P	
1177	E376-2		90 00'00"D	0 00'00"	1 430	1 430	1 430	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1178	E376-3		270 00'00"D	0 00'00"	1 680	1 680	1 680	0 00'00"	5 000	1 810	0 000	1 1	0 000		
1179	E376-4		270 00'00"D	0 00'00"	1 510	1 510	1 510	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1180	E377-E378		180.00'00"D	0.00'00"	1.507	1.507	1.507	0.00'00"	20.000	3.463	0.000	0 1	14.390	ESTACAO	
1181	E378-E379		180.00'00"D	0.00'00"	0.359	0 359	0.359	0.00'00"	20.000	3 463	0.000	0 1	15.538	ESTACAO	
1182	E378-1		90 00'00"D	0 00'00"	1 319	1 319	1 319	0 00'00"	7 400	1 680	0 000	1 1	0 000	B P	
1183	E378-2		90 00'00"D	0 00'00"	1 322	1 322	1 322	0 00'00"	15 000	1 680	0 000	1 1	0 000		
1184	E378-3		270 00'00"D	0 00'00"	1 300	1 300	1 300	0 00'00"	5 000	1 680	0 000	1 1	0 000		
1185	E378-4		270 00'00"D	0 00'00"	1 194	1 194	1 194	0 00'00"	15 000	1 680	0 000	1 1	0 000		
1186	E379-E380		180 00'00"D	0 00'00"	0 502	0.502	0.502	0 00'00"	20 000	3 463	0 000	0 1	15.395	ESTACAO	
1187	E380-E381		180 00'00"D	0 00'00"	2 222	2.222	2.222	0 00'00"	20 000	3.985	0 000	0 1	17.158	ESTACAO	
1188	E380-1		90 00'00"D	0 00'00"	1 000	1 000	1 000	0 00'00"	7 600	1 622	0 000	1 1	0 000	B P	
1189	E380-2		90 00'00"D	0 00'00"	1 033	1 033	1 033	0 00'00"	15 000	1 622	0 000	1 1	0 000		
1190	E380-3		90 00'00"D	0 00'00"	1 490	1 490	1 490	0 00'00"	5 000	1 622	0 000	1 1	0 000		
1191	E380-4		270 00'00"D	0 00'00"	0 316	0 316	0 316	0 00'00"	15 000	1 622	0 000	1 1	0 000		
1192	E381-E382		180 00'00"D	0 00'00"	2.180	2 180	2 180	0 00'00"	20 000	3 985	0 000	0 1	17 200	ESTACAO	
1193	E382-E383		180 00'00"D	0.00'00"	1.457	1 457	1 457	0 00'00"	20.000	3 985	0.000	0 1	17 923	ESTACAO	
1194	E382-1		90 00'00"D	0 00'00"	1 211	1 211	1 211	0 00'00"	8 000	1 680	0 000	1 1	0 000		
1195	E382-2		90 00'00"D	0 00'00"	1 260	1 260	1 260	0 00'00"	15 000	1 680	0 000	1 1	0 000		
1196	E382-3		270 00'00"D	0 00'00"	0 210	0 210	0 210	0 00'00"	5 000	1 680	0 000	1 1	0 000		
1197	E382-4		270 00'00"D	0 00'00"	0 180	0 180	0 180	0 00'00"	15 000	1 680	0 000	1 1	0 000		
1198	E383-E384		180 00'00"D	0 00'00"	1 325	1.325	1 325	0 00'00"	20 000	3.985	0 000	0 1	18.055	ESTACAO	
1199	E384-E385		180 00'00"D	0.00'00"	0.605	0.605	0 605	0.00'00"	20 000	3.985	0 000	0 1	18.775	ESTACAO	
1200	E384-1		90 00'00"D	0 00'00"	1 400	1 400	1 400	0 00'00"	8 200	1 911	0 000	1 1	0 000	B P	
1201	E384-2		90 00'00"D	0 00'00"	1 400	1 400	1 400	0 00'00"	15 000	1 911	0 000	1 1	0 000		
1202	E384-3		270 00'00"D	0 00'00"	1 866	1 866	1 866	0 00'00"	5 000	1 911	0 000	1 1	0 000		
1203	E384-4		270 00'00"D	0 00'00"	1 794	1 794	1 794	0 00'00"	15 000	1 911	0 000	1 1	0 000		
1204	E385-E386		180 00'00"D	0 00'00"	1 193	1 193	1.193	0 00'00"	20 000	3 985	0 000	0 1	18 187	ESTACAO	
1205	E386-E387		180 00'00"D	0 00'00"	0 803	0.803	0.803	0 00'00"	20 000	3 985	0 000	0 1	18.577	ESTACAO	
1206	E386-1		90 00'00"D	0 00'00"	0 987	0 987	0 987	0 00'00"	8 400	1 620	0 000	1 1	0 000		
1207	E386-2		90 00'00"D	0 00'00"	0 980	0 980	0 980	0 00'00"	15 000	1 620	0 000	1 1	0 000		
1208	E386-3		270 00'00"D	0 00'00"	1 566	1 566	1 566	0 00'00"	5 000	1 620	0 000	1 1	0 000		
1209	E386-4		270 00'00"D	0 00'00"	1 512	1 512	1 512	0 00'00"	15 000	1 620	0 000	1 1	0 000		
1210	E387-E388		180 00'00"D	0.00'00"	2.990	2 990	2 990	0 00'00"	20.000	3 384	0.000	0 1	18 971	ESTACAO	
1211	E388-E389		180.00'00"D	0.00'00"	1.843	1 843	1.843	0.00'00"	20.000	3 384	0 000	0 1	20.118	ESTACAO	
1212	E388-1		90 00'00"D	0 00'00"	0 990	0 990	0 990	0 00'00"	8 400	1 722	0 000	1 1	0 000		
1213	E388-2		90 00'00"D	0 00'00"	0 900	0 900	0 900	0 00'00"	15 000	1 722	0 000	1 1	0 000		
1214	E388-3		270 00'00"D	0 00'00"	1 620	1 620	1 620	0 00'00"	5 000	1 722	0 000	1 1	0 000		
1215	E388-4		270 00'00"D	0 00'00"	1 718	1 718	1 718	0 00'00"	15 000	1 722	0 000	1 1	0 000		

Relatório dos dados da caderneta de campo

Imovel ADUTORA DE CAPONGA

Local CASCAVEL CE

Interessado SRH

Proprietario

Data 26/08/97

IN	ALINH		ANGULO HORIZONTAL	RESIDUO ANGULAR	B S T A D I A			ANGULO VERTICAL	DISTANCIA INFORMADA	ALT APA	DIFBR NIVEL	COD COD		COTA DIRETA	DESCRICOAO DO PONTO
	EST	P V			SUP	MBD	INF					PTO	APA		
	E389	E390	180.00'00"D	0.00'00"	2.610	2.610	2.610	0.00'00"	20.000	3.384	0.000	0	1	19.351	ESTACAO
1217	E390	E391	180.00'00"D	0.00'00"	2.432	2.432	2.432	0.00'00"	20.000	3.384	0.000	0	1	19.529	ESTACAO
1218	E390	-1	90.00'00"D	0.00'00"	0.510	0.510	0.510	0.00'00"	8.400	1.711	0.000	1	1	0.000	B P
1219	E390	-2	90.00'00"D	0.00'00"	0.510	0.510	0.510	0.00'00"	15.000	1.711	0.000	1	1	0.000	
1220	E390	-3	270.00'00"D	0.00'00"	1.666	1.666	1.666	0.00'00"	5.000	1.711	0.000	1	1	0.000	
1221	E390	-4	270.00'00"D	0.00'00"	1.594	1.594	1.594	0.00'00"	15.000	1.711	0.000	1	1	0.000	
1222	E391	E392	180.00'00"D	0.00'00"	2.331	2.331	2.331	0.00'00"	20.000	2.331	0.000	0	1	19.529	ESTACAO
1223	E392	E393	180.00'00"D	0.00'00"	1.465	1.465	1.465	0.00'00"	20.000	2.331	0.000	0	1	20.395	ESTACAO
1224	E392	-1	90.00'00"D	0.00'00"	0.880	0.880	0.880	0.00'00"	8.400	1.711	0.000	1	1	0.000	
1225	E392	-2	90.00'00"D	0.00'00"	0.880	0.880	0.880	0.00'00"	15.000	1.711	0.000	1	1	0.000	
1226	E392	-3	270.00'00"D	0.00'00"	1.690	1.690	1.690	0.00'00"	5.000	1.711	0.000	1	1	0.000	
1227	E392	-4	270.00'00"D	0.00'00"	1.566	1.566	1.566	0.00'00"	15.000	1.711	0.000	1	1	0.000	
1228	E393	E394	180.00'00"D	0.00'00"	1.445	1.445	1.445	0.00'00"	20.000	3.384	0.000	0	1	22.334	ESTACAO
1229	E394	E395	180.00'00"D	0.00'00"	0.862	0.862	0.862	0.00'00"	20.000	3.384	0.000	0	1	22.917	ESTACAO
1230	E394	-1	90.00'00"D	0.00'00"	0.966	0.966	0.966	0.00'00"	8.400	1.611	0.000	1	1	0.000	
1231	E394	-2	90.00'00"D	0.00'00"	0.937	0.937	0.937	0.00'00"	15.000	1.611	0.000	1	1	0.000	
1232	E394	-3	270.00'00"D	0.00'00"	1.420	1.420	1.420	0.00'00"	5.000	1.611	0.000	1	1	0.000	
1233	E394	-4	270.00'00"D	0.00'00"	1.481	1.481	1.481	0.00'00"	15.000	1.611	0.000	1	1	0.000	
1234	E395	E396	180.00'00"D	0.00'00"	0.680	0.680	0.680	0.00'00"	20.000	3.384	0.000	0	1	23.099	ESTACAO
1235	E396	E397	180.00'00"D	0.00'00"	1.384	1.384	1.384	0.00'00"	20.000	2.210	0.000	0	1	23.925	ESTACAO
1236	E396	-1	90.00'00"D	0.00'00"	0.970	0.970	0.970	0.00'00"	8.400	1.644	0.000	1	1	0.000	B P
1237	E396	-2	90.00'00"D	0.00'00"	0.954	0.954	0.954	0.00'00"	15.000	1.644	0.000	1	1	0.000	
1238	E396	-3	270.00'00"D	0.00'00"	1.620	1.620	1.620	0.00'00"	5.000	1.644	0.000	1	1	0.000	
1239	E396	-4	270.00'00"D	0.00'00"	1.613	1.613	1.613	0.00'00"	15.000	1.644	0.000	1	1	0.000	
1240	E397	E398	180.00'00"D	0.00'00"	1.435	1.435	1.435	0.00'00"	20.000	2.210	0.000	0	1	23.874	ESTACAO
1241	E398	E399	180.00'00"D	0.00'00"	1.410	1.410	1.410	0.00'00"	20.000	2.210	0.000	0	1	23.899	ESTACAO
1242	E398	-1	90.00'00"D	0.00'00"	1.400	1.400	1.400	0.00'00"	8.400	1.681	0.000	1	1	0.000	B P
1243	E398	-2	90.00'00"D	0.00'00"	1.422	1.422	1.422	0.00'00"	15.000	1.681	0.000	1	1	0.000	
1244	E398	-3	270.00'00"D	0.00'00"	1.410	1.410	1.410	0.00'00"	5.000	1.681	0.000	1	1	0.000	
1245	E398	-4	270.00'00"D	0.00'00"	0.080	0.080	0.080	0.00'00"	15.000	1.681	0.000	1	1	0.000	
1246	E399	E400	180.00'00"D	0.00'00"	1.283	1.283	1.283	0.00'00"	20.000	2.210	0.000	0	1	24.026	ESTACAO
1247	E400	E401	180.00'00"D	0.00'00"	1.185	1.185	1.185	0.00'00"	20.000	2.210	0.000	0	1	24.124	ESTACAO
1248	E400	-1	90.00'00"D	0.00'00"	1.194	1.194	1.194	0.00'00"	8.400	1.612	0.000	1	1	0.000	
1249	E400	-2	90.00'00"D	0.00'00"	1.116	1.116	1.116	0.00'00"	15.000	1.612	0.000	1	1	0.000	
1250	E400	-3	270.00'00"D	0.00'00"	1.612	1.612	1.612	0.00'00"	5.000	1.612	0.000	1	1	0.000	
1251	E400	-4	270.00'00"D	0.00'00"	1.600	1.600	1.600	0.00'00"	15.000	1.612	0.000	1	1	0.000	
1252	E401	E402	180.00'00"D	0.00'00"	1.928	1.928	1.928	0.00'00"	20.000	2.210	0.000	0	1	23.381	ESTACAO
1253	E402	E403	180.00'00"D	0.00'00"	2.718	2.718	2.718	0.00'00"	20.000	2.210	0.000	0	1	22.591	ESTACAO
1254	E402	-1	90.00'00"D	0.00'00"	0.426	0.426	0.426	0.00'00"	8.400	1.620	0.000	1	1	0.000	
1255	E402	-2	90.00'00"D	0.00'00"	0.437	0.437	0.437	0.00'00"	15.000	1.620	0.000	1	1	0.000	
1256	E402	-3	270.00'00"D	0.00'00"	1.537	1.537	1.537	0.00'00"	5.000	1.620	0.000	1	1	0.000	
1257	E402	-4	270.00'00"D	0.00'00"	1.502	1.502	1.502	0.00'00"	15.000	1.620	0.000	1	1	0.000	
1258	E403	E404	180.00'00"D	0.00'00"	3.832	3.832	3.832	0.00'00"	20.000	2.210	0.000	0	1	21.477	ESTACAO
1259	E404	E405	180.00'00"D	0.00'00"	2.025	2.025	2.025	0.00'00"	20.000	0.663	0.000	0	1	20.115	ESTACAO
1260	E404	-1	90.00'00"D	0.00'00"	0.080	0.080	0.080	0.00'00"	8.400	1.896	0.000	1	1	0.000	B P

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**Relatório dos dados da caderneta de campo**

Imóvel ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado		SRH	Proprietário						Data 26/08/97					
IN DICE	ALINH EST P V	ÂNGULO HORIZONTAL	RESIDUO ANGULAR	E S T A D I A SUP MED INP			ÂNGULO VERTICAL	DISTÂNCIA INFORMADA	ALT APA	DIPBR NIVEL	COD PTO	COD APA	COTA DIRETA	DESCRIÇÃO DO PONTO
1261	E404-2	90 00'00"D	0 00'00"	0 072	0 072	0 072	0 00'00"	15 000	1 896	0 000	1 1	0 000		
1262	E404-3	270 00'00"D	0 00'00"	2 116	2 116	2 116	0 00'00"	5 000	1 896	0 000	1 1	0 000		
1263	E404-4	270 00'00"D	0 00'00"	2 003	2 003	2 003	0 00'00"	15 000	1 896	0 000	1 1	0 000		
1264	E405-E406	180 00'00"D	0 00'00"	2 204	2 204	2.204	0 00'00"	20 000	0.663	0.000	0 1	19 936	ESTACAO	
1265	E406-E407	180 00'00"D	0 00'00"	2 453	2 453	2.453	0 00'00"	20 000	0.663	0 000	0 1	19 687	ESTACAO	
1266	E406-1	90 00'00"D	0 00'00"	0 216	0 216	0 216	0 00'00"	11 300	3 168	0 000	1 1	0 000	B P	
1267	E406-2	90 00'00"D	0 00'00"	0 176	0 176	0 176	0 00'00"	15 000	3 168	0 000	1 1	0 000		
1268	E406-3	270 00'00"D	0 00'00"	3 196	3 196	3 196	0 00'00"	5 000	3 168	0 000	1 1	0 000		
1269	E406-4	270 00'00"D	0 00'00"	3 312	3 312	3 312	0 00'00"	15 000	3 168	0 000	1 1	0 000		
1270	E407-E408	180.00'00"D	0.00'00"	2.000	2.000	2 000	0.00'00"	20.000	0 663	0 000	0 1	20.140	ESTACAO	
1271	E408-E409	180 00'00"D	0.00'00"	2.081	2.081	2 081	0.00'00"	20.000	0 663	0.000	0 1	20.059	ESTACAO	
1272	E408-1	90 00'00"D	0 00'00"	0 196	0 196	0 196	0 00'00"	13 500	2 694	0 000	1 1	0 000	B P	
1273	E408-2	90 00'00"D	0 00'00"	0 100	0 100	0 100	0 00'00"	15 000	2 694	0 000	1 1	0 000		
1274	E408-3	270 00'00"D	0 00'00"	2 711	2 711	2 711	0 00'00"	5 000	2 694	0 000	1 1	0 000		
1275	E408-4	270 00'00"D	0 00'00"	2 684	2 684	2 684	0 00'00"	15 000	2 694	0 000	1 1	0 000		
1276	E409-E410	180 00'00"D	0 00'00"	1 755	1 755	1.755	0 00'00"	20 000	0.663	0.000	0 1	20 385	ESTACAO	
1277	E410-E411	180 00'00"D	0 00'00"	1 953	1 953	1.953	0 00'00"	20 000	2.405	0.000	0 1	20 837	ESTACAO	
1278	E410-1	90 00'00"D	0 00'00"	0 610	0 610	0 610	0 00'00"	15 200	2 166	0 000	1 1	0 000	B P	
1279	E410-2	270 00'00"D	0 00'00"	2 012	2 012	2 012	0 00'00"	5 000	2 166	0 000	1 1	0 000		
1280	E410-3	270 00'00"D	0 00'00"	1 884	1 884	1 884	0 00'00"	15 000	2 166	0 000	1 1	0 000		
1281	E411-E412	180 00'00"D	0 00'00"	1 930	1.930	1 930	0 00'00"	20.000	2 405	0.000	0 1	20 860	ESTACAO	
1282	E412-E413	180 00'00"D	0 00'00"	1 712	1 712	1 712	0 00'00"	20 000	2 405	0 000	0 1	21 078	ESTACAO	
1283	E412-1	90 00'00"D	0 00'00"	0 060	0 060	0 060	0 00'00"	15 200	1 810	0 000	1 1	0 000	B P	
1284	E412-2	270 00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	5 000	1 810	0 000	1 1	0 000		
1285	E412-3	270 00'00"D	0 00'00"	1 422	1 422	1 422	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1286	E413-E414	180 00'00"D	0.00'00"	1.754	1 754	1 754	0.00'00"	20 000	2 405	0 000	0 1	21.036	ESTACAO	
1287	E414-E415	180 00'00"D	0 00'00"	1.800	1 800	1.800	0 00'00"	20.000	2 405	0.000	0 1	20 990	ESTACAO	
1288	E414-1	90 00'00"D	0 00'00"	0 310	0 310	0 310	0 00'00"	13 000	1 810	0 000	1 1	0 000	B P	
1289	E414-2	90 00'00"D	0 00'00"	0 300	0 300	0 300	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1290	E414-3	270 00'00"D	0 00'00"	1 618	1 618	1 618	0 00'00"	5 000	1 810	0 000	1 1	0 000		
1291	E414-4	270 00'00"D	0 00'00"	1 446	1 446	1 446	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1292	E415-E416	180 00'00"D	0 00'00"	1.150	1 150	1 150	0.00'00"	20 000	2 405	0 000	0 1	21.640	ESTACAO	
1293	E416-E417	180 00'00"D	0 00'00"	1 921	1.921	1 921	0 00'00"	20.000	3 847	0.000	0 1	23 566	ESTACAO	
1294	E416-1	90 00'00"D	0 00'00"	0 080	0 080	0 080	0 00'00"	9 400	2 160	0 000	1 1	0 000		
1295	E416-2	90 00'00"D	0 00'00"	0 066	0 066	0 066	0 00'00"	15 000	2 160	0 000	1 1	0 000		
1296	E416-3	270 00'00"D	0 00'00"	2 060	2 060	2 060	0 00'00"	5 000	2 160	0 000	1 1	0 000		
1297	E416-4	270 00'00"D	0 00'00"	1 966	1 966	1 966	0 00'00"	15 000	2 160	0 000	1 1	0 000		
1298	E417-E418	180.00'00"D	0.00'00"	1.178	1.178	1 178	0.00'00"	20 000	3 847	0 000	0 1	24.309	ESTACAO	
1299	E418-E419	180.00'00"D	0 00'00"	3.271	3.271	3.271	0 00'00"	20.000	3.847	0.000	0 1	22 216	ESTACAO	
1300	E418-1	90 00'00"D	0 00'00"	0 620	0 620	0 620	0 00'00"	8 300	1 622	0 000	1 1	0 000		
1301	E418-2	90 00'00"D	0 00'00"	0 618	0 618	0 618	0 00'00"	15 000	1 622	0 000	1 1	0 000		
1302	E418-3	270 00'00"D	0 00'00"	1 592	1 592	1 592	0 00'00"	5 000	1 622	0 000	1 1	0 000		
1303	E418-4	270 00'00"D	0 00'00"	1 466	1 466	1 466	0 00'00"	15 000	1 622	0 000	1 1	0 000		
1304	E419-E420	180.00'00"D	0.00'00"	3.190	3.190	3 190	0.00'00"	20.000	3 810	0 000	0 1	22.836	ESTACAO	
1305	E420-E421	180 00'00"D	0 00'00"	2.327	2.327	2.327	0 00'00"	20.000	3.810	0.000	0 1	23 699	ESTACAO	

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Relatório dos dados da caderneta de campo

Imóvel ADJTORA DE CAPONGA

Local CASCAVEL CE

Interessado		SRF	Proprietário							Data 26/08/97					
IN	ALINH	ÂNGULO	RESIDUO	E S T A D I A			ÂNGULO	DISTÂNCIA	ALT	DIFER	COD	COD	COTA	DESCRIÇÃO	
DICE	EST	P V	HORIZONTAL	ANGULAR	SUP	MED	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO	APA	DIRETA	DO PONTO
1306	E420-1		90 00'00"D	0 00'00"	0 618	0 618	0 618	0 00'00"	9 400	1 618	0 000	1 1	0 000		
1307	E420-2		90 00'00"D	0 00'00"	0 613	0 613	0 613	0 00'00"	15 000	1 618	0 000	1 1	0 000		
1308	E420-3		270 00'00"D	0 00'00"	1 496	1 496	1 496	0 00'00"	5 000	1 618	0 000	1 1	0 000		
1309	E420-4		270 00'00"D	0 00'00"	1 411	1 411	1 411	0 00'00"	15 000	1 618	0 000	1 1	0 000		
1310	E421-E422		180.00'00"D	0 00'00"	2 403	2 403	2 403	0.00'00"	20 000	3 810	0 000	0 1	23.623	ESTACAO	
1311	E422-E423		180 00'00"D	0 00'00"	2.021	2.021	2.021	0 00'00"	20.000	3 810	0.000	0 1	24.005	ESTACAO	
1312	E422-1		90 00'00"D	0 00'00"	0 680	0 680	0 680	0 00'00"	9 600	1 680	0 000	1 1	0 000		
1313	E422-2		90 00'00"D	0 00'00"	0 670	0 670	0 670	0 00'00"	15 000	1 680	0 000	1 1	0 000		
1314	E422-3		270 00'00"D	0 00'00"	1 518	1 518	1 518	0 00'00"	5 000	1 680	0 000	1 1	0 000		
1315	E422-4		270 00'00"D	0 00'00"	1 543	1 543	1 543	0 00'00"	15 000	1 680	0 000	1 1	0 000		
1316	E423-E424		180 00'00"D	0 00'00"	1.383	1.383	1.383	0.00'00"	20 000	3 810	0 000	0 1	24.643	ESTACAO	
1317	E424-E425		180 00'00"D	0.00'00"	0.692	0.692	0 692	0.00'00"	20.000	3.810	0.000	0 1	25 334	ESTACAO	
1318	E424-1		90 00'00"D	0 00'00"	0 310	0 310	0 310	0 00'00"	13 000	1 810	0 000	1 1	0 000	B P	
1319	E424-2		90 00'00"D	0 00'00"	0 300	0 300	0 300	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1320	E424-3		270 00'00"D	0 00'00"	1 618	1 618	1 618	0 00'00"	5 000	1 810	0 000	1 1	0 000		
1321	E424-4		270 00'00"D	0 00'00"	1 446	1 446	1 446	0 00'00"	15 000	1 810	0 000	1 1	0 000		
1322	E425-E426		180 00'00"D	0.00'00"	2.873	2.873	2 873	0 00'00"	20 000	3 725	0 000	0 1	26 186	ESTACAO	
1323	E426-E427		180 00'00"D	0.00'00"	1.440	1 440	1 440	0.00'00"	20.000	3.725	0.000	0 1	27 619	ESTACAO	
1324	E426-1		90 00'00"D	0 00'00"	0 694	0 694	0 694	0 00'00"	10 400	1 710	0 000	1 1	0 000	B P	
1325	E426-2		90 00'00"D	0 00'00"	0 702	0 702	0 702	0 00'00"	15 000	1 710	0 000	1 1	0 000		
1326	E426-3		270 00'00"D	0 00'00"	1 513	1 513	1 513	0 00'00"	1 000	1 710	0 000	1 1	0 000	CERCA	
1327	E426-4		270 00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	15 000	1 710	0 000	1 1	0 000		
1328	E427-E428		180 00'00"D	0 00'00"	0 709	0 709	0 709	0.00'00"	20 000	3 725	0 000	0 1	28 350	ESTACAO	
1329	E428-E429		180 00'00"D	0 00'00"	0.870	0.870	0 870	0 00'00"	20 000	1 323	0 000	0 1	28.803	ESTACAO	
1330	E428-1		90 00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	10 800	1 610	0 000	1 1	0 000	B P	
1331	E428-2		90 00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	15 000	1 610	0 000	1 1	0 000		
1332	E428-3		270 00'00"D	0 00'00"	1 610	1 610	1 610	0 00'00"	1 000	1 610	0 000	1 1	0 000	CERCA	
1333	E428-4		270 00'00"D	0 00'00"	1 266	1 266	1 266	0 00'00"	15 000	1 610	0 000	1 1	0 000		
1334	E429-E430		180 00'00"D	0.00'00"	1.223	1.223	1.223	0.00'00"	20.000	1 323	0.000	0 1	28.450	ESTACAO	
1335	E430-E431		180 00'00"D	0 00'00"	1 808	1.808	1.808	0 00'00"	20 000	1 323	0 000	0 1	27 865	ESTACAO	
1336	E430-1		90 00'00"D	0 00'00"	1 626	1 626	1 626	0 00'00"	8 300	1 620	0 000	1 1	0 000	B P	
1337	E430-2		90 00'00"D	0 00'00"	1 611	1 611	1 611	0 00'00"	15 000	1 620	0 000	1 1	0 000		
1338	E430-3		270 00'00"D	0 00'00"	1 580	1 580	1 580	0 00'00"	2 500	1 620	0 000	1 1	0 000	CERCA	
1339	E430-4		270 00'00"D	0 00'00"	1 466	1 466	1 466	0 00'00"	15 000	1 620	0 000	1 1	0 000		
1340	E431-E432		180 00'00"D	0.00'00"	2.658	2.658	2 658	0 00'00"	20 000	1.323	0 000	0 1	27 015	ESTACAO	
1341	E432-E433		180 00'00"D	0.00'00"	3.172	3 172	3 172	0.00'00"	20.000	1.323	0 000	0 1	26.501	ESTACAO	
1342	E432-1		90 00'00"D	0 00'00"	0 613	0 613	0 613	0 00'00"	6 200	1 620	0 000	1 1	0 000		
1343	E432-2		90 00'00"D	0 00'00"	0 610	0 610	0 610	0 00'00"	15 000	1 620	0 000	1 1	0 000		
1344	E432-3		270 00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	3 800	1 620	0 000	1 1	0 000	CERCA	
1345	E432-4		270 00'00"D	0 00'00"	1 594	1 594	1 594	0 00'00"	15 000	1 620	0 000	1 1	0 000		
1346	E433-E434		180 00'00"D	0 00'00"	3 498	3.498	3.498	0.00'00"	20 000	1.323	0.000	0 1	26 175	ESTACAO	
1347	E434-E435		180.00'00"D	0.00'00"	3.731	3.731	3 731	0 00'00"	20 000	1 323	0.000	0 1	25.942	ESTACAO	
1348	E434-1		90 00'00"D	0 00'00"	0 672	0 672	0 672	0 00'00"	6 000	1 680	0 000	1 1	0 000	B P	
1349	E434-2		90 00'00"D	0 00'00"	0 694	0 694	0 694	0 00'00"	15 000	1 680	0 000	1 1	0 000		
1350	E434-3		270 00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	4 200	1 680	0 000	1 1	0 000	CERCA	

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Relatório dos dados da caderneta de campo

ADUTORA DE CAPONGA

Local CASCAVEL - CE

SRH		Proprietario							Data 26/08/97				
IN	ALINH	ÂNGULO	RESIDUO	E S T A D I A			ÂNGULO	DISTANCIA	ALT	DIPER	COD COD	COTA	DESCRICAÇÃO
	EST P V	HORIZONTAL	ANGULAR	SUP	MBD	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO APA	DIRETA	DO PONTO
	E434-4	270 00'00"D	0 00'00"	1 680	1 680	1 680	0 00'00"	15 000	1 680	0 000	1 1	0 000	
	E435-E436	180 00'00"D	0 00'00"	0 950	0.950	0.950	0 00'00"	20.000	0 564	0.000	0 1	25 556	ESTACAO
	E436-E437	180 00'00"D	0.00'00"	1 584	1.584	1.584	0.00'00"	20 000	0.564	0 000	0 1	24 922	ESTACAO
	E436-1	90 00'00"D	0 00'00"	1 108	1 108	1 108	0 00'00"	7 300	1 800	0 000	1 1	0 000	
	E436-2	90 00'00"D	0 00'00"	1 100	1 100	1 100	0 00'00"	15 000	1 800	0 000	1 1	0 000	
	E436-3	90 30'00"D	0 00'00"	1 910	1 910	1 910	0 00'00"	3 000	1 800	0 000	1 1	0 000	CERCA
	E436-4	270 00'00"D	0 00'00"	1 866	1 866	1 866	0 00'00"	15 000	1 800	0 000	1 1	0 000	
	E437-E438	180 00'00"D	0.00'00"	2.473	2.473	2.473	0.00'00"	20 000	0.564	0.000	0 1	24.033	ESTACAO
	E438-E439	180.00'00"D	0.00'00"	3.715	3.715	3.715	0 00'00"	20.000	0.564	0.000	0 1	22.791	ESTACAO
	E438-1	90 00'00"D	0 00'00"	1 000	1 000	1 000	0 00'00"	8 300	1 610	0 000	1 1	0 000	
	E438-2	90 00'00"D	0 00'00"	1 000	1 000	1 000	0 00'00"	15 000	1 610	0 000	1 1	0 000	
	E438-3	270 00'00"D	0 00'00"	1 599	1 599	1 599	0 00'00"	2 500	1 610	0 000	1 1	0 000	CERCA
	E438-4	270 00'00"D	0 00'00"	1 410	1 410	1 410	0 00'00"	15 000	1 610	0 000	1 1	0 000	
	E439-E440	180 00'00"D	0 00'00"	2.097	2.097	2.097	0.00'00"	20 000	0.508	0.000	0 1	21.202	ESTACAO
	E440-E441	180 00'00"D	0.00'00"	3.715	3.715	3.715	0.00'00"	20 000	0.508	0.000	0 1	19 584	ESTACAO
	E440-1	90 00'00"D	0 00'00"	0 721	0 721	0 721	0 00'00"	8 500	1 710	0 000	1 1	0 000	
	E440-2	90 00'00"D	0 00'00"	0 718	0 718	0 718	0 00'00"	15 000	1 710	0 000	1 1	0 000	
	E440-3	270 00'00"D	0 00'00"	1 628	1 628	1 628	0 00'00"	2 300	1 710	0 000	1 1	0 000	CERCA
	E440-4	270 00'00"D	0 00'00"	1 660	1 660	1 660	0 00'00"	15 000	1 710	0 000	1 1	0 000	
	E441-+12	173 00'00"D	0 00'00"	1 435	1.435	1.435	0 00'00"	20.000	0 362	0.000	0 1	18.511	ESTACAO
	+12-E442	175 01'30"D	0.00'00"	2 055	2.055	2.055	0.00'00"	8.000	0 362	0.000	0 1	17 891	ESTACAO
	E442-E443	180 00'00"D	0.00'00"	3.713	3 713	3 713	0 00'00"	20 000	0.362	0 000	0 1	16 233	ESTACAO
	E442-1	90 00'00"D	0 00'00"	0 680	0 680	0 680	0 00'00"	9 800	1 620	0 000	1 1	0 000	B P
374	E442-2	90 00'00"D	0 00'00"	0 700	0 700	0 700	0 00'00"	15 000	1 620	0 000	1 1	0 000	
5	E442-3	270 00'00"D	0 00'00"	1 500	1 500	1 500	0 00'00"	0 800	1 620	0 000	1 1	0 000	CERCA
	E442-4	270 00'00"D	0 00'00"	1 496	1 496	1 496	0 00'00"	15 000	1 620	0 000	1 1	0 000	
	E443-E444	180 00'00"D	0.00'00"	1.865	1 865	1 865	0.00'00"	20 000	0 168	0.000	0 1	14 536	ESTACAO
	E444-E445	180 00'00"D	0.00'00"	3.575	3.575	3 575	0 00'00"	20 000	0.168	0 000	0 1	12.826	ESTACAO
	E444-1	90 00'00"D	0 00'00"	0 700	0 700	0 700	0 00'00"	9 700	1 696	0 000	1 1	0 000	B P
	E444-2	90 00'00"D	0 00'00"	0 711	0 711	0 711	0 00'00"	15 000	1 696	0 000	1 1	0 000	
	E444-3	270 00'00"D	0 00'00"	1 599	1 599	1 599	0 00'00"	1 000	1 696	0 000	1 1	0 000	CERCA
	E444-4	270 00'00"D	0 00'00"	1 478	1 478	1 478	0 00'00"	15 000	1 696	0 000	1 1	0 000	
	E445-E446	180 00'00"D	0.00'00"	2.129	2 129	2 129	0 00'00"	20 000	0.367	0 000	0 1	11 064	ESTACAO
	E446-E447	180 00'00"D	0 00'00"	3 850	3.850	3.850	0 00'00"	20 000	0.367	0 000	0 1	9.343	ESTACAO
	E446-1	90 00'00"D	0 00'00"	0 612	0 612	0 612	0 00'00"	9 200	1 810	0 000	1 1	0 000	B P
	E446-2	90 00'00"D	0 00'00"	0 612	0 612	0 612	0 00'00"	15 000	1 810	0 000	1 1	0 000	
	E446-3	270 00'00"D	0 00'00"	1 711	1 711	1 711	0 00'00"	1 000	1 810	0 000	1 1	0 000	
	E446-4	270 00'00"D	0 00'00"	1 466	1 466	1 466	0 00'00"	15 000	1 810	0 000	1 1	0 000	
	E447-E448	180.00'00"D	0.00'00"	1.929	1 929	1 929	0 00'00"	20.000	0.379	0 000	0 1	7.793	ESTACAO
	E448-E449	180 00'00"D	0 00'00"	3 300	3.300	3.300	0 00'00"	20.000	0.379	0 000	0 1	6.422	ESTACAO
	E448-1	90 00'00"D	0 00'00"	0 656	0 656	0 656	0 00'00"	9 200	1 680	0 000	1 1	0 000	B P
	E448-2	90 00'00"D	0 00'00"	0 644	0 644	0 644	0 00'00"	15 000	1 680	0 000	1 1	0 000	
1393	E448-3	270 00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	1 000	1 680	0 000	1 1	0 000	
1394	E448-4	270 00'00"D	0 00'00"	1 560	1 560	1 560	0 00'00"	15 000	1 680	0 000	1 1	0 000	
1395	E449-E450	180 00'00"D	0 00'00"	1.663	1.663	1.663	0 00'00"	20.000	0 691	0.000	0 1	5.450	ESTACAO

Relatório dos dados da caderneta de campo

Nível ADUTORA DE CAPONGA

Local CASCAVEL - CE

Interessado SRF

Proprietário

Data 26/08/97

IN	ALINH		ÂNGULO HORIZONTAL	RESIDUO ANGULAR	E S T A D I A			ÂNGULO VERTICAL	DISTÂNCIA INFORMADA	ALT APA	DIFER NIVEL	COD COD		COTA DIRETA	DESCRIÇÃO DO PONTO
	BST	P V			SUP	MED	INF					PTO	APA		
1398	E450-19.2	180	00'00"D	0.00'00"	2.554	2.554	2.554	0 00'00"	19.200	0.691	0 000	0 1	4.559	ESTACAO	
1397	E450-1	90	00'00"D	0 00'00"	0 815	0 815	0 815	0 00'00"	9 100	1 815	0 000	1 1	0 000		
1398	E450-2	90	00'00"D	0 00'00"	0 800	0 800	0 800	0 00'00"	15 000	1 815	0 000	1 1	0 000		
1399	E450-3	270	00'00"D	0 00'00"	1 810	1 810	1 810	0 00'00"	1 000	1 815	0 000	1 1	0 000	CERCA	
1400	E450-4	270	00'00"D	0 00'00"	1 794	1 794	1 794	0 00'00"	15 000	1 815	0 000	1 1	0 000		
1401	18.2-E451	272	03'30"D	0.00'00"	2.541	2.541	2 541	0 00'00"	0.800	0.691	0 000	0 1	4.572	ESTACAO	
1402	E451-E452	180	00'00"D	0 00'00"	2.052	2.052	2.052	0 00'00"	20 000	1 840	0 000	0 1	4.360	ESTACAO	
1403	E452-E453	180	00'00"D	0 00'00"	0.860	0.860	0.860	0.00'00"	20.000	0.549	0 000	0 1	4.049	ESTACAO	
1404	E452-1	90	00'00"D	0 00'00"	1 422	1 422	1 422	0 00'00"	5 000	1 472	0 000	1 1	0 000		
1405	E452-2	90	00'00"D	0 00'00"	1 411	1 411	1 411	0 00'00"	15 000	1 472	0 000	1 1	0 000		
1406	E452-3	270	00'00"D	0 00'00"	1 466	1 466	1 466	0 00'00"	5 000	1 472	0 000	1 1	0 000		
1407	E452-4	270	00'00"D	0 00'00"	1 510	1 510	1 510	0 00'00"	15 000	1 472	0 000	1 1	0 000		
1408	E453-E454	180	00'00"D	0 00'00"	1.018	1.018	1.018	0.00'00"	20 000	0 549	0.000	0 1	3.891	ESTACAO	
1409	E454-E455	180	00'00"D	0.00'00"	1.253	1.253	1.253	0.00'00"	20 000	0 549	0.000	0 1	3.656	ESTACAO	
1410	E454-1	90	00'00"D	0 00'00"	1 500	1 500	1 500	0 00'00"	5 000	1 511	0 000	1 1	0 000		
1411	E454-2	90	00'00"D	0 00'00"	1 494	1 494	1 494	0 00'00"	15 000	1 511	0 000	1 1	0 000		
1412	E454-3	270	00'00"D	0 00'00"	1 500	1 500	1 500	0 00'00"	5 000	1 511	0 000	1 1	0 000		
1413	E454-4	270	00'00"D	0 00'00"	1 466	1 466	1 466	0 00'00"	15 000	1 511	0 000	1 1	0 000		
1414	E455-E456	180	00'00"D	0 00'00"	1 513	1.513	1 513	0 00'00"	20 000	0 549	0 000	0 1	3 396	ESTACAO	
1415	E456-E457	180	00'00"D	0.00'00"	1.562	1.562	1 562	0 00'00"	20 000	0 549	0 000	0 1	3.347	ESTACAO	
1416	E456-1	90	00'00"D	0 00'00"	1 608	1 608	1 608	0 00'00"	5 000	1 611	0 000	1 1	0 000		
1417	E456-2	90	00'00"D	0 00'00"	1 662	1 662	1 662	0 00'00"	15 000	1 611	0 000	1 1	0 000		
1418	E456-3	270	00'00"D	0 00'00"	1 580	1 580	1 580	0 00'00"	5 000	1 611	0 000	1 1	0 000		
1419	E456-4	270	00'00"D	0 00'00"	1 496	1 496	1 496	0 00'00"	10 000	1 611	0 000	1 1	0 000		
1420	E457-E458	180	00'00"D	0.00'00"	1.603	1 603	1 603	0 00'00"	20 000	0 549	0 000	0 1	3.306	ESTACAO	
1421	E458-E459	180	00'00"D	0 00'00"	1 678	1 678	1.678	0 00'00"	20.000	0.549	0 000	0 1	3.231	ESTACAO	
1422	E458-1	90	00'00"D	0 00'00"	1 511	1 511	1 511	0 00'00"	5 000	1 503	0 000	1 1	0 000		
1423	E458-2	90	00'00"D	0 00'00"	1 600	1 600	1 600	0 00'00"	15 000	1 503	0 000	1 1	0 000		
1424	E458-3	270	00'00"D	0 00'00"	1 494	1 494	1 494	0 00'00"	5 000	1 503	0 000	1 1	0 000		
1425	E458-4	270	00'00"D	0 00'00"	1 387	1 387	1 387	0 00'00"	15 000	1 503	0 000	1 1	0 000		
1426	E459-E460	180	00'00"D	0 00'00"	1 645	1.645	1 645	0.00'00"	20 000	0 549	0.000	0 1	3 264	ESTACAO	
1427	E460-E461	180	00'00"D	0.00'00"	1.688	1.688	1 688	0 00'00"	20 000	0 549	0 000	0 1	3 221	ESTACAO	
1428	E460-1	90	00'00"D	0 00'00"	1 510	1 510	1 510	0 00'00"	5 000	1 473	0 000	1 1	0 000		
1429	E460-2	90	00'00"D	0 00'00"	1 560	1 560	1 560	0 00'00"	15 000	1 473	0 000	1 1	0 000		
1430	E460-3	270	00'00"D	0 00'00"	1 411	1 411	1 411	0 00'00"	5 000	1 473	0 000	1 1	0 000		
1431	E460-4	270	00'00"D	0 00'00"	1 394	1 394	1 394	0 00'00"	15 000	1 473	0 000	1 1	0 000		
1432	E461-E462	180	00'00"D	0.00'00"	1.708	1.708	1 708	0 00'00"	20 000	0.549	0 000	0 1	3.201	ESTACAO	
1433	E462-E463	180	00'00"D	0 00'00"	1.372	1 372	1 372	0 00'00"	20.000	1.421	0 000	0 1	3.250	ESTACAO	
1434	E462-1	90	00'00"D	0 00'00"	1 500	1 500	1 500	0 00'00"	5 000	1 450	0 000	1 1	0 000		
1435	E462-2	90	00'00"D	0 00'00"	1 556	1 556	1 556	0 00'00"	15 000	1 450	0 000	1 1	0 000		
1436	E462-3	270	00'00"D	0 00'00"	1 131	1 131	1 131	0 00'00"	5 000	1 450	0 000	1 1	0 000		
1437	E462-4	270	00'00"D	0 00'00"	1 396	1 396	1 396	0 00'00"	15 000	1 450	0 000	1 1	0 000		
1438	E463-E464	180	00'00"D	0 00'00"	1 347	1 347	1.347	0 00'00"	20.000	1.421	0 000	0 1	3 275	ESTACAO	
1439	E464-E465	180	00'00"D	0 00'00"	1 303	1 303	1.303	0 00'00"	20.000	1.421	0 000	0 1	3.319	ESTACAO	
1440	E464-1	90	00'00"D	0 00'00"	1 537	1 537	1 537	0 00'00"	5 000	1 507	0 000	1 1	0 000		



