ANNEXES X ENVELOPES

ANEXOS X PASTAS

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CPRM — DIDOTE
ARQUIVO TÉCNICO
Relatorio n.º 2025-I-S
N.º de Volumes: 6+24 V: 3-L
PHL-02161 anexos

ANNEX 10.19

CPRM

PERFILAGEM

BOREHOLE LOGGING

GAMA - RESISTIVIDADE - POTENCIAL ESPONTÂNEO
GAMMA RAY - RESISTANCE - SPONTANEOUS POTENTIAL

CLIENTE / CLIENT: GESCAN

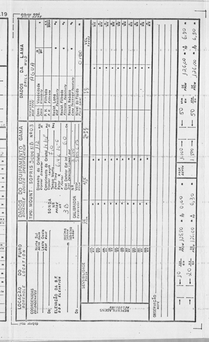
PROJETO / PROJECT: NOGUEIRA, ASSESSORIA MINERAL LTDA

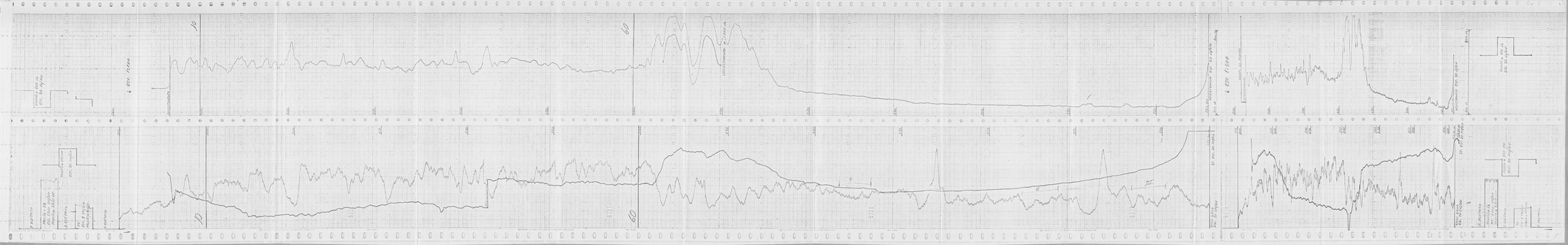
FURO / BOREHOLE: 93-VB-53

MUNICÍPIO / CITY: ZUMBA — ESTADO / STATE: PARAÍBA

PESTIL. COMBOIO / MIN. LOG	GAMA / GAMMA RAY	RESISTÊNCIA / RESISTANCE	POT. ESP. / S.P.
Escala nº / Scale No.	1:500	1:500	1:500
Data / Date	27/08/93	27/08/93	27/08/93
Perfilador / Logged	JOSÉ LUCAS	JOSÉ LUCAS	JOSÉ LUCAS
Leitura Inicial / Start Reading	0,00 m	6,50 m	6,50 m
Leitura Parada / Stop Reading	124,50 m	124,50 m	124,50 m
Perfuratriz / Driller	JOSÉ LUCAS	JOSÉ LUCAS	JOSÉ LUCAS
Perfuratriz / Assistente	JOSÉ LUCAS	JOSÉ LUCAS	JOSÉ LUCAS
Sonda / Rig			
Perfuratriz / Driller			
Sonda / Rig			
Perfuratriz / Assistente	10 cm	50 cm	50 cm
Fim Revestido / Casing Shoe			
Diâmetro do Furo / Hole Diameter	3"	3"	3"
Zero Absoluto / Absolute Zero			
Nível Estático / Static Level			
Nível Dinâmico / Pumping Level			
Vazão / Flow			
Duração do Teste / Test Duration			
Outro Furo / Other Hole			
Furo de Cima / Upper Borehole			
Distância / Distance			

PONTO STELLA





ANNEX 10.20

CPRM

PERFILAGEM
BOREHOLE LOGGING

GAMA - RESISTÊNCIA - POTENCIAL ESPONTÂNEO
GAMMA RAY - RESISTANCE - SPONTANEOUS POTENTIAL

CLIENTE / CLIENT: GSECHI
PROJETO / PROJECT: MOÇAMBIQUE - PROGRAMA MUCANHA VUZI
FURO / BOREHOLE: 20 - VB - 82
MUNICÍPIO / MUNICIPALITY: ZUMBO ESTADO / STATE: TETE MOÇAMBIQUE