Relatório dos dados da caderneta de campo

Imóvel ADUTORA DE CAPONGA Local CASCAVEL CE

Interessado	SRH	Proprietário										Data	26/08/97
IN	ALINH	ANGULO	RESIDUO	E S T A D I A			ANGULO	DISTANCIA	ALT	DIFER	COD COD	COTA	DBSCRIÇÃO
DI. C. R.	EST P V	HORIZONTAL	ANGULAR	SUP	MED	INF	VERTICAL	INFORMADA	APA	NIVEL	PTO APA	DIRBTA	DO PONTO
1441	E464-2	90 00'00"D	0 00'00"	1 581	1 581	1 581	0 00'00"	15 000	1 507	0 000	1 1	0 000	
1442	E464-3	270 00'00"D	0 00'00"	1 464	1 464	1 464	0 00'00"	5 000	1 507	0 000	1 1	0 000	
1443	E464-4	270 00'00"D	0 00'00"	1 411	1 411	1 411	0 00'00"	15 000	1 507	0 000	1 1	0 000	
1444	E465-E466	180 00'00"D	0.00'00"	1.383	1 383	1.383	0.00'00"	20.000	1 421	0.000	0 1	3.239	ESTACAO
1445	E466-E467	180 00'00"D	0 00'00"	1.308	1 308	1 308	0 00'00"	20 000	1.421	0.000	0 1	3.314	ESTACAO
1446	E466-1	90 00'00"D	0 00'00"	1 532	1 532	1 532	0 00'00"	5 000	1 510	0 000	1 1	0 000	
1447	E466-2	90 00'00"D	0 00'00"	1 566	1 566	1 566	0 00'00"	15 000	1 510	0 000	1 1	0 000	
1448	E466-3	270 00'00"D	0 00'00"	1 466	1 466	1 466	0 00'00"	5 000	1 510	0 000	1 1	0 000	
1449	E466-4	270 00'00"D	0 00'00"	1 468	1 468	1 468	0 00'00"	15 000	1 510	0 000	1 1	0 000	
1450	E467-E468	180.00'00"D	0.00'00"	1.483	1.483	1.483	0.00'00"	20.000	1 421	0 000	0 1	3 139	ESTACAO
1451	E468-E469	180 00'00"D	0.00'00"	1.465	1 465	1.465	0.00'00"	20.000	1.421	0.000	0 1	3.157	ESTACAO
1452	E468-1	90 00'00"D	0 00'00"	1 599	1 599	1 599	0 00'00"	5 000	1 513	0 000	1 1	0 000	
1453	E468-2	90 00'00"D	0 00'00"	1 626	1 626	1 626	0 00'00"	15 000	1 513	0 000	1 1	0 000	
1454	E468-3	270 00'00"D	0 00'00"	1 460	1 460	1 460	0 00'00"	5 000	1 513	0 000	1 1	0 000	
1455	E468-4	270 00'00"D	0 00'00"	1 422	1 422	1 422	0 00'00"	15 000	1 513	0 000	1 1	0 000	
1456	E469-E470	180 00'00"D	0 00'00"	1.605	1 605	1 605	0 00'00"	20 000	1.421	0 000	0 1	3.017	ESTACAO
1457	E470-E471	180.00'00"D	0 00'00"	1 643	1.643	1 643	0.00'00"	20.000	1.421	0 000	0 1	2.979	ESTACAO
1458	E470-1	90 00'00"D	0 00'00"	1 613	1 613	1 613	0 00'00"	5 000	1 507	0 000	1 1	0 000	
1459	E470-2	90 00'00"D	0 00'00"	1 668	1 668	1 668	0 00'00"	15 000	1 507	0 000	1 1	0 000	
1460	E470-3	270 00'00"D	0 00'00"	1 506	1 506	1 506	0 00'00"	5 000	1 507	0 000	1 1	0 000	
1461	E470-4	270 00'00"D	0 00'00"	1 457	1 457	1 457	0 00'00"	15 000	1 507	0 000	1 1	0 000	
1462	E471-E472	180 00'00"D	0.00'00"	1 846	1 846	1.846	0.00'00"	20.000	1 838	0.000	0 1	2 971	ESTACAO
1463	E472-E473	180 00'00"D	0.00'00"	1.818	1 818	1.818	0 00'00"	20.000	1 838	0.000	0 1	2 999	ESTACAO
1464	E472-1	90 00'00"D	0 00'00"	1 563	1 563	1 563	0 00'00"	5 000	1 417	0 000	1 1	0 000	
1465	E472-2	90 00'00"D	0 00'00"	1 563	1 563	1 563	0 00'00"	15 000	1 417	0 000	1 1	0 000	
1466	E472-3	270 00'00"D	0 00'00"	1 400	1 400	1 400	0 00'00"	5 000	1 417	0 000	1 1	0 000	
1467	E472-4	270 00'00"D	0 00'00"	1 355	1 355	1 355	0 00'00"	15 000	1 417	0 000	1 1	0 000	
1468	E473-E474	180 00'00"D	0.00'00"	1.489	1 489	1.489	0 00'00"	20 000	1.838	0.000	0 1	3.328	ESTACAO
1469	E474-E475	129 19'50"D	0 00'00"	0 822	0 822	0 822	0 00'00"	20 000	1.838	0 000	0 1	3 995	ESTACAO
1470	E474-1	90 00'00"D	0 00'00"	1 477	1 477	1 477	0 00'00"	5 000	1 513	0 000	1 1	0 000	
1471	E474-2	90 00'00"D	0 00'00"	1 468	1 468	1 468	0 00'00"	15 000	1 513	0 000	1 1	0 000	
1472	E474-3	270 00'00"D	0 00'00"	1 550	1 550	1 550	0 00'00"	5 000	1 513	0 000	1 1	0 000	
1473	E474-4	270 00'00"D	0 00'00"	1 518	1 518	1 518	0 00'00"	15 000	1 513	0 000	1 1	0 000	
1474	E475-E476	180 00'00"D	0 00'00"	0.295	0 295	0 295	0 00'00"	20 000	1.838	0 000	0 1	4.522	ESTACAO
1475	E476-+4	180 00'00"D	0 00'00"	2 492	2.492	2 492	0 00'00"	4 000	2.698	0 000	0 1	4.728	ESTACAO
1476	E476-1	90 00'00"D	0 00'00"	1 366	1 366	1 366	0 00'00"	3 000	1 810	0 000	1 1	0 000	CERCA
1477	E476-2	90 00'00"D	0 00'00"	1 211	1 211	1 211	0 00'00"	15 000	1 810	0 000	1 1	0 000	
1478	E476-3	270 00'00"D	0 00'00"	1 870	1 870	1 870	0 00'00"	4 000	1 810	0 000	1 1	0 000	CERCA
1479	E476-4	270 00'00"D	0 00'00"	2 000	2 000	2 000	0 00'00"	15 000	1 810	0 000	1 1	0 000	
1480	+4-E477	180 00'00"D	0 00'00"	2.015	2.015	2 015	0 00'00"	16 000	2.698	0 000	0 1	5.205	ESTACAO
1481	E477-E478	180.00'00"D	0.00'00"	1 308	1.308	1 308	0.00'00"	20 000	2 698	0 000	0 1	5.912	ESTACAO
1482	E478-E479	180 00'00"D	0 00'00"	0.803	0 803	0 803	0 00'00"	20 000	2.698	0.000	0 1	6 417	ESTACAO
1483	E478-1	90 00'00"D	0 00'00"	1 711	1 711	1 711	0 00'00"	3 000	1 916	0 000	1 1	0 000	CERCA
1484	E478-2	90 00'00"D	0 00'00"	0 894	0 894	0 894	0 00'00"	15 000	1 916	0 000	1 1	0 000	
1485	E478-3	270 00'00"D	0 00'00"	1 866	1 866	1 866	0 00'00"	2 000	1 916	0 000	1 1	0 000	CERCA

Relatório dos dados da caderneta de campo

ADUTORA DE CAPONGA

Local CASCAVEL - CE

SRH

Proprietario

Data 26/08/97

IN	ALINH		ÂNGULO HORIZONTAL	RESIDUO ANGULAR	E S T A D I A			ÂNGULO VERTICAL	DISTANCIA INFORMADA	ALT APA	DIFER NIVEL	COD COD		COTA DIRETA	DESCRICAÇÃO DO PONTO
	EST	P V			SUP	MED	INF					PTO	APA		
1484	E478-4		270 00'00"D	0 00'00"	0 000	0 000	0 000	0 00'00"	15 000	1 916	0 000	1 1	0 000		
1487	E479-E480		180.00'00"D	0.00'00"	2.909	2.909	2.909	0.00'00"	20.000	3 569	0 000	0 1	7.077	ESTACAO	
	E480-E481		180 00'00"D	0.00'00"	2.038	2 038	2.038	0.00'00"	20 000	3 569	0 000	0 1	7.948	ESTACAO	
	E480-1		90 00'00"D	0 00'00"	1 261	1 261	1 261	0 00'00"	3 500	1 866	0 000	1 1	0 000	CERCA	
1490	E480-2		90 00'00"D	0 00'00"	0 620	0 620	0 620	0 00'00"	15 000	1 866	0 000	1 1	0 000		
1491	E480-3		270 00'00"D	0 00'00"	1 890	1 890	1 890	0 00'00"	1 500	1 866	0 000	1 1	0 000	CERCA	
1492	E480-4		90 00'00"D	0 00'00"	1 900	1 900	1 900	0 00'00"	6 000	1 866	0 000	1 1	0 000		
1493	E480-5		270 00'00"D	0 00'00"	0 000	0 000	0 000	0 00'00"	11 800	1 866	0 000	1 1	0 000		
1494	E481-E482		180 00'00"D	0.00'00"	1.326	1.326	1.326	0.00'00"	20.000	3.569	0.000	0 1	8.660	ESTACAO	
	E482-E483		180 00'00"D	0.00'00"	0.777	0 777	0.777	0.00'00"	20.000	3 569	0 000	0 1	9.209	ESTACAO	
1496	E482-1		90 00'00"D	0 00'00"	1 800	1 800	1 800	0 00'00"	3 500	2 060	0 000	1 1	0 000	CERCA	
1497	E482-2		90 00'00"D	0 00'00"	1 007	1 007	1 007	0 00'00"	15 000	2 060	0 000	1 1	0 000		
1498	E482-3		270 00'00"D	0 00'00"	1 994	1 994	1 994	0 00'00"	1 000	2 060	0 000	1 1	0 000	CERCA	
1499	E482-4		270 00'00"D	0 00'00"	1 300	1 300	1 300	0 00'00"	8 000	2 060	0 000	1 1	0 000		
1500	E482-5		270 00'00"D	0 00'00"	0 000	0 000	0 000	0 00'00"	11 000	2 060	0 000	1 1	0 000		
1501	E483-E484		180 00'00"D	0.00'00"	0.130	0 130	0.130	0.00'00"	20.000	3 569	0 000	0 1	9.856	ESTACAO	
1502	E484-+13		180 00'00"D	0.00'00"	2.162	2.162	2.162	0 00'00"	13.000	2 872	0.000	0 1	10.566	ESTACAO	
1503	E484-1		90 00'00"D	0 00'00"	1 913	1 913	1 913	0 00'00"	3 000	2 116	0 000	1 1	0 000	CERCA	
1504	E484-2		90 00'00"D	0 00'00"	0 887	0 887	0 887	0 00'00"	15 000	2 116	0 000	1 1	0 000		
1505	E484-3		270 00'00"D	0 00'00"	2 066	2 066	2 066	0 00'00"	1 000	2 116	0 000	1 1	0 000	CERCA	
1506	E484-4		270 00'00"D	0 00'00"	1 300	1 300	1 300	0 00'00"	6 000	2 116	0 000	1 1	0 000		
1507	E484-5		270 00'00"D	0 00'00"	0 000	0 000	0 000	0 00'00"	10 800	2 116	0 000	1 1	0 000	DUNA	
1508	+13-E485		205 22'05"D	0.00'00"	1.293	1 293	1 293	0.00'00"	7 000	2 872	0.000	0 1	11.435	ESTACAO	
1509	E485-E486		180 00'00"D	0 00'00"	1.183	1 183	1 183	0.00'00"	20.000	2 872	0 000	0 1	11 545	ESTACAO	
1510	E486-E487		180 00'00"D	0 00'00"	0 170	0.170	0 170	0 00'00"	20 000	3.962	0 000	0 1	15 337	ESTACAO	
1511	E486-1		90 00'00"D	0 00'00"	2 000	2 000	2 000	0 00'00"	5 000	2 116	0 000	1 1	0 000		
1512	E486-2		90 00'00"D	0 00'00"	2 610	2 610	2 610	0 00'00"	15 000	2 110	0 000	1 1	0 000		
1513	E486-3		270 00'00"D	0 00'00"	1 610	1 610	1 610	0 00'00"	5 000	2 110	0 000	1 1	0 000		
1514	E486-4		270 00'00"D	0 00'00"	0 312	0 312	0 312	0 00'00"	15 000	2 110	0 000	1 1	0 000		
1515	E487-E488		180 00'00"D	0.00'00"	2.410	2.410	2.410	0 00'00"	20 000	3 924	0.000	0 1	13.097	ESTACAO	
1516	E488-E489		180 00'00"D	0.00'00"	1.645	1 645	1.645	0 00'00"	20 000	3 924	0.000	0 1	13.862	ESTACAO	
1517	E488-1		90 00'00"D	0 00'00"	2 116	2 116	2 116	0 00'00"	5 000	1 813	0 000	1 1	0 000		
1518	E488-2		90 00'00"D	0 00'00"	3 190	3 190	3 190	0 00'00"	15 000	1 813	0 000	1 1	0 000		
1519	E488-3		270 00'00"D	0 00'00"	1 200	1 200	1 200	0 00'00"	5 000	1 813	0 000	1 1	0 000		
1520	E488-4		270 00'00"D	0 00'00"	0 311	0 311	0 311	0 00'00"	15 000	1 813	0 000	1 1	0 000		
1521	E489-11.2		205 22'05"D	0 00'00"	0.689	0 689	0 689	0.00'00"	11 200	3 924	0.000	0 1	14.818	ESTACAO	



KL - Serviços e Engenharia Ltda

- Coordenadas dos Pontos

**Relatório das coordenadas de todos os pontos.**

ADUTORA DE CAPONGA

Local CASCAVEL - CE

SRF		Proprietário										Data 26/08/97			
LN	ALINHAMEN	AZIMUTE		DISTANCIA		LONG PARC		LMT PARC		COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST F V	COMPENSADO	R U M O	DE	HORIZONTAL	X	Y	W	S	F V	TOT	COMPENS	TOT	COMPENS	DO PONTO
1	E0-E1	32	15'00"	32	15'00"	NE	20,000	10,6723	16,9146	E1	583 682,6036	9 546 262,4645	4,250		
2	E0-1	302	15'00"	57	45'00"	NW	2 000	-1 6915	1 0672	1	583 670,2398	9 546 246 6171	5,143		
3	E0-2	302	15'00"	57	45'00"	NW	15 000	-12 6859	8,0042	2	583 659,2454	9 546 253,5541	5,100		
4	E0-3	122	15'00"	57	45'00"	SE	1,500	1 2686	-0,6004	3	583 673,1999	9 546 244,7495	5,361		
5	E0-4	122	15'00"	57	45'00"	SE	5 500	4 6515	-2 9349	4	583 676 5828	9 546 242 6150	8,245		
6	E0-5	122	15'00"	57	45'00"	SE	7 000	5 9201	3 7353	5	583 677,8514	9 546 241 8146	7,961		
7	E0-6	122	15'00"	57	45'00"	SE	15 000	12 6859	-8 0042	6	583 684 6172	9 546 237,5457	8 419		
8	E1-E2	32	15'00"	32	15'00"	NE	20,000	10,6723	16,9146	E2	583 693,2759	9 546 279,3791	4,813		
9	E2-E3	32	15'00"	32	15'00"	NE	20,000	10,6723	16,9146	E3	583 703,9482	9 546 296,2937	5,208		
10	E2-1	302	15'00"	57	45'00"	NW	2 000	-1,6915	1 0672	1	583 691 5844	9 546 280,4463	4,763		
11	E2-2	302	15'00"	57	45'00"	NW	15,000	-12,6859	8,0042	2	583 680,5900	9 546 287,3833	4,829		
12	E2-3	122	15'00"	57	45'00"	SE	2,000	1 6915	-1,0672	3	583 694,9674	9 546 278,3119	4 907		
13	E2-4	122	15'00"	57	45'00"	SE	5,500	4 6515	-2,9349	4	583 697 9274	9 546 276,4442	6,843		
14	E2-5	122	15'00"	57	45'00"	SE	7,000	5 9201	-3 7353	5	583 699,1960	9 546 275,6438	7,003		
15	E2-6	122	15'00"	57	45'00"	SE	15 000	12,6859	-8 0042	6	583 705 9618	9 546 271 3749	6,997		
16	E3-E4	32	15'00"	32	15'00"	NE	20,000	10,6723	16,9146	E4	583 714,6205	9 546 313,2083	5,764		
17	E4-E5	32	15'00"	32	15'00"	NE	20,000	10,6723	16,9146	E5	583 725,2928	9 546 330,1229	5,835		
18	E4-1	302	15'00"	57	45'00"	NW	2 000	-1 6915	1 0672	1	583 712,9290	9 546 314,2755	5,744		
19	E4-2	302	15'00"	57	45'00"	NW	15 000	-12 6859	8 0042	2	583 701 9346	9 546 321 2125	5,703		
20	E4-3	122	15'00"	57	45'00"	SE	2 000	1 6915	-1 0672	3	583 716,3120	9 546 312,1411	5 684		
21	E4-4	122	15'00"	57	45'00"	SE	5 500	4 6515	-2 9349	4	583 719,3566	9 546 310,2201	6 674		
22	E4-5	122	15'00"	57	45'00"	SE	7 000	5 9201	-3 7353	5	583 720 5406	9 546 309 4730	6 923		
23	E4-6	122	15'00"	57	45'00"	SE	15 000	12 6859	-8 0042	6	583 727 3084	9 546 305,2041	6 856		
24	E5-E6	32	15'00"	32	15'00"	NE	20,000	10 6723	16,9146	E6	583 735,9651	9 546 347,0375	6,033		
25	E6-E7	32	15'00"	32	15'00"	NE	20,000	10,6723	16,9146	E7	583 746,6374	9 546 363,9521	6,255		
26	E6-1	302	15'00"	57	45'00"	NW	2 000	-1 6915	1 0672	1	583 734 2736	9 546 346,1047	6,073		
27	E6-2	302	15'00"	57	45'00"	NW	15 000	-12 6859	8 0042	2	583 723 2792	9 546 355,0417	6 033		
28	E6-3	122	15'00"	57	45'00"	SE	3 100	2 8218	1 6042	3	583 738 8869	9 546 345 3833	6 183		
29	E6-4	122	15'00"	57	45'00"	SE	5 500	4 6515	2 9349	4	583 740 8166	9 546 344 1026	6 873		
30	E6-5	122	15'00"	57	45'00"	SE	7 000	5 9201	3 7353	5	583 741 8852	9 546 343 3022	6 971		
31	E6-6	122	15'00"	57	45'00"	SE	15 000	12 6859	-8 0042	6	583 748 6510	9 546 339 0333	6 693		
32	E7-E8	32	15'00"	32	15'00"	NE	20,000	10,6723	16,9146	E8	583 757,3097	9 546 380,8667	6,340		
33	E8-E9	32	15'00"	32	15'00"	NE	20,000	10,6723	16,9146	E9	583 767,9820	9 546 397,7813	6,452		
34	E8-1	302	15'00"	57	45'00"	NW	2 000	-1,6915	1 0672	1	583 755 6182	9 546 381 9339	6 274		
35	E8-2	302	15'00"	57	45'00"	NW	15 000	-12 6859	8 0042	2	583 744 6236	9 546 388 8709	6 249		
36	E8-3	122	15'00"	57	45'00"	SE	3 300	2 7909	-1 7309	3	583 768 1006	9 546 379,1058	6 560		
37	E8-4	122	15'00"	57	45'00"	SE	7 000	5 9201	-3 7353	4	583 763 2298	9 546 377,1314	7 238		
38	E8-5	122	15'00"	57	45'00"	SE	15 000	12 6859	-8 0042	5	583 769 9956	9 546 372 8625	7 225		
39	E9-E10	32	15'00"	32	15'00"	NE	20,000	10,6723	16,9146	E10	583 778,6543	9 546 414,6959	6,657		
40	E10-E11	32	15'00"	32	15'00"	NE	20,000	10,6723	16,9146	E11	583 789,3266	9 546 431,6105	6,834		
41	E10-1	302	15'00"	57	45'00"	NW	2 000	-1 6915	1 0672	1	583 776 9628	9 546 415,7631	6 567		
42	E10-2	302	15'00"	57	45'00"	NW	15 000	-12 6859	8 0042	2	583 765 9684	9 546 422,7001	6 573		
43	E10-3	122	15'00"	57	45'00"	SE	3 300	2 7909	-1 7309	3	583 781 4452	9 546 412 9350	6 767		
44	E10-4	122	15'00"	57	45'00"	SE	5 500	4 6515	-2 9349	4	583 783 3058	9 546 411,7610	7 807		
45	E10-5	122	15'00"	57	45'00"	SE	7 000	5 9201	3 7353	5	583 784 5744	9 546 410 9606	7 951		

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Relatório das coordenadas de todos os pontos.

ADUTORIA DE CANGA

Local: CASCAVEL - CE

ADUTORIA DE CANGA		Local: CASCAVEL - CE										Data: 26/09/97									
Proprietário																					
NO	ALINHAMENTO	AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)							
DATE	EST	P	V	COMENSADO	R	U	M	QD	HORIZONTAL	X	E+	W-	Y	N+	S-	P	TOT	COMPENS	TOT	COMPENS	DO PONTO
46	E10-6			122 15'00"	57 45'00"	SE	15,000		12 6859	-8 0042	6	583 791,3402	9 546 406 6917								7,907
47	E11-E12			32 15'00"	32 15'00"	NE	20,000		10,6723	16,9146	E12	583 799,9989	9 546 448,5251								7,042
48	E12-E13			32 15'00"	32 15'00"	NE	20,000		10 6723	16,9146	E13	583 810,6712	9 546 465,4397								7,380
49	E12-1			332 15'00"	57 45'00"	NW	2 000		-1 6915	1 0672	1	583 798 3074	9 546 449,5923								7 000
50	E12-2			332 15'00"	57 45'00"	NW	15,000		-12 6859	8,0042	2	583 787 3130	9 546 456,5293								6,988
51	E12-3			122 15'00"	57 45'00"	SE	3,200		2,7063	-1,7076	3	583 802 7052	9 546 446 8175								7,211
52	E12-4			122 15'00"	57 45'00"	SE	5,500		4,6515	-2,9349	4	583 804,6504	9 546 445,5902								8,422
53	E12-5			122 15'00"	57 45'00"	SE	7,000		5,9201	-3,7353	5	583 805,9190	9 546 444,7898								5,922
54	E12-6			122 15'00"	57 45'00"	SE	15 000		12 6859	-8,0042	6	583 812,6848	9 546 440,5209								8,407
55	E13-E14			32 15'00"	32 15'00"	NE	20,000		10,6723	16,9146	E14	583 821,3435	9 546 482,3543								7,607
56	E14-E15			32 15'00"	32 15'00"	NE	20,000		10,6723	16,9146	E15	583 832,0158	9 546 499,2689								7,951
57	E14-1			332 15'00"	57 45'00"	NW	2 000		-1 6915	1 0672	1	583 819,6520	9 546 483 4215								7,706
58	E14-2			332 15'00"	57 45'00"	NW	15 000		-12,6859	8,0042	2	583 808 6576	9 546 490 3585								7,556
59	E14-3			122 15'00"	57 45'00"	SE	3,200		2,7063	-1,7076	3	583 824 0498	9 546 480,6467								7,817
60	E14-4			122 15'00"	57 45'00"	SE	7 000		5 9201	-3,7353	4	583 827,2636	9 546 478,6190								9,057
61	E14-5			122 15'00"	57 45'00"	SE	15,000		12,6859	-8,0042	5	583 834,0294	9 546 474,3501								9,117
62	E15-E16			32 15'00"	32 15'00"	NE	20,000		10,6723	16,9146	E16	583 842,6881	9 546 516,1835								8,407
63	E16-E17			32 15'00"	32 15'00"	NE	20,000		10,6723	16,9146	E17	583 853,3604	9 546 533,0981								9,132
64	E16-1			332 15'00"	57 45'00"	NW	2 000		-1 6915	1 0672	1	583 840 3966	9 546 517 2507								8 361
65	E16-2			332 15'00"	57 45'00"	NW	15 000		-12 6859	8 0042	2	583 839 0022	9 546 524,1877								8,314
66	E16-3			122 15'00"	57 45'00"	SE	3 500		2 9600	-1 6677	3	583 845 6481	9 546 511 3158								8 719
67	E16-4			122 15'00"	57 45'00"	SE	7 000		5 9201	-3 7353	4	583 848 6082	9 546 510,4482								9 711
68	E17-E18			32 15'00"	32 15'00"	NE	20,000		10,6723	16,9146	E18	583 864,0327	9 546 550,0127								9,661
69	E18-E19			32 15'00"	32 15'00"	NE	20,000		10,6723	16,9146	E19	583 874,7050	9 546 566,9273								10,110
70	E18-1			332 15'00"	57 45'00"	NW	2 000		-1 6915	1 0672	1	583 862 3412	9 546 531 0799								9 499
71	E18-2			332 15'00"	57 45'00"	NW	15 000		-12 6859	8 0042	2	583 851 3468	9 546 538 0169								9 654
72	E18-3			122 15'00"	57 45'00"	SE	3 200		2 7063	-1 7076	3	583 868 8236	9 546 548 2518								10 206
73	E18-4			122 15'00"	57 45'00"	SE	7 000		5 9201	-3 7353	4	583 869 9528	9 546 546 2774								10 355
74	E18-5			122 15'00"	57 45'00"	SE	15 000		12 6859	-8 0042	5	583 874 7184	9 546 542 0085								10 321
75	E19-E20			32 15'00"	32 15'00"	NE	20,000		10,6723	16,9146	E20	583 885,3773	9 546 583,8419								10,535
76	E20-E21			32 15'00"	32 15'00"	NE	20,000		10,6723	16,9146	E21	583 896,0496	9 546 600,7565								10,594
77	E20-1			332 15'00"	57 45'00"	NW	2,000		-1 6915	1 0672	1	583 883 6658	9 546 584 9091								10 585
78	E20-2			332 15'00"	57 45'00"	NW	15,000		-12 6859	8,0042	2	583 872 6914	9 546 591 8461								10 649
79	E20-3			122 15'00"	57 45'00"	SE	3 600		3 0446	-1 9210	3	583 888 4219	9 546 581 9209								10 879
80	E20-4			122 15'00"	57 45'00"	SE	7 000		5 9201	-3 7353	4	583 891 2974	9 546 580 1966								11 151
81	E20-5			122 15'00"	57 45'00"	SE	15,000		12,6859	-8 0042	5	583 898,0632	9 546 575,8377								11 157
82	E21-E22			32 15'00"	32 15'00"	NE	20,000		10,6723	16,9146	E22	583 906,7219	9 546 617,6711								10,745
83	E22-E23			32 15'00"	32 15'00"	NE	20,000		10,6723	16,9146	E23	583 917,3942	9 546 634,5857								10,825
84	E22-1			332 15'00"	57 45'00"	NW	2,000		-1 6915	1 0672	1	583 905,0304	9 546 613,7363								10 655
85	E22-2			332 15'00"	57 45'00"	NW	15,000		-12 6859	8,0042	2	583 894 0360	9 546 625 6753								10 655
86	E22-3			122 15'00"	57 45'00"	SE	3 000		2 5372	-1 6676	3	583 909,2591	9 546 616,0703								10,825
87	E22-4			122 15'00"	57 45'00"	SE	7 000		5 9201	-3 7353	4	583 912 6420	9 546 613,9358								11 775
88	E22-5			122 15'00"	57 45'00"	SE	15,000		12,6859	-8 0042	5	583 919 4078	9 546 609 6669								11 755
89	E23-E24			32 15'00"	32 15'00"	NE	20,000		10,6723	16,9146	E24	583 928,0665	9 546 651,5003								11,117
90	E24-E25			32 15'00"	32 15'00"	NE	20,000		10,6723	16,9146	E25	583 938,7388	9 546 668,4149								11,332

**Relatório das coordenadas de todos os pontos. Pg: 3/34**

ADUTORIA DE CAPONGA		LOCAL		ASCAVEL		COT		Proprietário		Data 26/08/97					
Mensagem SP4		Proprietário		Data 26/08/97											
IN	ALINHAMENTO	AZIMUTE		DISTANCIA		LONG PARC		LAT PARC		COORD E (X)		COORD N (Y)		COORD (Z)	
ITENS	EST. P.V.	COMPENSADO	P. U. V. O. QO	HORIZONTAL	X	Y	Z	IN+	S-	P. V.	TOT	COMPENS	TOT	COMPENS	DO PONTO
91	E24-1	372 15'00"	57 45'00"	NW	2 000	-1 6915	1 0672	1	583 926 3750	9 546 652 5675	11 103				
92	E24-2	302 15'00"	57 45'00"	NW	15 000	-12 6859	8 0042	2	583 915 3806	9 546 659 5045	11 196				
93	E24-3	102 15'00"	57 45'00"	SE	3 000	2 5372	-1 6008	3	583 930 6037	9 546 649 8995	11 261				
94	E24-4	122 15'00"	57 45'00"	SE	7 000	5 9201	-3 7353	4	583 933 9866	9 546 647 7650	12 572				
95	E24-5	122 15'00"	57 45'00"	SE	15 000	12 6859	-8 0042	5	583 940 7524	9 546 643 4961	12 623				
96	<b>E25-E26</b>	<b>32 15'00"</b>	<b>32 15'00"</b>	<b>NE</b>	<b>20 000</b>	<b>10 6723</b>	<b>16 9146</b>	<b>E26</b>	<b>583 949 4111</b>	<b>9 546 685 3295</b>	<b>11 608</b>				
97	<b>E26-E27</b>	<b>32 15'00"</b>	<b>32 15'00"</b>	<b>NE</b>	<b>20 000</b>	<b>10 6723</b>	<b>16 9146</b>	<b>E27</b>	<b>583 960 0834</b>	<b>9 546 702 2441</b>	<b>11 951</b>				
98	E26-1	302 15'00"	57 45'00"	NW	2 000	-1 6915	1 0672	1	583 947 7196	9 546 686 3967	11 776				
99	E26-2	302 15'00"	57 45'00"	NW	15 000	-12 6859	8 0042	2	583 936 7252	9 546 693 3337	11 668				
100	E26-3	122 15'00"	57 45'00"	SE	3 000	2 5372	-1 6008	3	583 951 9463	9 546 683 7287	11 966				
101	E26-4	122 15'00"	57 45'00"	SE	7 000	5 9201	-3 7353	4	583 955 3312	9 546 681 5942	13 476				
102	E26-5	122 15'00"	57 45'00"	SE	15 000	12 6859	-8 0042	5	583 962 0970	9 546 677 3253	13 456				
103	<b>E27-E28</b>	<b>32 15'00"</b>	<b>32 15'00"</b>	<b>NE</b>	<b>20 000</b>	<b>10 6723</b>	<b>16 9146</b>	<b>E28</b>	<b>583 970 7557</b>	<b>9 546 719 1587</b>	<b>12 242</b>				
104	<b>E28-E29</b>	<b>32 15'00"</b>	<b>32 15'00"</b>	<b>NE</b>	<b>20 000</b>	<b>10 6723</b>	<b>16 9146</b>	<b>E29</b>	<b>583 981 4280</b>	<b>9 546 736 0733</b>	<b>12 692</b>				
105	E28-1	372 15'00"	57 45'00"	NW	2 000	-1 6915	1 0672	1	583 969 3642	9 546 720 2259	12 111				
106	E28-2	372 15'00"	57 45'00"	NW	15 000	-12 6859	8 0042	2	583 958 3698	9 546 727 1629	12 166				
107	E28-3	102 15'00"	57 45'00"	SE	3 000	2 5372	-1 6008	3	583 973 2929	9 546 717 5579	12 492				
108	E28-4	102 15'00"	57 45'00"	SE	7 000	5 9201	-3 7353	4	583 976 6756	9 546 715 4234	13 802				
109	E28-5	122 15'00"	57 45'00"	SE	15 000	12 6859	-8 0042	5	583 983 4416	9 546 711 1545	13 802				
110	<b>E29-E30</b>	<b>32 15'00"</b>	<b>32 15'00"</b>	<b>NE</b>	<b>20 000</b>	<b>10 6723</b>	<b>16 9146</b>	<b>E30</b>	<b>583 992 1003</b>	<b>9 546 752 9879</b>	<b>13 096</b>				
111	<b>E30-E31</b>	<b>32 15'00"</b>	<b>32 15'00"</b>	<b>NE</b>	<b>20 000</b>	<b>10 6723</b>	<b>16 9146</b>	<b>E31</b>	<b>584 002 7726</b>	<b>9 546 769 9025</b>	<b>13 309</b>				
112	E31-1	372 15'00"	57 45'00"	NW	2 000	-1 6915	1 0672	1	583 999 4068	9 546 754 0551	13 126				
113	E31-2	372 15'00"	57 45'00"	NW	15 000	-12 6859	8 0042	2	583 979 4144	9 546 760 9921	13 116				
114	E31-3	102 15'00"	57 45'00"	SE	3 000	2 5372	-1 6008	3	583 994 6375	9 546 751 3871	13 416				
115	E31-4	102 15'00"	57 45'00"	SE	6 600	5 5618	-3 5219	4	583 997 6821	9 546 749 4560	14 447				
116	E31-5	122 15'00"	57 45'00"	SE	15 000	12 6859	-8 0042	5	584 004 7862	9 546 744 9337	14 486				
117	<b>E31-E32</b>	<b>28 26'30"</b>	<b>28 26'30"</b>	<b>NE</b>	<b>20 000</b>	<b>9 5253</b>	<b>17 5860</b>	<b>E32</b>	<b>584 012 2979</b>	<b>9 546 787 4885</b>	<b>13 846</b>				
118	<b>E32-E33</b>	<b>28 26'30"</b>	<b>28 26'30"</b>	<b>NE</b>	<b>20 000</b>	<b>9 5253</b>	<b>17 5860</b>	<b>E33</b>	<b>584 021 8232</b>	<b>9 546 805 0745</b>	<b>14 480</b>				
119	E32-1	078 26'30"	61 33'30"	NW	2 000	-1 7586	0 9525	1	584 010 5393	9 546 786 4410	13 797				
120	E32-2	078 26'30"	61 33'30"	NW	15 000	13 1895	7 1440	2	583 999 1084	9 546 794 6325	13 757				
121	E32-3	078 26'30"	61 33'30"	SE	3 000	2 5372	-1 6008	3	584 014 9338	9 546 786 1697	14 046				
122	E32-4	078 26'30"	61 33'30"	SE	6 500	5 7153	-3 5917	4	584 018 7134	9 546 784 0928	15 211				
123	E32-5	078 26'30"	61 33'30"	SE	15 000	13 1895	7 1440	5	584 025 4874	9 546 780 0445	15 205				
124	<b>E33-E34</b>	<b>28 26'30"</b>	<b>28 26'30"</b>	<b>NE</b>	<b>20 000</b>	<b>9 5253</b>	<b>17 5860</b>	<b>E34</b>	<b>584 031 3485</b>	<b>9 546 822 6605</b>	<b>15 233</b>				
125	<b>E34-E35</b>	<b>28 26'30"</b>	<b>28 26'30"</b>	<b>NE</b>	<b>20 000</b>	<b>9 5253</b>	<b>17 5860</b>	<b>E35</b>	<b>584 040 8738</b>	<b>9 546 840 2465</b>	<b>16 251</b>				
126	E34-1	098 26'30"	61 33'30"	NW	1 300	-1 1431	0 6191	1	584 030 2054	9 546 823 2796	15 171				
127	E34-2	098 26'30"	61 33'30"	NW	15 000	13 1895	7 1440	2	584 018 1590	9 546 829 8045	15 173				
128	E34-3	078 26'30"	61 33'30"	SE	4 000	3 5172	-1 9041	3	584 034 8657	9 546 820 7554	15 445				
129	E34-4	078 26'30"	61 33'30"	SE	7 000	6 1551	-3 3318	4	584 037 5036	9 546 819 0267	15 767				
130	E34-5	078 26'30"	61 33'30"	SE	15 000	13 1895	-7 1440	5	584 044 5380	9 546 815 5165	15 703				
131	<b>E35-E36</b>	<b>28 26'30"</b>	<b>28 26'30"</b>	<b>NE</b>	<b>20 000</b>	<b>9 5253</b>	<b>17 5860</b>	<b>E36</b>	<b>584 050 3991</b>	<b>9 546 857 8325</b>	<b>17 278</b>				
132	<b>E36-E37</b>	<b>28 26'30"</b>	<b>28 26'30"</b>	<b>NE</b>	<b>20 000</b>	<b>9 5253</b>	<b>17 5860</b>	<b>E37</b>	<b>584 059 9244</b>	<b>9 546 875 4185</b>	<b>17 720</b>				
133	E36-1	098 26'30"	61 33'30"	NW	1 000	-0 8793	0 4743	1	584 049 5198	9 546 858 3088	17 450				
134	E36-2	098 26'30"	61 33'30"	NW	15 000	-13 1895	7 1440	2	584 037 2096	9 546 864 9765	17 521				
135	E36-3	078 26'30"	61 33'30"	SE	5 000	4 3965	-2 3813	3	584 054 7956	9 546 855 4512	17 518				

100054

Relatório das coordenadas de todos os pontos.

PROJETO: ADUTORA DO CAPONGA

Local: CASCAVEL - CE

Processado	SPU	Proprietário		Data	26/08/97					
LINEA	ALINHAMENTO	AZIMUTE	DISTANCIA	LONG PARC	LAT PARC	COORD E (Y)	COORD N (X)	COORD (Z)		
EST	P W	COMPENSADO	P W	ORIG	ORIG	TOT	COMPENS	TOT	COMPENS	DO PONTO
137	E36-4	118 26'30"	61 33'30"	SE	6 500	5 7155	-3,0957	4 584 356 1146	9 546 854,7369	17 628
137	E36-5	118 26'30"	61 33'30"	SE	15 000	13 2895	-7,1440	5 584 363 5886	9 546 850,6385	17 577
138	E37-E38	25 01'30"	25 01'30"	NE	20,000	8,4603	18,1225	E38 584 068,3847	9 546 893,5410	18,184
139	E38-E39	25 01'30"	25 01'30"	NE	20,000	8,4603	18,1225	E39 584 076,8450	9 546 911,6635	18,992
140	E38-1	288 01'30"	64 58'30"	NW	3 500	-3 2620	1,5228	1 584 865,1227	9 546 895,0638	18,184
141	E38-2	288 01'30"	64 58'30"	NW	4,600	-4,1682	1,9459	2 584 864 2165	9 546 895,4869	18,674
142	E38-3	288 01'30"	64 58'30"	NW	15 000	-13,5918	6,3452	3 584 854,7929	9 546 899,8862	18,698
143	E38-4	118 01'30"	64 58'30"	SE	3,000	2,7184	-1,2690	4 584 871,1031	9 546 892,2720	18,364
144	E38-5	118 01'30"	64 58'30"	SE	6,400	5,7992	-2,7073	5 584 874,1839	9 546 890,8337	18 618
145	E38-6	118 01'30"	64 58'30"	SE	15,000	13 5916	-6,3452	6 584 881,9765	9 546 887,1958	18,774
146	E39-E40	25 01'30"	25 01'30"	NE	20,000	8,4603	18,1225	E40 584 085,3053	9 546 929,7860	19,560
147	E40-E41	25 01'30"	25 01'30"	NE	20,000	8,4603	18,1225	E41 584 093,7656	9 546 947,9085	20,618
148	E40-1	288 01'30"	64 58'30"	NW	2,000	-1,8122	0,8460	1 584 883 4931	9 546 930,6320	19,698
149	E40-2	288 01'30"	64 58'30"	NW	15,000	-13,5918	6,3452	2 584 871,7135	9 546 936,1312	19,734
150	E40-3	118 01'30"	64 58'30"	SE	3 500	3 1714	-1,4805	3 584 886,4767	9 546 928,3055	19,820
151	E40-4	118 01'30"	64 58'30"	SE	6,400	5 7992	-2,7073	4 584 891,1045	9 546 927,0787	20,254
152	E40-5	118 01'30"	64 58'30"	SE	15 000	13 5916	-6 3452	5 584 899,8971	9 546 923 4408	20 398
153	E41-E42	23 11'30"	23 11'30"	NE	20,000	7,8762	18,3839	E42 584 101,6418	9 546 966,2924	21,594
154	E42-E43	23 11'30"	23 11'30"	NE	20,000	7,8762	18,3839	E43 584 109,5180	9 546 984,6763	22,097
155	E42-1	118 01'30"	66 48'30"	NW	1 000	-0 9192	0 3938	1 584 100 7226	9 546 966 6852	21 594
156	E42-2	118 01'30"	66 48'30"	NW	15 000	-13 7879	5 9071	2 584 867 8539	9 546 972 1995	21 404
157	E42-3	118 01'30"	66 48'30"	SE	3 000	3 8990	-2,4416	3 584 107 3408	9 546 963 8558	21,938
158	E42-4	118 01'30"	66 48'30"	SE	15 000	13 7879	-5 9071	4 584 115 4297	9 546 960,3853	22 018
159	E43-E44	23 11'30"	23 11'30"	NE	20,000	7,8762	18,3839	E44 584 117,3942	9 547 003,0602	22,820
160	E44-E45	23 11'30"	23 11'30"	NE	20,000	7,8762	18,3839	E45 584 125,2704	9 547 021,4441	23,723
161	E44-1	118 01'30"	66 48'30"	NW	1 000	-0 9192	0 3938	1 584 116 4750	9 547 003 4540	22 747
162	E44-2	118 01'30"	66 48'30"	NW	15 000	-13 7879	5 9071	2 584 103 6063	9 547 008 9673	22 766
163	E44-3	118 01'30"	66 48'30"	SE	3 000	2 7576	-1 1814	3 584 120 1518	9 547 001 6768	23 147
164	E44-4	118 01'30"	66 48'30"	SE	6 400	5 8628	-2 5204	4 584 123 2770	9 547 000 5398	23,657
165	E44-5	118 01'30"	66 48'30"	SE	15,000	13,7879	-5 9071	5 584 131 1821	9 546 997 1531	23 781
166	E45-E46	23 11'30"	23 11'30"	NE	20,000	7,8762	18,3839	E46 584 133,1466	9 547 039,8280	21,062
167	E46-E47	23 11'30"	23 11'30"	NE	20,000	7,8762	18,3839	E47 584 141,0228	9 547 058,2119	21,642
168	E46-1	118 01'30"	66 48'30"	NW	1,000	-0 9192	0 3938	1 584 132,2274	9 547 046,2218	21 166
169	E46-2	118 01'30"	66 48'30"	NW	15 000	-13 7879	5 9071	2 584 119 3587	9 547 045 7351	21 281
170	E46-3	118 01'30"	66 48'30"	SE	3 000	2 7576	-1 1814	3 584 135 8042	9 547 038 6466	21 448
171	E46-4	118 01'30"	66 48'30"	SE	6 400	5 8628	-2 5204	4 584 137 8394	9 547 037 3078	22 232
172	E46-5	118 01'30"	66 48'30"	SE	15 000	13 7879	-5 9071	5 584 146 9345	9 547 033 9259	22 262
173	E47-E48	23 11'30"	23 11'30"	NE	20,000	7,8762	18,3839	E48 584 148,8990	9 547 076,5958	22,444
174	E48-E49	23 11'30"	23 11'30"	NE	20,000	7,8762	18,3839	E49 584 156,7752	9 547 094,9797	22,975
175	E48-1	118 01'30"	66 48'30"	NW	1 000	-0 9192	0 3938	1 584 147 9798	9 547 076 9896	22 618
176	E48-2	118 01'30"	66 48'30"	NW	15,000	-13 7879	5 9071	2 584 135,1111	9 547 082,5029	22,604
177	E48-3	118 01'30"	66 48'30"	SE	3,000	2,7576	-1 1814	3 584 151 6566	9 547 075 4144	22,744
178	E48-4	118 01'30"	66 48'30"	SE	6 400	5 8628	-2,5204	4 584 154 7818	9 547 074,0754	23 593
179	E48-5	118 01'30"	66 48'30"	SE	15 000	13 7879	-5,9071	5 584 162,6869	9 547 070 6887	23 582
180	E49-E50	23 11'30"	23 11'30"	NE	20,000	7,8762	18,3839	E50 584 164,6514	9 547 113,3636	23,534

Relatório das coordenadas de todos os pontos.

ADUTORA DE CAPONGA		Local		CASAPANEL		CE		Data		25/08/97				
SSE		Proprietário												
LN	ALINHAMENTO	AZIMUTE	DISTANCIA	LONG PARC	LAT PARC	COORD E (X)	COORD N (Y)	COORD (Z)						
DICE	EST	RUIM	COMPENSADO	RUMBO	QU	HORIZONTAL	X	Y	Z	TOE	COMPENS	TOE	COMPENS	DO PONTO
181	E50-E51	23	11'30"	23	11'30"	NE	20,000	7,8762	18,3839	E51	584 172,5276	9 547 131,7475	24,169	
182	E50-1	23	11'30"	66	48'30"	NW	1,000	-0,9192	0,3938	1	584 162,7322	9 547 113,7574	20,375	
183	E50-2	23	11'30"	66	48'30"	NW	15,000	-13,7879	5,9071	2	584 158,6635	9 547 119,2707	23,444	
184	E50-3	23	11'30"	66	48'30"	SE	3,000	2,7576	-1,1814	3	584 167,4090	9 547 112,1822	23,745	
185	E50-4	23	11'30"	66	48'30"	SE	6,400	5,8828	-2,5204	4	584 170,5342	9 547 110,8432	24,850	
186	E50-5	23	11'30"	66	48'30"	SE	15,000	13,7879	-5,9071	5	584 178,4393	9 547 107,4565	24,835	
187	E51-E52	23	11'30"	23	11'30"	NE	20,000	7,8762	18,3839	E52	584 180,4038	9 547 150,1314	24,996	
188	E52-E53	23	11'30"	23	11'30"	NE	20,000	7,8762	18,3839	E53	584 188,2800	9 547 168,5153	25,392	
189	E52-1	23	11'30"	66	48'30"	NW	1,600	-1,4707	0,6301	1	584 178,9331	9 547 150,7615	25,249	
190	E52-2	23	11'30"	66	48'30"	NW	15,000	-13,7879	5,9071	2	584 166,6159	9 547 156,0385	25,338	
191	E52-3	23	11'30"	66	48'30"	SE	3,600	3,3091	-1,4177	3	584 183,7129	9 547 148,7137	25,239	
192	E52-4	23	11'30"	66	48'30"	SE	6,400	5,8828	-2,5204	4	584 186,2866	9 547 147,6110	25,833	
193	E52-5	23	11'30"	66	48'30"	SE	15,000	13,7879	-5,9071	5	584 194,1917	9 547 144,2243	25,816	
194	E53-E54	23	11'30"	23	11'30"	NE	20,000	7,8762	18,3839	E54	584 196,1562	9 547 186,8992	25,431	
195	E54-E55	23	11'30"	23	11'30"	NE	20,000	7,8762	18,3839	E55	584 204,0324	9 547 205,2831	25,582	
196	E54-1	23	11'30"	66	48'30"	NW	1,800	-1,6545	0,7089	1	584 194,5017	9 547 187,6081	25,016	
197	E54-2	23	11'30"	66	48'30"	NW	15,000	-13,7879	5,9071	2	584 182,3683	9 547 192,8063	25,016	
198	E54-3	23	11'30"	66	48'30"	SE	3,000	2,7576	-1,1814	3	584 198,9138	9 547 185,7178	25,739	
199	E54-4	23	11'30"	66	48'30"	SE	6,400	5,8828	-2,5204	4	584 200,0390	9 547 184,3788	25,488	
200	E54-5	23	11'30"	66	48'30"	SE	15,000	13,7879	-5,9071	5	584 209,9441	9 547 180,9921	25,467	
201	E55-E56	23	11'30"	23	11'30"	NE	20,000	7,8762	18,3839	E56	584 211,9086	9 547 223,6670	25,726	
202	E56-E57	23	11'30"	23	11'30"	NE	20,000	7,8762	18,3839	E57	584 219,7848	9 547 242,0509	25,519	
203	E56-1	23	11'30"	66	48'30"	NW	2,000	-1,8384	0,7414	1	584 210,0762	9 547 224,4546	25,645	
204	E56-2	23	11'30"	66	48'30"	NW	15,000	-13,7879	5,9071	2	584 198,1267	9 547 229,5741	25,573	
205	E56-3	23	11'30"	66	48'30"	SE	3,200	2,9411	-1,2619	3	584 214,8500	9 547 222,4068	25,929	
206	E56-4	23	11'30"	66	48'30"	SE	6,400	5,8828	-2,5204	4	584 217,7914	9 547 221,1466	26,873	
207	E56-5	23	11'30"	66	48'30"	SE	15,000	13,7879	-5,9071	5	584 225,6965	9 547 217,7599	26,859	
208	E57-E58	23	11'30"	23	11'30"	NE	20,000	7,8762	18,3839	E58	584 227,6610	9 547 260,4348	25,699	
209	E58-E59	23	11'30"	23	11'30"	NE	20,000	7,8762	18,3839	E59	584 235,5372	9 547 278,8187	25,901	
210	E58-1	23	11'30"	66	48'30"	NW	2,000	-1,8384	0,7414	1	584 225,8226	9 547 261,2224	25,699	
211	E58-2	23	11'30"	66	48'30"	NW	15,000	-13,7879	5,9071	2	584 213,8731	9 547 266,3419	25,765	
212	E58-3	23	11'30"	66	48'30"	SE	3,300	3,0333	-1,2996	3	584 230,8943	9 547 259,1352	25,975	
213	E58-4	23	11'30"	66	48'30"	SE	6,500	5,7748	-2,5595	4	584 233,8358	9 547 257,8750	26,795	
214	E58-5	23	11'30"	66	48'30"	SE	15,000	13,7879	-5,9071	5	584 241,4469	9 547 254,5277	26,785	
215	E59-E60	23	11'30"	23	11'30"	NE	20,000	7,8762	18,3839	E60	584 243,4134	9 547 297,2026	25,554	
216	E60-E61	23	11'30"	23	11'30"	NE	20,000	7,8762	18,3839	E61	584 251,2896	9 547 315,5865	25,627	
217	E60-1	23	11'30"	66	48'30"	NW	2,000	-1,8384	0,7414	1	584 241,5750	9 547 297,9902	25,459	
218	E60-2	23	11'30"	66	48'30"	NW	15,000	-13,7879	5,9071	2	584 229,6255	9 547 303,1097	25,356	
219	E60-3	23	11'30"	66	48'30"	SE	3,100	2,8485	-1,2214	3	584 246,2829	9 547 295,9818	25,747	
220	E60-4	23	11'30"	66	48'30"	SE	6,500	5,7748	-2,5595	4	584 249,1882	9 547 294,6428	26,603	
221	E60-5	23	11'30"	66	48'30"	SE	15,000	13,7879	-5,9071	5	584 257,2013	9 547 291,2955	26,586	
222	E61-E62	23	11'30"	23	11'30"	NE	20,000	7,8762	18,3839	E62	584 259,1658	9 547 333,9704	25,532	
223	E62-E63	23	11'30"	23	11'30"	NE	20,000	7,8762	18,3839	E63	584 267,0420	9 547 352,3543	25,318	
224	E62-1	23	11'30"	66	48'30"	NW	2,000	-1,8384	0,7414	1	584 257,3274	9 547 334,7580	25,426	
225	E62-2	23	11'30"	66	48'30"	NW	15,000	-13,7879	5,9071	2	584 245,3779	9 547 339,8775	25,365	

J00056



Relatório das coordenadas de todos os pontos.

Interessado		SRP		Proprietário										Data 26/06/97		
IN	ALINHAMENTO	DEMONTE		DISTANCIA		LONG	PARC	TAF	PAPC	COORD E (Y)		COORD N (Y)		COORD (Z)		
DESE	EST	P	M	R	J	M	Q	HORIZONTAL	X	Y	Z	TOT	COMPENS	TOT	COMPENS	DO PONTO
226	E62-3	113	11'30"	66	48	30"	SE	3,000	2,7576	-1,1814	3	584	261,9234	9,547	332,7898	25,766
227	E62-4	117	11'30"	66	48	50"	SE	6,500	5,9748	-2,5598	4	584	265,1406	9,547	331,4106	26,702
228	E62-5	113	11'30"	66	48	30"	SE	15,000	13,7879	-5,9071	5	584	272,9537	9,547	328,0633	26,702
229	<b>E63-E64</b>	23	11'30"	23	11'30"		NE	20,000	7,8762	18,3839	<b>E64</b>	584	274,9182	9,547	370,7382	25,589
230	<b>E64-E65</b>	23	11'30"	23	11'30"		NE	20,000	7,8762	18,3839	<b>E65</b>	584	282,7944	9,547	389,1221	25,197
231	E64-1	293	11'30"	66	48	30"	NW	2,000	-1,8384	0,7876	1	584	273,0796	9,547	371,5258	25,338
232	E64-2	293	11'30"	66	48	30"	NW	15,000	-13,7879	5,9071	2	584	261,1303	9,547	376,6453	25,035
233	E64-3	113	11'30"	66	48	30"	SE	3,000	2,7576	-1,1814	3	584	277,6758	9,547	369,5568	25,633
234	E64-4	113	11'30"	66	48	30"	SE	6,500	5,9748	-2,5598	4	584	280,8930	9,547	368,1764	26,449
235	E64-5	113	11'30"	66	48	30"	SE	15,000	13,7879	-5,9071	5	584	288,7061	9,547	364,8311	26,436
236	<b>E65-E66</b>	23	11'30"	23	11'30"		NE	20,000	7,8762	18,3839	<b>E66</b>	584	290,6706	9,547	407,5060	25,087
237	<b>E66-E67</b>	23	11'30"	23	11'30"		NE	20,000	7,8762	18,3839	<b>E67</b>	584	298,5468	9,547	425,8899	25,309
238	E66-1	293	11'30"	66	48	30"	NW	2,000	-1,8384	0,7876	1	584	288,8322	9,547	408,2936	24,679
239	E66-2	293	11'30"	66	48	30"	NW	15,000	-13,7879	5,9071	2	584	276,8827	9,547	413,4131	24,537
240	E66-3	113	11'30"	66	48	30"	SE	3,200	2,8414	-1,2602	2	584	293,6120	9,547	406,2456	25,294
241	E66-4	113	11'30"	66	48	30"	SE	6,500	5,9748	-2,5598	4	584	296,6454	9,547	404,9462	26,192
242	E66-5	113	11'30"	66	48	30"	SE	15,000	13,7879	-5,9071	5	584	304,4585	9,547	401,5989	26,181
243	<b>E67-E68</b>	23	11'30"	23	11'30"		NE	20,000	7,8762	18,3839	<b>E68</b>	584	306,4230	9,547	444,2738	24,934
244	<b>E68-E69</b>	23	11'30"	23	11'30"		NE	20,000	7,8762	18,3839	<b>E69</b>	584	314,2992	9,547	462,6577	24,777
245	E68-1	293	11'30"	66	48	30"	NW	2,000	-1,8384	0,7876	1	584	304,5646	9,547	445,0614	24,487
246	E68-2	293	11'30"	66	48	30"	NW	15,000	-13,7879	5,9071	2	584	292,6351	9,547	450,1809	24,266
247	E68-3	113	11'30"	66	48	30"	SE	3,000	2,7576	-1,1814	3	584	309,1806	9,547	443,0924	25,237
248	E68-4	113	11'30"	66	48	30"	SE	6,500	5,9748	-2,5598	4	584	312,3878	9,547	441,7140	26,980
249	E68-5	113	11'30"	66	48	30"	SE	15,000	13,7879	-5,9071	5	584	320,2009	9,547	439,3667	26,993
250	<b>E69-E70</b>	23	11'30"	23	11'30"		NE	20,000	7,8762	18,3839	<b>E70</b>	584	322,1754	9,547	481,0416	25,010
251	<b>E70-E71</b>	23	11'30"	23	11'30"		NE	20,000	7,8762	18,3839	<b>E71</b>	584	330,0516	9,547	499,4255	25,536
252	E70-1	293	11'30"	66	48	30"	NW	2,000	-1,8384	0,7876	1	584	320,3270	9,547	481,8292	24,694
253	E70-2	293	11'30"	66	48	30"	NW	15,000	-13,7879	5,9071	2	584	308,3875	9,547	486,9467	24,316
254	E70-3	113	11'30"	66	48	30"	SE	3,000	2,7576	-1,1814	3	584	324,9330	9,547	479,8602	25,499
255	E70-4	113	11'30"	66	48	30"	SE	6,400	5,8824	-2,5274	4	584	328,0582	9,547	478,5212	26,119
256	E70-5	113	11'30"	66	48	30"	SE	15,000	13,7879	-5,9071	5	584	335,8633	9,547	475,1345	26,243
257	<b>E71-E72</b>	23	11'30"	23	11'30"		NE	20,000	7,8762	18,3839	<b>E72</b>	584	337,9276	9,547	517,8094	24,788
258	<b>E72-E-14</b>	23	11'30"	23	11'30"		NE	14,000	5,5133	12,6687	<b>E+14</b>	584	343,4411	9,547	530,6781	24,717
259	E72-1	293	11'30"	66	48	30"	NW	1,300	-1,1950	0,5170	1	584	336,7323	9,547	518,3214	24,788
260	E72-2	113	11'30"	66	48	30"	SE	2,900	1,8384	-0,7876	2	584	339,7662	9,547	517,0218	25,019
261	E72-3	113	11'30"	66	48	30"	SE	5,000	4,5960	-1,9690	3	584	342,5238	9,547	515,8404	25,988
262	E72-4	113	11'30"	66	48	30"	SE	15,000	13,7879	-5,9071	4	584	351,7157	9,547	511,9023	25,918
263	<b>E+14-E73</b>	15	48'43"	15	48'43"		NE	6,000	1,6349	5,7730	<b>E73</b>	584	345,0760	9,547	536,4511	25,038
264	<b>E73-E74</b>	15	48'45"	15	48'45"		NE	20,000	5,4498	19,2432	<b>E74</b>	584	350,5258	9,547	555,6943	25,058
265	<b>E74-E75</b>	15	48'45"	15	48'45"		NE	20,000	5,4498	19,2432	<b>E75</b>	584	355,9756	9,547	574,9375	25,554
266	E74-1	293	48'45"	74	11'15"		NW	0,800	0,7697	0,2187	1	584	348,7561	9,547	555,9123	25,062
267	E74-2	17	48'45"	74	11'15"		SE	2,800	1,9243	-0,5480	2	584	352,4501	9,547	555,1493	25,593
268	E74-3	17	48'45"	74	11'15"		SE	5,000	4,8108	-1,3628	3	584	355,3366	9,547	554,3318	26,182
269	E74-4	17	48'45"	74	11'15"		SE	15,000	14,4324	-4,0674	4	584	364,9582	9,547	551,6069	26,190
270	<b>E75-E76</b>	15	48'45"	15	48'45"		NE	20,000	5,4498	19,2432	<b>E76</b>	584	361,4254	9,547	594,1807	25,379

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**Relatório das coordenadas de todos os pontos. Pg: 7/34**

SEU		Proprietario		Data 26/08/97					
IN	ALINHAMENTO	ALMUTE	DISTANCIA	LONG PARC	LAT PARC	COORD E (X)	COORD N (Y)	COORD (Z)	
	EST P M	ALMENSADO R U M O QD	HORIZONTAL	M E N-	E N+ S-	TOT COMPENS	TOT COMPENS	DO PONTO	
271	E76-E-14	15 48'46" 15 48'46" NE	14,000	3,8149	13,4702	E+14	584 365,2403	9 547 607,6509	26,045
272	E76-1	248 48'45" 74 11'15" NW	0,800	-0,7697	0,2180	1	584 360,6557	9 547 594,3987	25,358
273	E76-2	103 48'45" 74 11'15" SE	3,600	3,4636	-0,9810	2	584 364,6892	9 547 593,1997	26,213
274	E76-3	103 48'45" 74 11'15" SE	15,800	14,4324	-4,0874	3	584 375,6578	9 547 590,0933	26,279
275	E-14-E77	5 21'44" 5 21'44" NE	6,000	0,5607	5,9737	E77	584 365,8010	9 547 613,6246	25,974
276	E77-E78	5 21'45" 5 21'45" NE	20,000	1,8691	19,9125	E78	584 367,6701	9 547,633,5371	25,698
277	E78-E79	5 21'45" 5 21'45" NE	20,000	1,8691	19,9125	E79	584 369,5392	9 547 653,4496	25,809
278	E78-1	275 21'45" 84 38'15" NW	1,000	-0,9956	0,0935	1	584 366,6745	9 547 633,6306	25,598
279	E78-2	275 21'45" 84 38'15" NW	15,000	-14,9344	1,4019	2	584 352,7357	9 547 634,9390	25,456
280	E78-3	95 21'45" 84 38'15" SE	2,000	1,9912	-0,1869	3	584 369,6613	9 547 633,3502	25,998
281	E78-4	95 21'45" 84 38'15" SE	3,900	3,8829	-0,3645	4	584 371,5530	9 547 633,1726	26,422
282	E78-5	95 21'45" 84 38'15" SE	15,000	14,9344	-1,4019	5	584 362,6045	9 547 632,1352	26,611
283	E79-E80	5 21'45" 5 21'45" NE	20,000	1,8691	19,9125	E80	584 371,4083	9 547 673,3621	25,839
284	E80-E+18	5 21'45" 5 21'45" NE	18,000	1,6822	17,9212	E+18	584 373,0905	9 547 691,2833	26,030
285	E80-1	275 21'45" 84 38'15" NW	1,000	-0,9956	0,0935	1	584 370,4127	9 547 673,4556	25,591
286	E80-2	275 21'45" 84 38'15" NW	15,000	-14,9344	1,4019	2	584 356,4739	9 547 674,7640	25,543
287	E80-3	95 21'45" 84 38'15" SE	2,000	1,9912	-0,1869	3	584 372,3995	9 547 673,1752	26,406
288	E80-4	95 21'45" 84 38'15" SE	4,400	4,3807	-0,4112	4	584 375,7890	9 547 672,9509	26,740
289	E80-5	95 21'45" 84 38'15" SE	15,000	14,9344	1,4019	5	584 386,3427	9 547 671,9602	26,812
290	E+18-E81	359 06'12" 0 53'48" NW	2,000	-0,0313	1,9998	E61	584 373,0592	9 547 693,2831	25,998
291	E81-E82	359 06'15" 0 53'45" NW	20,000	-0,3127	19,9976	E82	584 372,7465	9 547 713,2807	26,248
292	E82-E83	359 06'15" 0 53'45" NW	20,000	-0,3127	19,9976	E83	584 372,4338	9 547 733,2783	26,671
293	E82-1	248 06'15" 89 06'15" SW	15,000	14,9987	-0,2345	1	584 357,7483	9 547 713,0462	26,056
294	E82-2	44 06'15" 89 06'15" NE	4,000	3,9995	0,0625	2	584 376,7460	9 547 713,3432	27,072
295	E82-3	44 06'15" 89 06'15" NE	15,000	14,9982	0,2345	3	584 367,7447	9 547 713,5152	27,051
296	E83-E84	359 06'15" 0 53'45" NW	20,000	-0,3127	19,9976	E84	584 372,1211	9 547 753,2759	26,894
297	E84-E85	359 06'15" 0 53'45" NW	20,000	-0,3127	19,9976	E85	584 371,8084	9 547 773,2735	26,941
298	E84-1	248 06'15" 89 06'15" SW	2,000	-0,9999	0,0313	1	584 370,1213	9 547 753,2446	26,876
299	E84-2	44 06'15" 89 06'15" NE	4,800	4,4334	0,0701	2	584 378,6205	9 547 753,3463	27,079
300	E84-3	44 06'15" 89 06'15" NE	15,000	14,9982	0,2345	3	584 367,7447	9 547 753,5104	27,100
301	E85-E86	359 06'15" 0 53'45" NW	20,000	-0,3127	19,9976	E86	584 371,4957	9 547 793,2711	26,555
302	E86-E87	359 06'15" 0 53'45" NW	20,000	-0,3127	19,9976	E87	584 371,1830	9 547 813,2687	26,863
303	E86-1	248 06'15" 89 06'15" SW	2,000	-0,9998	-0,0313	1	584 369,4959	9 547 793,2396	26,542
304	E86-2	44 06'15" 89 06'15" NE	2,000	1,9998	0,0313	2	584 373,4955	9 547 793,3024	26,899
305	E86-3	44 06'15" 89 06'15" NE	4,800	4,7994	0,0700	3	584 375,2951	9 547 793,3461	27,480
306	E86-4	44 06'15" 89 06'15" NE	15,000	14,9982	0,2345	4	584 386,4939	9 547 793,5056	27,552
307	E87-E88	359 06'15" 0 53'45" NW	20,000	-0,3127	19,9976	E88	584 370,8703	9 547 833,2663	26,907
308	E88-E89	359 06'15" 0 53'45" NW	20,000	-0,3127	19,9976	E89	584 370,5576	9 547 853,2639	27,422
309	E88-1	248 06'15" 89 06'15" SW	2,000	-1,9998	-0,0313	1	584 368,8705	9 547 833,2350	26,904
310	E88-2	44 06'15" 89 06'15" NE	2,300	2,2997	0,0360	2	584 373,1700	9 547 833,3023	27,224
311	E88-3	44 06'15" 89 06'15" NE	5,000	4,9994	0,0782	3	584 375,6697	9 547 833,3445	27,917
312	E88-4	44 06'15" 89 06'15" NE	15,000	14,9982	0,2345	4	584 385,8685	9 547 833,5008	27,914
313	E89-E90	359 06'15" 0 53'45" NW	20,000	-0,3127	19,9976	E90	584 370,2449	9 547 873,2615	26,449
314	E90-E91	359 06'15" 0 53'45" NW	20,000	-0,3127	19,9976	E91	584 369,9322	9 547 893,2591	26,362
315	E90-1	248 06'15" 89 06'15" SW	15,000	14,9982	-0,2345	1	584 355,2467	9 547 873,0270	26,249

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Relatório das coordenadas de todos os pontos.

Pg: 8/34

Imvel ADUICAO DE LAPONGA

Local CASCAREL - CE

Interessado SAA

Projetante

Data 26/06/97

LN	ALINHAMENTO	AZIMUTE		DISTANCIA	LONG PARC	LAT PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
		COMPENSADO	RUMBO				TOT	COMPENS	TOT	COMPENS		
316	E90-2	89	06'15"	89	06'15"	NE	1,000	0,9999	0,0156	2 584 371,2448	9 547 873 2771	26 755
317	E90-3	89	06'15"	89	06'15"	NE	5,800	5,7993	0,0907	3 584 376,0442	9 547 873,3522	28 399
318	E90-4	89	06'15"	89	06'15"	NE	15,000	14,9982	0,2345	4 584 385,2431	9 547 873 4960	28 349
319	E91-E92	359	06'15"	0	53'45"	NW	20,000	-0,3127	19,9976	E92 584 369,6195	9 547 913,2567	26,888
320	E92-E93	19	47'15"	19	47'15"	NE	20,000	6,7707	18,8191	E93 584 376,3902	9 547 932,0758	27,093
321	E92-1	269	06'15"	89	06'15"	SW	15,000	-14,9982	-0,2345	1 584 354,6213	9 547 913,0222	26,848
322	E92-2	89	06'15"	89	06'15"	NE	8,000	7,9990	0,1251	2 584 377,6185	9 547 913,3818	27,132
323	E92-3	89	06'15"	89	06'15"	NE	11,000	10,9987	0,1720	3 584 380,6182	9 547 913,4287	28 326
324	E92-4	89	06'15"	89	06'15"	NE	15,000	14,9982	0,2345	4 584 384,6177	9 547 913,4912	28,288
325	E93-E94	19	47'15"	19	47'15"	NE	20,000	6,7707	18,8191	E94 584 383,1609	9 547 950,8949	27,049
326	E94-E95	19	47'15"	19	47'15"	NE	20,000	6,7707	18,8191	E95 584 389,9316	9 547 969,7140	27,301
327	E94-1	269	47'15"	70	12'45"	NW	15,000	-14,1143	5,0780	1 584 369,0466	9 547 955,9729	26,711
328	E94-2	109	47'15"	70	12'45"	SE	3,000	2,8229	-1,0156	2 584 385,9838	9 547 949 8793	27 389
329	E94-3	109	47'15"	70	12'45"	SE	6,300	5,9280	-2,1328	3 584 389,0889	9 547 948,7621	26,619
330	E94-4	109	47'15"	70	12'45"	SE	15,000	14,1143	-5,0780	4 584 397 2752	9 547 945,8169	28,497
331	E95-E96	19	47'15"	19	47'15"	NE	20,000	6,7707	18,8191	E96 584 396,7023	9 547 988,5331	27,401
332	E96-E97	19	47'15"	19	47'15"	NE	20,000	6,7707	18,8191	E97 584 403,4730	9 548 007,3522	27,308
333	E98-1	109	47'15"	70	12'45"	NW	15,000	-14,1143	5,0780	1 584 382 5880	9 547 993 6111	27 387
334	E98-2	109	47'15"	70	12'45"	SE	5,000	4,7048	-1,6927	2 584 401 4071	9 547 986,8404	27 927
335	E98-3	109	47'15"	70	12'45"	SE	9,400	7,9040	-2,8437	3 584 404 6063	9 547 985,6894	26 721
336	E98-4	109	47'15"	70	12'45"	SE	15,000	14,1143	-5,0780	4 584 410 8166	9 547 983 4551	26 763
337	E97-E+5	19	47'16"	19	47'16"	NE	5,000	1,6927	4,7048	E+5 584 405,1657	9 548 012,0570	27,378
338	E+5-E98	43	16'15"	43	16'15"	NE	15,000	10,2817	10,9218	E98 584 415,4474	9 548 022,9788	27,281
339	E98-E99	43	16'16"	43	16'16"	NE	20,000	13,7090	14,5624	E99 584 429,1564	9 548 037,5412	27,512
340	E98-1	109	16'15"	46	43'45"	NW	1,000	-0,7281	0,6854	1 584 414,7193	9 548 023 6542	27 343
341	E98-2	109	16'15"	46	43'45"	NW	15,000	10,9218	10,2817	2 584 404 5256	9 548 033 2605	27 339
342	E98-3	109	16'15"	46	43'45"	SE	6,800	1,9512	-4,6610	3 584 420 3966	9 548 028,3178	27 461
343	E98-4	109	16'15"	46	43'45"	SE	9,000	8,5531	-6,1690	4 584 422 0005	9 548 016 8098	26 465
344	E98-5	109	16'15"	46	43'45"	SE	15,000	10,9218	-10,2817	5 584 426 3692	9 548 012,6971	26 395
345	E99-E100	43	16'16"	43	16'16"	NE	20,000	13,7090	14,5624	E100 584 442,8654	9 548 052,1036	27,433
346	E100-E101	43	16'16"	43	16'16"	NE	20,000	13,7090	14,5624	E101 584 456,5744	9 548 066,6660	27,728
347	E101-1	109	16'15"	46	43'45"	NW	1,200	-0,8737	0,8225	1 584 441 9917	9 548 052 9261	27 377
348	E100-2	109	16'15"	46	43'45"	NW	15,000	-10,9218	10,2817	2 584 431 9436	9 548 052 3853	27,330
349	E100-3	109	16'15"	46	43'45"	SE	2,300	1,4562	-1,3709	3 584 444 3216	9 548 050 7327	27 733
350	E100-4	109	16'15"	46	43'45"	SE	4,700	3,4222	-3,2216	4 584 446 2876	9 548 048 8820	28 449
351	E100-5	109	16'15"	46	43'45"	SE	15,000	10,9218	-10,2817	5 584 453 7872	9 548 041 8219	26,447
352	E101-E102	43	16'16"	43	16'16"	NE	20,000	13,7090	14,5624	E102 584 470,2834	9 548 081,2284	27,507
353	E102-E103	43	16'16"	43	16'16"	NE	20,000	13,7090	14,5624	E103 584 483,9924	9 548 095,7908	27,162
354	E102-1	109	16'15"	46	43'45"	NW	1,000	-0,7281	0,6854	1 584 469 5553	9 548 081 9136	27 465
355	E102-2	109	16'15"	46	43'45"	NW	15,000	10,9218	10,2817	2 584 459 3616	9 548 091 5101	27 387
356	E102-3	109	16'15"	46	43'45"	SE	5,300	3,8590	-3,6329	3 584 474,1424	9 548 077 5955	28 391
357	E102-4	109	16'15"	46	43'45"	SE	15,000	10,9218	-10,2817	4 584 481 2052	9 548 070 9467	28 387
358	E103-E104	47	04'45"	47	04'45"	NE	20,000	14,6459	13,6197	E104 584 498,6383	9 548 109,4105	27,195
359	E104-E105	47	04'45"	47	04'45"	NE	20,000	14,6459	13,6197	E105 584 513,2842	9 548 123,0302	27,109
360	E104-1	317	04'45"	42	55'15"	NW	1,200	-0,8172	0,8786	1 584 497,8211	9 548 110,2893	27 164

J00059

Relatório das coordenadas de todos os pontos.

Intervalo ABUTORA DE BOMBA Local - ASCAVEL - CE

Interessado		SPN		Proprietário								Data 26/08/97							
LN	ALINHAMENTO	AZIMUTE		DISTANCIA		LONG PARC		LAT PARC		COORD E (M)		COORD N (M)		COORD (Z)					
TRCE	EST P M	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E+ W-	Y	(N+ S-	P M	TOT	COMPENS	TOT	COMPENS	DO PONTO				
351	E104-2	137	04'45"	42	55'15"	NW	15,000	10,2148	10,9844	7	584	489	4235	9	548	120	3949	27	869
352	E104-3	137	04'45"	42	55'15"	SE	3,000	2,0430	-2,1969	3	584	500	6813	9	548	107	2136	27	875
353	E104-4	137	04'45"	42	55'15"	SE	6,000	4,0860	-4,3936	4	584	502	7242	9	548	105	0167	28	279
364	E104-5	137	04'45"	42	55'15"	SE	15,000	10,2148	-10,9844	5	584	508	8531	9	548	098	4261	28	275
365	E105-E106	47	04'45"	47	04'45"	NE	20,000	14,6459	13,6197	E106	584	527	9301	9	548	136	6499	26	876
366	E106-E107	47	04'45"	47	04'45"	NE	20,000	14,6459	13,6197	E107	584	542	5760	9	548	150	2696	27	135
367	E106-1	137	04'45"	42	55'15"	NW	1,500	-1,0215	1,0984	1	584	526	9086	9	548	137	7483	26	822
368	E106-2	137	04'45"	42	55'15"	NW	15,000	-10,2148	10,9844	2	584	517	7153	9	548	147	6343	26	720
369	E106-3	137	04'45"	42	55'15"	SE	3,000	2,0430	-2,1969	3	584	529	9731	9	548	134	4530	27	131
370	E106-4	137	04'45"	42	55'15"	SE	5,300	3,6392	-3,8812	4	584	531	5393	9	548	132	7687	27	903
371	E106-5	137	04'45"	42	55'15"	SE	15,000	10,2148	-10,9844	5	584	538	1449	9	548	125	6655	27	881
372	E107-E108	47	04'45"	47	04'45"	NE	20,000	14,6459	13,6197	E108	584	557	2219	9	548	163	8893	26	845
373	E108-E109	47	04'45"	47	04'45"	NE	20,000	14,6459	13,6197	E109	584	571	8678	9	548	177	5090	26	939
374	E108-1	137	04'45"	42	55'15"	NW	15,000	-10,2148	10,9844	1	584	547	0071	9	548	174	8737	26	915
375	E108-2	137	04'45"	42	55'15"	SE	3,800	2,5876	-2,7827	2	584	559	8097	9	548	161	1066	27	100
376	E108-3	137	04'45"	42	55'15"	SE	6,200	4,2221	-4,5402	3	584	561	4440	9	548	159	3491	28	099
377	E108-4	137	04'45"	42	55'15"	SE	15,000	10,2148	-10,9844	4	584	567	4367	9	548	152	9049	28	089
378	E109-E110	47	04'45"	47	04'45"	NE	20,000	14,6459	13,6197	E110	584	586	5137	9	548	191	1287	26	343
379	E110-E111	58	42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E111	584	603	6029	9	548	201	5191	26	062
380	E110-1	137	04'45"	42	55'15"	NW	15,000	-10,2148	10,9844	1	584	576	2989	9	548	202	1131	26	327
381	E110-2	137	04'45"	42	55'15"	SE	6,000	4,0860	-4,3936	2	584	591	9616	9	548	185	2703	26	579
382	E110-3	137	04'45"	42	55'15"	SE	10,000	7,0799	-7,3237	3	584	593	3236	9	548	183	8057	27	771
383	E110-4	137	04'45"	42	55'15"	SE	15,000	10,2148	-10,9844	4	584	596	7265	9	548	180	1443	27	759
384	E111-E112	58	42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E112	584	620	6921	9	548	211	9095	25	554
385	E112-E113	58	42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E113	584	637	7813	9	548	222	2999	24	976
386	E112-1	31	18'00"	31	18'00"	NW	15,000	-7,7928	12,8169	1	584	612	8993	9	548	224	7264	25	659
387	E112-2	31	18'00"	31	18'00"	SE	5,000	3,5376	-4,2723	2	584	622	2697	9	548	207	6372	25	749
388	E112-3	31	18'00"	31	18'00"	SE	8,200	5,7601	-6,0066	3	584	624	9522	9	548	204	9029	26	576
389	E112-4	31	18'00"	31	18'00"	SE	15,000	7,7928	-8,1669	4	584	626	4849	9	548	199	0926	26	562
390	E113-E114	58	42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E114	584	654	8705	9	548	232	6903	24	106
391	E114-E115	58	42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E115	584	671	9597	9	548	243	0807	23	304
392	E114-1	31	18'00"	31	18'00"	NW	15,000	-7,7928	12,8169	1	584	647	0777	9	548	245	5072	24	260
393	E114-2	31	18'00"	31	18'00"	SE	6,000	4,0860	-4,3936	2	584	657	3876	9	548	227	5636	24	139
394	E114-3	31	18'00"	31	18'00"	SE	8,800	6,3718	-6,6192	3	584	659	4423	9	548	225	1711	24	616
395	E114-4	31	18'00"	31	18'00"	SE	15,000	7,7928	-8,1669	4	584	662	4633	9	548	219	8734	24	795
396	E115-E116	58	42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E116	584	689	0489	9	548	253	4711	22	605
397	E116-E117	58	42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E117	584	706	1381	9	548	263	8615	20	675
398	E116-1	31	18'00"	31	18'00"	NW	15,000	-7,7928	12,8169	1	584	681	2561	9	548	266	2890	22	629
399	E116-2	31	18'00"	31	18'00"	SE	9,300	6,8315	-7,0465	2	584	693	8804	9	548	245	5246	22	493
400	E116-3	31	18'00"	31	18'00"	SE	15,000	7,7928	-8,1669	3	584	696	8417	9	548	240	6542	22	615
401	E117-E118	58	42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E118	584	723	2273	9	548	274	2519	21	747
402	E118-E119	58	42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E119	584	740	3165	9	548	284	6423	20	541
403	E118-1	31	18'00"	31	18'00"	NW	1,000	-0,5195	0,8545	1	584	722	7078	9	548	275	1064	21	549
404	E118-2	31	18'00"	31	18'00"	NW	3,000	-1,5586	2,5634	2	584	721	6667	9	548	276	8153	20	175
405	E118-3	31	18'00"	31	18'00"	NW	7,500	-4,8964	6,4084	3	584	719	3309	9	548	280	6603	21	649

Relatório das coordenadas de todos os pontos.

Nivel		ADUTORIA DE APONGA		Local		PASCANEL - PE		Proprietário		Data		26/08/97	
IN	ALINHAMENTO	AZIMUTE	DISTANCIA		LONG PARC	LAT PARC	COORD E (M)		COORD N (M)		COORD (Z)		
ANCE	EST. P.M.	COMPENSADO	RUM	QD	HORIZONTAL	X	Y	E	N	E	N	Z	
								TOT	COMPENS	TOT	COMPENS	DO PONTO	
406	E118-A	318 42'00"	31	18'00'	NW	15,000	-7,7928	12,8169	4	584 715,4345	9 548 287 0688	21,853	
407	E118-B	18 42'00"	31	18'00'	SE	6,000	4,1562	-6,8357	5	584 727,3835	9 548 267 4162	22,459	
408	E118-C	148 42'00"	31	18'00'	SE	10,000	5,1952	-8,5446	6	584 728,4225	9 548 265,7073	22,759	
409	E119-E120	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E120	584 757,4057	9 548 295,0327	19,275	
410	E120-E121	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E121	584 774,4949	9 548 305,4231	18,598	
411	E120-1	328 42'00"	31	18'00'	NW	15,000	-7,7928	12,8169	1	584 749 6129	9 548 307 8496	19,428	
412	E120-2	148 42'00"	31	18'00'	SE	8,000	4,1562	-6,8357	2	584 761 5619	9 548 288,1970	20,073	
413	E120-3	148 42'00"	31	18'00'	SE	10,700	5,5589	-9,1427	3	584 762,9646	9 548 285 8900	20,823	
414	E120-4	148 42'00"	31	18'00'	SE	15,000	7,7928	-12,8169	4	584 765,1985	9 548 282,2158	20,828	
415	E121-E122	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E122	584 791,5841	9 548 315,8135	18,275	
416	E122-E123	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E123	584 808,6733	9 548 326,2039	17,540	
417	E122-1	328 42'00"	31	18'00'	NW	15,000	-7,7928	12,8169	1	584 783,7913	9 548 328,6304	17,703	
418	E122-2	148 42'00"	31	18'00'	SE	11,400	5,9225	-9,7408	2	584 797,5066	9 548 306,0727	19,087	
419	E122-3	148 42'00"	31	18'00'	SE	15,000	7,7928	-12,8169	3	584 799 3769	9 548 302,9966	19,037	
420	E123-E124	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E124	584 825,7625	9 548 336,5943	16,702	
421	E124-E125	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E125	584 842,8517	9 548 346,9847	15,509	
422	E124-1	328 42'00"	31	18'00'	NW	15,000	-7,7928	12,8169	1	584 817 9697	9 548 349,4112	16,728	
423	E124-2	148 42'00"	31	18'00'	SE	12,000	6,2342	-10,2545	2	584 831 9967	9 548 326 3408	17,356	
424	E124-3	148 42'00"	31	18'00'	SE	15,000	7,7928	-12,8169	3	584 833,5553	9 548 323,7774	17,342	
425	E125-E126	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E126	584 859,9409	9 548 357,3751	13,688	
426	E126-E127	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E127	584 877,0301	9 548 367,7655	11,680	
427	E126-1	328 42'00"	31	18'00'	NW	15,000	-7,7928	12,8169	1	584 864 7457	9 548 365 9197	14,502	
428	E126-2	148 42'00"	31	18'00'	SE	12,500	6,5459	-10,7642	2	584 866 4889	9 548 346 6089	15,750	
429	E126-3	148 42'00"	31	18'00'	SE	15,000	7,7928	-12,8169	3	584 867 4337	9 548 344 5882	16,744	
430	E127-E128	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E128	584 894,1193	9 548 378,1559	10,715	
431	E128-E129	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E129	584 911,2085	9 548 388,5463	10,127	
432	E128-1	328 42'00"	31	18'00'	NW	5,000	-2,5976	4,2723	1	584 891,5217	9 548 382 4282	10,634	
433	E128-2	148 42'00"	31	18'00'	SE	5,000	2,5976	-4,2723	2	584 896 7169	9 548 373 8836	11,929	
434	E128-3	148 42'00"	31	18'00'	SE	14,000	7,2733	-11,9674	3	584 901 3926	9 548 366 1925	12,499	
435	E129-E130	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E130	584 928,2977	9 548 398,9367	9,650	
436	E130-E131	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E131	584 945,3869	9 548 409,3271	9,602	
437	E130-1	328 42'00"	31	18'00'	NW	15,000	-7,7928	12,8169	1	584 920 5949	9 548 411 7536	9,599	
438	E130-2	148 42'00"	31	18'00'	SE	14,700	7,6369	-12,5605	2	584 935,9346	9 548 386 3762	10,760	
439	E131-E132	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E132	584 962,4761	9 548 419,7175	8,145	
440	E132-E133	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E133	584 979,5653	9 548 430,1079	6,532	
441	E132-1	328 42'00"	31	18'00'	NW	15,000	-7,7928	12,8169	1	584 954 6833	9 548 432,5344	8,127	
442	E132-2	148 42'00"	31	18'00'	SE	10,000	5,1952	-8,5446	2	584 967 6713	9 548 411,1729	8,489	
443	E133-E134	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E134	584 996,6545	9 548 440,4983	6,078	
444	E134-E135	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E135	585 013,7437	9 548 450,8887	5,735	
445	E134-1	328 42'00"	31	18'00'	NW	15,000	-7,7928	12,8169	1	584 988 6617	9 548 453 3152	6,046	
446	E134-2	148 42'00"	31	18'00'	SE	12,000	6,2342	-10,2535	2	585 002 8867	9 548 430 2448	6,458	
447	E134-3	148 42'00"	31	18'00'	SE	15,000	7,7928	-12,8169	3	585 004 4473	9 548 427 6614	7,738	
448	E135-E+13	58 42'01"	58	42'01"	NE	13,000	11,1080	6,7537	E+13	585 024,8517	9 548 457,6424	5,785	
449	E+13-E136	58 42'01"	58	42'01"	NE	7,000	5,9812	3,6366	E136	585 030,8329	9 548 461,2790	5,584	
450	E136-E137	58 42'00"	58	42'00"	NE	20,000	17,0892	10,3904	E137	585 047,9221	9 548 471,6694	5,050	

J00061

Relatório das coordenadas de todos os pontos.