PERFIL CORRIDO / RUN LOG	GAMA / GAMMA RAY	RESISTÊNCIA / RESISTANCE	POT. ESP / S.P
Corrida nº / Esc. Prof / RUN Nº / DEPTH ESC.	01 02 / 1:500 1:100		
Data / DATE	18 08 82	18 08 82	
Primeira Leitura / FIRST READING	222,90 m	223,40 m	m
Ultima Leitura / LAST READING	0,00 m	6,30 m	m
Metragem Perfilada / LENGTH LOGGED	222,90 m	216,10 m	m
Profundidade Alcançada / BOTTOM DEPTH	223,50 m	223,50 m	m
Profundidade Perfuração / BOREHOLE DEPTH	223,50 m	223,50 m	m
Sapata Perfilagem / LOGGING SHOE	m	m	m
Sapata Perfuração / DRILLING SHOE	m	m	m
Sensibilidade / RANGE	10 cps/div.	50 ohm/div	mv/div
Erro Percentual / PERCENT PROBABLE ERROR	%PE = 2	—	
Constante de Tempo / TIME CONSTANT	TC = — s	—	
Vel. de Registro / PAPER SPEED	3,0 m/min	3,0 m/min	m/min
Broca ou Coroa / BOREHOLE DIAMETER NQ	223,50 m	223,50 m	m
Broca ou Coroa / BOREHOLE DIAMETER	m	m	m
Revestimento / CASING	m	m	m
Revestimento / CASING HW	6,30 m	6,30 m	m
Tempo de Operação / OPERATE TIME	5 h min	5 h min	h min
Outros Perfis / OTHER LOGS			
Repres. do Cliente / CLIENT SUPERVISOR			
OPERADOR / OPERATOR	PENIDO STELLA		

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DADOS DA LAMA / DRILL MUD
Natureza / MUD TYPE: AGUA
Dens. / Dens; Viscosidade / Viscosity; P. H.; Filtrado / Filtrate; Resist. Lama / Mud Resistivity; Resist. Filtrado / Filtrate Resistivity; Resist. Reboco / Cake Thickness Resistivity
Nivel do Fluido / Fluid Level: 0,00 m

DADOS DO EQUIPAMENTO GAMA / BOREHOLE LOGGER SPECIFICATION
TIPO: MOUNT SOPRIS 3000 NB Nº 03
Diametro do Cristal / Crystal Diameter: 1/2"
Comprimento do Cristal / Crystal Length: 1 x 1/2"
SONDA Nº / PROBE Nº
Tempo Morto / Dead Time: 10
Fator K / K Factor: 6,4 x 10-6
Dist. Detetor Ext int / Dist. Detector - Lower And: 60 cm
CALIBRADOR / Calibrator: Nº; Valor / Value: 3000 CPS

LOCAÇÃO DO FURO / BOREHOLE LOCATION
COORDENADAS / CO-ORDENATES: Norte / North, Sul / South, Leste / East, Oeste / West
Do
ELEVAÇÃO DA B.F. / ODN ELEVATION: m acima / above, abaixo / under
Do