Nível ADITORA DE CAPONGA

Local CASCAVEL - PE

Processado SPH

Proprietário

Data 26/08/97

IN PONT	ALINHAMENTO EST. P.V.	AZIMUTE		DISTANCIA HORIZONTAL	LONG. PARC.		LAT. PARC.		COORD. E (X)		COORD. N (Y)		COORD. Z DO PONTO
		COMPENSADO	P. U. M. O. QD		X	Y	Z	TOT	COMPENS.	TOT	COMPENS.		
451	E137-E+5	153	13'13"	26	46'47"	SE	5,000	2,2528	-4,4637	E+5	585 050,1749	9 548 467,2057	4,982
452	E+5-E138	153	13'15"	26	46'45"	SE	15,000	6,7583	-13,3912	E138	585 056,9332	9 548 453,8145	5,987
453	E138-E139	153	13'15"	26	46'45"	SE	20,000	9,0111	-17,8550	E139	585 065,9443	9 548 435,9595	6,612
454	E138-1	63	13'15"	63	13'15"	NE	2,000	1,7855	0,9611	1	585 058,7187	9 548 454,7156	6,251
455	E138-2	63	13'15"	63	13'15"	NE	9,500	6,4811	4,2803	2	585 065,4143	9 548 458,0948	8,250
456	E138-3	63	13'15"	63	13'15"	NE	15,000	13,3912	6,7583	3	585 070,3244	9 548 460,5728	8,241
457	E138-4	243	13'15"	63	13'15"	SW	15,000	-13,3912	-6,7583	4	585 043,5420	9 548 447,0562	6,060
458	E139-E140	153	13'15"	26	46'45"	SE	20,000	9,0111	-17,8550	E140	585 074,9554	9 548 418,1045	7,095
459	E140-E141	153	13'15"	26	46'45"	SE	20,000	9,0111	-17,8550	E141	585 083,9665	9 548 400,2495	8,193
460	E140-1	63	13'15"	63	13'15"	NE	5,000	4,4637	2,2528	1	585 079,4191	9 548 420,3573	7,079
461	E140-2	63	13'15"	63	13'15"	NE	10,000	8,9275	4,5055	2	585 083,8829	9 548 422,6100	8,193
462	E140-3	63	13'15"	63	13'15"	NE	15,000	13,3912	6,7583	3	585 088,3466	9 548 424,8628	8,105
463	E140-4	243	13'15"	63	13'15"	SW	15,000	-13,3912	-6,7583	4	585 061,5642	9 548 411,3462	7,089
464	E141-E142	153	13'15"	26	46'45"	SE	20,000	9,0111	-17,8550	E142	585 092,9776	9 548 382,3945	9,435
465	E142-E143	60	43'15"	60	43'15"	NE	20,000	17,4449	9,7813	E143	585 110,4225	9 548 392,1758	10,064
466	E142-1	63	13'15"	63	13'15"	NE	8,400	7,4991	3,7846	1	585 100,4767	9 548 386,1791	9,344
467	E142-2	63	13'15"	63	13'15"	NE	15,000	13,3912	6,7583	2	585 105,3688	9 548 369,1528	9,345
468	E142-3	243	13'15"	63	13'15"	SW	15,000	-13,3912	-6,7583	3	585 079,5664	9 548 375,6362	9,585
469	E143-E144	75	46'30"	75	46'30"	NE	20,000	19,3868	4,9146	E144	585 129,8093	9 548 397,0904	11,092
470	E144-E145	75	46'30"	75	46'30"	NE	20,000	19,3868	4,9146	E145	585 149,1961	9 548 402,0050	10,862
471	E144-1	145	46'30"	14	13'30"	NW	8,700	-2,1579	8,4332	1	585 127,6714	9 548 405,5236	11,050
472	E144-2	145	46'30"	14	13'30"	NW	15,000	-3,6860	14,5401	2	585 128,1233	9 548 411,6305	11,168
473	E144-3	145	46'30"	14	13'30"	SE	15,000	2,6860	-14,5401	3	585 133,4953	9 548 362,5503	11,352
474	E145-E146	75	46'30"	75	46'30"	NE	20,000	19,3868	4,9146	E146	585 168,5829	9 548 406,9196	12,033
475	E146-E147	75	46'30"	75	46'30"	NE	20,000	19,3868	4,9146	E147	585 187,9697	9 548 411,8342	12,525
476	E146-1	145	46'30"	14	13'30"	NW	10,200	1,8064	9,8672	1	585 164,0765	9 548 416,8068	13,230
477	E146-2	145	46'30"	14	13'30"	NW	15,000	-3,6860	14,5401	2	585 164,4969	9 548 421,4597	13,241
478	E146-3	145	46'30"	14	13'30"	SE	15,000	3,6860	-14,5401	3	585 172,2543	9 548 392,3795	12,141
479	E147-E148	75	46'30"	75	46'30"	NE	20,000	19,3868	4,9146	E148	585 207,3565	9 548 416,7488	13,474
480	E148-E149	75	46'30"	75	46'30"	NE	20,000	19,3868	4,9146	E149	585 226,7433	9 548 421,6634	14,125
481	E148-1	145	46'30"	14	13'30"	NW	8,700	-2,1579	8,4332	1	585 205,2186	9 548 425,1620	14,474
482	E148-2	145	46'30"	14	13'30"	NW	15,000	-3,6860	14,5401	2	585 203,6705	9 548 431,2885	14,600
483	E148-3	145	46'30"	14	13'30"	SE	15,000	3,6860	-14,5401	3	585 211,0425	9 548 402,2387	13,509
484	E149-E150	75	46'30"	75	46'30"	NE	20,000	19,3868	4,9146	E150	585 246,1301	9 548 426,5780	14,415
485	E150-E151	75	46'30"	75	46'30"	NE	20,000	19,3868	4,9146	E151	585 265,5169	9 548 431,4926	15,712
486	E150-1	145	46'30"	14	13'30"	NW	6,600	-1,6218	6,3976	1	585 244,5083	9 548 432,9756	15,415
487	E150-2	145	46'30"	14	13'30"	NW	15,000	-3,6860	14,5401	2	585 242,4441	9 548 441,1181	15,431
488	E150-3	165	46'30"	14	13'30"	SE	1,600	0,3932	-1,5509	3	585 246,5233	9 548 425,0271	14,315
489	E150-4	145	46'30"	14	13'30"	SE	2,000	0,7372	-2,9080	4	585 246,8673	9 548 423,6700	12,265
490	E150-5	165	46'30"	14	13'30"	SE	15,000	3,6860	-14,5401	5	585 249,8161	9 548 412,0379	12,287
491	E151-E152	75	46'30"	75	46'30"	NE	20,000	19,3868	4,9146	E152	585 284,9037	9 548 436,4072	17,018
492	E152-E+12	75	46'30"	75	46'30"	NE	12,000	11,6321	2,9488	E+12	585 296,5358	9 548 439,3560	17,668
493	E152-1	145	46'30"	14	13'30"	NW	4,500	-1,1058	4,3620	1	585 283,7979	9 548 440,7692	17,321
494	E152-2	145	46'30"	14	13'30"	NW	15,000	-3,6860	14,5401	2	585 281,2177	9 548 450,9473	17,340
495	E152-3	165	46'30"	14	13'30"	SE	3,000	0,7372	2,9080	3	585 285,6409	9 548 433,4992	17,224

Relatório das coordenadas de todos os pontos.

ADUTOVA DE CARONGA														
Proprietário														
Data 26/09/97														
IN	ALINHAMENTO	AZIMUTE	DISTANCIA	LONG PARC	LAT PARC	COORD E (X)	COORD N (Y)	COORD Z						
FILE	EST	COMPENSADO	QUAD	HORIZONTAL	Y	W	S	P	TOT	COMPENS	TOT	COMPENS	DO PONTO	
486	E152-4	145 48'30"	14 13'30"	SE	4,000	1 1798	-4 6538	4	585 286 9832	9 548 431 7544	14 730			
487	E152-5	147 48'30"	14 13'30"	SE	15,000	3 6860	14 5491	5	585 288 5897	9 548 421,8671	14 650			
498	E+12-E153	78 36'30"	78 36'30"	NE	8,000	7,8424	1,5801	E153	585 304,3782	9 548 440,9361	18,097			
499	E153-E154	78 36'30"	78 36'30"	NE	20,000	15,6060	3,9503	E154	585 323,9842	9 548 444,8864	19,032			
500	E154-E155	78 36'30"	78 36'30"	NE	20,000	15,6060	3,9503	E155	585 343,5902	9 548 448,8367	20,711			
501	E154-1	348 36'30"	11 23'30"	NW	4,000	-0,7901	3,9212	1	585 323,1941	9 548 448,8076	19,604			
502	E154-2	344 36'30"	11 23'30"	NW	15,000	-2,9627	14 7045	2	585 321 0215	9 548 459,5909	19,732			
503	E154-3	168 36'30"	11 23'30"	SE	2,000	0,3950	-1 9606	3	585 324,3792	9 548 442 9258	18,998			
504	E154-4	168 36'30"	11 23'30"	SE	3,800	0,7506	-3 7251	4	585 324,7348	9 548 441,1613	16,188			
505	E154-5	168 36'30"	11 23'30"	SE	15,000	2,9627	-14 7045	5	585 326,9469	9 548 430,1819	16 132			
506	E155-E156	78 36'30"	78 36'30"	NE	20,000	19,6060	3,9503	E156	585 363,1962	9 548 452,7870	21,442			
507	E156-E157	78 36'30"	78 36'30"	NE	20,000	19,6060	3,9503	E157	585 382,8022	9 548 456,7373	22,196			
508	E156-1	346 36'30"	11 23'30"	NW	4,000	-0,7901	3 9212	1	585 362,4061	9 548 456,7082	21 692			
509	E156-2	344 36'30"	11 23'30"	NW	15,000	-2 9627	14 7045	2	585 360,2335	9 548 467,4915	21 736			
510	E156-3	168 36'30"	11 23'30"	SE	8,000	1 5801	-7 8424	3	585 364,7763	9 548 444,9446	21 536			
511	E157-E158	78 36'30"	78 36'30"	NE	20,000	19 6060	3,9503	E158	585 402,4082	9 548 460,6876	23,033			
512	E158-E159	78 36'30"	78 36'30"	NE	20,000	19 6060	3,9503	E159	585 422,0142	9 548 464,6379	23,621			
513	E158-1	344 36'30"	11 23'30"	NW	4,000	-0 7901	3 9212	1	585 401 6181	9 548 461 6088	23 134			
514	E158-2	344 36'30"	11 23'30"	NW	15,000	-2 9627	14 7045	2	585 399 4455	9 548 475 3921	23 155			
515	E158-3	168 36'30"	11 23'30"	SE	1,000	0 1975	-0 9802	2	585 402 6057	9 548 459,7073	23 044			
516	E158-4	168 36'30"	11 23'30"	SE	15,000	2 9627	-14 7045	4	585 405 3709	9 548 445 9851	23 152			
517	E159-E160	78 36'30"	78 36'30"	NE	20,000	19,6060	3,9503	E160	585 441,6202	9 548 468,5882	24,062			
518	E160-E161	78 36'30"	78 36'30"	NE	20,000	19,6060	3 9503	E161	585 461,2262	9 548 472,5385	24,270			
519	E161-1	346 36'30"	11 23'30"	NW	4,000	-0 7901	3 9212	1	585 440 8301	9 548 472 5094	25 045			
520	E161-2	344 36'30"	11 23'30"	NW	15,000	-2 9627	14 7045	2	585 438 6575	9 548 483 2927	25 092			
521	E161-3	168 36'30"	11 23'30"	SE	1,000	0 1975	-0 9802	3	585 441 8177	9 548 467 6079	24 054			
522	E161-4	168 36'30"	11 23'30"	SE	15,000	2 9627	14 7045	4	585 444 5829	9 548 453 9837	24 133			
523	E161-E162	78 36'30"	78 36'30"	NE	20,000	19,6060	3,9503	E162	585 480,8322	9 548 476,4888	24,830			
524	E162-E163	78 36'30"	78 36'30"	NE	20,000	19,6060	3,9503	E163	585 500,4382	9 548 480,4391	25,252			
525	E162-1	348 36'30"	11 23'30"	NW	4,000	-0 7901	3 9212	1	585 480 0421	9 548 480 4100	25 164			
526	E162-2	344 36'30"	11 23'30"	NW	15,000	-2 9627	14 7045	2	585 477 6695	9 548 491 1933	25 303			
527	E162-3	168 36'30"	11 23'30"	SE	5,000	1 9834	-4 9715	3	585 481 8193	9 548 471 5873	24 790			
528	E163-E164	78 36'30"	78 36'30"	NE	20,000	19 6060	3,9503	E164	585 520,0442	9 548 484,3894	25,379			
529	E164-E165	78 36'30"	78 36'30"	NE	20,000	19,6060	3,9503	E165	585 539,6502	9 548 488,3397	25,650			
530	E164-1	348 36'30"	11 23'30"	NW	4,000	-0 7901	3 9212	1	585 519,2641	9 548 483,3106	25 567			
531	E164-2	344 36'30"	11 23'30"	NW	15,000	-2 9627	14 7045	2	585 517 0815	9 548 499 0939	25 309			
532	E164-3	168 36'30"	11 23'30"	SE	0,900	0 1778	0 8823	3	585 520,2220	9 548 483,5071	25 379			
533	E165-E166	83 22'30"	83 22'30"	NE	20,000	19,8665	2,3074	E166	585 559,5167	9 548 490,6471	25,489			
534	E166-E167	83 22'30"	83 22'30"	NE	20,000	19,8665	2,3074	E167	585 579,3832	9 548 492,9545	25,527			
535	E166-1	353 22'30"	6 37'30"	NW	3,800	-0 4384	3 7746	1	585 559 0783	9 548 494 4217	25 699			
536	E166-2	353 22'30"	6 37'30"	NW	15,000	-0 7306	14 8958	2	585 557,7861	9 548 503 5469	25 413			
537	E166-3	172 22'30"	6 37'30"	SE	1,300	0 1500	-1 2913	3	585 559 6667	9 548 489,3558	25 489			
538	E167-E168	83 22'30"	83 22'30"	NE	20,000	19,8665	2,3074	E168	585 599,2497	9 548 495,2619	25,639			
539	E168-E169	83 22'30"	83 22'30"	NE	20,000	19,8665	2,3074	E169	585 619,1162	9 548 497,5693	25,410			
540	E168-1	353 22'30"	6 37'30"	NW	3,800	-0 4384	3,7746	1	585 598,8113	9 548 499,0365	25 944			

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Relatório das coordenadas de todos os pontos. Pg: 13/34

Projeto: ARQUITURA DE CAPONGA Local: CASCAVEL - CE

Processado: SFF Proprietário: Data: 26/09/97

LINHA	ALINHAMENTO	AZIMUTE	RUMBO	DISTANCIA	LONG. PARC.		LAT. PARC.		COORD. E (X)		COORD. N (Y)		COORD. (Z)
					HORIZONTAL	Y	W	Y	N, S	P, M	TOT.	COMPENS.	
541	E168-2	383 22'30"	6 37'30" NE	15,000	-1,7306	14,8998	2	585 597 5191	9 548 510 1617	25 547			
542	E168-3	173 22'30"	6 37'30" SE	6,000	0,6922	-5,9549	3	585 599 9419	9 548 469 3020	25,449			
543	E169-E+10	63 22'30"	83 22'30" NE	10,000	9,9332	1,1537	E+10	585 629,0494	9 548 498,7230	25,580			
544	E+10-E170	92 17'45"	87 42'15" SE	10,000	9,9920	-0,4006	E170	585 639,0414	9 548 498,3224	25,502			
545	E170-E171	92 17'45"	87 42'15" SE	20,000	19,9839	-0,8012	E171	585 659,0253	9 548 497,5212	25,294			
546	E170-1	2 17'45"	2 17'45" NE	3,000	0,1202	2,9976	1	585 639 1616	9 548 501 3200	26,104			
547	E170-2	2 17'45"	2 17'45" NE	15,000	0,6009	14,9880	2	585 639,6423	9 548 513,3104	26,044			
548	E170-3	182 17'45"	2 17'45" SW	2,000	-0,9801	-1,9984	3	585 638,9613	9 548 496,3240	25,414			
549	E170-4	182 17'45"	2 17'45" SW	15,000	-0,6009	-14,9880	4	585 638,4405	9 548 483 3344	25,352			
550	E171-E172	92 17'45"	87 42'15" SE	20,000	19,9839	-0,8012	E172	585 679,0092	9 548 496,7200	25,172			
551	E172-E173	92 17'45"	87 42'15" SE	20,000	19,9839	-0,8012	E173	585 698,9931	9 548 495,9188	25,015			
552	E172-1	2 17'45"	2 17'45" NE	4,800	0,1923	4,7951	1	585 679,2015	9 548 501,5161	25,934			
553	E172-2	2 17'45"	2 17'45" NE	15,000	0,6009	14,9880	2	585 679,5101	9 548 511 7080	25,934			
554	E172-3	182 17'45"	2 17'45" SW	2,000	-0,9801	-1,9984	3	585 678 9291	9 548 494,7216	25,112			
555	E172-4	182 17'45"	2 17'45" SW	15,000	-0,6009	-14,9880	4	585 678 4083	9 548 481 7320	25,168			
556	E173-E174	92 17'45"	87 42'15" SE	20,000	19,9839	-0,8012	E174	585 718,9770	9 548 495,1176	25,037			
557	E174-E175	92 17'45"	87 42'15" SE	20,000	19,9839	-0,8012	E175	585 738,9609	9 548 494,3164	25,215			
558	E174-1	2 17'45"	2 17'45" NE	6,000	0,2404	5,9952	1	585 719 2174	9 548 501 1128	26,032			
559	E174-2	2 17'45"	2 17'45" NE	15,000	0,6009	14,9880	2	585 719 5779	9 548 510,1056	25,819			
560	E174-3	182 17'45"	2 17'45" SW	2,500	-0,1001	-2,4990	3	585 718 8769	9 548 492,6196	24,919			
561	E174-4	182 17'45"	2 17'45" SW	15,000	-0,6009	-14,9880	4	585 718 3761	9 548 480 1296	24,903			
562	E175-E176	92 17'45"	87 42'15" SE	20,000	19,9839	-0,8012	E176	585 758,9448	9 548 493,5152	25,060			
563	E176-E177	92 17'45"	87 42'15" SE	20,000	19,9839	-0,8012	E177	585 778,9287	9 548 492,7140	24,810			
564	E176-1	2 17'45"	2 17'45" NE	0,400	0,0160	0,3997	1	585 758 9608	9 548 493 9148	25,776			
565	E176-2	2 17'45"	2 17'45" NE	15,000	0,6009	14,9880	2	585 758 5457	9 548 508 5032	25,807			
566	E176-3	182 17'45"	2 17'45" SW	3,000	-0,1202	-2,9976	3	585 758 8246	9 548 490 5176	24,976			
567	E176-4	182 17'45"	2 17'45" SW	15,000	-0,6009	-14,9880	4	585 758 3439	9 548 478 5272	24,804			
568	E177-E178	92 17'45"	87 42'15" SE	20,000	19,9839	-0,8012	E178	585 798,9126	9 548 491,9128	24,540			
569	E178-E179	92 17'45"	87 42'15" SE	20,000	19,9839	-0,8012	E179	585 818,8965	9 548 491,1116	24,465			
570	E178-1	2 17'45"	2 17'45" NE	6,900	0,2764	6,8945	1	585 799 1890	9 548 498 8073	25,226			
571	E178-2	2 17'45"	2 17'45" NE	15,000	0,6009	14,9880	2	585 799 5135	9 548 506 9008	25,170			
572	E178-3	182 17'45"	2 17'45" SW	3,000	-0,1202	-2,9976	3	585 798 7924	9 548 488 9152	24,426			
573	E178-4	182 17'45"	2 17'45" SW	15,000	-0,6009	-14,9880	4	585 798 3117	9 548 476 9248	24,170			
574	E179-E180	92 17'45"	87 42'15" SE	20,000	19,9839	-0,8012	E180	585 838,8804	9 548 490,3104	24,372			
575	E180-E181	92 17'45"	87 42'15" SE	20,000	19,9839	-0,8012	E181	585 858,8643	9 548 489,5092	24,302			
576	E180-1	2 17'45"	2 17'45" NE	7,000	0,2804	6,9944	1	585 839 1608	9 548 497,3048	24,996			
577	E180-2	2 17'45"	2 17'45" NE	15,000	0,6009	14,9880	2	585 839 4813	9 548 505 2984	25,002			
578	E180-3	182 17'45"	2 17'45" SW	3,000	-0,1202	-2,9976	3	585 838 7602	9 548 487 3128	24,104			
579	E180-4	182 17'45"	2 17'45" SW	15,000	-0,6009	-14,9880	4	585 838,2795	9 548 475 3224	24,002			
580	E181-E182	92 17'45"	87 42'15" SE	20,000	19,9839	-0,8012	E182	585 878,8482	9 548 488,7080	24,394			
581	E182-E183	95 46'25"	84 13'35" SE	20,000	19,8985	-2,0120	E183	585 898,7467	9 548 486,6960	24,234			
582	E182-1	2 17'45"	2 17'45" NE	7,000	0,2804	6,9944	1	585 879 1286	9 548 495,7024	24,914			
583	E182-2	2 17'45"	2 17'45" NE	15,000	0,6009	14,9880	2	585 879,4491	9 548 503 6960	24,920			
584	E182-3	182 17'45"	2 17'45" SW	2,500	-0,1001	-2,4990	3	585 878,7481	9 548 486 2100	24,380			
585	E182-4	182 17'45"	2 17'45" SW	15,000	-0,6009	-14,9880	4	585 878 2473	9 548 473 7200	24,334			

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Relatório das coordenadas de todos os pontos. Pg: 14/34

Imovel: LACTOR DE CAPONGA Local: CASCAVEL - CE  
 Interessado: SPH Proprietário: Data: 26/08/97

IN DICE	ALINHAMENTO EST. P.V.	AZIMUTE		DISTANCIA HORIZONTAL	LONG. PARC X (E+ W)	LAT. PARC Y (N+ S)	COORD. E (Y)		COORD. N (Y)		COORD. (Z) DO PONTO
		COMPENSADO	P. U. M. O. QD				TOI	COMPENS.	TOI	COMPENS.	
586	E183-E184	95 46'25"	84 13'35" SE	20,000	19,8985	-2,0120	E184	585 918,6452	9 548 484,6840	24,122	
587	E184-E185	95 46'25"	84 13'35" SE	20,000	19,8985	-2,0120	E185	585 938,5437	9 548 482,6720	23,815	
588	E184-1	5 46'25"	5 46'25" NE	7,500	0,7947	7,8599	1	585 919 4339	9 548 492 5439	24 630	
589	E184-2	5 46'25"	5 46'25" NE	15,000	1,5090	14,9239	2	585 920 1542	9 548 499,6079	24 548	
590	E184-3	135 46'25"	5 46'25" SW	1,500	-0,1509	-1,4924	3	585 918 4943	9 548 483 1916	24 862	
591	E184-4	135 46'25"	5 46'25" SW	15,000	-1,5090	-14,9239	4	585 917 1362	9 548 459,7601	24,168	
592	E185-E186	95 46'25"	84 13'35" SE	20,000	19,8985	-2,0120	E186	585 958,4422	9 548 480,6600	23,655	
593	E186-E187	95 46'25"	84 13'35" SE	20,000	19,8985	-2,0120	E187	585 978,3407	9 548 478,6480	23,207	
594	E186-1	5 46'25"	5 46'25" NE	6,700	0,8752	8,6559	1	585 959 3174	9 548 489,3159	24,255	
595	E186-2	5 46'25"	5 46'25" NE	15,000	1,5090	14,9239	2	585 959,9512	9 548 495 5839	24,255	
596	E186-3	135 46'25"	5 46'25" SW	2,000	-0,2012	-1,9899	3	585 958 2410	9 548 478,6701	23,575	
597	E186-4	135 46'25"	5 46'25" SW	15,000	-1,5090	-14,9239	4	585 956 9332	9 548 465,7361	23,662	
598	E187-E188	95 46'25"	84 13'35" SE	20,000	19,8985	-2,0120	E188	585 998,2392	9 548 476,6360	22,832	
599	E188-E189	95 46'25"	84 13'35" SE	20,000	19,8985	-2,0120	E189	586 018,1377	9 548 474,6240	22,664	
600	E188-1	5 46'25"	5 46'25" NE	8,500	0,8551	8,4569	1	585 999,0943	9 548 485,0929	23,532	
601	E188-2	5 46'25"	5 46'25" NE	15,000	1,5090	14,9239	2	585 999 7482	9 548 491 5599	23,601	
602	E188-3	135 46'25"	5 46'25" SW	2,000	-0,2012	-1,9899	3	585 998 0393	9 548 474,6461	22 816	
603	E188-4	135 46'25"	5 46'25" SW	15,000	-1,5090	-14,9239	4	585 996 7302	9 548 461 7121	22,897	
604	E189-E190	95 46'25"	84 13'35" SE	20,000	19,8985	-2,0120	E190	586 038,0362	9 548 472,6120	22,557	
605	E190-E191	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E191	586 057,8907	9 548 470,2040	22,162	
606	E190-1	5 46'25"	5 46'25" NE	8,200	0,8249	8,1584	1	586 038,8611	9 548 460 7704	23 274	
607	E190-2	5 46'25"	5 46'25" NE	15,000	1,5090	14,9239	2	586 039 0452	9 548 467 8359	23 357	
608	E190-3	135 46'25"	5 46'25" SW	2,000	-0,2012	-1,9899	3	586 037 6350	9 548 470 6221	22 550	
609	E190-4	135 46'25"	5 46'25" SW	15,000	-1,5090	-14,9239	4	586 036 5272	9 548 467 6981	22 590	
610	E191-E192	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E192	586 077,7452	9 548 467,7960	21,983	
611	E192-E193	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E193	586 097,5997	9 548 465,3880	21,578	
612	E192-1	5 54'55"	6 54'55" NE	8,300	0,9993	8,2396	1	586 077,7445	9 548 476 0356	22 831	
613	E192-2	5 54'55"	6 54'55" NE	15,000	1,5000	14,8909	2	586 079 5512	9 548 482 8969	22 767	
614	E192-3	135 54'55"	6 54'55" SW	3,300	-0,3612	-2,9782	3	586 077 3840	9 548 464,8178	22 131	
615	E192-4	135 54'55"	6 54'55" SW	15,000	-1,5060	-14,8909	4	586 075 9392	9 548 452 9051	22 156	
616	E193-E194	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E194	586 117,4542	9 548 462,9800	21,445	
617	E194-E195	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E195	586 137,3087	9 548 460,5720	21,307	
618	E194-1	5 54'55"	6 54'55" NE	8,300	0,9993	8,2396	1	586 119,4535	9 548 471 2196	22,111	
619	E194-2	5 54'55"	6 54'55" NE	15,000	1,5000	14,8909	2	586 119 2602	9 548 477 8709	22 096	
620	E194-3	135 54'55"	6 54'55" SW	3,300	-0,3612	-2,9782	3	586 117 0920	9 548 460 8016	21 458	
621	E194-4	135 54'55"	6 54'55" SW	15,000	-1,5060	-14,8909	4	586 115 6482	9 548 448 0891	21,560	
622	E195-E196	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E196	586 157,1632	9 548 458,1640	20,962	
623	E196-E197	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E197	586 177,0177	9 548 455,7560	20,857	
624	E196-1	5 54'55"	6 54'55" NE	8,300	0,9993	8,2396	1	586 158 1625	9 548 466,4036	22 184	
625	E196-2	5 54'55"	6 54'55" NE	15,000	1,5000	14,8909	2	586 158 9692	9 548 473,0549	22 188	
626	E196-3	135 54'55"	6 54'55" SW	3,300	-0,3612	-2,9782	3	586 156 8020	9 548 455 1858	20 973	
627	E196-4	135 54'55"	6 54'55" SW	15,000	-1,5060	-14,8909	4	586 155 3572	9 548 443 2731	20,998	
628	E197-E198	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E198	586 196,8722	9 548 453,3480	20,833	
629	E198-E199	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E199	586 216,7267	9 548 450,9400	20,455	
630	E198-1	6 54'55"	6 54'55" NE	8,200	0,9873	8,1403	1	586 197 6595	9 548 461 4883	22 075	

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**Relatório das coordenadas de todos os pontos.**

NO	ABUTORA	ABUTADA	Local	ALIVEL	DATA						
NO	SRP	Proprietário	Data 26/08/97								
NO	ALINHAMENTO	ABUTADA	DISTANCIA	LONG PARC	TAT PARC	COORD E (Y)	COORD N (Y)	COORD (Z)			
NO	EST. E. W.	COMPENSADO	R U M O QD	HORIZONTAL	X	Y	Z	DO PONTO			
NO	EST. E. W.	COMPENSADO	R U M O QD	HORIZONTAL	X	Y	Z	DO PONTO			
601	E198-2	6 54'55"	6 54'55" NE	15,000	1,8060	14,8909	2,586	198,6782	9,548	468,2389	22,059
602	E198-3	14 54'55"	6 54'55" SW	2,500	-0,3010	-2,4818	3,586	196,5712	9,548	450,8662	20,799
603	E198-4	18 54'55"	6 54'55" S	15,000	-1,8060	-14,8909	4,586	195,0662	9,548	438,4571	20,816
604	<b>E199-E200</b>	<b>96 54'55"</b>	<b>83 05'05" SE</b>	<b>20,000</b>	<b>19,8545</b>	<b>-2,4080</b>	<b>E200</b>	<b>586 236,5812</b>	<b>9 548</b>	<b>448,5320</b>	<b>20,978</b>
605	<b>E200-E201</b>	<b>96 54'55"</b>	<b>83 05'05" SE</b>	<b>20,000</b>	<b>19,8545</b>	<b>-2,4080</b>	<b>E201</b>	<b>586 256,4357</b>	<b>9 548</b>	<b>446,1240</b>	<b>21,189</b>
606	E200-1	4 54'55"	6 54'55" NE	4,000	0,4816	3,9709	1,586	237,0628	9,548	452,5029	21,027
607	E200-2	8 54'55"	6 54'55" NE	8,300	0,9993	8,2396	2,586	237,5805	9,548	456,7716	22,452
608	E200-3	12 54'55"	6 54'55" NE	15,000	1,8060	14,8909	3,586	238,3872	9,548	463,4229	22,448
609	E200-4	16 54'55"	6 54'55" SW	3,000	-0,3612	-2,9782	4,586	236,2200	9,548	445,5538	20,938
610	E200-5	18 54'55"	6 54'55" SW	15,000	-1,8060	-14,8909	5,586	234,7752	9,548	433,6411	21,041
611	<b>E201-E202</b>	<b>96 54'55"</b>	<b>83 05'05" SE</b>	<b>20,000</b>	<b>19,8545</b>	<b>-2,4080</b>	<b>E202</b>	<b>586 276,2902</b>	<b>9 548</b>	<b>443,7160</b>	<b>21,351</b>
612	<b>E202-E203</b>	<b>96 54'55"</b>	<b>83 05'05" SE</b>	<b>20,000</b>	<b>19,8545</b>	<b>-2,4080</b>	<b>E203</b>	<b>586 296,1447</b>	<b>9 548</b>	<b>441,3080</b>	<b>21,466</b>
613	E202-1	4 54'55"	6 54'55" NE	4,000	0,4816	3,9709	1,586	276,7718	9,548	447,6869	21,514
614	E202-2	8 54'55"	6 54'55" NE	8,300	0,9993	8,2396	2,586	277,2895	9,548	451,9556	22,717
615	E202-3	12 54'55"	6 54'55" NE	15,000	1,8060	14,8909	3,586	278,0962	9,548	458,6069	22,709
616	E202-4	16 54'55"	6 54'55" SW	3,000	-0,3612	-2,9782	4,586	275,9290	9,548	440,7378	21,363
617	E202-5	18 54'55"	6 54'55" SW	15,000	-1,8060	-14,8909	5,586	274,4842	9,548	428,8251	21,516
618	<b>E203-E204</b>	<b>96 54'55"</b>	<b>83 05'05" SE</b>	<b>20,000</b>	<b>19,8545</b>	<b>-2,4080</b>	<b>E204</b>	<b>586 315,9992</b>	<b>9 548</b>	<b>438,9000</b>	<b>21,591</b>
619	<b>E204-E205</b>	<b>96 54'55"</b>	<b>83 05'05" SE</b>	<b>20,000</b>	<b>19,8545</b>	<b>-2,4080</b>	<b>E205</b>	<b>586 335,8537</b>	<b>9 548</b>	<b>436,4920</b>	<b>21,722</b>
620	E204-1	4 54'55"	6 54'55" NE	4,000	0,4816	3,9709	1,586	315,4808	9,548	442,8709	21,518
621	E204-2	8 54'55"	6 54'55" NE	8,300	0,9993	8,2396	2,586	316,4985	9,548	447,1396	22,607
622	E204-3	12 54'55"	6 54'55" NE	15,000	1,8060	14,8909	3,586	317,8052	9,548	453,7909	22,594
623	E204-4	16 54'55"	6 54'55" SW	3,000	-0,3612	-2,9782	4,586	315,6380	9,548	435,9218	21,538
624	E204-5	18 54'55"	6 54'55" SW	15,000	-1,8060	-14,8909	5,586	314,1932	9,548	424,0091	21,619
625	<b>E205-E206</b>	<b>96 54'55"</b>	<b>83 05'05" SE</b>	<b>20,000</b>	<b>19,8545</b>	<b>-2,4080</b>	<b>E206</b>	<b>586 355,7082</b>	<b>9 548</b>	<b>434,0840</b>	<b>21,529</b>
626	<b>E206-E207</b>	<b>96 54'55"</b>	<b>83 05'05" SE</b>	<b>20,000</b>	<b>19,8545</b>	<b>-2,4080</b>	<b>E207</b>	<b>586 375,5627</b>	<b>9 548</b>	<b>431,6760</b>	<b>21,582</b>
627	E206-1	4 54'55"	6 54'55" NE	4,000	0,4816	3,9709	1,586	355,2018	9,548	438,1542	21,527
628	E206-2	8 54'55"	6 54'55" NE	8,300	0,9993	8,2396	2,586	356,1075	9,548	442,3236	22,531
629	E206-3	12 54'55"	6 54'55" NE	15,000	1,8060	14,8909	3,586	357,0142	9,548	448,9749	22,529
630	E206-4	16 54'55"	6 54'55" SW	3,000	-0,3612	-2,9782	4,586	355,8470	9,548	431,1058	21,499
631	E206-5	18 54'55"	6 54'55" SW	15,000	-1,8060	-14,8909	5,586	353,9022	9,548	419,1931	21,528
632	<b>E207-E208</b>	<b>96 54'55"</b>	<b>83 05'05" SE</b>	<b>20,000</b>	<b>19,8545</b>	<b>-2,4080</b>	<b>E208</b>	<b>586 395,4172</b>	<b>9 548</b>	<b>429,2680</b>	<b>21,570</b>
633	<b>E208-E209</b>	<b>96 54'55"</b>	<b>83 05'05" SE</b>	<b>20,000</b>	<b>19,8545</b>	<b>-2,4080</b>	<b>E209</b>	<b>586 415,2717</b>	<b>9 548</b>	<b>426,8600</b>	<b>21,728</b>
634	E208-1	4 54'55"	6 54'55" NE	4,000	0,4816	3,9709	1,586	395,8988	9,548	433,2389	21,777
635	E208-2	8 54'55"	6 54'55" NE	8,300	0,9993	8,2396	2,586	396,4165	9,548	437,5076	22,476
636	E208-3	12 54'55"	6 54'55" NE	15,000	1,8060	14,8909	3,586	397,2232	9,548	444,1589	22,428
637	E208-4	16 54'55"	6 54'55" SW	3,000	-0,3612	-2,9782	4,586	395,0560	9,548	426,2898	21,514
638	E208-5	18 54'55"	6 54'55" SW	15,000	-1,8060	-14,8909	5,586	393,6112	9,548	414,3771	21,028
639	<b>E209-E210</b>	<b>96 54'55"</b>	<b>83 05'05" SE</b>	<b>20,000</b>	<b>19,8545</b>	<b>-2,4080</b>	<b>E210</b>	<b>586 435,1262</b>	<b>9 548</b>	<b>424,4520</b>	<b>21,950</b>
640	<b>E210-E211</b>	<b>96 54'55"</b>	<b>83 05'05" SE</b>	<b>20,000</b>	<b>19,8545</b>	<b>-2,4080</b>	<b>E211</b>	<b>586 454,9807</b>	<b>9 548</b>	<b>422,0440</b>	<b>22,091</b>
641	E210-1	4 54'55"	6 54'55" NE	4,000	0,4816	3,9709	1,586	435,5958	9,548	428,3236	22,047
642	E210-2	8 54'55"	6 54'55" NE	8,300	0,9993	8,2396	2,586	436,1255	9,548	432,6916	22,852
643	E210-3	12 54'55"	6 54'55" NE	15,000	1,8060	14,8909	3,586	436,9322	9,548	438,3429	22,841
644	E210-4	16 54'55"	6 54'55" SW	3,000	-0,3612	-2,9782	4,586	434,7650	9,548	421,4738	21,876
645	E210-5	18 54'55"	6 54'55" SW	15,000	-1,8060	-14,8909	5,586	433,3202	9,548	409,5611	21,496

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Relatório das coordenadas de todos os pontos.

ADUTORA DE CROPONGA		Local		DESCRIBE		C		Data		26/08/97	
SFF		Proprietário									
LN	ALINHAMENTO	AZIMUTE	DISTANCIA	LONG PARC	LAT PARC	COORD E (Y)	COORD N (Y)	COORD X	COORD Y	COORD Z	COORD W
DECE	EST	COMPENSADO	HORIZONTAL	X	Y	TOT	TOT	DE PONTO	DE PONTO	DE PONTO	DE PONTO
676	E211-E212	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E212	586 474,8352	9 548 419,6360	22,379	
677	E212-E213	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E213	586 494,6897	9 548 417,2280	22,756	
678	E212-1	6 54'55"	6 54'55" NE	3,600	0,4334	3,5736	1	586 475,2686	9 548 423,2036	22,503	
679	E212-2	6 54'55"	6 54'55" NE	7,900	0,9512	7,8425	2	586 475,7664	9 548 427,4765	23,256	
680	E212-3	6 54'55"	6 54'55" NE	15,000	1,8060	14,8909	3	586 476,6412	9 548 434,5269	23,235	
681	E212-4	186 54'55"	6 54'55" SW	3,600	-0,3612	-2,9762	4	586 474,4740	9 548 416,6578	22,273	
682	E212-5	186 54'55"	6 54'55" SW	15,000	-1,8060	-14,8909	5	586 473,0292	9 548 404,7451	21,921	
683	E213-E214	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E214	586 514,5442	9 548 414,8200	23,130	
684	E214-E215	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E215	586 534,3987	9 548 412,4120	23,179	
685	E214-1	6 54'55"	6 54'55" NE	3,600	0,3612	2,9762	1	586 514,9054	9 548 417,7982	23,100	
686	E214-2	6 54'55"	6 54'55" NE	7,300	0,8789	7,2469	2	586 515,4231	9 548 422,0669	23,924	
687	E214-3	6 54'55"	6 54'55" NE	15,000	1,8060	14,8909	3	586 516,3502	9 548 429,7109	23,993	
688	E214-4	186 54'55"	6 54'55" SW	3,600	-0,4334	-3,5736	4	586 514,1108	9 548 411,2462	23,010	
689	E214-5	186 54'55"	6 54'55" SW	15,000	-1,8060	-14,8909	5	586 512,7382	9 548 399,9291	22,873	
690	E215-E216	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E216	586 554,2532	9 548 410,0040	23,206	
691	E216-E217	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E217	586 574,1077	9 548 407,5960	23,402	
692	E216-1	6 54'55"	6 54'55" NE	6,800	0,8107	6,7565	1	586 555,8719	9 548 416,7545	23,666	
693	E216-2	6 54'55"	6 54'55" NE	15,000	1,8060	14,8909	2	586 556,8892	9 548 424,8849	23,730	
694	E216-3	186 54'55"	6 54'55" SW	3,600	-0,3612	-2,9762	3	586 552,6920	9 548 407,0258	23,094	
695	E216-4	186 54'55"	6 54'55" SW	15,000	-1,8060	-14,8909	4	586 552,4472	9 548 395,1131	23,016	
696	E217-E218	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E218	586 593,9622	9 548 405,1880	23,600	
697	E218-E219	96 54'55"	83 05'05" SE	20,000	19,8545	-2,4080	E219	586 613,8167	9 548 402,7800	23,512	
698	E218-1	6 54'55"	6 54'55" NE	5,800	0,5833	5,7576	1	586 594,6608	9 548 410,9458	24,560	
699	E218-2	6 54'55"	6 54'55" NE	15,000	1,8060	14,8909	2	586 595,7682	9 548 420,0789	24,592	
700	E218-3	186 54'55"	6 54'55" SW	5,000	-0,5020	-4,9636	3	586 593,3602	9 548 400,2244	23,634	
701	E218-4	186 54'55"	6 54'55" SW	15,000	-1,5040	-14,8909	4	586 592,1562	9 548 389,2971	23,499	
702	E219-E220	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E220	586 633,6029	9 548 399,8631	23,679	
703	E220-E221	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E221	586 653,3891	9 548 396,9462	23,728	
704	E220-1	6 23'10"	8 23'10" NE	5,900	0,6459	5,7380	1	586 634,4488	9 548 405,6011	24,730	
705	E220-2	6 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	586 635,7935	9 548 414,7027	24,791	
706	E220-3	186 23'10"	8 23'10" SW	5,000	-0,7292	-4,9448	3	586 632,8737	9 548 394,9164	23,587	
707	E220-4	186 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	586 631,4153	9 548 385,0235	23,339	
708	E221-E222	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E222	586 673,1753	9 548 394,0293	23,822	
709	E222-E223	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E223	586 692,9615	9 548 391,1124	23,790	
710	E222-1	6 23'10"	8 23'10" NE	5,800	0,5859	5,7380	1	586 674,0212	9 548 393,7670	24,830	
711	E222-2	6 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	586 675,3629	9 548 406,8689	24,948	
712	E222-3	186 23'10"	8 23'10" SW	5,000	-0,7292	-4,9448	3	586 672,4461	9 548 389,6828	23,771	
713	E222-4	186 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	586 671,9877	9 548 379,1897	23,582	
714	E223-E224	96 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E224	586 712,7477	9 548 388,1955	23,615	
715	E224-E225	96 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E225	586 732,5339	9 548 385,2786	23,467	
716	E224-1	6 23'10"	8 23'10" NE	5,900	0,6459	5,7380	1	586 713,5936	9 548 393,9335	24,835	
717	E224-2	6 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	586 714,9353	9 548 403,0351	24,871	
718	E224-3	186 23'10"	8 23'10" SW	5,000	-0,7292	-4,9448	3	586 712,0185	9 548 383,2490	23,407	
719	E224-4	186 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	586 710,5601	9 548 373,3559	23,085	
720	E225-E226	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E226	586 752,3201	9 548 382,3617	23,262	

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Relatório das coordenadas de todos os pontos.