VEL / Speed; T.C.; % P.E.; DE / From; ATE / To; SENSIBILIDADE / Range

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ANNEX 10.21

PERFILAGEM

BOREHOLE LOGGING

CPRM

GAMA - RESISTÊNCIA - POTENCIAL ESPONTÂNEO
GAMMA RAY - RESISTANCE - SPONTANEOUS POTENTIAL

CLIENTE / CLIENT: GSECHI

PROJETO / PROJECT: MOÇAMBIQUE - PROGRAMA MUCANHA VUZI

FURO / BOREHOLE: 21-VB-82

MUNICÍPIO / MUNICIPALITY: LUMBO — ESTADO / STATE: TETE MOÇAMBIQUE

PERFIL CORRIDO / RUN LOG	GAMA / GAMMA RAY	RESISTÊNCIA / RESISTANCE	POT. ESP / S.P
Corrida nº / RUN Nº — Esc. Prof / DEPTH ESC.	01 1:500 / 02 1:100		
Data / DATE	15 09 82		
Primeira Leitura / FIRST READING	175,00 m	175,50 m	175,50 m
Última Leitura / LAST READING	0,00 m	45,50 m	45,50 m
Metragem Perfilada / LENGTH LOGGED	175,00 m	130,00 m	130,00 m
Profundidade Alcançada / BOTTOM DEPTH	175,60 m	175,60 m	175,60 m
Profundidade Perfuração / BOREHOLE DEPTH	175,55 m	175,55 m	175,55 m
Sapata Perfilagem / LOGGING SHOE	m	m	m
Sapata Perfuração / DRILLING SHOE	m	m	m
Sensibilidade / RANGE	10 cps/div	50 ohm/div	20 mv/div
Erro Percentual / PERCENT PROBABLE ERROR	%PE = 2	—	—
Constante de Tempo / TIME CONSTANT	TC = — s	—	—
Vel. de Registro / PAPER SPEED	3,00 m/min	3,00 m/min	3,00 m/min
Broca ou Coroa / BOREHOLE DIAMETER NQ	175,55	175,55	175,55
Broca ou Coroa / BOREHOLE DIAMETER			
Revestimento / CASING NW	45,50 m	45,50 m	45,50 m
Revestimento / CASING	m	m	m
Tempo de Operação / OPERATE TIME	4 h min	4 h min	4 h min
Outros Perfis / OTHER LOGS			
Repres. do Cliente / CLIENT SUPERVISOR			
OPERADOR / OPERATOR	PENSDO STELLA		

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DADOS DA LAMA / DRILL MUD

Natureza / MUD TYPE: AGUA

Dens. / Dens — Viscosidade / Viscosity — P.H. / P.H. — Filtrado / Filtrate — Resist. Lama / Mud Resistivity — Resist. Filtrado / Filtrate Resistivity — Resist. Reboco / Cake Thickness Resistivity — Nível do Fluido / Fluid Level: 24,00 m

DADOS DO EQUIPAMENTO GAMA / BOREHOLE LOGGER SPECIFICATION

TIPO: MOUNT SOPRIS 3000 NB Nº 08

SONDA Nº / PROBE Nº — Diametro do Cristal / Crystal Diameter: 1 1/2" pol — Comprimento do Cristal / Crystal Length: 1 x 1 1/2" pol — Tempo Morto / Dead Time: 7,0 seg — Fator K / K Factor: 6,4 x 10-6 — Dist. Detetor Ext int / Dist. Detector - Lower end: 6,0 cm

CALIBRADOR / Calibrator — Nº: 3 — Valor / Value: 5700 CPS

LOCAÇÃO DO FURO / BOREHOLE LOCATION

COORDENADAS / CO-ORDINATES — Norte Sul / North South — Leste Oeste / East West — Do

ELEVAÇÃO DA B.F. / DDH ELEVATION — acima / above — abaixo / under — Do

VEL. / Speed — T.C. / T.C. — % P.E. / % P.E. — ATÉ / TO — DE / From — SENSIBILIDADE / Range

REPERFILAGENS / RELOGGING

OBSERVAÇÃO / NOTE

PROF. / DEPTH: 1:100 — DE / FROM 175,00 A / TO 0,00 m — ← 10 cps/div; 1:500 — DE / FROM 175,50 A / TO 45,50 m — ← 20 mv/div

1:100 — DE / FROM 175,50 A / TO 45,50 m — ← 50 ohm/div; 1:500 — DE / FROM 175,00 A / TO 45,50 m — ← 50 ohm/div

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ANNEX 10.22

CPRM

PERFILAGEM

BOREHOLE LOGGING

GAMA - RESISTÊNCIA - POTENCIAL ESPONTÂNEO
GAMMA RAY - RESISTANCE - SPONTANEOUS POTENTIAL

CLIENTE / CLIENT: GSECHI.

PROJETO / PROJECT: MOÇAMBIQUE - PROGRAMA MUCANHA - VUZI

FURO / BOREHOLE: 22-VB-82

MUNICÍPIO / MUNICIPALITY: ZUMBO — ESTADO / STATE: TETE MOÇAMBIQUE

PERFIL CORRIDO / RUN. LOG	GAMA / GAMMA RAY	RESISTÊNCIA / RESISTANCE	POT. ESP / S.P
Corrida nº / RUN Nº — Esc. Prof / DEPTH ESC.	01 02 — 1:500 1:100		
Data / DATE	24 08 82	24 08 82	
Primeira Leitura / FIRST READING	178,70 m	179,20 m	m
Ultima Leitura / LAST READING	0,00 m	12,20 m	m
Metragem Perfilada / LENGTH LOGGED	178,70 m	167,00 m	m
Profundidade Alcançada / BOTTOM DEPTH	179,30 m	179,30 m	m
Profundidade Perfuração / BOREHOLE DEPTH	179,20 m	179,20 m	m
Sapata Perfilagem / LOGGING SHOE	m	m	m
Sapata Perfuração / DRILLING SHOE	m	m	m
Sensibilidade / RANGE	10 cps/div.	50 ohm/div	mv/div
Erro Percentual / PERCENT PROBABLE ERROR	%PE = 2	—	
Constante de Tempo / TIME CONSTANT	TC = — s	—	
Vel. de Registro / PAPER SPEED	3,0 m/min	3,0 m/min	m/min
Broca ou Coroa / BOREHOLE DIAMETER NQ	179,20 m	179,20 m	m
Broca ou Coroa / BOREHOLE DIAMETER	m	m	m
Revestimento / CASING NW	12,20 m	12,20 m	m
Revestimento / CASING	m	m	m
Tempo de Operação / OPERATE TIME	2 h 45 min	2 h 45 min	h min
Outros Perfis / OTHER LOGS			
Repres. do Cliente / CLIENT SUPERVISOR			
OPERADOR / OPERATOR	PENIDO STELLA		

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DADOS DA LAMA / DRILL MUD: Natureza / MUD TYPE: AGUA; Dens. / Dens; Viscosidade / Viscosity; P. H.; Filtrado / Filtrate; Resist. Lama / Mud Resistivity; Resist. Filtrado / Filtrate Resistivity; Resist. Reboco / Cake Thickness Resistivity; Nivel do Fluido / Fluid Level: 0,0 m

DADOS DO EQUIPAMENTO GAMA / BOREHOLE LOGGER SPECIFICATION: TIPO: MOUNT SOPRIS 3000 NB Nº 03; Diametro do Cristal / Crystal diameter: 1 1/2"; Comprimento do Cristal / Crystal Length: 1 x 1 1/2"; Tempo Morto / Dead Time: 7,0; Fator K / K Factor: 6,4 x 10⁻⁶; Dist. Detetor Ext inf / Dist. Detector - Lower End: 60 cm; SONDA Nº / PROBE Nº: 3 B; CALIBRADOR / Calibrator: Nº 3000, Valor / Value 5700 CPS

LOCAÇÃO DO FURO / BOREHOLE LOCATION: COORDENADAS / CO-ORDENATES: Norte Sul / North South; Leste Oeste / East West; Do; ELEVAÇÃO DA B.F. / DDH ELEVATION: m acima / above, abaixo / under; Do

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CPRM

PERFILAGEM

SERVIÇO GEOLÓGICO DO BRASIL

CLIENTE: CPRM

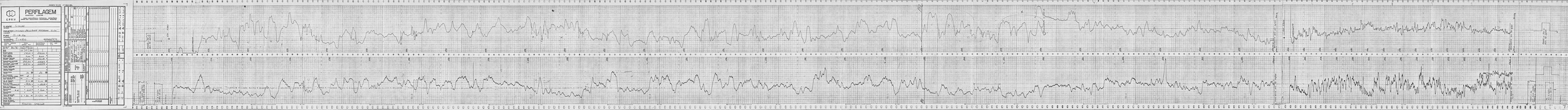
PROJETO: PROJETO PERFILAGEM

POÇO: [illegible]