Atividade: ADUTORIA DE ABONDA Local: CASAVEL - CE

Interessado: SAA Proprietário: Data: 26/09/97

LINHA	ALINHAMENTO	AZIMUTE		DISTANCIA	LONG. PARC.		LAI	PARC.	COORD. E (X)		COORD. N (Y)		COORD. Z (DO PONTO)			
		COMPENSADO	RUMO		X	Y			TOT	COMPENS	TOT	COMPENS				
721	E226-E227	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E227	586	772,1063	9	548	379,4448	23,390
722	E226-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	586	753,1660	9	548	389,0997	24,739
723	E226-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	586	754,5077	9	548	397,2013	24,719
724	E226-3	158	23'10"	8	23'10"	SW	0,400	-0,3583	-0,3457	3	586	752,2618	9	548	381,9660	23,254
725	E226-4	158	23'10"	8	23'10"	SW	5,000	-0,7292	-4,9465	4	586	751,5909	9	548	377,4152	21,289
726	E226-5	158	23'10"	8	23'10"	SW	15,000	-2,1876	-14,8396	5	586	750,1325	9	548	357,5221	21,122
727	E227-E228	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E228	586	791,8925	9	548	376,5279	23,430
728	E228-E229	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E229	586	811,6787	9	548	373,6110	23,455
729	E228-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	586	792,7384	9	548	382,2659	24,452
730	E228-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	586	794,0801	9	548	391,3675	24,430
731	E228-3	158	23'10"	8	23'10"	SW	0,800	-0,1167	-0,7914	3	586	791,7756	9	548	375,7365	23,282
732	E228-4	158	23'10"	8	23'10"	SW	5,000	-0,7292	-4,9465	4	586	791,1633	9	548	371,5814	21,822
733	E228-5	158	23'10"	8	23'10"	SW	15,000	-2,1876	-14,8396	5	586	789,7049	9	548	361,6883	21,162
734	E229-E230	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E230	586	831,4649	9	548	370,6941	23,500
735	E230-E231	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E231	586	851,2511	9	548	367,7772	23,565
736	E230-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	586	832,3106	9	548	376,4321	24,598
737	E230-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	586	833,6525	9	548	385,5337	24,484
738	E230-3	158	23'10"	8	23'10"	SW	1,000	-0,1458	-0,9493	3	586	831,3191	9	548	369,7048	23,390
739	E230-4	158	23'10"	8	23'10"	SW	18,000	-2,1876	-14,8396	4	586	829,2773	9	548	355,5545	21,440
740	E231-E232	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E232	586	871,0373	9	548	364,8603	23,585
741	E232-E233	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E233	586	890,8235	9	548	361,9434	23,776
742	E232-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	586	871,8832	9	548	370,5983	24,681
743	E232-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	586	873,2249	9	548	379,6999	24,659
744	E232-3	158	23'10"	8	23'10"	SW	1,000	-0,1458	-0,9493	3	586	870,8915	9	548	363,6710	23,561
745	E232-4	158	23'10"	8	23'10"	SW	18,000	-2,1876	-14,8396	4	586	868,8497	9	548	350,0207	21,261
746	E233-E234	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E234	586	910,6097	9	548	359,0265	24,103
747	E234-E235	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E235	586	930,3959	9	548	356,1096	23,925
748	E234-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	586	911,4556	9	548	364,7645	24,697
749	E234-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	586	912,7973	9	548	373,8661	24,735
750	E234-3	158	23'10"	8	23'10"	SW	3,000	-0,4375	-2,9679	3	586	910,1722	9	548	356,0586	24,084
751	E235-E236	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E236	586	950,1821	9	548	353,1927	23,873
752	E236-E237	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E237	586	969,9683	9	548	350,2758	23,754
753	E236-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	586	951,0280	9	548	358,9307	24,567
754	E236-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	586	952,3697	9	548	368,0323	24,519
755	E236-3	158	23'10"	8	23'10"	SW	5,000	-0,7292	-4,9465	3	586	949,4529	9	548	348,2462	23,845
756	E237-E238	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E238	586	989,7545	9	548	347,3589	23,655
757	E238-E239	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E239	587	009,5407	9	548	344,4420	23,310
758	E238-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	586	990,6004	9	548	353,0969	24,665
759	E238-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	586	991,9421	9	548	362,1985	24,615
760	E238-3	158	23'10"	8	23'10"	SW	5,000	-0,7292	-4,9465	3	586	989,0253	9	548	342,4124	23,655
761	E238-4	158	23'10"	8	23'10"	SW	10,000	-1,4584	-9,8931	4	586	988,2961	9	548	337,4658	23,615
762	E239-E240	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E240	587	029,3269	9	548	341,5251	23,130
763	E240-E241	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E241	587	049,1131	9	548	338,6082	23,340
764	E240-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	587	030,1728	9	548	347,2631	24,516
765	E240-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	587	031,5145	9	548	356,3647	24,497

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Relatório das coordenadas de todos os pontos.

Imovel ADUTORA DA LAPONGA Local I-SIAWEL - CE

Interessado SRM Proprietário Data 26/08/97

PUNTO	ALINHAMENTO	BEIMUTE		DISTANCIA HORIZONTAL	LONG PARC X	LAT PARC Y	COORD E (X)		COORD N (Y)		COORD (Z) DO PONTO	
		COMPENSADO	RUMBO				TOT	COMPENS	TOT	COMPENS		
766	E240-3	164	23'10"	8	23'10" SW	5,300	-0,7292	-4,9465	3	587 028 5977	9 548 336 5786	21 810
767	E240-4	164	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	587 027 1393	9 548 326 6855	20 824
768	<b>E241-E242</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E242</b>	<b>587 068,8993</b>	<b>9 548 335,6913</b>	<b>23,421</b>
769	<b>E242-E243</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E243</b>	<b>587 088,6855</b>	<b>9 548 332,7744</b>	<b>23,062</b>
770	E242-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	587 069 7452	9 548 341,4293	24,361
771	E242-2	8	23'10"	8	23'10" NE	15,000	2,1876	14,8396	2	587 071,0869	9 548 350,5309	24,304
772	E242-3	164	23'10"	8	23'10" SW	5,300	-0,7292	-4,9465	3	587 068,1701	9 548 330,7448	21 821
773	E242-4	164	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	587 066,7117	9 548 320 8517	21,821
774	<b>E243-E244</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E244</b>	<b>587 108,4717</b>	<b>9 548 329,8575</b>	<b>23,554</b>
775	<b>E244-E245</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E245</b>	<b>587 128,2579</b>	<b>9 548 326,9406</b>	<b>23,007</b>
776	E244-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	587 109 3176	9 548 335,5955	24,173
777	E244-2	8	23'10"	8	23'10" NE	15,000	2,1876	14,8396	2	587 110,6593	9 548 344,6971	24,184
778	E244-3	164	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	587 107 7425	9 548 324,9110	23,367
779	E244-4	164	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	587 106,2841	9 548 315,0179	23,120
780	<b>E245-E246</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E246</b>	<b>587 148,0441</b>	<b>9 548 324,0237</b>	<b>23,063</b>
781	<b>E246-E247</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E247</b>	<b>587 167,8303</b>	<b>9 548 321,1068</b>	<b>23,137</b>
782	E246-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	587 148,6900	9 548 329 7617	23 867
783	E246-2	8	23'10"	8	23'10" NE	15,000	2,1876	14,8396	2	587 150 2317	9 548 338,8633	23 873
784	E246-3	164	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	587 147 3149	9 548 319 0772	22 867
785	E246-4	164	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	587 146 8565	9 548 309,1841	22,613
786	<b>E247-E248</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E248</b>	<b>587 187,6165</b>	<b>9 548 318,1899</b>	<b>23,162</b>
787	<b>E248-E249</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E249</b>	<b>587 207,4027</b>	<b>9 548 315,2730</b>	<b>23,045</b>
788	E248-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	587 189 4624	9 548 323 9279	23 806
789	E248-2	8	23'10"	8	23'10" NE	15,000	2,1876	14,8396	2	587 184 8041	9 548 333 0295	23 842
790	E248-3	164	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	587 183 8873	9 548 313 2434	21 772
791	E248-4	164	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	587 182 4289	9 548 303 3503	20 786
792	<b>E249-E250</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E250</b>	<b>587 227,1889</b>	<b>9 548 312,3561</b>	<b>23,006</b>
793	<b>E250-E251</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E251</b>	<b>587 246,9751</b>	<b>9 548 309,4392</b>	<b>22,945</b>
794	E250-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	587 228 0348	9 548 318 0941	24 059
795	E250-2	8	23'10"	8	23'10" NE	15,000	2,1876	14,8396	2	587 228 3765	9 548 327 1957	24 017
796	E250-3	164	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	587 228 4597	9 548 307,4696	21 668
797	E250-4	164	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	587 228 0013	9 548 297 5165	21 087
798	<b>E251-E252</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E252</b>	<b>587 266,7613</b>	<b>9 548 306,5223</b>	<b>22,917</b>
799	<b>E252-E253</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E253</b>	<b>587 286,5475</b>	<b>9 548 303,6054</b>	<b>22,907</b>
800	E252-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	587 267 6072	9 548 312 2603	23 824
801	E252-2	8	23'25"	8	23'25" NE	0,000	0,0000	0,0000	2	587 266 7613	9 548 306,5223	23,842
802	E252-3	164	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	587 266 0321	9 548 301,5758	21 654
803	E252-4	164	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	587 264 5737	9 548 291,6827	20 954
804	<b>E253-E254</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E254</b>	<b>587 306,3337</b>	<b>9 548 300,6885</b>	<b>22,854</b>
805	<b>E254-E255</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E255</b>	<b>587 326,1199</b>	<b>9 548 297,7716</b>	<b>22,709</b>
806	E254-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	587 307 1796	9 548 306,4265	23 854
807	E254-2	8	23'10"	8	23'10" NE	15,000	2,1876	14,8396	2	587 308,5213	9 548 315,5281	23,771
808	E254-3	164	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	587 308 6045	9 548 295 7420	22 662
809	E254-4	164	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	587 304 1461	9 548 285 8489	22 622
810	<b>E255-E256</b>	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	<b>E256</b>	<b>587 345 9061</b>	<b>9 548 294,8547</b>	<b>23,064</b>

Relatório das coordenadas de todos os pontos.

Projeto: ADMISSÃO DE PAROQUIA

Local: ESCADAL DE

Interessado: SPP

Proprietário:

Data: 26/09/97

IN DICE	ALINHAMENTO EST. P.M.	AZIMUTE		DISTANCIA HORIZONTAL	LONG. PARC.		LAT. PARC.		COORD. E (X)		COORD. N (Y)		COORD. (Z) DO PONTO
		COMPENSADO	RUMBO QD		X	Y	X+	Y-	P.M.	TOT. COMPENS.	TOT. COMPENS.		
811	E256-E257	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E257	587 365,6923	9 548 291,9378	23,257
812	E256-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	587 346,7520	9 548 300,5927	23,583
813	E256-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	587 348,0937	9 548 309,6943	23,479
814	E256-3	188	23'10"	8	23'10"	SW	5,000	-0,7292	-4,9465	3	587 345,1769	9 548 289,9092	22,879
815	E256-4	188	23'10"	8	23'10"	SW	15,000	-2,1876	-14,8396	4	587 343,7185	9 548 280,0151	22,855
816	E257-E258	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E258	587 385,4785	9 548 289,0209	22,469
817	E258-E259	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E259	587 405,2647	9 548 286,1040	22,429
818	E258-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	587 386,3244	9 548 294,7589	23,173
819	E258-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	587 387,6661	9 548 303,8605	23,139
820	E258-3	188	23'10"	8	23'10"	SW	5,000	-0,7292	-4,9465	3	587 384,7493	9 548 284,0744	22,542
821	E258-4	188	23'10"	8	23'10"	SW	15,000	-2,1876	-14,8396	4	587 383,2909	9 548 274,1813	22,539
822	E259-E260	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E260	587 425,0509	9 548 283,1871	22,306
823	E260-E261	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E261	587 444,8371	9 548 280,2702	22,154
824	E260-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	587 425,8968	9 548 288,9251	23,200
825	E260-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	587 427,2385	9 548 298,0267	23,099
826	E260-3	188	23'10"	8	23'10"	SW	5,000	-0,7292	-4,9465	3	587 424,3217	9 548 278,2406	22,396
827	E260-4	188	23'10"	8	23'10"	SW	15,000	-2,1876	-14,8396	4	587 422,8633	9 548 268,3475	22,501
828	E261-E262	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E262	587 464,6233	9 548 277,3533	22,126
829	E262-E263	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E263	587 484,4095	9 548 274,4364	21,829
830	E262-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	587 465,4692	9 548 283,0913	23,014
831	E262-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	587 466,8109	9 548 292,1929	23,002
832	E262-3	188	23'10"	8	23'10"	SW	5,000	-0,7292	-4,9465	3	587 463,8941	9 548 272,4068	22,120
833	E262-4	188	23'10"	8	23'10"	SW	15,000	-2,1876	-14,8396	4	587 462,4357	9 548 262,5137	22,140
834	E263-E264	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E264	587 504,1957	9 548 271,5195	21,689
835	E264-E265	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E265	587 523,9819	9 548 268,6026	21,670
836	E264-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	587 505,0416	9 548 277,2575	22,694
837	E264-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	587 506,3833	9 548 286,3591	22,683
838	E264-3	188	23'10"	8	23'10"	SW	5,000	-0,7292	-4,9465	3	587 503,4665	9 548 266,5730	21,593
839	E264-4	188	23'10"	8	23'10"	SW	15,000	-2,1876	-14,8396	4	587 502,0081	9 548 256,6799	21,525
840	E265-E266	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E266	587 543,7681	9 548 265,6857	21,230
841	E266-E267	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E267	587 563,5543	9 548 262,7688	20,912
842	E266-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	587 544,6140	9 548 271,4237	22,240
843	E266-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	587 545,9557	9 548 280,5253	22,178
844	E266-3	188	23'10"	8	23'10"	SW	5,000	-0,7292	-4,9465	3	587 543,0389	9 548 265,3889	21,160
845	E266-4	188	23'10"	8	23'10"	SW	15,000	-2,1876	-14,8396	4	587 541,5805	9 548 255,4958	21,074
846	E267-E268	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E268	587 583,3405	9 548 259,8519	20,791
847	E268-E269	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E269	587 603,1267	9 548 256,9350	20,705
848	E268-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	587 584,1864	9 548 265,5899	21,817
849	E268-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	587 585,5281	9 548 274,6915	21,795
850	E268-3	188	23'10"	8	23'10"	SW	5,000	-0,7292	-4,9465	3	587 583,6113	9 548 259,4562	20,731
851	E268-4	188	23'10"	8	23'10"	SW	15,000	-2,1876	-14,8396	4	587 581,6529	9 548 249,5631	20,645
852	E269-E270	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E270	587 622,9129	9 548 254,0181	20,295
853	E270-E271	98	23'10"	81	36'50"	SE	20,000	19,7862	-2,9169	E271	587 642,6991	9 548 251,1012	20,226
854	E270-1	8	23'10"	8	23'10"	NE	5,800	0,8459	5,7380	1	587 623,7588	9 548 259,7561	21,973
855	E270-2	8	23'10"	8	23'10"	NE	15,000	2,1876	14,8396	2	587 625,1005	9 548 268,8577	21,846

Relatório das coordenadas de todos os pontos.

Título ADUTORA DE CAPONGA

Local CASCAVEL - E

Interessado	SPP	Proprietário										Data 26/08/97		
LN	ALINHAMENTO	AZIMUTE	DISTANCIA		LONG. PARC.	LAT. PARC.	COORD. E (X)	COORD. N (Y)	COORD. (Z)					
LINE	ESP. P.M.	COMPENSADO	RUM.	QD.	HORIZONTAL	X	Y	Z	TOT. COMPENS.	TOT. COMPENS.	TOT. COMPENS.	DO PONTO		
856	E270-3	98 23'10"	81 36'50"	SE	0.400	-0.0583	-0.3957	3	587 622 8546	9 548 253 6224	20 279			
857	E270-4	198 23'10"	81 36'50"	SW	15.000	-2.1876	-14.8396	4	587 620 7253	9 548 239,1785	18,693			
858	E271-E272	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E272	587 662,4853	9 548 248,1843	20,237			
859	E272-E273	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E273	587 682,2715	9 548 245,2674	21,170			
860	E272-1	8 23'10"	8 23'10"	NE	5,800	0.8459	5.7380	1	587 663 3312	9 548 253,9223	21,606			
861	E272-2	8 23'10"	8 23'10"	NE	15,000	2,1876	14,8396	2	587 664 6729	9 548 263 0239	21,557			
862	E272-3	198 23'10"	8 23'10"	SW	0.400	-0.0583	-0.3957	3	587 662 4270	9 548 247,7886	20,217			
863	E272-4	198 23'10"	8 23'10"	SW	15,000	-2.1876	-14.8396	4	587 660 2977	9 548 233,3447	18 051			
864	E273-E274	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E274	587 702,0577	9 548 242,3505	20,592			
865	E274-E275	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E275	587 721,8439	9 548 239,4336	20,380			
866	E274-1	8 23'10"	8 23'10"	NE	5,800	0.8459	5.7380	1	587 702,9036	9 548 248,0885	21,502			
867	E274-2	8 23'10"	8 23'10"	NE	15,000	2,1876	14,8396	2	587 704,2453	9 548 257,1901	21,492			
868	E274-3	198 23'10"	8 23'10"	SW	15 000	-2,1876	-14,8396	3	587 699,8701	9 548 227,5109	20,604			
869	E274-4	198 23'10"	8 23'10"	SW	15,000	-2,1876	-14,8396	4	587 699,8701	9 548 227,5109	20,698			
870	E275-E276	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E276	587 741,6301	9 548 236,5167	20,125			
871	E276-E277	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E277	587 761,4163	9 548 233,5998	19,914			
872	E276-1	8 23'10"	8 23'10"	NE	5 800	0 8459	5 7380	1	587 742 4760	9 548 242,2547	21 238			
873	E276-2	8 23'10"	8 23'10"	NE	15 000	2 1876	14 8396	2	587 743 8177	9 548 251,3563	21 205			
874	E276-3	198 23'10"	8 23'10"	SW	5 000	0 7292	-4 9465	3	587 740 9009	9 548 231 5782	20 145			
875	E276-4	198 23'10"	8 23'10"	SW	15 000	-2 1876	-14 8396	4	587 739 4425	9 548 221,6771	20 111			
876	E277-E278	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E278	587 781,2025	9 548 230,6829	19,585			
877	E278-E279	98 23'10"	81 36'50"	SE	20 000	19 7862	-2,9169	E279	587 800,9887	9 548 227,7660	19,438			
878	E278-1	8 23'10"	8 23'10"	NE	5 800	0 8459	5 7380	1	587 782 0484	9 548 236,4208	20 596			
879	E278-2	8 23'10"	8 23'10"	NE	15 000	2 1876	14 8396	2	587 783 3901	9 548 245,5225	20 564			
880	E278-3	198 23'10"	8 23'10"	SW	5 000	-0 7292	-4 9465	3	587 780 4733	9 548 225,7364	19 588			
881	E278-4	198 23'10"	8 23'10"	SW	15 000	-2 1876	-14 8396	4	587 779 0149	9 548 215 6433	19,495			
882	E279-E280	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E280	587 820,7749	9 548 224,8491	19,510			
883	E280-E281	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E281	587 840,5611	9 548 221,9322	19,177			
884	E280-1	8 23'10"	8 23'10"	NE	5 800	0 8459	5 7380	1	587 821 6208	9 548 230,5871	20 575			
885	E280-2	8 23'10"	8 23'10"	NE	15 000	2 1876	14 8396	2	587 822 9625	9 548 239 6887	20 568			
886	E280-3	198 23'10"	8 23'10"	SW	5 000	0 7292	-4 9465	3	587 820 0457	9 548 219 9026	19 474			
887	E280-4	198 23'10"	8 23'10"	SW	15 000	-2 1876	-14 8396	4	587 818 5873	9 548 210 0095	19 369			
888	E281-E282	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E282	587 860,3473	9 548 219,0153	19,210			
889	E282-E283	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E283	587 880,1335	9 548 216,0984	19,449			
890	E282-1	8 23'10"	8 23'10"	NE	5 800	0 8459	5 7380	1	587 861 1932	9 548 224 7538	20 217			
891	E282-2	8 23'10"	8 23'10"	NE	15 000	2 1876	14 8396	2	587 862 5349	9 548 233,8549	20 138			
892	E282-3	198 23'10"	8 23'10"	SW	5 000	-0 7292	-4 9465	3	587 859 6181	9 548 214,0688	19,227			
893	E282-4	198 23'10"	8 23'10"	SW	15 000	-2 1876	-14 8396	4	587 858 1597	9 548 204 1757	19 066			
894	E283-E284	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E284	587 899,9197	9 548 213,1815	19,555			
895	E284-E285	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E285	587 919,7059	9 548 210,2646	19,754			
896	E284-1	8 23'10"	8 23'10"	NE	5 800	0 8459	5 7380	1	587 900 7656	9 548 218,9195	20,558			
897	E284-2	8 23'10"	8 23'10"	NE	15,000	2,1876	14,8396	2	587 902 1073	9 548 228 0211	20,571			
898	E284-3	198 23'10"	8 23'10"	SW	5 000	-0 7292	-4 9465	3	587 899 1905	9 548 208 2350	19 573			
899	E284-4	198 23'10"	8 23'10"	SW	15 000	-2 1876	-14 8396	4	587 897 7321	9 548 198,3419	19,544			
900	E285-E286	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E286	587 939,4921	9 548 207,3477	19,870			

Relatório das coordenadas de todos os pontos.

Imovel ADUJORA DE APONGA

Local CASARVAL - CE

Interessado SFI Proprietario Data 26/08/97

IN DICE	ALINHAMENTO		AZIMUTE		DISTANCIA HORIZONTAL	LONG PARC		LAT PARC		COORD E (X)		COORD N (Y)		COORD (Z) DO PONTO
	EST	P.M	COMPENSADO	F U M Q		X	Y	Z	TOT	COMPENS	TOT	COMPENS		
901	E286-E287		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E287	587 959,2783	9 548 204,4308	20,225			
902	E286-1		8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	587 940,3380	9 548 213,0857	20,848			
903	E286-2		8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	587 941,6797	9 548 222,1873	20,840			
904	E286-3		168 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	587 938,7629	9 548 202,4012	19,826			
905	E286-4		168 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	587 937,3045	9 548 192,5081	19,773			
906	E287-E288		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E288	587 979,0645	9 548 201,5139	20,541			
907	E288-E289		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E289	587 998,8507	9 548 198,5970	20,758			
908	E288-1		8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	587 979,9104	9 548 207,2519	21,520			
909	E288-2		8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	587 981,2521	9 548 216,3535	21,492			
910	E288-3		168 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	587 978,3353	9 548 196,5674	20,447			
911	E288-4		168 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	587 976,8769	9 548 186,6743	20,437			
912	E289-E290		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E290	588 018,6369	9 548 195,6801	20,526			
913	E290-E291		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E291	588 038,4231	9 548 192,7632	20,641			
914	E290-1		8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 019,4828	9 548 201,4181	21,534			
915	E290-2		8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 020,8245	9 548 210,5197	21,549			
916	E290-3		168 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	588 017,9077	9 548 190,7336	20,505			
917	E290-4		168 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	588 016,4493	9 548 180,8405	20,466			
918	E291-E292		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E292	588 058,2093	9 548 189,8463	20,652			
919	E292-E293		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E293	588 077,9955	9 548 186,9294	20,751			
920	E292-1		8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 059,0552	9 548 195,5843	21,673			
921	E292-2		8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 060,3969	9 548 204,6859	21,665			
922	E292-3		168 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	588 057,4807	9 548 184,8936	20,585			
923	E292-4		168 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	588 056,0217	9 548 175,0007	20,571			
924	E293-E294		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E294	588 097,7817	9 548 184,0125	20,964			
925	E294-E295		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E295	588 117,5679	9 548 181,0956	21,011			
926	E294-1		8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 098,6276	9 548 189,7506	21,988			
927	E294-2		8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 099,9693	9 548 198,8521	21,969			
928	E294-3		168 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	588 097,0525	9 548 179,0660	20,929			
929	E294-4		168 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	588 095,5941	9 548 169,1729	20,878			
930	E295-E296		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E296	588 137,3541	9 548 178,1787	21,163			
931	E296-E297		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E297	588 157,1403	9 548 175,2618	21,205			
932	E296-1		8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 138,3000	9 548 183,9167	22,217			
933	E296-2		8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 139,5417	9 548 193,0182	22,221			
934	E296-3		168 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	588 136,6249	9 548 173,2322	21,107			
935	E296-4		168 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	588 135,1665	9 548 163,3391	20,986			
936	E297-E298		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E298	588 176,9265	9 548 172,3449	21,288			
937	E298-E299		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E299	588 196,7127	9 548 169,4280	21,343			
938	E298-1		8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 177,7724	9 548 178,0829	22,331			
939	E298-2		8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 179,1141	9 548 187,1845	22,326			
940	E298-3		168 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	588 176,1973	9 548 167,3984	21,286			
941	E298-4		168 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	588 174,7389	9 548 157,5053	21,186			
942	E299-E300		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E300	588 216,4989	9 548 166,5111	21,361			
943	E300-E301		98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E301	588 236,2851	9 548 163,5942	21,433			
944	E300-1		8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 217,3448	9 548 172,2491	22,384			
945	E300-2		8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 218,6865	9 548 181,3507	22,385			



Relatório das coordenadas de todos os pontos.

ALINHAMENTO		ADIMUTE		DISTANCIA		LONG PARC		LAT PARC		COORD E (X)		COORD N (Y)		COORD (Z)	
EST	P.M	COMPENSADO	RUM	QD	HORIZONTAL	X	SE, W	Y	N, S	P.M	TOT	COMPENS	TOI	COMPENS	DO PONTO
947	E300-3	144	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	588	215,7697	9,548	161,5646	21,430	
947	E300-4	145	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	588	214,3113	9,548	151,6715	21,431	
948	E301-E302	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E302	588	256,0713	9,548	160,6773	21,671	
949	E302-E303	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E303	588	275,8575	9,548	157,7604	21,367	
950	E302-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	588	256,9172	9,548	166,4153	22,554	
951	E302-2	15	23'10"	8	23'10" NE	15,000	2,1876	14,8396	2	588	258,2589	9,548	175,5169	22,542	
952	E302-3	144	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	588	255,3421	9,548	155,7306	21,746	
953	E302-4	145	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	588	253,8837	9,548	145,8377	21,769	
954	E303-E304	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E304	588	295,6437	9,548	154,8435	21,353	
955	E304-E305	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E305	588	315,4299	9,548	151,9266	21,206	
956	E304-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	588	296,4896	9,548	160,5815	22,213	
957	E304-2	15	23'10"	8	23'10" NE	15,000	2,1876	14,8396	2	588	297,8313	9,548	169,6831	22,203	
958	E304-3	144	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	588	294,9145	9,548	149,8970	21,407	
959	E304-4	145	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	588	293,4562	9,548	140,0039	21,362	
960	E305-E306	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E306	588	335,2161	9,548	149,0097	21,228	
961	E306-E307	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E307	588	355,0023	9,548	146,0928	21,079	
962	E306-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	588	336,0620	9,548	154,7477	22,053	
963	E306-2	15	23'10"	8	23'10" NE	15,000	2,1876	14,8396	2	588	337,4037	9,548	163,8493	22,071	
964	E306-3	144	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	588	334,4869	9,548	144,8632	21,268	
965	E306-4	145	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	588	333,0285	9,548	134,1701	21,298	
966	E307-E308	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E308	588	374,7885	9,548	143,1759	21,166	
967	E308-E309	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E309	588	394,5747	9,548	140,2590	20,715	
968	E308-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	588	375,6344	9,548	148,9139	21,810	
969	E308-2	15	23'10"	8	23'10" NE	15,000	2,1876	14,8396	2	588	376,9761	9,548	158,0155	21,765	
970	E308-3	144	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	588	374,0593	9,548	138,2294	21,236	
971	E308-4	145	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	588	372,6009	9,548	128,3363	21,260	
972	E309-E310	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E310	588	414,3609	9,548	137,3421	20,546	
973	E310-E311	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E311	588	434,1471	9,548	134,4252	20,225	
974	E310-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	588	415,2368	9,548	143,0801	21,100	
975	E310-2	15	23'10"	8	23'10" NE	15,000	2,1876	14,8396	2	588	416,5785	9,548	152,1817	21,089	
976	E310-3	144	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	588	413,6217	9,548	132,3956	20,646	
977	E310-4	145	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	588	412,1733	9,548	122,5025	20,644	
978	E311-E312	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E312	588	453,9333	9,548	131,5083	19,831	
979	E312-E313	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E313	588	473,7195	9,548	128,5914	19,550	
980	E312-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	588	454,7792	9,548	137,2463	20,742	
981	E312-2	15	23'10"	8	23'10" NE	15,000	2,1876	14,8396	2	588	456,1209	9,548	146,3479	20,723	
982	E312-3	144	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	588	453,2341	9,548	126,5616	19,659	
983	E312-4	145	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	588	451,7457	9,548	116,6687	19,823	
984	E313-E314	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E314	588	493,5057	9,548	125,6745	19,208	
985	E314-E315	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E315	588	513,2919	9,548	122,7576	19,115	
986	E314-1	8	23'10"	8	23'10" NE	5,800	0,8459	5,7380	1	588	494,3516	9,548	131,4125	21,199	
987	E314-2	15	23'10"	8	23'10" NE	15,000	2,1876	14,8396	2	588	495,6933	9,548	140,5141	21,205	
988	E314-3	144	23'10"	8	23'10" SW	5,000	-0,7292	-4,9465	3	588	492,7765	9,548	120,7280	19,308	
989	E314-4	145	23'10"	8	23'10" SW	15,000	-2,1876	-14,8396	4	588	491,3014	9,548	114,7921	19,287	
990	E315-E316	98	23'10"	81	36'50" SE	20,000	19,7862	-2,9169	E316	588	533,0781	9,548	119,8407	19,093	

Relatório das coordenadas de todos os pontos.

AUTORA TP CAPONG		Local CASCAVEL - CE		Proprietário		Data 26/08/97				
ALINHAMENTO	PIVOTE	DISTANCIA		LONG PARC	LAT PARC	COORD E (Y)		COORD N (Y)	COORD (Z)	
EST. P. M.	COMPENSADO	P. U. M. O. QI	HORIZONTAL	X E-W	Y N-S	P. M. TOT	COMPENS	TOT COMPENS	DO PONTO	
991	E316-E317	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E317	588 552,8543	9 548 116,9238	19,397
992	E316-1	8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 533,9240	9 548 125,5787	21,074
993	E316-2	8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 535,2657	9 548 134,6603	21,087
994	E316-3	188 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	588 532,3489	9 548 114,8942	19,243
995	E316-4	188 23'10"	8 23'10" SW	11,000	-1,6043	-10,8624	4	588 531,4738	9 548 108,9583	19,279
996	E317-E318	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E318	588 572,6505	9 548 114,0069	19,888
997	E318-E319	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E319	588 592,4367	9 548 111,0900	20,340
998	E318-1	8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 573,4964	9 548 119,7449	20,877
999	E318-2	8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 574,8381	9 548 128,8465	20,890
	E318-3	188 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	588 571,9213	9 548 109,0604	20,007
	E318-4	188 23'10"	8 23'10" SW	11,000	-1,6043	-10,8624	4	588 571,0462	9 548 103,1245	20,095
	E319-E320	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E320	588 612,2229	9 548 108,1731	20,625
	E320-E321	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E321	588 632,0091	9 548 105,2562	20,972
	E320-1	8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 613,0680	9 548 113,9111	21,125
	E320-2	8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 614,4108	9 548 123,0127	21,121
	E320-3	188 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	588 611,4937	9 548 103,2266	20,679
	E320-4	188 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	588 610,0353	9 548 093,3335	20,691
	E321-E322	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E322	588 651,7953	9 548 102,3393	21,268
	E322-E323	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E323	588 671,5815	9 548 099,4224	21,410
	E322-1	8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 652,6412	9 548 108,0773	21,624
	E322-2	8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 652,9829	9 548 117,1789	21,610
	E322-3	188 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	588 651,0661	9 548 097,3928	21,277
	E322-4	188 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	588 649,6077	9 548 087,4997	21,313
014	E323-E324	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E324	588 691,3677	9 548 096,5055	21,729
	E324-E325	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E325	588 711,1539	9 548 093,5886	21,976
	E324-1	8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 692,2136	9 548 102,2435	22,162
	E324-2	8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 693,5553	9 548 111,3451	22,208
	E324-3	188 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	588 690,6385	9 548 091,5590	21,763
	E324-4	188 23'10"	8 23'10" SW	10,000	-1,4584	-9,8931	4	588 689,9393	9 548 086,6124	21,832
	E325-E326	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E326	588 730,9401	9 548 090,6717	21,914
	E326-E327	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E327	588 750,7263	9 548 087,7548	22,136
	E326-1	8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 731,7860	9 548 096,4697	22,841
	E326-2	8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 733,1277	9 548 105,5113	22,808
	E326-3	188 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	588 730,2109	9 548 085,7252	22,096
	E326-4	188 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	588 728,7525	9 548 075,8321	21,987
	E327-E328	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E328	588 770,5125	9 548 084,8379	22,274
	E328-E329	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E329	588 790,2987	9 548 081,9210	22,385
	E328-1	8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 771,3564	9 548 090,5759	23,232
	E328-2	8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 772,7081	9 548 099,6775	23,232
	E328-3	188 23'10"	8 23'10" SW	5,000	-0,7292	-4,9465	3	588 769,7833	9 548 079,8914	22,258
	E328-4	188 23'10"	8 23'10" SW	15,000	-2,1876	-14,8396	4	588 768,3249	9 548 069,9983	22,344
	E329-E330	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E330	588 810,0849	9 548 079,0041	22,351
	E330-E331	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E331	588 829,8711	9 548 076,0872	22,380
	E330-1	8 23'10"	8 23'10" NE	5,800	0,8459	5,7380	1	588 810,9308	9 548 084,7421	23,161
	E330-2	8 23'10"	8 23'10" NE	15,000	2,1876	14,8396	2	588 812,2725	9 548 093,8437	23,161

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Relatório das coordenadas de todos os pontos. Pg: 24/34

ADUTORIA DE PAFONGA		Local		CASCAVEL - CE		Proprietário		Data		26/08/97					
LN	ALINHAMENTO	AZIMUTE	DISTANCIA	LONG PARC	LAT PARC	COORD E (X)	COORD N (Y)	COORD (Z)							
DIÇE	EST. P.V.	COMPENSADO	RUMBO	QUAD	HORIZONTAL	N	E	W	Y	N	S	P.V.	TOT. COMPENS.	TOT. COMPENS.	DO PONTO
1036	E331-1	98 23'10"	81 36'50"	SW	5,000	-0,7292	-4,9465	3	588 809 2557	9 548 074 0576				22 439	
1037	E330-4	188 23'10"	8 23'10"	SN	15,000	-2,1876	-14,8396	4	588 807 8973	9 548 064,1645				22,477	
1038	E331-E332	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E332	588 849,6573	9 548 073,1703				22,294	
1039	E332-E333	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E333	588 869,4435	9 548 070,2534				22,125	
1040	E332-1	8 23'10"	8 23'10"	NE	5,800	0,8459	5,7360	1	588 850 5032	9 548 078,9083				23,558	
1041	E332-2	8 23'10"	8 23'10"	NE	15,000	2,1876	14,8396	2	588 851,8449	9 548 088,0099				23 544	
1042	E332-3	188 23'10"	8 23'10"	SW	5,000	-0,7292	-4,9465	3	588 848,9281	9 548 068,2238				22 380	
1043	E332-4	188 23'10"	8 23'10"	SW	15,000	-2,1876	-14,8396	4	588 847 4697	9 548 058,3307				22,508	
1044	E333-E334	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E334	588 889,2297	9 548 067,3365				22,189	
1045	E334-E335	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E335	588 909,0159	9 548 064,4196				22,419	
1046	E334-1	8 23'10"	8 23'10"	NE	5,800	0,8459	5,7360	1	588 890,0756	9 548 073,0745				23,225	
1047	E334-2	8 23'10"	8 23'10"	NE	15,000	2,1876	14,8396	2	588 891,4173	9 548 082,1761				23 242	
1048	E334-3	188 23'10"	8 23'10"	SW	5,000	-0,7292	-4,9465	3	588 888,5005	9 548 062,3900				22,249	
1049	E334-4	188 23'10"	8 23'10"	SW	15,000	-2,1876	-14,8396	4	588 887,0421	9 548 052,4969				22,215	
1050	E335-E336	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E336	588 928,8021	9 548 061,5027				22,083	
1051	E336-E337	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E337	588 948,5883	9 548 058,5858				21,916	
1052	E336-1	8 23'10"	8 23'10"	NE	5,800	0,8459	5,7360	1	588 929 6480	9 548 067,2407				22,797	
1053	E336-2	8 23'10"	8 23'10"	NE	15,000	2,1876	14,8396	2	588 930 9897	9 548 076,3423				22 793	
1054	E336-3	188 23'10"	8 23'10"	SW	5,000	-0,7292	-4,9465	3	588 928 0729	9 548 056 5562				22 199	
1055	E336-4	188 23'10"	8 23'10"	SW	15,000	-2,1876	-14,8396	4	588 928 6145	9 548 046 6631				22 182	
1056	E337-E338	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E338	588 968,3745	9 548 055,6689				21,842	
1057	E338-E339	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E339	588 988,1607	9 548 052,7520				21,644	
1058	E338-1	8 23'10"	8 23'10"	NE	5,800	0,8459	5,7360	1	588 989 2204	9 548 061 4069				22 542	
1059	E338-2	8 23'10"	8 23'10"	NE	15,000	2,1876	14,8396	2	588 990 5621	9 548 070 5085				22 559	
1060	E338-3	188 23'10"	8 23'10"	SW	5,000	-0,7292	-4,9465	3	588 987 6453	9 548 050,7224				21,944	
1061	E338-4	188 23'10"	8 23'10"	SW	15,000	-2,1876	-14,8396	4	588 986 1869	9 548 040,8293				22 028	
1062	E339-E340	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E340	589 007,9469	9 548 049,8351				21,451	
1063	E340-E341	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E341	589 027 7331	9 548 046,9182				21,290	
1064	E340-1	8 23'10"	8 23'10"	NE	5,800	0,8459	5,7360	1	589 028 7928	9 548 055,5731				22 345	
1065	E340-2	8 23'10"	8 23'10"	NE	15,000	2,1876	14,8396	2	589 029 1345	9 548 064 6747				22,371	
1066	E340-3	188 23'10"	8 23'10"	SW	5,000	-0,7292	-4,9465	3	589 027 2177	9 548 044,8886				21 630	
1067	E340-4	188 23'10"	8 23'10"	SW	15,000	-2,1876	-14,8396	4	589 025 7593	9 548 034,9956				21 659	
1068	E341-E342	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E342	589 047,5193	9 548 044,0013				21,099	
1069	E342-E343	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E343	589 067,3055	9 548 041,0844				21,031	
1070	E342-1	8 23'10"	8 23'10"	NE	5,800	0,8459	5,7360	1	589 068 3652	9 548 040 7393				22 028	
1071	E342-2	8 23'10"	8 23'10"	NE	15,000	2,1876	14,8396	2	589 069 7069	9 548 058,8409				22 014	
1072	E342-3	188 23'10"	8 23'10"	SW	5,000	-0,7292	-4,9465	3	589 067 7901	9 548 039 0548				21 147	
1073	E342-4	188 23'10"	8 23'10"	SW	15,000	-2,1876	-14,8396	4	589 065 3317	9 548 029,1617				21 325	
1074	E343-E344	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E344	589 087,0917	9 548 038,1675				20,711	
1075	E344-E345	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E345	589 106,8779	9 548 035,2506				20,587	
1076	E344-1	8 23'10"	8 23'10"	NE	6,000	0,8751	5,9258	1	589 087,9668	9 548 044,1033				21 877	
1077	E344-2	8 23'10"	8 23'10"	NE	15,000	2,1876	14,8396	2	589 089 2793	9 548 053 0071				21,904	
1078	E344-3	188 23'10"	8 23'10"	SW	5,000	-0,7292	-4,9465	3	589 086 3625	9 548 033 2210				20,834	
1079	E344-4	188 23'10"	8 23'10"	SW	15,000	-2,1876	-14,8396	4	589 084 9041	9 548 023 3279				20 857	
1080	E345-E346	98 23'10"	81 36'50"	SE	20,000	19,7862	-2,9169	E346	589 126,6641	9 548 032,3337				20,362	

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Relatório das coordenadas de todos os pontos.