LOCAL: [illegible]

ESCALA	CORRIDA	REVESTIMENTO
DATA		
TIPO DE FLUIDO		
DENS. DO FLUIDO		
VISC. DO FLUIDO		
PH DO FLUIDO		
NÍVEL DO FLUIDO		
TEMP. DO FLUIDO		
TEMP. MÁX. REGIST.		
TEMP. CIRCULAÇÃO		
HORA DA MEDIÇÃO		
UNIDADE Nº		
OPERADOR		
TESTEMUNHADO POR		
Nº DE CONTAGENS		
TEMPO DE CONTAGEM		
TEMPO MORTO		
Nº DE PASSADAS		
VEL. DE REGISTRO		
Nº DE CURVAS		

PERFIL GRAMA



ANNEX 10.24

CPRM

PERFILAGEM

BOREHOLE LOGGING

GAMA - RESISTÊNCIA - POTENCIAL ESPONTÂNEO
GAMMA RAY - RESISTANCE - SPONTANEOUS POTENTIAL

CLIENTE / CLIENT: GSCCIT

PROJETO / PROJECT: MOÇAMBIQUE - PROGRAMA MUCANHA VUZI

FURO / BOREHOLE: 24-VB-82

MUNICÍPIO / MUNICIPALITY: LUMBO   ESTADO / STATE: TETE MOÇAMBIQUE

PERFIL CORRIDO / RUN LOG	GAMA / GAMMA RAY	RESISTÊNCIA / RESISTANCE	POT. ESP / S.P
Corrida nº Esc. Prof / RUN Nº DEPTH ESC.	01/02 1:100/1:500		
Data / DATE	11 12 82		
Primeira Leitura / FIRST READING	398,40 m	398,90 m	m
Ultima Leitura / LAST READING	0,00 m	7,00 m	m
Metragem Perfilada / LENGTH LOGGED	398,40 m	391,90 m	m
Profundidade Alcançada / BOTTOM DEPTH	400,00 m	400,00 m	m
Profundidade Perfuração / BOREHOLE DEPTH	400,00 m	40,00 m	m
Sapata Perfilagem / LOGGING SHOE	m	m	m
Sapata Perfuração / DRILLING SHOE	m	m	m
Sensibilidade / RANGE	10 cps/div	20 ohm/div	mv/div
Erro Percentual / PERCENT PROBABLE ERROR	%PE = 2		
Constante de Tempo / TIME CONSTANT	TC = — s		
Vel. de Registro / PAPER SPEED	3,0 m/min	3,0 m/min	m/min
Broca ou Coroa / BOREHOLE DIAMETER NQ	400,00 m	400,00 m	m
Broca ou Coroa / BOREHOLE DIAMETER	m	m	m
Revestimento / CASING HW	7,00 m	7,00 m	m
Revestimento / CASING	m	m	m
Tempo de Operação / OPERATE. TIME	5 min	5 min	min
Outros Perfis / OTHER LOGS			
Repres. do Cliente / CLIENT SUPERVISOR			
OPERADOR / OPERATOR	PENIDO STELLA		

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DADOS DO EQUIPAMENTO GAMA / BOREHOLE LOGGER SPECIFICATION

TIPO: MOUNT SOPRIS 3000 WB Nº 03

SONDA Nº / PROBE Nº

Diametro do Cristal / Crystal Diameter: 1/2" pol

Comprimento do Cristal / Crystal Length: 1 x 1 1/2" pol

Tempo Morto / Dead Time: 7,0 seg

Fator K / K-Factor: 6,4 x 10-6

Dist. Detetor Ext Inf / Dist. Detector-Lower End: 60 cm

CALIBRADOR / Calibrator: Nº 3000 — Valor / Value: 5700

DADOS DA LAMA / DRILL MUD

Natureza / MUD TYPE: AGUA

Dens. / Dens — Viscosidade / Viscosity — P.H. — Filtrado / Filtrate — Resist. Lama / Mud Resistivity — Resist. Filtrado / Filtrate Resistivity — Resist. Reboco / Cake Thickness Resistivity