ADUTORIA DE CARONGA		Local		CASCAVEL		CC		Data		25/08/97	
SPH		Proprietario									
LN	ALINHAMENTO	AZIMUTE	DISTANCIA	LONG PARC	LAT PARC	COORD E (X)	COORD N (Y)	COORD E (X)	COORD N (Y)	COORD E (X)	COORD N (Y)
DI	EST. P. M.	COMPENSADO	RUM O QD	HORIZONTAL	Y	W	S	P V	TOT	COMPENS	DO PONTO
1081	E346-E347	98 23'10"	81 36'50" SE	20,000	19,7862	-2,9169	E347	589 146,4503	9 548 029,4168		20,269
1082	E346-1	98 23'10"	8 23'10" NE	6,000	0 8761	5 9348	1	589 127 5392	9 548 038,2695		20 358
1083	E346-2	98 23'10"	8 23'10" NE	9,500	1 3855	9 3944	2	589 128 0496	9 548 041 7321		21 741
1084	E346-3	98 23'10"	8 23'10" NE	15,000	2,1876	14 8246	3	589 128 8517	9 548 047 1733		21 736
1085	E346-4	98 23'10"	8 23'10" SW	5,000	-0,7292	-4 9446	4	589 125 9349	9 548 027 3872		20,502
1086	E346-5	188 23'10"	8 23'10" SW	15,000	-2 1676	-14 8396	5	589 124 4765	9 548 017 4941		20,545
1087	E347-E348	80 49'30"	80 49'30" NE	20,000	19,7441	3,1890	E348	589 166,1944	9 548 032,6058		20,089
1088	E348-E349	80 49'30"	80 49'30" NE	20,000	19,7441	3,1890	E349	589 185,9385	9 548 035,7948		19,969
1089	E348-1	80 49'30"	9 10'30" NW	9,700	-1,5467	9,5759	1	589 164 6477	9 548 042,1817		21 395
1090	E348-2	80 49'30"	9 10'30" NW	15,000	-2 3918	14 8081	2	589 163,8026	9 548 047 4139		21 338
1091	E348-3	80 49'30"	9 10'30" SE	5,000	0 7973	-4 9340	3	589 166,9917	9 548 027,6698		20,135
1092	E348-4	80 49'30"	9 10'30" SE	15,000	2,3918	-14 8081	4	589 168 5862	9 548 017,7977		20,168
1093	E349-E350	80 49'30"	80 49'30" NE	20,000	19,7441	3,1890	E350	589 205,6826	9 548 038,9838		19,813
1094	E350-E351	80 49'30"	80 49'30" NE	20,000	19,7441	3,1890	E351	589 225,4267	9 548 042,1728		19,677
1095	E350-1	80 49'30"	9 10'30" NW	6,500	-1,0364	6,4148	1	589 204 6462	9 548 045,4006		21 366
1096	E350-2	80 49'30"	9 10'30" NW	15,000	-2 3918	14 8081	2	589 203,2908	9 548 053,7919		21 356
1097	E350-3	80 49'30"	9 10'30" SE	5,000	0,7973	-4,9340	3	589 206,4799	9 548 034,0478		19 846
1098	E350-4	80 49'30"	9 10'30" SE	15,000	2 3918	-14 8081	4	589 208 0744	9 548 024,1757		19 910
1099	E351-E352	80 49'30"	80 49'30" NE	20,000	19 7441	3,1890	E352	589 245,1708	9 548 045,3618		19,654
1100	E352-E353	80 49'30"	80 49'30" NE	20,000	19,7441	3,1890	E353	589 264,9149	9 548 048,5508		19,479
1101	E352-1	80 49'30"	9 10'30" NW	6,300	-1 0945	6 2194	1	589 244,1663	9 548 051 5812		21 038
1102	E352-2	80 49'30"	9 10'30" NW	15,000	-2 3918	14 8081	2	589 242 7790	9 548 060,1699		21 027
1103	E352-3	80 49'30"	9 10'30" SE	5,000	0 7973	-4 9340	3	589 245 9681	9 548 040 4258		19 855
1104	E352-4	80 49'30"	9 10'30" SE	15,000	2 3918	14 8081	4	589 247 5626	9 548 030 5537		19 908
1105	E353-E354	80 49'30"	80 49'30" NE	20,000	19,7441	3,1890	E354	589 284,6550	9 548 051,7398		19,364
1106	E354-E355	80 49'30"	80 49'30" NE	20,000	19,7441	3,1890	E355	589 304,4031	9 548 054,9288		19,279
1107	E354-1	80 49'30"	9 10'30" NW	8,400	1 3394	5 2075	1	589 283 3196	9 548 067,0323		20 866
1108	E354-2	80 49'30"	9 10'30" NW	15,000	-2 3918	14 8081	2	589 282 2872	9 548 066,5479		20 817
1109	E354-3	80 49'30"	9 10'30" SE	5,000	0 7973	-4 9340	3	589 285 4563	9 548 046,8038		19 417
1110	E354-4	80 49'30"	9 10'30" SE	15,000	2 3918	-14 8081	4	589 287 0508	9 548 036,9317		19 557
1111	E355-E356	80 49'30"	80 49'30" NE	20,000	19,7441	3,1890	E356	589 324,1472	9 548 058,1178		19,396
1112	E356-E357	80 49'30"	80 49'30" NE	20,000	19,7441	3,1890	E357	589 343,8913	9 548 061,3068		18,479
1113	E356-1	80 49'30"	9 10'30" NW	10,000	-1 5945	9 8721	1	589 322 5527	9 548 067,9899		19 219
1114	E356-2	80 49'30"	9 10'30" NW	13,500	-2 1526	13 3273	2	589 321 3946	9 548 071 4451		20 859
1115	E356-3	80 49'30"	9 10'30" NW	15,000	-2 3918	14 8081	3	589 321 7554	9 548 072,9259		20 869
1116	E356-4	80 49'30"	9 10'30" SE	5,000	0,7973	-4 9340	4	589 324 9445	9 548 053,1816		19 516
1117	E356-5	80 49'30"	9 10'30" SE	15,000	2,3918	-14 8081	5	589 326,5390	9 548 043,3097		19 559
1118	E357-E358	58 31'30"	58 31'30" NE	20,000	17,0574	10,4425	E358	589 360,9487	9 548 071,7493		18,965
1119	E358-E359	58 31'30"	58 31'30" NE	20,000	17,0574	10,4425	E359	589 378,0061	9 548 082,1918		19,184
1120	E358-1	58 31'30"	31 28'30" NW	10,000	-8 2213	8 5247	1	589 355 7274	9 548 080 2780		18 845
1121	E358-2	58 31'30"	31 28'30" NW	13,700	-7 1531	11 6643	2	589 352 7956	9 548 083 4336		20 423
1122	E358-3	58 31'30"	31 28'30" NW	15,000	-7 8319	12 7930	3	589 353 1168	9 548 084 5423		20 425
1123	E359-4	58 31'30"	31 29'30" SE	1,000	0 5221	-0 8523	4	589 361,4708	9 548 070,9964		19,125
1124	E358-5	58 31'30"	31 28'30" SE	15,000	7 8319	-12,7930	5	589 368,7806	9 548 058 9563		19,189
1125	E359-E360	58 31'30"	58 31'30" NE	20,000	17,0574	10,4425	E360	589 395,0635	9 548 092,6343		18,350

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Relatório das coordenadas de todos os pontos.

ADUTORIA DE CARANGA

Local: PASCARVEL - CE

Data: 26/08/97

ALINHAMENTO		AZIMUTE		DISTANCIA		LONG	PARC	LAT	PARC	COORD E (Y)		COORD N (Y)		COORD (Z)	
EST	P	COMPENSADO	P	Q	HORIZONTAL	X	(E+,W-)	Z	(N+,S-)	P	TOT	COMPENS	TOT	COMPENS	DO PONTO
E360-E361		58 31'30"	58 31'30"	NE	20,000	17,0574		10,4425	E361	589 412,1209	9 548 103,0768			18,603	
E360-1		328 31'30"	31 28'30"	NW	8,300	-4,3336		7,0788	1	589 390,7259	9 548 099,7131			20,244	
E360-2		328 31'30"	31 28'30"	NW	15,000	-7,8319		12,7930	2	589 387,2316	9 548 105,4273			20,192	
E360-3		148 31'30"	31 28'30"	SE	3,000	1,8664		-2,5586	3	589 395,6299	9 548 090,0757			18,544	
E360-4		148 31'30"	31 28'30"	SE	15,000	7,8319		-12,7930	4	589 402,8954	9 548 079,8413			18,716	
E361-E362		58 31'30"	58 31'30"	NE	20,000	17,0574		10,4425	E362	589 429,1783	9 548 113,5193			18,305	
E362-E363		58 31'30"	58 31'30"	NE	20,000	17,0574		10,4425	E363	589 446,2357	9 548 123,9618			17,891	
E362-1		328 31'30"	31 28'30"	NW	8,300	-2,9239		4,7761	1	589 426,2544	9 548 118,2954			19,695	
E362-2		328 31'30"	31 28'30"	NW	15,000	-7,8319		12,7930	2	589 421,3464	9 548 126,3123			19,683	
E362-3		148 31'30"	31 28'30"	SE	5,000	2,8106		-4,2640	3	589 431,7889	9 548 109,2550			18,745	
E362-4		148 31'30"	31 28'30"	SE	15,000	7,8319		-12,7930	4	589 437,0102	9 548 100,7263			18,685	
E363-E364		58 31'30"	58 31'30"	NE	20,000	17,0574		10,4425	E364	589 463,2931	9 548 134,4043			17,598	
E364-E365		58 31'30"	58 31'30"	NE	20,000	17,0574		10,4425	E365	589 480,3505	9 548 144,8468			17,608	
E364-1		328 31'30"	31 28'30"	NW	8,300	-3,2894		5,3731	1	589 460,0027	9 548 139,7774			19,042	
E364-2		328 31'30"	31 28'30"	NW	15,000	-7,8319		12,7930	2	589 455,4612	9 548 147,1973			18,997	
E364-3		148 31'30"	31 28'30"	SE	5,000	2,8106		-4,2643	3	589 465,9037	9 548 130,1400			17,728	
E364-4		148 31'30"	31 28'30"	SE	15,000	7,8319		12,7930	4	589 471,1250	9 548 121,6113			17,797	
E365-E366		58 31'30"	58 31'30"	NE	20,000	17,0574		10,4425	E366	589 497,4079	9 548 155,2893			17,493	
E366-+12		58 31'30"	58 31'30"	NE	12,000	10,2344		6,2655	+12	589 507,6423	9 548 161,5548			17,248	
E366-1		328 31'30"	31 28'30"	NW	9,100	-4,7514		7,7611	1	589 492,6565	9 548 163,0504			18,803	
E366-2		328 31'30"	31 28'30"	NW	15,000	-7,8319		12,7930	2	589 489,5760	9 548 168,0823			18,760	
E366-3		148 31'30"	31 28'30"	SE	5,000	2,8106		4,2643	3	589 500,0185	9 548 151,0250			17,513	
E366-4		148 31'30"	31 28'30"	SE	15,000	7,8319		-12,7930	4	589 505,2398	9 548 142,4963			17,541	
+12-E367		45 02'10"	45 02'10"	NE	8,000	5,6604		5,6533	E367	589 513,3027	9 548 167,2081			17,021	
E367-E368		45 02'10"	45 02'10"	NE	20,000	14,1510		14,1332	E368	589 527,4537	9 548 181,3413			15,918	
E368-E369		45 02'10"	45 02'10"	NE	20,000	14,1510		14,1332	E369	589 541,6047	9 548 195,4745			15,121	
E368-1		118 02'10"	44 57'50"	NW	7,800	-5,5120		5,5189	1	589 521,8417	9 548 186,8602			17,369	
E368-2		118 02'10"	44 57'50"	NW	15,000	-10,5999		10,6133	2	589 516,8536	9 548 191,9546			17,318	
E368-3		135 02'10"	44 57'50"	SE	5,000	3,5333		3,5378	3	589 530,9870	9 548 177,8035			16,129	
E368-4		135 02'10"	44 57'50"	SE	15,000	10,5999		10,6133	4	589 538,0536	9 548 170,7280			16,235	
E369-E370		45 02'10"	45 02'10"	NE	20,000	14,1510		14,1332	E370	589 555,7557	9 548 209,6077			14,060	
E370-E371		45 02'10"	45 02'10"	NE	20,000	14,1510		14,1332	E371	589 569,9067	9 548 223,7409			12,747	
E370-1		118 02'10"	44 57'50"	NW	8,700	-4,7346		4,7406	1	589 551,0211	9 548 214,3483			15,568	
E370-2		45 02'10"	45 02'10"	NE	15,000	10,6133		10,5999	2	589 566,3690	9 548 220,2076			15,457	
E370-3		135 02'10"	44 57'50"	SE	5,000	3,5333		3,5378	3	589 559,2890	9 548 206,0699			14,456	
E370-4		135 02'10"	44 57'50"	SE	15,000	10,5999		-10,6133	4	589 566,3556	9 548 198,9944			14,818	
E371-E372		45 02'10"	45 02'10"	NE	20,000	14,1510		14,1332	E372	589 584,0577	9 548 237,8741			11,940	
E372-E373		45 02'10"	45 02'10"	NE	20,000	14,1510		14,1332	E373	589 598,2087	9 548 252,0073			10,979	
E372-1		118 02'10"	44 57'50"	NW	6,800	-4,8053		4,8114	1	589 579,2524	9 548 242,6855			13,882	
E372-2		118 02'10"	44 57'50"	NW	15,000	-10,5999		10,6133	2	589 573,4578	9 548 249,4874			13,850	
E372-3		135 02'10"	44 57'50"	SE	1,200	0,8480		-0,8491	3	589 584,9057	9 548 237,0250			11,960	
E372-4		135 02'10"	44 57'50"	SE	15,000	10,5999		-10,6133	4	589 594,6576	9 548 227,2608			12,084	
E373-E374		45 02'10"	45 02'10"	NE	20,000	14,1510		14,1332	E374	589 612,3597	9 548 266,1405			11,405	
E374-E375		45 02'10"	45 02'10"	NE	20,000	14,1510		14,1332	E375	589 626,5107	9 548 280,2737			12,434	
E374-1		118 02'10"	44 57'50"	NW	7,000	-4,9466		4,9524	1	589 607,4131	9 548 271,0934			13,399	

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Relatório das coordenadas de todos os pontos.

LOCAL		LOCAL		DESCAVEL		CE		SP		Proprietário		Data		26/08/97			
LN	ALINHAMENTO	ANGULO	DISTANCIA	LONG PARC	LAT PARC	COORD E (X)	COORD N (Y)	COORD Z	ESTACAO	ALINHAMENTO	ANGULO	DISTANCIA	LONG PARC	LAT PARC	COORD E (X)	COORD N (Y)	COORD Z
PTIC	ESTACAO	COMPENSADO	HORIZONTAL	Y	Y	TOT	TOT	DO PONTO									
1171	E374-2	315 02'10"	44 57'50" NW	15,000	-10,5999	10,6133	2 589 601,7598	9 548 276,7536	13,392								
1172	E374-3	135 02'10"	44 57'50" SE	1,500	1,0600	-1,0613	3 589 613,4197	9 548 265,0792	11,531								
1173	E374-4	135 02'10"	44 57'50" SE	15,000	10,5999	-10,6133	4 589 622,9596	9 548 255,5272	11,760								
1174	E375-E376	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E376 589 640,6617	9 548 294,4069	12,667								
1175	E376-E377	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E377 589 654,8127	9 548 308,5401	14,084								
1176	E376-1	315 02'10"	44 57'50" NW	7,300	-5,1586	5,1651	1 589 635,5031	9 548 299,5720	13,051								
1177	E376-2	315 02'10"	44 57'50" NW	15,000	-10,5999	10,6133	2 589 630,0618	9 548 305,0202	13,047								
1178	E376-3	135 02'10"	44 57'50" SE	5,000	3,5333	-3,5378	3 589 644,1950	9 548 290,8691	12,797								
1179	E376-4	135 02'10"	44 57'50" SE	15,000	10,5999	-10,6133	4 589 651,2616	9 548 283,7936	12,967								
1180	E377-E378	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E378 589 668,9637	9 548 322,6733	14,390								
1181	E378-E379	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E379 589 683,1147	9 548 336,8065	15,538								
1182	E378-1	315 02'10"	44 57'50" NW	7,400	-5,2293	5,2359	1 589 663,7344	9 548 327,9092	14,751								
1183	E378-2	315 02'10"	44 57'50" NW	15,000	-10,5999	10,6133	2 589 658,3638	9 548 333,2666	14,745								
1184	E378-3	135 02'10"	44 57'50" SE	5,000	3,5333	-3,5378	3 589 672,4970	9 548 319,1355	14,770								
1185	E378-4	135 02'10"	44 57'50" SE	15,000	10,5999	-10,6133	4 589 679,5636	9 548 312,0600	14,876								
1186	E379-E380	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E380 589 697,2657	9 548 350,9397	15,395								
1187	E380-E381	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E381 589 711,4167	9 548 365,0729	17,158								
1188	E380-1	315 02'10"	44 57'50" NW	7,600	-5,3706	5,3774	1 589 691,8951	9 548 356,3171	16,017								
1189	E380-2	315 02'10"	44 57'50" NW	15,000	-10,5999	10,6133	2 589 686,6658	9 548 361,5530	15,964								
1190	E380-3	135 02'10"	44 57'50" SE	5,000	3,5333	-3,5378	3 589 693,7324	9 548 354,4775	15,527								
1191	E380-4	135 02'10"	44 57'50" SE	15,000	10,5999	-10,6133	4 589 707,8656	9 548 340,3264	16,701								
1192	E381-E382	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E382 589 725,5677	9 548 379,2061	17,200								
1193	E382-E383	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E383 589 739,7187	9 548 393,3393	17,923								
1194	E382-1	315 02'10"	44 57'50" NW	8,000	-5,6533	5,6604	1 589 719,9144	9 548 384,8665	17,669								
1195	E382-2	315 02'10"	44 57'50" NW	15,000	-10,5999	10,6133	2 589 714,9678	9 548 389,8194	17,620								
1196	E382-3	135 02'10"	44 57'50" SE	5,000	3,5333	-3,5378	3 589 729,1010	9 548 375,6683	18,670								
1197	E382-4	135 02'10"	44 57'50" SE	15,000	10,5999	-10,6133	4 589 736,1676	9 548 368,5928	18,700								
1198	E383-E384	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E384 589 753,8697	9 548 407,4725	18,055								
1199	E384-E385	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E385 589 768,0207	9 548 421,6057	18,775								
1200	E384-1	315 02'10"	44 57'50" NW	8,200	-5,7948	5,8019	1 589 748,0751	9 548 413,2744	18,566								
1201	E384-2	315 02'10"	44 57'50" NW	15,000	-10,5999	10,6133	2 589 743,2698	9 548 418,0858	18,566								
1202	E384-3	135 02'10"	44 57'50" SE	5,000	3,5333	-3,5378	3 589 757,4030	9 548 403,9347	18,100								
1203	E384-4	135 02'10"	44 57'50" SE	15,000	10,5999	-10,6133	4 589 764,4696	9 548 396,8592	18,172								
1204	E385-E386	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E386 589 782,1717	9 548 435,7389	18,187								
1205	E386-E387	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E387 589 796,3227	9 548 449,8721	18,577								
1206	E386-1	315 02'10"	44 57'50" NW	8,400	-5,936	5,9434	1 589 776,2357	9 548 441,6823	18,820								
1207	E386-2	315 02'10"	44 57'50" NW	15,000	-10,5999	10,6133	2 589 771,5712	9 548 446,3522	18,827								
1208	E386-3	135 02'10"	44 57'50" SE	5,000	3,5333	-3,5378	3 589 785,7050	9 548 432,2011	18,241								
1209	E386-4	135 02'10"	44 57'50" SE	15,000	10,5999	-10,6133	4 589 792,7716	9 548 425,1256	18,295								
1210	E387-E388	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E388 589 810,4737	9 548 464,0053	18,971								
1211	E388-E389	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E389 589 824,6247	9 548 478,1385	20,118								
1212	E388-1	315 02'10"	44 57'50" NW	8,400	-5,9360	5,9434	1 589 804,5377	9 548 469,9487	19,703								
1213	E388-2	315 02'10"	44 57'50" NW	15,000	-10,5999	10,6133	2 589 799,8738	9 548 474,6186	19,793								
1214	E388-3	135 02'10"	44 57'50" SE	5,000	3,5333	-3,5378	3 589 814,0070	9 548 460,4675	19,073								
1215	E388-4	135 02'10"	44 57'50" SE	15,000	10,5999	-10,6133	4 589 821,0736	9 548 453,3920	18,975								

Relatório das coordenadas de todos os pontos.

ADUTORIA DE CAPONGA

Local CASCAVEL

SPH		Proprietário										Data 26/08/97		
IN	ALINHAMEN	AZIMUTE		DISTANCIA		LONG PARC		LAT PARC		COORD E (X)		COORD N (Y)		COORD (Z)
DICE	EST P M	COMPENSADO	F U M O QD	HORIZONTAL	X	(E+,W-)	Y	(N+,S-)	P M	TOT	COMPENS	TOT	COMPENS	DO PONTO
1216	E385-E390	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E390	589	838,7757	9 548	492,2717	19,351	
1217	E390-E391	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E391	589	852,9267	9 548	506,4049	19,529	
1218	E390-1	315 02'10"	44 57'50"	NW	8,400	-5,9360	5,9434	1	589	832,8397	9 548	498,2151	20,552	
1219	E390-2	315 02'10"	44 57'50"	NW	15,000	-10,5999	10,6133	2	589	828,1758	9 548	502,8850	20,552	
1220	E390-3	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	3	589	842,3090	9 548	488,7339	19,396	
1221	E390-4	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	4	589	849,2756	9 548	481,6584	19,468	
1222	E391-E392	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E392	589	867,0777	9 548	520,5381	19,529	
1223	E392-E393	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E393	589	881,2287	9 548	534,6713	20,395	
1224	E392-1	315 02'10"	44 57'50"	NW	8,400	-5,9360	5,9434	1	589	861,1417	9 548	526,4815	20,360	
1225	E392-2	315 02'10"	44 57'50"	NW	15,000	-10,5999	10,6133	2	589	856,4778	9 548	531,1514	20,360	
1226	E392-3	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	3	589	870,6110	9 548	517,0003	19,550	
1227	E392-4	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	4	589	877,6776	9 548	509,9248	19,674	
1228	E393-E394	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E394	589	895,3797	9 548	548,8045	22,334	
1229	E394-E395	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E395	589	909,5307	9 548	562,9377	22,917	
1230	E394-1	215 02'10"	44 57'50"	NW	8,400	-5,9360	5,9434	1	589	889,4437	9 548	554,7479	22,979	
1231	E394-2	215 02'10"	44 57'50"	NW	15,000	-10,5999	10,6133	2	589	884,7798	9 548	559,4178	23,008	
1232	E394-3	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	3	589	898,9130	9 548	545,2667	22,525	
1233	E394-4	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	4	589	905,9796	9 548	538,1912	22,464	
1234	E395-E396	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E396	589	923,6817	9 548	577,0709	23,099	
1235	E396-E397	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E397	589	937,8327	9 548	591,2041	23,925	
1236	E396-1	315 02'10"	44 57'50"	NW	8,400	-5,9360	5,9434	1	589	917,7457	9 548	583,6143	23,723	
1237	E396-2	315 02'10"	44 57'50"	NW	15,000	-10,5999	10,6133	2	589	913,0818	9 548	587,6842	23,769	
1238	E396-3	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	3	589	927,2157	9 548	573,5331	23,123	
1239	E396-4	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	4	589	934,2816	9 548	566,4576	23,130	
1240	E397-E398	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E398	589	951,9837	9 548	605,3373	23,874	
1241	E398-E399	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E399	589	966,1347	9 548	619,4705	23,899	
1242	E398-1	315 02'10"	44 57'50"	NW	8,400	-5,9360	5,9434	1	589	916,0477	9 548	611,2807	24,155	
1243	E398-2	315 02'10"	44 57'50"	NW	15,000	-10,5999	10,6133	2	589	941,3838	9 548	615,9506	24,133	
1244	E398-3	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	3	589	955,6170	9 548	601,7995	24,145	
1245	E398-4	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	4	589	962,5636	9 548	594,7240	25,475	
1246	E399-E400	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E400	589	980,2857	9 548	633,6037	24,026	
1247	E400-E401	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E401	589	994,4367	9 548	647,7369	24,124	
1248	E400-1	215 02'10"	44 57'50"	NW	8,400	-5,9360	5,9434	1	589	974,3497	9 548	639,5471	24,444	
1249	E400-2	215 02'10"	44 57'50"	NW	15,000	-10,5999	10,6133	2	589	969,6858	9 548	641,2170	24,522	
1250	E400-3	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	3	589	983,8190	9 548	630,0659	24,026	
1251	E400-4	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	4	589	990,8856	9 548	622,9904	24,038	
1252	E401-E402	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E402	590	008,5877	9 548	661,8701	23,381	
1253	E402-E403	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E403	590	022,7387	9 548	676,0033	22,591	
1254	E402-1	315 02'10"	44 57'50"	NW	8,400	-5,9360	5,9434	1	590	002,6517	9 548	667,8135	24,575	
1255	E402-2	315 02'10"	44 57'50"	NW	15,000	-10,5999	10,6133	2	589	997,9878	9 548	672,4834	24,564	
1256	E402-3	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	3	590	002,1210	9 548	658,3323	23,464	
1257	E402-4	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	4	590	009,1876	9 548	651,2568	23,499	
1258	E403-E404	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E404	590	036,8897	9 548	690,1365	21,477	
1259	E404-E405	45 02'10"	45 02'10"	NE	20,000	14,1510	14,1332	E405	590	051,0407	9 548	704,2697	20,115	
1260	E404-1	315 02'10"	44 57'50"	NW	8,400	-5,9360	5,9434	1	590	030,9537	9 548	696,0799	23,293	

Relatório das coordenadas de todos os pontos. Pg: 29/34

ADUTORA DE PARANGA		Local CASCAVEL - CE										
IN	ALINHAMENTO	AZIMUTE	DISTANCIA		LONG PARC	LAT PARC	COORD E (X)		COORD N (Y)		COORD (Z)	
DICE	EST P V	COMPENSADO	R U M O	QD	HORIZONTAL	X (E+,W-)	Y (N+,S-)	TOT	COMPENS	TOT	COMPENS	DO PONTO
1261	E494-2	135 02'10"	44 57'50"	NW	15,000	-10,5999	10,6133	2	590 026 2898	9 548 700,7498		23,301
1262	E494-3	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	3	590 040 4230	9 548 686,5987		21,257
1263	E404-4	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	4	590 047 4896	9 548 679,5232		21,370
1264	<b>E405-E406</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E406</b>	<b>590 065,1917</b>	<b>9 548 718,4029</b>		<b>19,936</b>
1265	<b>E406-E407</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E407</b>	<b>590 079,3427</b>	<b>9 548 732,5361</b>		<b>19,687</b>
1266	E406-1	315 02'10"	44 57'50"	NW	11,300	-7,9853	7,9953	1	590 057,2064	9 548 726,3962		22,888
1267	E406-2	315 02'10"	44 57'50"	NW	15,000	-10,5999	10,6133	2	590 054,5918	9 548 729,0162		22,928
1268	E406-3	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	3	590 068,7250	9 548 714,8651		19,908
1269	E406-4	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	4	590 075,7916	9 548 707,7896		19,792
1270	<b>E407-E408</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E408</b>	<b>590 093,4937</b>	<b>9 548 746,6693</b>		<b>20,140</b>
1271	<b>E408-E409</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E409</b>	<b>590 107,6447</b>	<b>9 548 760,8025</b>		<b>20,059</b>
1272	E408-1	315 02'10"	44 57'50"	NW	13,500	-9,5399	9,5520	1	590 083 9538	9 548 756,2213		22,636
1273	E408-2	315 02'10"	44 57'50"	NW	15,000	-10,5999	10,6133	2	590 082,8938	9 548 757,2826		22,734
1274	E408-3	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	3	590 097,0270	9 548 743 1315		20,123
1275	E408-4	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	4	590 104,0936	9 548 736,0560		20,150
1276	<b>E409-E410</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E410</b>	<b>590 121,7957</b>	<b>9 548 774,9357</b>		<b>20,385</b>
1277	<b>E410-E411</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E411</b>	<b>590 135,9467</b>	<b>9 548 789,0689</b>		<b>20,837</b>
1278	E410-1	315 02'10"	44 57'50"	NW	15,200	-10,7412	10,7548	1	590 111,0545	9 548 785 6905		21,941
1279	E410-2	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	2	590 125,3290	9 548 771 3979		20,539
1280	E410-3	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	3	590 132,3956	9 548 764 3224		20,667
1281	<b>E411-E412</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E412</b>	<b>590 150,0977</b>	<b>9 548 803,2021</b>		<b>20,860</b>
1282	<b>E412-E413</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E413</b>	<b>590 164,2487</b>	<b>9 548 817,3353</b>		<b>21,078</b>
1283	E412-1	315 02'10"	44 57'50"	NW	15,200	-10,7412	10,7548	1	590 139 3565	9 548 613 9569		22,610
1284	E412-2	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	2	590 153 6310	9 548 799 8643		21,070
1285	E412-3	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	3	590 160 6976	9 548 792 5888		21,248
1286	<b>E413-E414</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E414</b>	<b>590 178,3997</b>	<b>9 548 831,4685</b>		<b>21,036</b>
1287	<b>E414-E415</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E415</b>	<b>590 192,5507</b>	<b>9 548 845,6017</b>		<b>20,990</b>
1288	E414-1	315 02'10"	44 57'50"	NW	13,000	-9,1966	9,1992	1	590 169 2131	9 548 840,6667		22,536
1289	E414-2	315 02'10"	44 57'50"	NW	15,000	-10,5999	10,6133	2	590 167 7998	9 548 842,0818		22,546
1290	E414-3	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	3	590 181 9330	9 548 827,9307		21,228
1291	E414-4	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	4	590 188 9996	9 548 820 8552		21,400
1292	<b>E415-E416</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E416</b>	<b>590 206 7017</b>	<b>9 548 859,7349</b>		<b>21,640</b>
1293	<b>E416-E417</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E417</b>	<b>590 220,8527</b>	<b>9 548 873,8681</b>		<b>23,566</b>
1294	E416-1	315 02'10"	44 57'50"	NW	9,400	-6,5426	6,6510	1	590 200 0591	9 548 866,3859		23,720
1295	E416-2	315 02'10"	44 57'50"	NW	15,000	-10,5999	10,6133	2	590 196,1018	9 548 870,3482		23,734
1296	E416-3	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	3	590 210 2358	9 548 856,1971		21,740
1297	E416-4	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	4	590 217 3016	9 548 849,1216		21,834
1298	<b>E417-E418</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E418</b>	<b>590 235,0037</b>	<b>9 548 888,0013</b>		<b>24,309</b>
1299	<b>E418-E419</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E419</b>	<b>590 249,1547</b>	<b>9 548 902,1345</b>		<b>22,216</b>
1300	E418-1	315 02'10"	44 57'50"	NW	8,300	-5,8653	5,8727	1	590 229 1384	9 548 893 8740		25,311
1301	E418-2	315 02'10"	44 57'50"	NW	15,000	-10,5999	10,6133	2	590 224,4038	9 548 898,6146		25,313
1302	E418-3	135 02'10"	44 57'50"	SE	5,000	3,5333	-3,5378	3	590 238,5370	9 548 884,4635		24,339
1303	E418-4	135 02'10"	44 57'50"	SE	15,000	10,5999	-10,6133	4	590 245,6026	9 548 877,3880		24,465
1304	<b>E419-E420</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E420</b>	<b>590 263,3057</b>	<b>9 548 916,2677</b>		<b>22,836</b>
1305	<b>E420-E421</b>	<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>	<b>14,1332</b>	<b>E421</b>	<b>590 277,4567</b>	<b>9 548 930,4009</b>		<b>23,699</b>

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Relatório das coordenadas de todos os pontos.

ADITORA DE LAFONGA		Local		CASCADAVEL - SP		SR#		Proprietário		Data		26/08/97				
LN	ALINHAMENTO	AZIMUTE	DISTANCIA		LONG	PARC	EAT	PARC	COORD E (X)		COORD N (Y)		COORD (Z)			
DIÇE	EST	P M	COMPENSADO	R U M O	QD	HORIZONTAL	X	(E-,W-)	Y	(N-,S-)	P M	TOT	COMPENS	TOT	COMPENS	DO PONTO
1306	E420-1		315 02'10"	44 57'50"	NW	9 400	-6,6426		6 6510		1	590 256 6631		9 548 922 9187		23 836
1307	E420-2		315 02'10"	44 57'50"	NW	15 000	-10,5999		10 6133		2	590 252,7058		9 548 926 8810		23 841
1308	E420-3		135 02'10"	44 57'50"	SE	5 000	3,5333		-3 5378		3	590 266,8390		9 548 912,7299		22 958
1309	E420-4		135 02'10"	44 57'50"	SE	15 000	10,5999		-10 6133		4	590 273,9056		9 548 905,6544		23,043
1310	<b>E421-E422</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E422</b>	<b>590 291,6077</b>		<b>9 548 944,5341</b>		<b>23,623</b>	
1311	<b>E422-E423</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E423</b>	<b>590 305,7587</b>		<b>9 548 958,6673</b>		<b>24,005</b>	
1312	E422-1		315 02'10"	44 57'50"	NW	9,600	-6,7839		6,7925		1	590 284,8238		9 548 951,3266		24,623
1313	E422-2		315 02'10"	44 57'50"	NW	15,000	-10,5999		10,6133		2	590 281,0078		9 548 955,1474		24,633
1314	E422-3		135 02'10"	44 57'50"	SE	5,000	3,5333		-3,5378		3	590 295,1410		9 548 940,9963		23,785
1315	E422-4		135 02'10"	44 57'50"	SE	15,000	10,5999		-10,6133		4	590 302 2076		9 548 933,9208		23,760
1316	<b>E423-E424</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E424</b>	<b>590 319,9097</b>		<b>9 548 972,8005</b>		<b>24,643</b>	
1317	<b>E424-E425</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E425</b>	<b>590 334,0607</b>		<b>9 548 986,9337</b>		<b>25,334</b>	
1318	E424-1		315 02'10"	44 57'50"	NW	13,000	-9,1866		9,1982		1	590 310,7231		9 548 981,9987		26,143
1319	E424-2		315 02'10"	44 57'50"	NW	15,000	-10 5999		10,6133		2	590 309,3098		9 548 983,4138		26,153
1320	E424-3		135 02'10"	44 57'50"	SE	5 000	3,5333		-3 5378		3	590 323,4430		9 548 969,2627		24,835
1321	E424-4		135 02'10"	44 57'50"	SE	15 000	10,5999		-10,6133		4	590 330,5096		9 548 962,1872		25,007
1322	<b>E425-E426</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E426</b>	<b>590 348,2117</b>		<b>9 549 001,0669</b>		<b>26,186</b>	
1323	<b>E426-E427</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E427</b>	<b>590 362,3627</b>		<b>9 549 015,2001</b>		<b>27,619</b>	
1324	E426-1		315 02'10"	44 57'50"	NW	10 400	-7 3493		7 3565		1	590 346,8524		9 549 008,4254		27 202
1325	E426-2		315 02'10"	44 57'50"	NW	15 000	-10 5999		10 6133		2	590 337 6118		9 549 011,6602		27 194
1326	E426-3		135 02'10"	44 57'50"	SE	5 000	3 7067		-3 7076		3	590 348 9184		9 549 008,3593		26 383
1327	E426-4		135 02'10"	44 57'50"	SE	15 000	10 5999		-10,6133		4	590 356 8116		9 548 590,4536		26 296
1328	<b>E427-E428</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E428</b>	<b>590 376,5137</b>		<b>9 549 029,3333</b>		<b>28,350</b>	
1329	<b>E428-E429</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E429</b>	<b>590 390,6647</b>		<b>9 549 043,4665</b>		<b>28,803</b>	
1330	E428-1		315 02'10"	44 57'50"	NW	10,800	-7 6219		7,6416		1	590 368 8816		9 549 036,9749		28,360
1331	E428-2		315 02'10"	44 57'50"	NW	15 000	-10 5999		10 6133		2	590 365 9138		9 549 039,9466		28,360
1332	E428-3		135 02'10"	44 57'50"	SE	5 000	3 7067		-3 7076		3	590 377,2204		9 549 028 6257		28 350
1333	E428-4		135 02'10"	44 57'50"	SE	15 000	10 5999		-10 6133		4	590 387 1136		9 549 018 7200		28 694
1334	<b>E429-E430</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E430</b>	<b>590 404,8157</b>		<b>9 549 057,5997</b>		<b>28,450</b>	
1335	<b>E430-E431</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E431</b>	<b>590 418,9667</b>		<b>9 549 071,7329</b>		<b>27,865</b>	
1336	E430-1		315 02'10"	44 57'50"	NW	8 300	-6 8651		6 8717		1	590 396 9504		9 549 063,4724		28 444
1337	E430-2		315 02'10"	44 57'50"	NW	15 000	-10 5999		10,6133		2	590 394 2158		9 549 066,2130		28,459
1338	E430-3		135 02'10"	44 57'50"	SE	2 500	1 7667		-1 7649		3	590 406 5824		9 549 055,8308		28,490
1339	E430-4		135 02'10"	44 57'50"	SE	15 000	10 5999		-10 6133		4	590 416 4166		9 549 046,9864		28,504
1340	<b>E431-E432</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E432</b>	<b>590 433,1177</b>		<b>9 549 085,8661</b>		<b>27,015</b>	
1341	<b>E432-E433</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E433</b>	<b>590 447,2687</b>		<b>9 549 099,9993</b>		<b>26,501</b>	
1342	E432-1		315 02'10"	44 57'50"	NW	6 200	-4 3813		4 3866		1	590 426,7364		9 549 090,2529		28,022
1343	E432-2		315 02'10"	44 57'50"	NW	15 000	-10,5999		10 6133		2	590 422 5176		9 549 096,4794		28 025
1344	E432-3		135 02'10"	44 57'50"	SE	3 800	2 6853		-2 6887		3	590 436 8030		9 549 083 1774		27 035
1345	E432-4		135 02'10"	44 57'50"	SE	15 000	10,5999		-10,6133		4	590 443 7176		9 549 075,2526		27 041
1346	<b>E433-E434</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E434</b>	<b>590 461,4197</b>		<b>9 549 114,1325</b>		<b>26,175</b>	
1347	<b>E434-E435</b>		<b>45 02'10"</b>	<b>45 02'10"</b>	<b>NE</b>	<b>20,000</b>	<b>14,1510</b>		<b>14,1332</b>	<b>E435</b>	<b>590 475,5707</b>		<b>9 549 128,2657</b>		<b>25,942</b>	
1348	E434-1		315 02'10"	44 57'50"	NW	6,000	-4 2400		4 2463		1	590 457,1797		9 549 118,3776		27 193
1349	E434-2		315 02'10"	44 57'50"	NW	15 000	-10 5999		10 6133		2	590 450 8198		9 549 124,7456		27 161
1350	E434-3		135 02'10"	44 57'50"	SE	4 200	2 9660		-2 9717		3	590 464 3877		9 549 111,1608		26,255

Relatório das coordenadas de todos os pontos. Pg: 31/34

ADUTORIA DE CAPONGA		Local		CASCAREL		CE		Proprietário		Data		26/08/97	
IN	ALINHAMENTO	PRIMEIRO	SEGUNDO	DISTANCIA	LONG PARC	AL PARC	COORD E 'X'	COORD N Y	COORD IZ	EST	P.M	COMPENSADO	DO PONTO
DI	EST	P.M	COMPENSADO	HORIZONTAL	X	Y	TOT	COMPENS	TOT	COMPENS	TOT	COMPENS	DO PONTO
1351	E434-4	45 02'10"	44 57'50" SE	15,000	10,5999	-10,6133	4	590 472,9196	9 549 103,5192				26,175
1352	E435-E436	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E436	590 489,7217	9 549 142,3989				25,556
1353	E436-E437	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E437	590 503,8727	9 549 156,5321				24,922
1354	E436-1	315 02'10"	44 57'50" NW	7,300	-5,1586	5,1651	1	590 484,5631	9 549 147,5640				26,246
1355	E436-2	315 02'10"	44 57'50" NW	15,000	-10,5999	10,6133	2	590 479,1218	9 549 153,0122				26,256
1356	E436-3	315 02'10"	44 57'50" NW	3,000	-2,1200	2,1227	3	590 487,6017	9 549 144,5216				25,446
1357	E436-4	135 02'10"	44 57'50" SE	15,000	10,5999	-10,6133	4	590 500,3216	9 549 131,7856				25,490
1358	E437-E438	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E438	590 518,0237	9 549 170,6653				24,033
1359	E438-E439	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E439	590 532,1747	9 549 184,7985				22,791
1360	E438-1	315 02'10"	44 57'50" NW	8,300	-5,8653	5,8727	1	590 512,1584	9 549 176,5380				24,643
1361	E438-2	315 02'10"	44 57'50" NW	15,000	-10,5999	10,6133	2	590 507,4238	9 549 181,2786				24,643
1362	E438-3	135 02'10"	44 57'50" SE	2,500	1,7667	-1,7689	3	590 519,7904	9 549 168,8964				24,044
1363	E438-4	135 02'10"	44 57'50" SE	15,000	10,5999	-10,6133	4	590 528,6236	9 549 160,0520				24,233
1364	E439-E440	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E440	590 546,3257	9 549 198,9317				21,202
1365	E440-E441	45 02'10"	45 02'10" NE	20,000	14,1510	14,1332	E441	590 560,4767	9 549 213,0649				19,584
1366	E440-1	315 02'10"	44 57'50" NW	6,500	-6,0066	6,0142	1	590 540,3191	9 549 204,9459				22,191
1367	E440-2	315 02'10"	44 57'50" NW	15,000	-10,5999	10,6133	2	590 535,7258	9 549 209,5450				22,194
1368	E440-3	135 02'10"	44 57'50" SE	2,300	1,6253	-1,6274	3	590 547,9510	9 549 197,3043				21,284
1369	E440-4	135 02'10"	44 57'50" SE	15,000	10,5999	-10,6133	4	590 556,9256	9 549 188,3184				21,252
1370	E441-+12	38 02'10"	38 02'10" NE	20,000	12,3232	15,7525	+12	590 572,7999	9 549 228,8174				18,511
1371	+12-E442	33 03'41"	33 03'41" NE	8,000	4,3643	6,7047	E442	590 577,1642	9 549 235,5221				17,891
1372	E442-E443	33 03'40"	33 03'40" NE	20,000	10,9107	16,7618	E443	590 588,0749	9 549 252,2839				16,233
1373	E442-1	33 03'40"	33 03'40" NE	9,800	-8,2133	5,3462	1	590 568,9509	9 549 240,8680				16,831
1374	E442-2	33 03'40"	33 03'40" NE	15,000	-10,5713	8,1830	2	590 564,5929	9 549 243,7051				16,811
1375	E442-3	123 03'40"	33 03'40" SE	0,800	0,6705	-0,4364	3	590 577,8347	9 549 235,0887				16,011
1376	E442-4	123 03'40"	33 03'40" SE	15,000	12,5713	-8,1830	4	590 589,7355	9 549 227,3391				18,015
1377	E443-E444	33 03'40"	33 03'40" NE	20,000	10,9107	16,7618	E444	590 598,9856	9 549 269,0457				14,536
1378	E444-E445	33 03'40"	33 03'40" NE	20,000	10,9107	16,7618	E445	590 609,8963	9 549 285,8075				12,826
1379	E444-1	33 03'40"	33 03'40" NE	9,700	-8,1240	5,2917	1	590 590,8861	9 549 274,3374				15,532
1380	E444-2	33 03'40"	33 03'40" NE	15,000	-12,5713	8,1830	2	590 586,4143	9 549 277,2287				15,521
1381	E444-3	123 03'40"	33 03'40" SE	1,000	0,8381	-0,5455	3	590 599,8237	9 549 266,5002				14,633
1382	E444-4	123 03'40"	33 03'40" SE	15,000	12,5713	-8,1830	4	590 611,5569	9 549 260,8827				14,754
1383	E445-E446	33 03'40"	33 03'40" NE	20,000	10,9107	16,7616	E446	590 620,8070	9 549 302,5693				11,064
1384	E446-E447	33 03'40"	33 03'40" NE	20,000	10,9107	16,7618	E447	590 631,7177	9 549 319,3311				9,343
1385	E446-1	33 03'40"	33 03'40" NE	8,200	-7,1174	5,7189	1	590 613,3966	9 549 307,5882				12,262
1386	E446-2	33 03'40"	33 03'40" NE	15,000	-12,5713	8,1830	2	590 608,2357	9 549 310,7523				12,262
1387	E446-3	123 03'40"	33 03'40" SE	1,000	0,8381	0,5455	3	590 621,6451	9 549 302,0236				11,163
1388	E446-4	123 03'40"	33 03'40" SE	15,000	12,5713	-8,1830	4	590 633,3783	9 549 294,3863				11,408
1389	E447-E448	33 03'40"	33 03'40" NE	20,000	10,9107	16,7618	E448	590 642,6284	9 549 336,0929				7,793
1390	E448-E449	33 03'40"	33 03'40" NE	20,000	10,9107	16,7618	E449	590 653,5391	9 549 352,8547				6,422
1391	E448-1	33 03'40"	33 03'40" NE	9,200	-7,7104	5,0189	1	590 634,9180	9 549 341,1118				8,817
1392	E448-2	33 03'40"	33 03'40" NE	15,000	-12,5713	8,1830	2	590 630,6571	9 549 344,2759				8,829
1393	E448-3	123 03'40"	33 03'40" SE	1,300	0,8381	-0,5455	3	590 643,4665	9 549 335,5474				7,873
1394	E448-4	123 03'40"	33 03'40" SE	15,000	12,5713	-8,1830	4	590 655,1997	9 549 327,9099				7,913
1395	E449-E450	33 03'40"	33 03'40" NE	20,000	10,9107	16,7618	E450	590 664,4498	9 549 369,6165				5,450

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Relatório das coordenadas de todos os pontos.

ADUTORIA DE CAPONGA

Local PASOAVEL - CE

Linha		SRM	Proprietário		Data 26/08/97									
IN	ALINHAMENTO	REINTE	DISTANCIA	LONG PARC	LAI	PAPC	COORD E (X)	COORD N (Y)	COORD (Z)					
	EST P V	COMPENSADO	R U M O QD	HORIZONTAL	X	(E+,W-)	Y	(N+ S-)	P V	TOT	COMPENS	TOT	COMPENS	DO PONTO
	E450-19 2	33 03'40"	33 03'40" NE	19,200	10,4742	16,0913	19 2	590 674,9240	9 549 385,7078			4,559		
	E450-1	100 03'40"	56 56'20" NW	9,100	-7,6266	4,9644	1	590 656,8232	9 549 374,5839			6,450		
	E450-2	313 03'40"	56 56'20" NW	15,000	-12,5713	8,1830	2	590 651,8785	9 549 377,7995			6,465		
	E450-3	113 03'40"	56 56'20" SE	1,000	0,8381	-0,5455	3	590 665,2879	9 549 369,0710			5,455		
	E450-4	123 03'40"	56 56'20" SE	15,000	12,5713	-8,1830	4	590 677,0211	9 549 361,4335			5,471		
	18 2-E451	125 06'59"	54 53'01" SE	0,800	0,6544	-0,4602	E451	590 675,5784	9 549 385,2476			4,572		
	E451-E452	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E452	590 691,9375	9 549 373,7419			4,360		
	E452-E453	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E453	590 708,2966	9 549 362,2362			4,049		
	E452-1	35 07'10"	35 07'10" NE	5,000	2,8764	4,0898	1	590 694,8139	9 549 377,8317			4,410		
	E452-2	35 07'10"	35 07'10" NE	15,000	8,6292	12,2693	2	590 700,5667	9 549 386,0112			4,421		
	E452-3	215 07'10"	35 07'10" SW	5,000	-2,8764	-4,0898	3	590 689,0611	9 549 369,6521			4,366		
	E452-4	215 07'10"	35 07'10" SW	15,000	-8,6292	-12,2693	4	590 683,3083	9 549 361,4726			4,322		
	E453-E454	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E454	590 724,6557	9 549 350,7305			3,891		
	E454-E455	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E455	590 741,0148	9 549 339,2248			3,656		
	E454-1	35 07'10"	35 07'10" NE	5,000	2,8764	4,0898	1	590 727,5321	9 549 354,8203			3,902		
	E454-2	35 07'10"	35 07'10" NE	15,000	8,6292	12,2693	2	590 733,2849	9 549 362,9998			3,908		
	E454-3	215 07'10"	35 07'10" SW	5,000	-2,8764	-4,0898	3	590 721,7793	9 549 346,6407			3,592		
	E454-4	215 07'10"	35 07'10" SW	15,000	-8,6292	-12,2693	4	590 716,0265	9 549 338,4612			3,536		
	E455-E456	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E456	590 757,3739	9 549 327,7191			3,396		
	E456-E457	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E457	590 773,7330	9 549 316,2134			3,347		
	E456-1	35 07'10"	35 07'10" NE	5,000	2,8764	4,0898	1	590 760,2503	9 549 331,6389			3,399		
	E456-2	35 07'10"	35 07'10" NE	15,000	8,6292	12,2693	2	590 766,0031	9 549 339,9884			3,345		
	E456-3	215 07'10"	35 07'10" SW	5,000	-2,8764	-4,0898	3	590 754,4975	9 549 323,6293			3,427		
	E456-4	215 07'10"	35 07'10" SW	10,000	-5,7528	-8,1796	4	590 751,6211	9 549 319,5396			3,511		
	E457-E458	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E458	590 790,0921	9 549 304,7077			3,306		
	E458-E459	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E459	590 806,4512	9 549 293,2020			3,231		
	E458-1	35 07'10"	35 07'10" NE	5,000	2,8764	4,0898	1	590 792,9685	9 549 308,7975			3,298		
	E458-2	35 07'10"	35 07'10" NE	15,000	8,6292	12,2693	2	590 798,7213	9 549 316,9770			3,209		
	E458-3	215 07'10"	35 07'10" SW	5,000	-2,8764	-4,0898	3	590 787,2157	9 549 300,6179			3,315		
	E458-4	215 07'10"	35 07'10" SW	15,000	-8,6292	-12,2693	4	590 781,4629	9 549 292,4384			3,422		
	E459-E460	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E460	590 822,8103	9 549 281,6963			3,264		
	E460-E461	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E461	590 839,1694	9 549 270,1906			3,221		
	E460-1	35 07'10"	35 07'10" NE	5,000	2,8764	4,0898	1	590 825,6867	9 549 285,7861			3,227		
	E460-2	35 07'10"	35 07'10" NE	15,000	8,6292	12,2693	2	590 831,4395	9 549 293,9656			3,177		
	E460-3	215 07'10"	35 07'10" SW	5,000	-2,8764	-4,0898	3	590 819,9339	9 549 277,6365			3,326		
	E460-4	215 07'10"	35 07'10" SW	15,000	-8,6292	-12,2693	4	590 814,1811	9 549 269,4270			3,343		
	E461-E462	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E462	590 855,5285	9 549 258,6849			3,201		
	E462-E463	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E463	590 871,8876	9 549 247,1792			3,250		
	E462-1	35 07'10"	35 07'10" NE	5,000	2,8764	4,0898	1	590 858,4049	9 549 262,7747			3,151		
	E462-2	35 07'10"	35 07'10" NE	15,000	8,6292	12,2693	2	590 864,1577	9 549 270,9542			3,095		
	E462-3	215 07'10"	35 07'10" SW	5,000	-2,8764	-4,0898	3	590 852,6521	9 549 254,5951			3,520		
	E462-4	215 07'10"	35 07'10" SW	15,000	-8,6292	-12,2693	4	590 846,8993	9 549 246,4156			3,255		
	E463-E464	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E464	590 888,2467	9 549 235,6735			3,275		
	E464-E465	125 07'10"	54 52'50" SE	20,000	16,3591	-11,5057	E465	590 904,6058	9 549 224,1678			3,319		
	E464-1	35 07'10"	35 07'10" NE	5,000	2,8764	4,0898	1	590 891,1231	9 549 239,7633			3,245		

Relatório das coordenadas de todos os pontos. Pg: 33/34

Model: ADUTORA DE CIPONGA Local: CASCABEL - CE

Impressão: SRP Proprietário: Data: 26/08/97

LIN	ALINHAMENTO	AZIMUTE		DISTANCIA	LONG PARC	LAT PARC		COORD E (Y)		COORD N (X)		COORD (Z)			
		COMPENSADO	R U M O QD			HORIZONTAL	Y	E+,W-	Y	N+,S-	P V		TOT	COMPENS	TOT
1441	E464-2	35	07'10"	35	07'10"	NE	15,000	8,6292	12,2693	2	590	896,8759	9,549	247,9428	3,201
1442	E464-3	215	07'10"	35	07'10"	SW	5,000	-2,8764	-4,0898	3	590	885,3763	9,549	221,5837	3,318
1443	E464-4	215	07'10"	35	07'10"	SW	15,000	-8,6292	-12,2693	4	590	879,6175	9,549	223,4042	3,371
1444	<b>E465-E466</b>	125	07'10"	54	52'50"	SE	20,000	16,3591	-11,5057	<b>E466</b>	590	920,9649	9,549	212,6621	3,239
1445	<b>E466-E467</b>	125	07'10"	54	52'50"	SE	20,000	16,3591	-11,5057	<b>E467</b>	590	937,3240	9,549	201,1564	3,314
1446	E466-1	35	07'10"	35	07'10"	NE	5,000	2,8764	4,0898	1	590	923,8413	9,549	216,7519	3,217
1447	E466-2	35	07'10"	35	07'10"	NE	15,000	8,6292	12,2693	2	590	929,5941	9,549	224,9314	3,193
1448	E466-3	215	07'10"	35	07'10"	SW	5,000	-2,8764	-4,0898	3	590	918,0885	9,549	208,5723	3,283
1449	E466-4	215	07'10"	35	07'10"	SW	15,000	-8,6292	-12,2693	4	590	912,3357	9,549	200,3928	3,281
1450	<b>E467-E468</b>	125	07'10"	54	52'50"	SE	20,000	16,3591	-11,5057	<b>E468</b>	590	953,6831	9,549	189,6507	3,139
1451	<b>E468-E469</b>	125	07'10"	54	52'50"	SE	20,000	16,3591	-11,5057	<b>E469</b>	590	970,0422	9,549	178,1450	3,157
1452	E468-1	35	07'10"	35	07'10"	NE	5,000	2,8764	4,0898	1	590	956,5595	9,549	193,7405	3,053
1453	E468-2	35	07'10"	35	07'10"	NE	15,000	8,6292	12,2693	2	590	962,3123	9,549	201,9200	3,026
1454	E468-3	215	07'10"	35	07'10"	SW	5,000	-2,8764	-4,0898	3	590	950,8067	9,549	185,5609	3,192
1455	E468-4	215	07'10"	35	07'10"	SW	15,000	-8,6292	-12,2693	4	590	945,0539	9,549	177,3814	3,230
1456	<b>E469-E470</b>	125	07'10"	54	52'50"	SE	20,000	16,3591	-11,5057	<b>E470</b>	590	986,4013	9,549	166,6393	3,017
1457	<b>E470-E471</b>	125	07'10"	54	52'50"	SE	20,000	16,3591	-11,5057	<b>E471</b>	591	002,7604	9,549	155,1336	2,979
1458	E470-1	35	07'10"	35	07'10"	NE	5,000	2,8764	4,0898	1	590	989,2777	9,549	170,7291	2,911
1459	E470-2	35	07'10"	35	07'10"	NE	15,000	8,6292	12,2693	2	590	995,0305	9,549	178,9086	2,856
1460	E470-3	215	07'10"	35	07'10"	SW	5,000	-2,8764	-4,0898	3	590	983,5249	9,549	162,5495	3,018
1461	E470-4	215	07'10"	35	07'10"	SW	15,000	-8,6292	-12,2693	4	590	977,7721	9,549	154,3700	3,067
1462	<b>E471-E472</b>	125	07'10"	54	52'50"	SE	20,000	16,3591	-11,5057	<b>E472</b>	591	019,1195	9,549	143,6279	2,971
1463	<b>E472-E473</b>	125	07'10"	54	52'50"	SE	20,000	16,3591	-11,5057	<b>E473</b>	591	035,4786	9,549	132,1222	2,999
1464	E473-1	35	07'10"	35	07'10"	NE	5,000	2,8764	4,0898	1	591	051,9959	9,549	147,7177	2,825
1465	E473-2	35	07'10"	35	07'10"	NE	15,000	8,6292	12,2693	2	591	027,7487	9,549	155,8972	2,825
1466	E473-3	215	07'10"	35	07'10"	SW	5,000	-2,8764	-4,0898	3	591	018,2431	9,549	139,5381	2,988
1467	E473-4	215	07'10"	35	07'10"	SW	15,000	-8,6292	-12,2693	4	591	010,4903	9,549	131,3586	3,033
1468	<b>E473-E474</b>	125	07'10"	54	52'50"	SE	20,000	16,3591	-11,5057	<b>E474</b>	591	051,8377	9,549	120,6165	3,328
1469	<b>E474-E475</b>	74	27'00"	74	27'00"	NE	20,000	19,2679	5,3616	<b>E475</b>	591	071,1056	9,549	125,9781	3,995
1470	E474-1	35	07'10"	35	07'10"	NE	5,000	2,8764	4,0898	1	591	054,7141	9,549	124,7063	3,364
1471	E474-2	35	07'10"	35	07'10"	NE	15,000	8,6292	12,2693	2	591	060,4669	9,549	132,8858	3,373
1472	E474-3	215	07'10"	35	07'10"	SW	5,000	-2,8764	-4,0898	3	591	048,8613	9,549	116,5267	3,291
1473	E474-4	215	07'10"	35	07'10"	SW	15,000	-8,6292	-12,2693	4	591	043,2085	9,549	108,3472	3,323
1474	<b>E475-E476</b>	74	27'00"	74	27'00"	NE	20,000	19,2679	5,3616	<b>E476</b>	591	090,3735	9,549	131,3397	4,522
1475	<b>E476-+4</b>	74	27'01"	74	27'01"	NE	4,000	3,8536	1,0723	+4	591	094,2271	9,549	132,4120	4,728
1476	E476-1	314	27'00"	15	33'00"	NW	3,000	-0,8042	2,8902	1	591	089,5693	9,549	134,2299	4,966
1477	E476-2	314	27'00"	15	33'00"	NW	15,000	-4,0213	14,4510	2	591	086,3523	9,549	145,7907	5,121
1478	E476-3	74	27'00"	15	33'00"	SE	4,000	1,0723	-3,8518	3	591	091,4456	9,549	127,4861	4,462
1479	E476-4	164	27'00"	15	33'00"	SE	15,000	4,0212	-14,4510	4	591	094,3947	9,549	115,8887	4,332
1480	<b>+4-E477</b>	74	27'00"	74	27'00"	NE	16,000	15,4144	4,2893	<b>E477</b>	591	109,6415	9,549	136,7013	5,205
1481	<b>E477-E478</b>	74	27'00"	74	27'00"	NE	20,000	19,2679	5,3616	<b>E478</b>	591	128,9094	9,549	142,0629	5,912
1482	<b>E478-E479</b>	74	27'00"	74	27'00"	NE	20,000	19,2679	5,3616	<b>E479</b>	591	148,1773	9,549	147,4245	6,417
1483	E478-1	314	27'00"	15	33'00"	NW	3,000	-0,8042	2,8902	1	591	128,1052	9,549	144,9531	6,117
1484	E478-2	314	27'00"	15	33'00"	NW	15,000	-4,0212	14,4510	2	591	124,8882	9,549	155,5139	6,834
1485	E478-3	174	27'00"	15	33'00"	SE	2,000	0,9362	-1,9268	3	591	128,4456	9,549	140,1361	5,962

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Relatório das coordenadas de todos os pontos.

ADUTOFA DE LAPONGA

Local CASCAVEL CI

Seq	SE	Proprietário	Data	26/06/97															
IN	ALINHAMENTO	AZIMUTE	DISTANCIA	LONG	PARC	LAT	PARC	COORD	E (M)	COORD	N (M)	COORD	Z (M)						
	EST	R M	COMPENSADO	R U M O	QD	HORIZONTAL	V	E. W. A	V	N. S. E	R M	TOT	COMPENS	TOT	COMPENS	DO PONTO			
E478-4	164	27'00"	15	33'00"	SE	15,000	4	0212	-14	4510	4	591	132	9306	9	549	127,6119	7	928
E479-E480	74	27'00"	74	27'00"	NE	20,000	19,2679	5,3616	E480	591	167,4452	9	549	152,7861			7,077		
E480-E481	74	27'00"	74	27'00"	NE	20,000	19,2679	5,3616	E481	591	186,7131	9	549	158,1477			7,948		
E480-1	314	27'00"	15	33'00"	NW	3,500	-0,9383	3,3719	1	591	166,5069	9	549	156,1580			7,662		
E480-2	344	27'00"	15	33'00"	NW	15,000	-4,0212	14,4510	2	591	163,4240	9	549	167,2371			8,323		
E480-3	164	27'00"	15	33'00"	SE	1,500	0,4021	-1,4451	3	591	167,8473	9	549	151,3410			7,053		
E480-4	344	27'00"	15	33'00"	NW	6,000	-1,6085	5,7804	4	591	165,8367	9	549	156,5665			7,043		
E480-5	164	27'00"	15	33'00"	SE	11,800	3,1633	-11,3681	5	591	170,6085	9	549	141,4180			8,943		
E481-E482	74	27'00"	74	27'00"	NE	20,000	19,2679	5,3616	E482	591	205,9810	9	549	163,5093			8,660		
E482-E483	74	27'00"	74	27'00"	NE	20,000	19,2679	5,3616	E483	591	225,2489	9	549	168,8709			9,209		
E482-1	344	27'00"	15	33'00"	NW	3,500	-0,9383	3,3719	1	591	205,0427	9	549	166,8812			8,920		
E482-2	344	27'00"	15	33'00"	NW	15,000	-4,0212	14,4510	2	591	201,9598	9	549	177,9603			9,713		
E482-3	164	27'00"	15	33'00"	SE	1,000	0,2681	-0,9634	3	591	206,2491	9	549	162,5459			6,726		
E482-4	164	27'00"	15	33'00"	SE	6,000	2,1446	-7,7070	4	591	208,1256	9	549	155,8021			9,420		
E482-5	164	27'00"	15	33'00"	SE	11,500	2,9485	-10,5974	5	591	208,9299	9	549	152,9119			10,720		
E483-E484	74	27'00"	74	27'00"	NE	20,000	19,2679	5,3616	E484	591	244,5168	9	549	174,2325			9,856		
E484-+13	74	27'01"	74	27'01"	NE	13,000	12,5242	3,4850	+13	591	257,0410	9	549	177,7175			10,566		
E484-1	314	27'00"	15	33'00"	NW	3,000	-0,6042	2,8901	1	591	243,7126	9	549	177,1227			10,059		
E484-2	314	27'00"	15	33'00"	NW	15,000	-4,0212	14,4510	2	591	240,4956	9	549	188,6835			11,085		
E484-3	164	27'00"	15	33'00"	SE	1,000	0,2681	-0,9634	3	591	244,7849	9	549	173,2691			9,906		
E484-4	164	27'00"	15	33'00"	SE	6,000	1,4085	-8,7804	1	591	246,1253	9	549	168,4521			10,672		
E184-5	114	27'00"	15	33'00"	SE	10,800	2,8953	-10,4047	5	591	247,4021	9	549	163,8278			11,972		
E485-+13-E485	99	49'04"	80	10'56"	SE	7,000	6,8975	-1,1936	E485	591	263,9385	9	549	176,5239			11,435		
E485-E486	99	49'05"	80	10'55"	SE	20,000	19,7071	-3,4104	E486	591	283,6456	9	549	173,1135			11,545		
E486-E487	99	49'05"	80	10'55"	SE	20,000	19,7071	-3,4104	E487	591	303,3527	9	549	169,7031			15,337		
E486-1	149	49'05"	9	49'05"	NE	5,000	0,8526	-4,9268	1	591	284,4982	9	549	178,0403			11,655		
E486-2	149	49'05"	9	49'05"	NE	15,000	2,5578	-14,7803	2	591	286,2034	9	549	187,8938			11,045		
E486-3	149	49'05"	9	49'05"	SW	5,000	-0,8526	-4,9268	3	591	282,7930	9	549	168,1867			12,045		
E486-4	149	49'05"	9	49'05"	SW	15,000	-2,5578	-14,7803	1	591	281,0878	9	549	188,3332			13,343		
E487-E488	99	49'05"	80	10'55"	SE	20,000	19,7071	-3,4104	E488	591	323,0598	9	549	166,2927			13,097		
E488-E489	99	49'05"	80	10'55"	SE	20,000	19,7071	-3,4104	E489	591	342,7669	9	549	162,8823			13,862		
E488-1	149	49'05"	9	49'05"	NE	5,000	0,8526	-4,9268	1	591	323,9124	9	549	171,2195			12,794		
E488-2	149	49'05"	9	49'05"	NE	15,000	2,5578	-14,7803	2	591	325,6176	9	549	181,0730			11,720		
E488-3	149	49'05"	9	49'05"	SW	5,000	-0,8526	-4,9268	3	591	322,2072	9	549	161,3659			13,710		
E488-4	149	49'05"	9	49'05"	SW	15,000	2,5578	-14,7803	4	591	320,5020	9	549	181,5124			14,593		
E489-11 2	125	11'10"	54	48'50"	SE	11,200	9,1536	-6,4538	11 2	591	351,9205	9	549	156,4285			14,818		

Coord (X) 591 351,9205 Menor Coord (Y) 593 659 2454 Maior Coord (Y) 9 549 386 0112 Menor Coord (Y) 9 546 237,5457

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KL - Serviços e Engenharia Ltda

ANEXO B – GEOTECNIA

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KL - Serviços e Engenharia Ltda

- Resultados dos Ensaiois

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PERCUSSÃO				IND ROTATIVA			ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO
CONSISTÊNCIA				RECUP NORMAL %			TIPO	PRESSÃO kg/cm <sup>2</sup>			
M MALLE	M MLE	M MLDIA	M MLLA	M MLLA	M MLLA	M MLLA			5	10	
									150		AREIA MEDIANAMENTE COMPACTA
									ESPECIFICAÇÕES ADOPTADAS		
COMPACTIDADE				INDICE DE RESISTÊNCIA A PENETRAÇÃO			LG LUQUEON LF LE FRANC		ABSORÇÃO ESPECÍFICA Lumin.Ambien		
LOCAL EIXO				PERCUSSÃO			ROTATIVA		DIAM		
FURO Nº SPP-5				ENSAIO			BARRILETE		OBSERVAÇÕES		
ESTACA 40				COTA			NA		INICIAL		
				FINAL					PERFIL INDIVIDUAL DE SONDAGEM		
<b>KL - SERVIÇOS E ENGENHARIA LTDA</b> AV. BENEDETO YAMBUÍ TAVARA, 1701 - SALAR 108 A 108 ALDEOTA FONE: (085) 261-8766/261-7722 FAX: (085) 261-4788 CDD: 08 032.4440001-87 CNPJ: 06.846.284-2 FORTALEZA - CEARÁ EMAIL: KLEND@PORTALNET.COM.BR				OBRA			ADUTORA DE CAPONGA				



PERCUSSÃO		IND ROTATIVA		ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO
CONSISTÊNCIA		RECUP NORMAL %		TIPO	PRESSÃO kg / cm <sup>2</sup>			
M. MOLE	M. MEIA	M. MOLE				M. MEIA	M. MOLE	M. MEIA
10	20	30	40	50	60	70	80	90

PERCUSSÃO		IND ROTATIVA		ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO			
CONSISTÊNCIA		RECUP NORMAL %		TIPO	PRESSÃO kg / cm <sup>2</sup>				ABSORÇÃO ESPECÍFICA K (cm <sup>2</sup> /s) 10 <sup>-4</sup>		
M MULE	M MLE	MEDIA				M MUA	DUVA				
10	20	30	40	50	20	40	60	80	100	5	10
						1.50		AREIA POUCO COMPACTA			
						ESPECIFICAÇÕES ADOTADAS					
NUNCA 1 LUMP MEDIAMENTE COMPACTA COMPACTA				LG LUGEON LF LE FRANC		PERCUSSÃO ROTATIVA ENSAIO					
COMPACTIDADE		R Q D - %		FRATURA		DIAM BARRILETE					
LOCAL						OBSERVAÇÕES					
EIXO											
FURO Nº			DATA								
ESTACA		COTA		N.A.		INICIAL					
70						FINAL					
KL - SERVIÇOS E ENGENHARIA LTDA AV SENADOR VIRGÍLIO TAVORA 1701 SALAS 106 A 108 ALDEOTA FONE: (066) 361 8766/361 7733 - FAX: (066) 361 4766 DDQ-DE 022.6440001-87 CEP: 06 249.884-2 FORTALEZA - CEARA EMAIL: KLEND@FORTA.NET.COM.BR						PERFIL INDIVIDUAL DE SONDAEM					
						OBRA					
						ADUTORA DE CAPONGA					

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PERCUSSÃO					IND ROTATIVA			ENSAIO "IN SITU"			PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO	
CONSISTÊNCIA					RECUP NORMAL %			TIPO	PRESSÃO kg / cm <sup>2</sup>	ABSORÇÃO ESPECÍFICA K (cm <sup>2</sup> ) 10 <sup>-4</sup>				
10	20	30	40	50	20	40	60				80	100	5	10
														AREIA MEDIANAMENTE COMPACTA
											ESPECIFICAÇÕES ADOTADAS PERCUSSÃO ROTATIVA: DIAM BARRILETE ENSAIO			
LOCAL EIXO					COMPACTIDADE ÍNDICE DE RESISTÊNCIA A PENETRAÇÃO R Q O %			FRATURA LG LUGECN LF LEFRANC			ABSORÇÃO ESPECÍFICA L/mm.AmValm			OBSERVAÇÕES
FURDN° SPP-9					COTA. NA			DATA			INICIAL FINAL			
ESTACA. 80					COMPACTIDADE ÍNDICE DE RESISTÊNCIA A PENETRAÇÃO R Q O %			FRATURA LG LUGECN LF LEFRANC			ABSORÇÃO ESPECÍFICA L/mm.AmValm			
KL - SERVIÇOS E ENGENHARIA LTDA. AV SENADOR VIRÍLIO TÁVORA 1701 SALAS 108 A 109 ALDEOTA FONE: (085) 361 8766/261 7733 FAX: (085) 361 4766 CEP: 08 033.64-0001 87 007: 08 348.224-3 FORTALEZA - CEARA EMAIL: KLENS@PORTALNET.COM.BR														



PERCUSSÃO		IND ROTATIVA		ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO
CONSISTÊNCIA		RECUP NORMAL %		TIPO	PRESSÃO kg/cm <sup>2</sup>			
MI MALLE	MO MALLE	ME MIA	MI MIA			LUVA	N	
10 20 30 40 50		20 40 60 80 100		5 10		150		AREIA POUCA COMPACTA
10 20 30 40 50		20 40 60 80 100		0 10 20				
LUVA P. LUMIN. MEDIAMAM COMPACTA COMPACTA		INDICE DE RESISTENCIA A PENETRAÇÃO		FRATURA		ESPECIFICAÇÕES ADOTADAS		
COMPACTIDADE		R Q O %		LG LUGEON LF LE FRANC		ABSORÇÃO ESPECÍFICA Lumin./m <sup>2</sup> m		PERCUSSÃO ROTATIVA DIAM BARRILETE ENSAIO
LOCAL EIXO						OBSERVAÇÕES		
FURO Nº SPP-10			DATA					
ESTACA 90		COTA		NA				
KL - SERVIÇOS E ENGENHARIA LTDA AV. SENADOR VIRGÍLIO TAVORA 1701 SALAR 106 A 108 ALDEOTA FONEI (085) 361 8766/361 7722 - FAXI (085) 361 4766 CEP: 58 032-44/0001-27 CEP: 58 045-224-2 FORTALEZA - CEARÁ EMAIL: KLENG@PORTALNET.COM.BR						PERFIL INDIVIDUAL DE SONDAEM		
						OBRA ADUTORA DE CAPONGA		

PERCUSSÃO					IND ROTATIVA			ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO
CONSISTÊNCIA					RECUP NORMAL %			TIPO	PRESSÃO kg/cm <sup>2</sup>			
M. MOLE	M. M. MOLE	M. M. MÉDIA	M. M. DURA	M. M. LULA	N	20	40			60	80	100
										150		AREIA MEDIANAMENTE COMPACTA







PERCUSSÃO					IND ROTATIVA			ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO	
CONSISTÊNCIA					RECUP NORMAL %		TIPO	PRESSÃO kg / cm <sup>2</sup>	ABSORÇÃO ESPECÍFICA K (cm <sup>3</sup> /kg) 10 <sup>-4</sup>				
M MUILE	MUILE	MEDJA	MUA	M MUA	LUMVA	20							40
N													
10 20 30 40 60					20 40 60 80 100		5 10 20				150	AREIA MEDIANAMENTE COMPACTA	
<p>10 20 30 40 60</p> <p>MUA</p> <p>1. LUMV</p> <p>MEDIANAM COMPACTA</p> <p>COMPACTA</p> <p>COMPACIDADE</p>					<p>20 40 60 80 100</p> <p>R Q O - %</p>		<p>5 10 20</p> <p>mm</p> <p>FRATURA</p>		<p>LG LUGEON</p> <p>LF LE FRANC</p>	<p>ABSORÇÃO ESPECÍFICA</p> <p>Lmm<sup>3</sup>/kg</p>	ESPECIFICAÇÕES ADOTADAS		
LOCAL					INDICE DE RESISTENCIA A PENETRAÇÃO				PERCUSSÃO	DIAM	BARRILETE		
EIXO									ROTATIVA				
FURO Nº									ENSAIO				
SPP-15													
ESTACA					COTA		DATA		OBSERVAÇÕES				
140					NA		INICIAL FINAL						
									PERFIL INDIVIDUAL DE SONDAGEM				
									ADUTORA DE CAPONGA				

**KL**  
 KL - SERVIÇOS E ENGENHARIA LTDA.  
 AV SENADOR VIEIRA TÁVORA 1701 SALAS 108 A 109 ALDEOTA  
 FONE (085) 261 8766/261 7722 FAX (085) 261 4766  
 CDD: 06 022.8440001-67 CEP: 06 845.284-2  
 FORTALEZA - CEARÁ  
 EMAIL: KLENG@PORTALNET.COM.BR

PERCUSSÃO					IND ROTATIVA			ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO		
CONSISTÊNCIA					RECUP NORMAL %			TIPO	PRESSÃO kg/cm <sup>2</sup>				ABSORÇÃO ESPECÍFICA K (cm <sup>3</sup> /cm <sup>3</sup> )	
M MUILE	M MUILE	MEDIA	MUIA	M MUIA	LAJUA	N								
10	20	30	40	50	20		40	60	80	100	5	10		
														<b>AREIA MEDIANAMENTE COMPACTA</b>
								<b>LG LUGEON LF LE FRANC</b>		<b>ABSORÇÃO ESPECÍFICA</b> L <sub>min</sub> /L <sub>max</sub>	<b>PERCUSSÃO</b> <b>ROTATIVA</b> <b>ENSAIO</b>	<b>DIAM</b> <b>BARRILETE</b>		
<b>LOCAL</b> EIXO					<b>COMPACIDADE</b>			<b>FRATURA</b>		<b>ESPECIFICAÇÕES ADOTADAS</b>				
<b>FURON</b> SPP-16					<b>INDICE DE RESISTENCIA A PENETRAÇÃO</b>			<b>DATA</b>		<b>OBSERVAÇÕES</b>				
<b>ESTACA</b> 150		<b>COTA</b> NA		<b>INICIAL</b>		<b>FINAL</b>		<b>PERFIL INDIVIDUAL DE SONDAEM</b>						
<b>KL - SERVIÇOS E ENGENHARIA LTDA.</b> AV SENADOR VIRGÍLIO TÁVORA 1701 SALAS 106 A 108 ALDEOTA FONE (085) 261 8788/261 7732 FAX (085) 261 4766 CDD: 06 025 244/0001 07 087: 06 245.294-3 FORTALEZA - CEARÁ EMAIL: KL@NET.FORTALNET.COM.BR								<b>OBRA</b> ADUTORA DE CAPONGA						

PERCUSSÃO					IND ROTATIVA			ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO				
CONSISTÊNCIA					RECUP NORMAL %			TIPO	PRESSÃO kg / cm <sup>2</sup>				ABSORÇÃO ESPECÍFICA K (cm <sup>2</sup> /s) 10 <sup>-4</sup>			
M MALLE	MALLE	MELUA	M LIA	M LIA	N	FRAT										
10	20	30	40	60		20	40	60	80	100	5	10				
[Vertical lines representing soil consistency]					[Horizontal bars representing recovery normal %]			[Fracture diagram]								
										150	[Symbol for sand]	AREIA MEDIANAMENTE COMPACTA				
										ESPECIFICAÇÕES ADOTADAS						
FUFA	1. LUMP	MEDIANAM COMPACTA	COMPACTA		ÍNDICE DE RESISTÊNCIA A PENETRAÇÃO	[Hatched area diagram]			FRATURA	LG LUGEON LF LE FRANC	ABSORÇÃO ESPECÍFICA L <sub>lim</sub> /W <sub>lim</sub>	PERCUSSÃO	DIAM	BARRILETE		
COMPACTIDADE						R	Q	O				%	ROTAÇÃO	ENSAIO		
LOCAL					EIXO			OBSERVAÇÕES								
FURONº					SPP-17			DATA								
ESTACA					160			COTA		NA			INICIAL		FINAL	
<p><b>KL</b></p> <p>KL - SERVIÇOS E ENGENHARIA LTDA.  AV SENADOR VIRÍLIO TÁVORA, 1701 - SALAS 108 A 109 - ALDEOTA  FONE: (085) 321 8766/321 7732 FAX: (085) 321 4786  CDD: 06 085.6440001 67 0071 06 846.884-2  FORTALEZA - CEARÁ  EMAIL: KLENG@PORTALNET.COM.BR</p>					PERFIL INDIVIDUAL DE SONDAAGEM					OBRA						
										ADUTORA DE CAPONGA						

000104



PERCUSSÃO					IND ROTATIVA			ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO
CONSISTÊNCIA					RECUP NORMAL %		TIPO	PRESSÃO kg/cm <sup>2</sup>	ABSORÇÃO ESPECÍFICA K (cm <sup>3</sup> /kg) 10 <sup>-4</sup>			
M. MOLE	M. MOLE	M. MOLE	M. MOLE	M. MOLE	N					fm		
10	20	30	40	50	20	40	60	80	100	0	10	
[Vertical lines representing soil consistency]					[Bar chart for Recup Normal %]		[Line graph for fm]				150	AREIA MEDIANAMENTE COMPACTA
[Vertical lines representing soil consistency]					[Bar chart for Recup Normal %]		[Line graph for fm]		LG LUGEON LF LE FRANC	ABSORÇÃO ESPECÍFICA L <sub>100</sub> mm <sup>3</sup> /mm <sup>3</sup>		ESPECIFICAÇÕES ADOTADAS
COMPACIDADE					ÍNDICE DE RESISTÊNCIA A PENETRAÇÃO		FRATURA		PERCUSSÃO ROTATIVA	DIAM	BARRILETE	
LOCAL					EIXO		FURO Nº		SPP-18		DATA	
ESTACA					170		COTA		NA		INICIAL	
											OBSERVAÇÕES	
											PERFIL INDIVIDUAL DE SONDAGEM	
											OBRA	
											ADUTORA DE CAPONGA	

**KL - SERVIÇOS E ENGENHARIA LTDA**  
 AV. SENADOR VÍTORIO TÁVORA 1701 SALAS 106 A 108 ALDEOTA  
 FONE: (081) 361 87 88/281 7782 - FAX: (081) 361 4764  
 CDD: 08 052.64-4/0001-07 CDD: 06 245.354-3  
 FORTALEZA - CEARÁ  
 EMAIL: KLENB@PORTALNET.ODN.BR



PERCUSSÃO		IND ROTATIVA		ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO			
CONSISTÊNCIA		RECUP NORMAL %		TIPO	PRESSÃO kg / cm <sup>2</sup>				ABSORÇÃO ESPECÍFICA K (cm <sup>2</sup> /s) 10 <sup>-4</sup>		
M MALLE	M MLE	M MUA	M MUA			U/UA	N	f/m			
10	20	30	40	50	20	40		60	80	100	5
						150		AREIA MEDIANAMENTE COMPACTA			
COMPACTIDADE		ÍNDICE DE RESISTÊNCIA A PENETRAÇÃO		FRATURA		ESPECIFICAÇÕES ADOTADAS		OBSERVAÇÕES			
FUA	U/UA	MEDIANAM COMPACTA	COMPACTA	R	Q	O	%		PERCUSSÃO ROTATIVA, ENSAIO		
LOCAL		EIXO		DATA		PERCUSSÃO ROTATIVA, ENSAIO		PERFIL INDIVIDUAL DE SONDAJEM			
FURONº		SPP-19		DATA		DÍAM BARRILETE					
ESTACA		DOTA		INICIAL		FINAL		OBRA			
180		NA									
								ADUTORA DE CAPONGA			

**KL - SERVIÇOS E ENGENHARIA LTDA**  
 AV SENADOR VIRÍLIO TÁVORA, 1701 - SALAS 106 A 108 - ALDEOTA  
 FONE: (085) 261 8766/261 7732 FAX: (085) 261 4766  
 CEC: 06 023.6440001-07 CEP: 06 046.864-2  
 FORTALEZA - CEARÁ  
 EMAIL: KL@NET@FORTALNET.COM.BR



000106

PERCUSSÃO						IND ROTATIVA			ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO				
CONSISTÊNCIA						RECUP NORMAL %			TIPO	PRESSÃO kg / cm <sup>2</sup>				ABSORÇÃO ESPECÍFICA K (cm/s) 10 <sup>-1</sup>			
M MULE	M MLE	MELVA	M LVA	M MLVA	LURA	N					f/m						
10	20	30	40	50	20	40	60	80	100	0	10	20					
[Vertical lines representing consistency]						[Vertical lines representing normal recovery]			[Vertical lines representing test type]		[Vertical lines representing pressure]		[Vertical lines representing absorption]		1.50	[Stippled pattern]	AREIA MEDIANAMENTE COMPACTA
ESPECIFICAÇÕES ADOTADAS						PERCUSSÃO			ROTATIVA		DIAM		BARRILETE				
COMPACIDADE						ÍNDICE DE RESISTÊNCIA A PENETRAÇÃO			FRATURA		LG LUGEDN LF LE FRANC		ABSORÇÃO ESPECÍFICA L/min.km/hm				
LOCAL						EIXO						OBSERVAÇÕES					
FURO Nº						SPP-20						DATA					
ESTACA						CO*A		N.A		INICIAL		FINAL					
190																	
<b>KL</b> KL - SERVIÇOS E ENGENHARIA LTDA AV SENADOR VIRMÍLIO TAVORA 1701 - SALAS 108 A 108 ALDEOTA FONE: (085) 361 3788/361 7732 FAX: (085) 361 4748 CEP: 032.844-0001 BR 0071-06 249-884-2 FORTALEZA - CEARÁ EMAIL: KLENB@PORTALNET.COM.BR						PERFIL INDIVIDUAL DE SONDAAGEM						OBRA					
												ADUTORA DE CAPONGA					

000107



PERCUSSÃO				IND ROTATIVA				ENSAIO "IN SITU"			PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO						
CONSISTÊNCIA				RECUP NORMAL %				TIPO	PRESSÃO kg / cm <sup>2</sup>	ABSORÇÃO ESPECÍFICA K (cm/s) 10 <sup>-4</sup>									
M. MOLE	M. MOLE	M. MÉDIA	M. MÉDIA	M. MÉDIA	M. MÉDIA	M. MÉDIA	M. MÉDIA				10	20	30	40	50	20	40	60	80
														1.50		AREIA POUCO COMPACTA			
																ESPECIFICAÇÕES ADOTADAS			
											LG LUGEON LF LE FRANC	ABSORÇÃO ESPECÍFICA L <sub>min</sub> /At <sub>min</sub>	PERCUSSÃO ROTATIVA ENSAIO	DIAM BARRILETE					
COMPACTIDADE				ÍNDICE DE RESISTÊNCIA A PENETRAÇÃO				FRATURA											
LOCAL												OBSERVAÇÕES							
EIXO																			
FURONº						DATA													
ESTACA				COTA		NA		INICIAL		FINAL		PERFIL INDIVIDUAL DE SONDAGEM OBRA ADUTORA DE CAPONGA							
210																			
KL - SERVIÇOS E ENGENHARIA LTDA AV. SENADOR VIEIRA FÁVORA, 1701 - SALAS 106 A 108 - ALDEOTA FONE: (085) 381 8766/261 7732 FAX: (085) 381 4766 CDD: 06 022.844/0001 87 0071 06 845.884-2 FORTALEZA - CEARÁ EMAIL: KLEND@PORTALNET.COM.BR																			

000109



PERCUSSÃO					IND ROTATIVA			ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO		
CONSISTÊNCIA					RECUP NORMAL %		f <sub>m</sub>	TIPO	PRESSÃO kg / cm <sup>2</sup>				ABSORÇÃO ESPECÍFICA K (cm <sup>3</sup> /g) 10 <sup>-4</sup>	
M MUILE	M MLE	MELJA	M MIA	M MIA	LUNA	N								
10	20	30	40	50	20	40	60	80	100	5	10			
											150		AREIA MEDIANAMENTE COMPACTA	
													ESPECIFICAÇÕES ADOTADAS	
LOCAL					INDICE DE RESISTENCIA A PENETRAÇÃO		FRATURA		PERCUSSÃO		DIAM		BARRILETE	
EIXO					COMPACTIDADE				ROTATIVA				ENSAIO	
FURO Nº					R Q O %				ENSAIO				OBSERVAÇÕES	
SPP-24									DATA					
ESTACA					COTA		N/A		INICIAL		FINAL			
230														
<b>KL</b> KL - SERVIÇOS E ENGENHARIA LTDA. AV SENADOR Vitorino TAVERA 1701 SALAS 106 A 108 ALDEOTA FONE (085) 261 2766/261 7732 FAX (085) 261 4766 DD(085) 06 033.644.0001-67 CEP: 06 046-284-2 FORTALEZA - CEARÁ EMAIL: KL@NET@PORTALNET.COM.BR													PERFIL INDIVIDUAL DE SONDAAGEM	

000111

PERCUSSÃO					IND ROTATIVA			ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO																										
CONSISTÊNCIA					RECUP NORMAL %			TIPO	PRESSÃO kg/cm <sup>2</sup>				ABSORÇÃO ESPECÍFICA K (cm <sup>2</sup> /s) 10"																									
M M/L	M/L	M/L/A	M/A	M/A/A	U/L/A	N	R Q O %			f <sub>fr</sub>																												
10	20	30	40	50	20		40	60	80		100	5	10																									
										LG LUGEON LF LE FRANC		ABSORÇÃO ESPECÍFICA U <sub>min</sub> f <sub>fr</sub> / m <sup>2</sup>		1.50		AREIA MEDIANAMENTE COMPACTA																						
																	ESPECIFICAÇÕES ADOTADAS																					
																	FUFA 1. LUMB MEDIANAMENTE COMPACTA COMPACTA								ABSORÇÃO ESPECÍFICA U <sub>min</sub> f <sub>fr</sub> / m <sup>2</sup>		PERCUSSÃO ROTATIVA ENSAIO		DIAM BARRILETE									
																	COMPACIDADE					R Q O %			FRATURA		OBSERVAÇÕES											
																	LOCAL					EIXO			DATA													
																	RURD Nº					SPP-25			ESTACA						COTA		N/A		INICIAL		FINAL	
																	ESTACA					240			COTA						N/A		INICIAL		FINAL			
																													PERFIL INDIVIDUAL DE SONDAAGEM									
																	KL - SERVIÇOS E ENGENHARIA LTDA AV. BENEDITO VIRSÍLIO TÁVORA, 1701 - SALAR 108 A 108 - ALDEOTA FONE: (085) 351 8788/891 7723 FAX: (085) 351 4766 CDD: 08 033.2440001 67 08F: 06 348.224-3 FORTALEZA - CEARÁ EMAIL: KLENS@FORTALNET.COM.BR												OBRA		ADUTORA DE CAPONGA							

000112



PERCUSSÃO					IND ROTATIVA			ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO			
CONSISTÊNCIA					RECUP NORMAL %			TIPO	PRESSÃO kg/cm <sup>2</sup>				ABSORÇÃO ESPECÍFICA K (cm <sup>3</sup> /10 <sup>4</sup> )		
III MUILE	II MUILE	MEIA	II MUIA	III MUIA	N	f/m									
10	20	30	40	50		20	40	60	80	100	5	10			
												1.50		AREIA MEDIANAMENTE COMPACTA	
										ESPECIFICAÇÕES ADOTADAS					
COMPACTIDADE					ÍNDICE DE RESISTÊNCIA A PENETRAÇÃO			LG LUGEON LF LE FRANC		ABSORÇÃO ESPECÍFICA Lmin./m <sup>3</sup> m		PERCUSSÃO ROTATIVA ENSAIO		DIAM	BARRILETE
LOCAL					EIXO			FURO Nº		DATA		OBSERVAÇÕES			
ESTACA					CD*A			INICIAL		FINAL					
250					N.A										
<b>KL</b> KL - SERVIÇOS E ENGENHARIA LTDA AV. SENADOR VIRÍLIO TÁVORA, 1701 - SALAS 106 A 108 - ALDEOTA FONE: (085) 261 8766/261 7732 FAX: (085) 261 4764 CEP: 06 022.844/0001 07 CEP: 06 846.884-3 FORTALEZA - CEARÁ EMAIL: KLENG@FORTALNET.COM.BR												PERFIL INDIVIDUAL DE SONDAAGEM			
														OBRA	

PERCUSSÃO		IND ROTATIVA		ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO
CONSISTÊNCIA		RECUP NORMAL %		TIPO	PRESSÃO kg/cm <sup>2</sup>			
M MALLE	M MALLE	M MALLE	M MALLE			5	10	150
10	20	30	40	20	40			
						ESPECIFICAÇÕES ADOTADAS		
						PERCUSSÃO ROTATIVA ENSAIO		
						DIAM BARRILETE		
						OBSERVAÇÕES		
						LOCAL EIXO		
						FURD N° SPP-27		
						ESTACA 260		
						COTA NA		
						INICIAL		
						FINAL		
						OBRA ADUTORA DE CAPONGA		
						PERFIL INDIVIDUAL DE SONDAAGEM		
						LOCAL EIXO		
						FURD N° SPP-27		
						ESTACA 260		
						COTA NA		
						INICIAL		
						FINAL		
						OBRA ADUTORA DE CAPONGA		
						PERFIL INDIVIDUAL DE SONDAAGEM		

**KL**  
 KL - SERVIÇOS E ENGENHARIA LTDA  
 AV. SENADOR VIRSÉLIO TAVORA, 1.721 SALAS 105 A 108 ALDEOTA  
 FONE: (066) 361 8768/241 7732 FAX: (066) 361 4768  
 CEP: 06 022-64/0001 67 CEP: 06 245-224-2  
 FORTALEZA CEARA  
 EMAIL: KLENG@FORTALNET.COM.BR




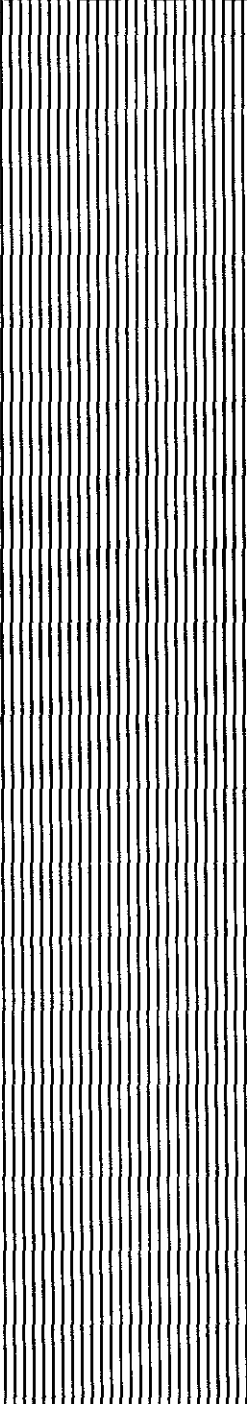
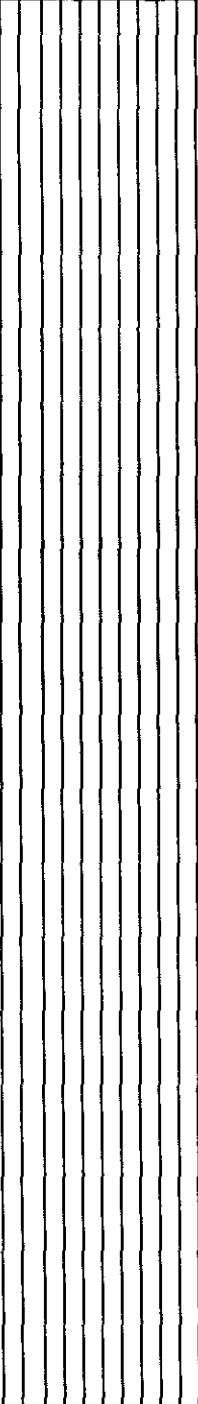

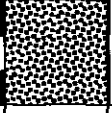
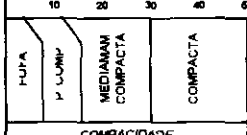
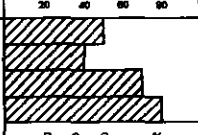
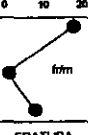




PERCUSSÃO		IND ROTATIVA		ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO
CONSISTÊNCIA		RECUP NORMAL %		TIPO	PRESSÃO kg / cm <sup>2</sup>			
M. MOLE	M. MOLE	M. MOLE	M. MOLE			M. MOLE	M. MOLE	M. MOLE
10	20	30	40	50	60	70	80	90
N		20 40 60 80 100		5 10		1.50		AREIA MEDIANAMENTE COMPACTA
10 20 30 40 50		20 40 60 80 100		0 10 20		ESPECIFICAÇÕES ADOPTADAS		
F.U.F.A. M. LOMBO		INDICE DE RESISTENCIA A PENETRAÇÃO		LG LUGEON LF LE FRANC		PERCUSSÃO ROTATIVA DIAM BARRILETE ENSAIO		
COMPACTA		R Q O %		FRATURA		OBSERVAÇÕES		
LOCAL EIXO		FURO Nº SPP-31		DATA		PERFIL INDIVIDUAL DE SONDAGEM		
ESTACA 300		COTA NA		INICIAL FINAL		OBRA ADUTORA DE CAPONGA		
<p style="text-align: center;"><b>KL</b></p> <p>KL - SERVIÇOS E ENGENHARIA LTDA  AV. SENADOR VIRGÍLIO TAVORA, 1701 SALAS 106 A 108 ALDEIA  FONE: (081) 351 8784/881 9793 FAX: (081) 351 4768  CDD: 08 088.644/0001 67 0071 06 846.884-3  FORTALEZA - CEARÁ  EMAIL: KLEND@FORTALNET.COM.BR</p>								

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PERCUSSÃO					IND ROTATIVA			ENSAIO "IN SITU"			PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO			
CONSISTÊNCIA					RECUP NORMAL %			TIPO	PRESSÃO kg/cm <sup>2</sup>	ABSORÇÃO ESPECÍFICA K' (cm/s) 10 <sup>-4</sup>						
M MUCLE	M MARE	MELUIA	M LIA	M M LIA	DUVA	N	0 20 40 60 80 100				5 10					

PERCUSSÃO					IND ROTATIVA			ENSAIO "IN SITU"			PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO
CONSISTÊNCIA					RECUP NORMAL %			TIPO	PRESSÃO kg/cm <sup>2</sup>	ABSORÇÃO ESPECÍFICA K (cm/s) 10 <sup>-4</sup>			
N. MOLE	MULE	MELIA	MUA	MUA	LUVA	N							
10	20	30	40	60	20		40	60	80	100	5	10	
											150		AREIA POUCA COMPACTA
											ESPECIFICAÇÕES ADOTADAS		
COMPACTIDADE					ÍNDICE DE RESISTÊNCIA A PENETRAÇÃO			FRATURA			PERCUSSÃO ROTATIVA ENSAIO		
LOCAL					R Q O %			LG LUGEON LF LEFRANC			DIAM BARRILETE		
EIXO					FRATURA			ABSORÇÃO ESPECÍFICA Uman.Jm/6m			OBSERVAÇÕES		
FURO Nº					COMPACTIDADE			LG LUGEON LF LEFRANC			OBSERVAÇÕES		
SPP-33					R Q O %			ABSORÇÃO ESPECÍFICA Uman.Jm/6m			OBSERVAÇÕES		
ESTACA					FRATURA			ABSORÇÃO ESPECÍFICA Uman.Jm/6m			OBSERVAÇÕES		
320					R Q O %			ABSORÇÃO ESPECÍFICA Uman.Jm/6m			OBSERVAÇÕES		
COTA					FRATURA			ABSORÇÃO ESPECÍFICA Uman.Jm/6m			OBSERVAÇÕES		
NA					FRATURA			ABSORÇÃO ESPECÍFICA Uman.Jm/6m			OBSERVAÇÕES		
INICIAL					FRATURA			ABSORÇÃO ESPECÍFICA Uman.Jm/6m			OBSERVAÇÕES		
FINAL					FRATURA			ABSORÇÃO ESPECÍFICA Uman.Jm/6m			OBSERVAÇÕES		
DATA					FRATURA			ABSORÇÃO ESPECÍFICA Uman.Jm/6m			OBSERVAÇÕES		
PERFIL INDIVIDUAL DE SONDAAGEM					FRATURA			ABSORÇÃO ESPECÍFICA Uman.Jm/6m			OBSERVAÇÕES		
OBRA					FRATURA			ABSORÇÃO ESPECÍFICA Uman.Jm/6m			OBSERVAÇÕES		
ADUTORA DE CAPONGA					FRATURA			ABSORÇÃO ESPECÍFICA Uman.Jm/6m			OBSERVAÇÕES		

**KL - SERVIÇOS E ENGENHARIA LTDA**  
 AV. SENADOR VIRÍLIO TAVIRA, 1701 SALAS 108 A 108 ALDEOTA  
 FONE: (085) 261 8786/261 7722 FAX: (085) 261 4786  
 CECI: 08 022.44/0001 47 087 06 846.884-2  
 FORTALEZA - CEARÁ  
 E-MAIL: KLENG@PORTALNET.COM.BR





PERCUSSÃO		IND ROTATIVA		ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO				
CONSISTÊNCIA		RECUP NORMAL %		TIPO	PRESSÃO kg/cm <sup>2</sup>				ABSORÇÃO ESPECÍFICA K (cm <sup>3</sup> /g) 10°			
M MALLE	M MLE	MELUA	M LJA	M NUA	LURA	N						
10	20	30	40	50	60				20	40	60	80
						150		AREIA MEDIANAMENTE COMPACTA				
						ESPECIFICAÇÕES ADOTADAS						
PUPA	P LUMP	MEDIAMAM COMPACTA	COMPACTA	ÍNDICE DE RESISTÊNCIA A PENETRAÇÃO		LG LUGEON	ABSORÇÃO ESPECÍFICA L <sub>1000</sub> /m <sup>3</sup> adm	PERCUSSÃO				
COMPACTIDADE		R	Q	O	%	LF LE FRANC		ROTATIVA				
				FRATURA				ENSAIO				
LOCAL		EIXO		OBSERVAÇÕES								
FURO Nº		SPP-34		DATA								
ESTACA		330		COTA	NA	INICIAL	FINAL					
						PERFIL INDIVIDUAL DE SONDAAGEM						
						OBRA						
						ADUTORA DE CAPONGA						



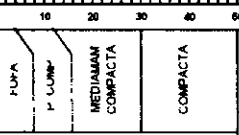
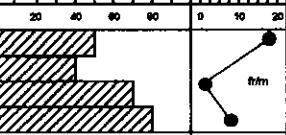

**KL**  
 KL - SERVIÇOS E ENGENHARIA LTDA.  
 AV. SENADOR VIEIRA TAVORA 1701 SALAS 106 A 108 ALDEOTA  
 FONE (081) 351 8786/251 9732 FAX (081) 351 4788  
 CDD: 08 033.6440001 47 CEP: 06 846.884-3  
 FORTALEZA - CEARÁ  
 EMAIL: KL@FORTALNET.COM.BR









PERCUSSÃO		IND ROTATIVA		ENSAIO "IN SITU"		PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO			
CONSISTÊNCIA		RECUP NORMAL %		TIPO	PRESSÃO kg / cm <sup>2</sup>				ABSORÇÃO ESPECÍFICA K (cm <sup>3</sup> /g) 10 <sup>-4</sup>		
M MILE	M MLE	M LULA		M LIA	M MIA	LULA	N				
10	20	30	40	50	20	40	60	80	100	5	10
						150		AREIA MEDIANAMENTE COMPACTA			
						ESPECIFICAÇÕES ADOTADAS					
						LG LUGON LF LE FRANC ABSORÇÃO ESPECÍFICA Lmin/m <sup>3</sup> fm		PERCUSSÃO ROTATIVA ENSAIO DIAM BARRILETE			
LOCAL		EIXO		OBSERVAÇÕES							
FURO Nº		SPP-39		DATA							
ESTACA		COTA		INICIAL		FINAL					
380		NA									
						PERFIL INDIVIDUAL DE SONDAAGEM					
						OBRA		ADUTORA DE CAPONGA			

**KL**  
 KL - SERVIÇOS E ENGENHARIA LTDA  
 AV SENADOR VIRGÍLIO TÁVORA 1701 SALAS 106 A 108 ALDEOTA  
 FONE: (081) 361 8766/361 7732 FAX: (081) 361 4766  
 CEC: 06 028.844/0001 67 CEP: 06 846.884 2  
 FORTALEZA - CEARÁ  
 EMAIL: KL@NET.FORTALEZA.COM.BR







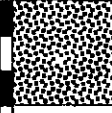
PERCUSSÃO					IND ROTATIVA					ENSAIO "IN SITU"			PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO						
CONSISTÊNCIA					RECUP NORMAL %					TIPO	PRESSÃO kg/cm <sup>2</sup>	ABSORÇÃO ESPECÍFICA K (cm <sup>2</sup> /s) 10 <sup>-4</sup>									
M MUILE	MUILE	MELUA	MUA	M MUA	LUNA	N															
10	20	30	40	50	20	40	60	80	100	0	10	20									
													TIPO PRESSÃO kg/cm <sup>2</sup> ABSORÇÃO ESPECÍFICA K (cm <sup>2</sup> /s) 10 <sup>-4</sup>			150		AREIA MEDIANAMENTE COMPACTA			
10 20 30 40 50					20 40 60 80 100					0 10 20			ESPECIFICAÇÕES ADOTADAS								
LUFA M. LUNP MEDIANAM. COMPACTA COMPACTA					INDICE DE RESISTENCIA A PENETRAÇÃO					LG LUGEDN LF LE FRANC ABSORÇÃO ESPECÍFICA Lmin/m <sup>2</sup> m			PERCUSSÃO ROTATIVA ENSAIO			DIAM BARRILETE					
COMPACTIDADE					R Q G %					FRATURA			OBSERVAÇÕES								
LOCAL					EIXO					FURO Nº			SPP-42			DATA					
ESTACA					410					COTA			NA			INICIAL			FINAL		
<b>KL</b> KL - SERVIÇOS E ENGENHARIA LTDA. AV SENADOR VIRGÍLIO TÁVORA 1701 SALAS 106 A 108 ALODOTA FONE: (085) 261 8766/261 7732 FAX: (085) 261 4766 0001 08 02E 6440001-87 0001 08 846.884 2 FORTALEZA - CEARÁ EMAIL: KLENS@PORTALNET.COM.BR															PERFIL INDIVIDUAL DE SONDAAGEM						
															OBRA			ADUTORA DE CAPONGA			

000129

PERCUSSÃO					IND ROTATIVA			ENSAIO		IN SITU*	PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO															
CONSISTÊNCIA					RECUP NORMAL %			TIPO	PRESSÃO kg/cm <sup>2</sup>	ABSORÇÃO ESPECÍFICA K/cm <sup>2</sup> 10 <sup>-4</sup>																		
M MUILE	M MUILE	M MUILE	M MUIA	M MUIA	N						0m																	
10	20	30	40	50	20	40	60	80	100	5	10																	
													150		AREIA MEDIANAMENTE COMPACTA													
																COMPACTAÇÃO					INDICE DE RESISTENCIA A PENETRAÇÃO			LG LUGEON LF LE FRANC	ABSORÇÃO ESPECÍFICA L/m <sup>2</sup> .Ar/m <sup>2</sup> m	ESPECIFICAÇÕES ADOTADAS		
																										PERCUSSÃO ROTATIVA    DIAM    BARRILETE ENSAIO		
																LOCAL					R    Q    O    %			FRATURA		OBSERVAÇÕES		
																EXO												
																FURO Nº								DATA				
																SPP-43												
																ESTACA					COTA			INICIAL		FINAL		
																420					NA							
																<b>KL - SERVIÇOS E ENGENHARIA LTDA.</b> AV. SENADOR VIRÍLIO TAVORA, 1701 - SALAS 106 e 108 - ALDEOTA FONE: (066) 261 8766/261 7732 FAX: (066) 261 4768 CEP: 06 022-644/0001 07 007: 06 246.2543 FORTALEZA - CEARÁ EMAIL: KLENG@FORTALNET.COM.BR								PERFIL INDIVIDUAL DE SONDAEM				
																								OBRA			ADUTORA DE CAPONGA	





PERCUSSÃO		IND ROTATIVA		ENSAIO "IN SITU"		PROFUNDIDADE	CONFINÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO			
CONSISTÊNCIA		RECUP NORMAL %		TIPO	PRESSÃO kg/cm²				ABSORÇÃO ESPECÍFICA Kicm²/10 <sup>4</sup>		
M MUILE	M MUILE	M MUILE	M MUILE			M MUILE	M MUILE	M MUILE		M MUILE	
10	20	30	40	50	20	40	60	80	100	5	10
N		f <sub>lm</sub>				150		AREIA MEDIANAMENTE COMPACTA			
10 20 30 40 50		20 40 60 80 100		0 10 20		ESPECIFICAÇÕES ADOTADAS					
MUILE		INDICE DE RESISTENCIA A PENETRAÇÃO		f <sub>lm</sub>		PERCUSSÃO ROTATIVA		DIAM			
MUILE		R Q C %		FRATURA		ENSAIO		BARRILETE			
MUILE		LG LUGÉON		ABSORÇÃO ESPECÍFICA L <sub>1000</sub> (kg/cm²)		OBSERVAÇÕES					
MUILE		LF LE FRANC		L <sub>1000</sub> (kg/cm²)		LOCAL					
MUILE		EIXO		DATA		FURO Nº					
MUILE		SPP-46				ESTACA					
MUILE		450		COTA		INICIAL					
MUILE		NA		FINAL		OBRA					
MUILE		ADUTORA DE CAPONGA				KL - SERVIÇOS E ENGENHARIA LTDA					
MUILE						AV. SENADOR VIRÍLIO TÁVORA, 1701 - SALAS 106 A 108 - ALDEOTA					
MUILE						FONE: (085) 261 8766/261 7722 FAX: (085) 261 4766					
MUILE						CNPJ: 08 022.444/0001 47 CEP: 06 845.884-2					
MUILE						FORTALEZA - CEARÁ					
MUILE						EMAIL: KL@FORTELNET.COM.BR					

PERCUSSÃO						IND ROTATIVA			ENSAIO "IN SITU"			PROFUNDIDADE	CONVENÇÃO GRÁFICA	DESCRIÇÃO DO SUBSOLO			
CONSISTÊNCIA					N	RECUP NORMAL %		TIPO	PRESSÃO kg/cm <sup>2</sup>	ABSORÇÃO ESPECÍFICA K (cm <sup>2</sup> /s)	10 <sup>-4</sup>						
RI INÍCIE	RI INÍCIE	MEIJA	RI INÍCIE	RI INÍCIE		LAURA	20					40	60	80	100	5	10
															1.50		AREIA MEDIANAMENTE COMPACTA
															ESPECIFICAÇÕES ADOPTADAS		
															PERCUSSÃO	DIAM	BARRILETE
															ROTATIVA		
															ENSAIO		
															OBSERVAÇÕES		
															LOCAL EIXO		
															FURONº SPP-47		
															ESTACA 460		
															COTA NA		
															INICIAL FINAL		
															LOCAL EIXO		
															FURONº SPP-47		
															ESTACA 460		
															COTA NA		
															INICIAL FINAL		
															LOCAL EIXO		
															FURONº SPP-47		
															ESTACA 460		
															COTA NA		
															INICIAL FINAL		
															LOCAL EIXO		
															FURONº SPP-47		
															ESTACA 460		
															COTA NA		
															INICIAL FINAL		
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															ESTACA 460		
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															ESTACA 460		
															COTA NA		



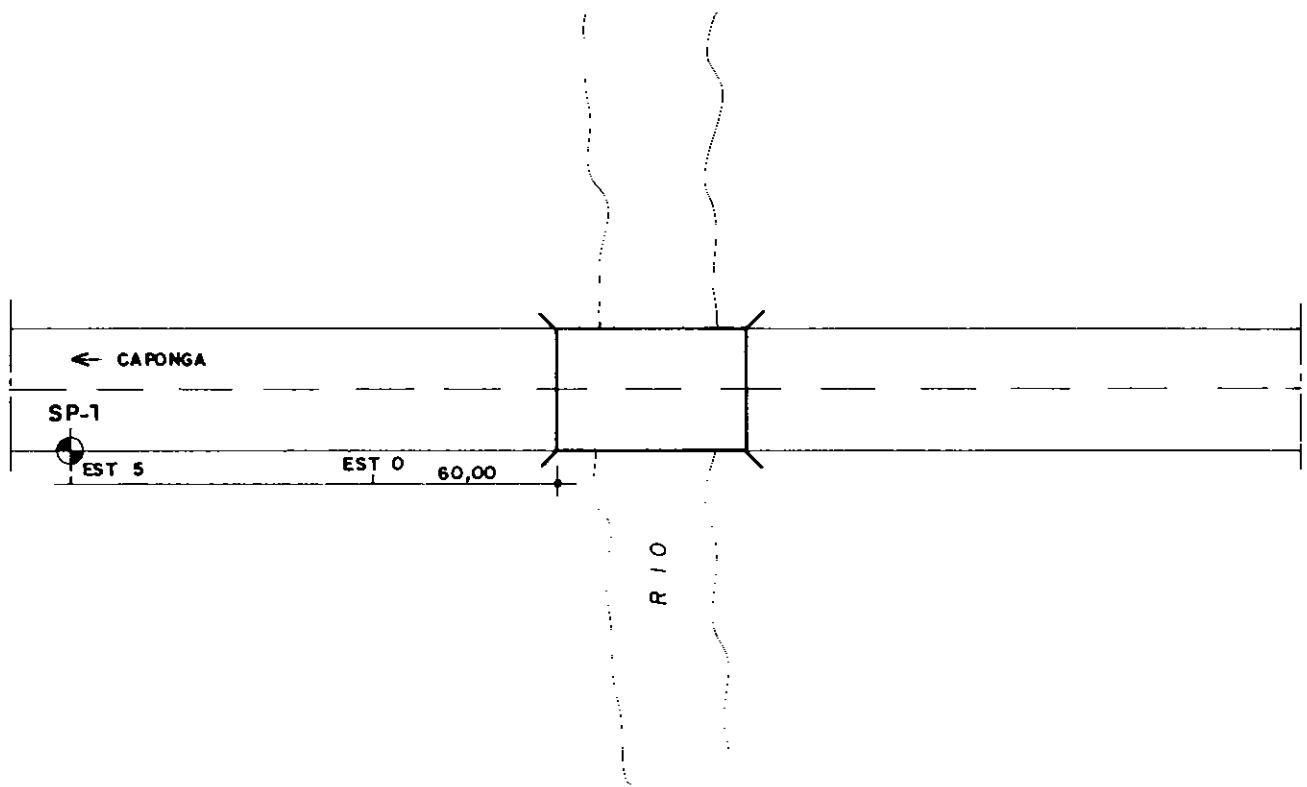






KL - SERVIÇOS E ENGENHARIA LTDA

## Sondagens a Percussão



**LEGENDA:**

⊙ SP-1 — SONDAGEM A PERCUSSÃO Nº 1

000138

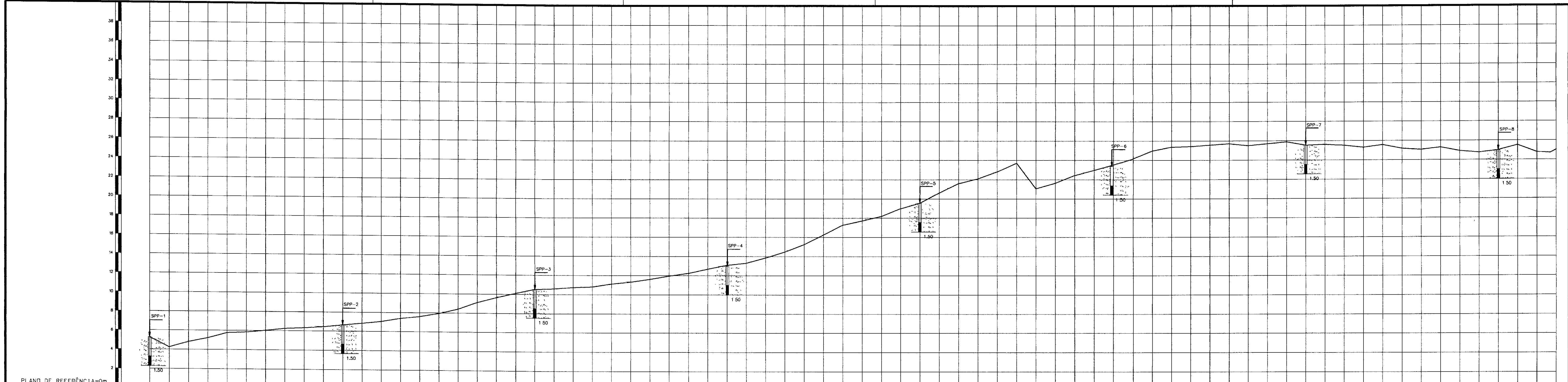
KL - SERVIÇOS E ENGENHARIA LTDA			
DATA: OUT / 97	DES:	VISTO:	
ESC: S / ESCALA	APROVO:		
LOCAÇÃO DA SONDAGEM			DES-01
ETA - CAPONGA - CEARÁ			



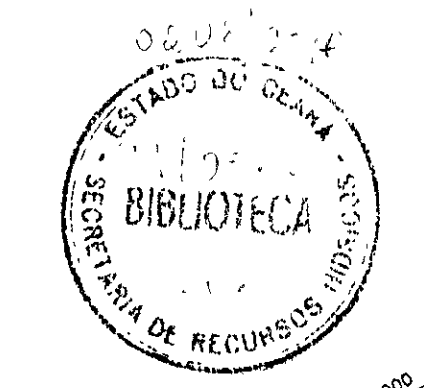
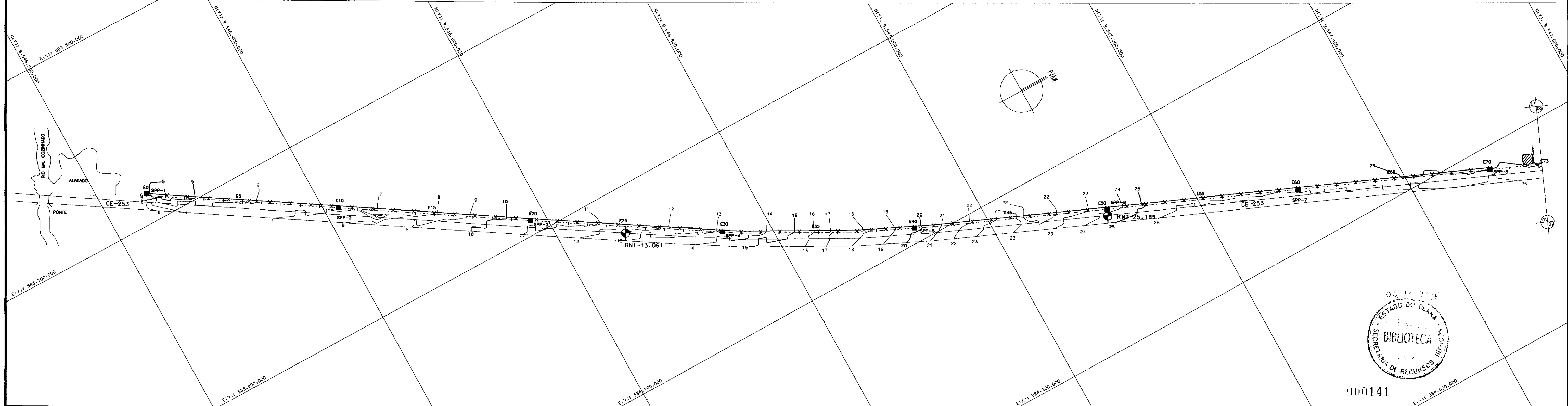


KL - Serviços e Engenharia Ltda

## ANEXO C - DESENHOS



PLANO DE REFERÊNCIA=0m																																																																										
ESTACA	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560	580	600	620	640	660	680	700	720	740	760	780	800	820	840	860	880	900	920	940	960	980	1000	1020	1040	1060	1080	1100	1120	1140	1160	1180	1200	1220	1240	1260	1280	1300	1320	1340	1360	1380	1400	1420	1440	1460
COTA DO TERRENO NATURAL	5,27	4,25	4,81	5,21	5,76	5,83	6,03	6,25	6,34	6,45	6,66	6,83	7,04	7,38	7,61	7,95	8,41	9,13	9,66	10,11	10,53	10,59	10,74	10,82	11,12	11,33	11,61	11,95	12,24	12,69	13,10	13,31	13,85	14,48	15,23	16,25	17,28	17,72	18,18	18,99	19,56	20,62	21,59	22,10	22,82	23,72	21,06	21,64	22,44	22,97	23,53	24,17	25,00	25,39	25,43	25,58	25,73	25,52	25,70	25,90	25,55	25,63	25,53	25,32	25,59	25,20	25,09	25,31	24,93	24,78	25,01	25,54	24,79	25,04
EXTENSÃO ACUMULADA	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560	580	600	620	640	660	680	700	720	740	760	780	800	820	840	860	880	900	920	940	960	980	1000	1020	1040	1060	1080	1100	1120	1140	1160	1180	1200	1220	1240	1260	1280	1300	1320	1340	1360	1380	1400	1420	1440	1460
No. DO TRECHO																																																																										
DIÂMETRO NOMINAL (mm)																																																																										
TIPO E CLASSE DA TUBULAÇÃO																																																																										
PROFUNDIDADE (m)																																																																										
COTA DA GERATRIZ INFERIOR EXTERNA DA TUBULAÇÃO																																																																										



000141

<b>ÁREA AMARELA, MEDIANAMENTE COMPACTA</b>	<b>RN</b>
<b>SONDAGEM A PA E PICARETA</b>	<b>CURVA DE NÍVEL</b>
<b>CASA</b>	
<b>EIXO ADUTORA</b>	
<b>CERCA</b>	
<b>MURO</b>	

<b>NOTAS</b>

<b>DESENHOS DE REFERÊNCIA</b>

REVISÕES			
Nº	NATUREZA DA REVISÃO	DATA	APROVADO

GOVERNO DO ESTADO DO CEARÁ  
SECRETARIA DOS RECURSOS HÍDRICOS-SRH  
COMPANHIA DE GESTÃO DOS RECURSOS HÍDRICOS-COGERH  
PROJETO DE DESENVOLVIMENTO URBANO E GESTÃO DOS RECURSOS HÍDRICOS DO ESTADO DO CEARÁ -PROURB/CE  
PROJETO EXECUTIVO DA ADUTORA DE CAPONGA

**PERFIL TOPOGRÁFICO E GEOTÉCNICO E PLANTA BAIXA**

KL - SERVIÇOS E ENGENHARIA LTDA.

ARQUIVO: KL/CAPONGA.DGN	DESENHO: CARLOS
VISTO:	DATA DE EMISSÃO: SET/07
VERIF.:	ESCALA: 1:2.000
APROVADO:	REV. 0
	Nº DO DESENHO: 01/07



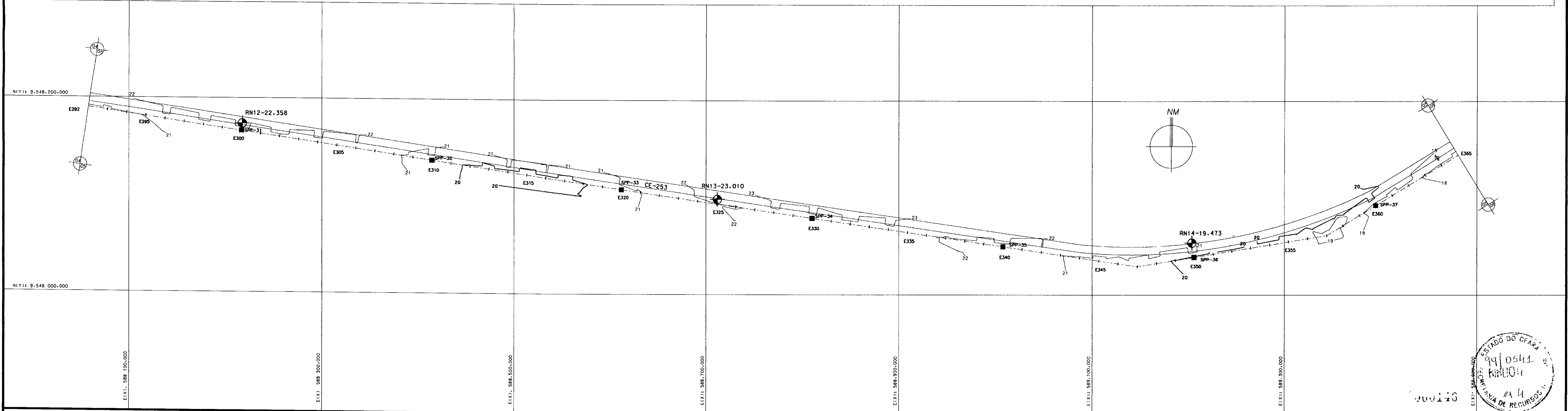
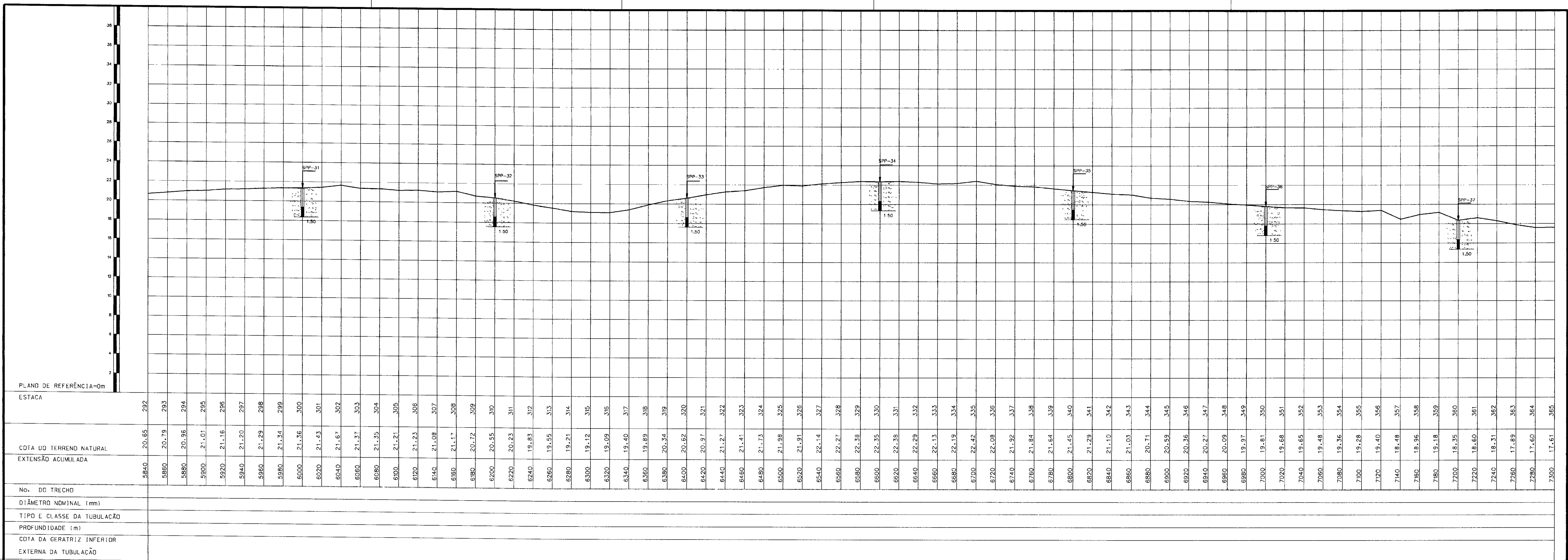












**LEGENDA**

- ÁREA AMARELA, MEDIANAMENTE COMPACTA**
- SONDAGEM A PA E PICARETA**
- CASA**
- EIXO ADUTORA**
- CERCA**
- MURO**
- CURVA DE NÍVEL**

**NOTAS**

**DESENHOS DE REFERÊNCIA**

**REVISÕES**

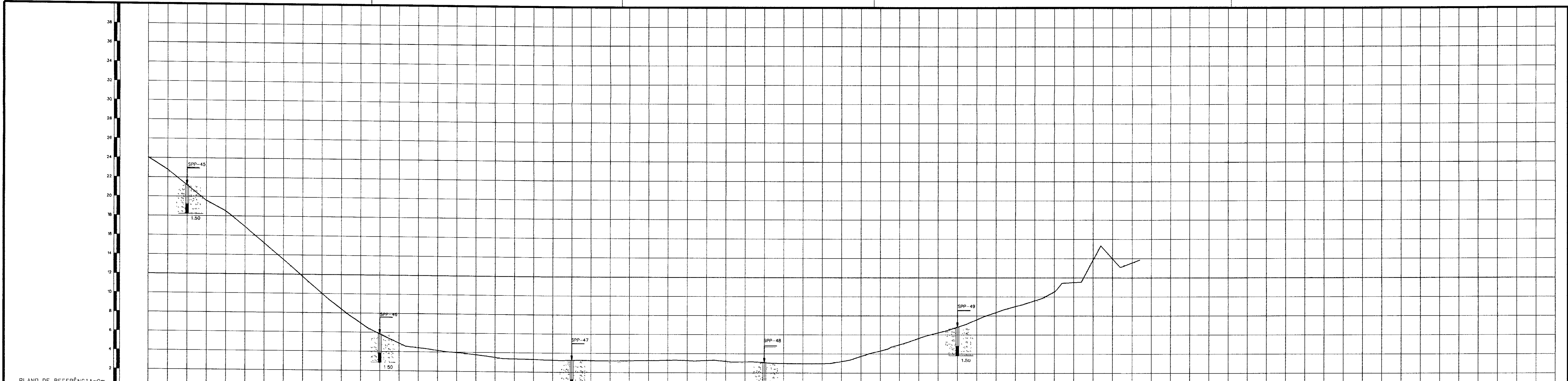
Nº	NATUREZA DA REVISÃO	DATA	APROVADO

**GOVERNO DO ESTADO DO CEARÁ**  
**SECRETARIA DOS RECURSOS HÍDRICOS-SRH**  
**COMPANHIA DE GESTÃO DOS RECURSOS HÍDRICOS-COGERH**  
**PROJETO DE DESENVOLVIMENTO URBANO E GESTÃO DOS RECURSOS HÍDRICOS DO ESTADO DO CEARÁ -PROURB/CE**  
**PROJETO EXECUTIVO DA ADUTORA DE CAPONGA**

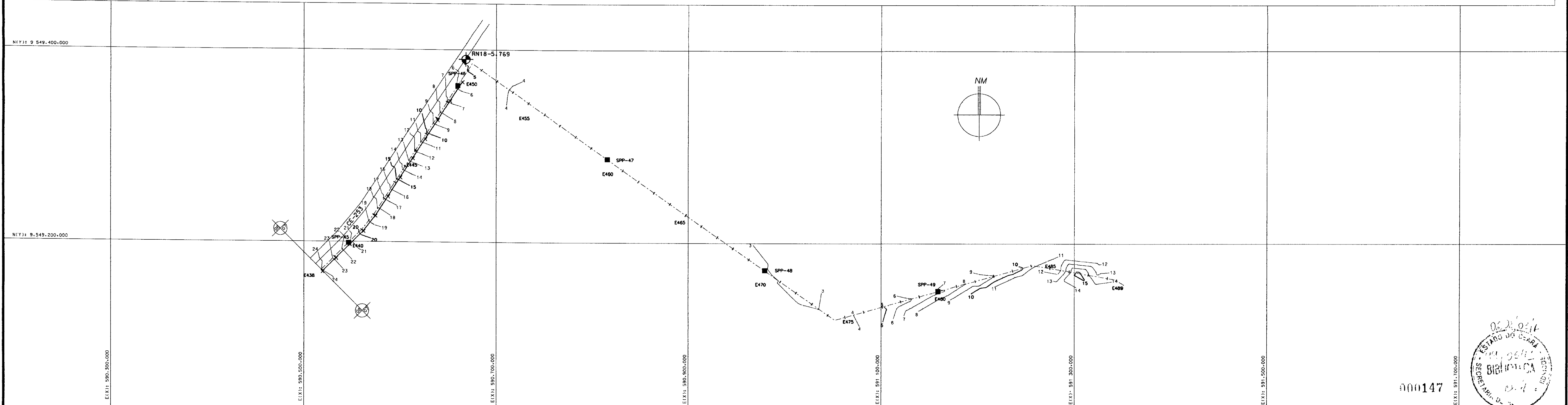
**PERFIL TOPOGRÁFICO E GEOTÉCNICO E PLANTA BAIXA**

**KL - SERVIÇOS E ENGENHARIA LTDA.**

**PROJETO** KL/CAPONGA/01  
**DATA DE ELABORAÇÃO:** 09/05/11  
**ESCALA:** 1:2.000  
**REV.:** 0  
**DATA DE APROVAÇÃO:** 05/07



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COTA DO TERRENO NATURAL	
EXTENSÃO ACUMULADA	
No. DO TRECHO	
DIÂMETRO NOMINAL (mm)	
TIPO E CLASSE DA TUBULAÇÃO	
PROFUNDIDADE (m)	
COTA DA GERATRIZ INFERIOR	
EXTERNA DA TUBULAÇÃO	



	AREIA AMARELA, MEDIANAMENTE COMPACTA
	CASA
	EIXO ADUTORA
	CERCA
	MURO
	RN
	CURVA DE NÍVEL

NOTAS

DESENHOS DE REFERÊNCIA

REVISÕES		
Nº	NATUREZA DA REVISÃO	DATA

GOVERNO DO ESTADO DO CEARÁ  
SECRETARIA DOS RECURSOS HÍDRICOS-SRH  
COMPANHIA DE GESTÃO DOS RECURSOS HÍDRICOS-COGERH  
PROJETO DE DESENVOLVIMENTO URBANO E GESTÃO DOS RECURSOS HÍDRICOS DO ESTADO DO CEARÁ -PROURB/CE  
PROJETO EXECUTIVO DA ADUTORA DE CAPONGA

**PERFIL TOPOGRÁFICO E GEOTÉCNICO E PLANTA BAIXA**

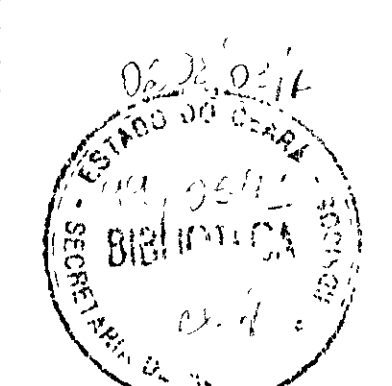
KL - SERVIÇOS E ENGENHARIA LTDA.

DESENHO: CARLOS

DATA DE EMISSÃO: 08/19/97

ESCALA: 1:2.000

Nº DO DESENHO: 07/07



000147