Nivel do Fluido / Fluid Level: 0,00 m

LOCAÇÃO DO FURO / BOREHOLE LOCATION

COORDENADAS / CO-ORDINATES: Norte / North — Sul / South — Leste / East — Oeste / West

ELEVAÇÃO DA B.F. / ELEVATION — m acima / above — abaixo / under

SENSIBILIDADE / Range	DE / From	ATÉ / To	% P.E.	T.C.	VEL / Speed
50	74,40	71,40	1		1,5

REPERFILAGENS / RELOGGING

OBSERVAÇÃO / NOTE

	PROF. / DEPTH		
← 10 cps/div →	1:100	DE / FROM 398,4	A / TO 0,00
← 20 ohm/div →	1:100	DE / FROM 398,90	A / TO 7,00
← 50 ohm/div →	1:500	DE / FROM 400,00	A / TO 7,00

ANNEX 10.25

CPRM

PERFILAGEM
BOREHOLE LOGGING

GAMA – RESISTÊNCIA – POTENCIAL ESPONTÂNEO
GAMMA RAY – RESISTANCE – SPONTANEOUS POTENTIAL

CLIENTE / *CLIENT*: GSECHI

PROJETO / *PROJECT*: MOÇAMBIQUE – PROGRAMA MUCANHA VUZI

FURO / *BOREHOLE*: 25-VB-82

MUNICÍPIO / *MUNICIPALITY*: ZUMBO — ESTADO / *STATE*: TETE MOÇAMBIQUE

PERFIL CORRIDO / RUN LOG	GAMA / GAMMA RAY	RESISTÊNCIA / RESISTANCE	POT. ESP / S.P
Corrida nº / RUN Nº — Esc. Prof / DEPTH ESC.	01/02 — 1:100 / 1:500		
Data / DATE	21 10 82		
Primeira Leitura / FIRST READING	104,40 m	104,90 m	104,90 m
Ultima Leitura / LAST READING	0,00 m	21,20 m	21,20 m
Metragem Perfilada / LENGTH LOGGED	104,40 m	83,70 m	83,70 m
Profundidade Alcançada / BOTTOM DEPTH	105,00 m	105,00 m	105,00 m
Profundidade Perfuração / BOREHOLE DEPTH	105,00 m	105,00 m	105,00 m
Sapata Perfilagem / LOGGING SHOE	m	m	m
Sapata Perfuração / DRILLING SHOE	m	m	m
Sensibilidade / RANGE	10 cps/div	50 ohm/div	20 mv/div
Erro Percentual / PERCENT PROBABLE ERROR	%PE = 2		
Constante de Tempo / TIME CONSTANT	TC = s		
Vel. de Registro / PAPER SPEED	3,0 m/min	3,0 m/min	3,0 m/min
Broca ou Coroa / BOREHOLE DIAMETER NQ	105,00 m	105,00 m	105,00 m
Broca ou Coroa / BOREHOLE DIAMETER	m	m	m
Revestimento / CASING HW	6,00 m	6,00 m	6,00 m
Revestimento / CASING	m	m	m
Tempo de Operação / OPERATE TIME	2 h 30 min	2 h 30 min	2 h 30 min
Outros Perfis / OTHER LOGS			
Repres. do Cliente / CLIENT SUPERVISOR			
OPERADOR / OPERATOR	PENIDO STELLA		

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DADOS DA LAMA / DRILL MUD — Natureza / MUD TYPE: AGUA

DADOS DO EQUIPAMENTO GAMA / LOGGER SPECIFICATION — TIPO: MOUNT SOPRIS 3000 NB Nº 03 — Diametro do Cristal 1/2" — Comprimento do Cristal 1x1/2"

LOCAÇÃO DO FURO / BOREHOLE LOCATION — COORDENADAS / CO-ORDINATES — ELEVAÇÃO DA B.F.

8

ANNEX 10.26

CPRM

PERFILAGEM
BOREHOLE LOGGING

GAMA - RESISTÊNCIA - POTENCIAL ESPONTÂNEO
GAMMA RAY - RESISTANCE - SPONTANEOUS POTENTIAL

CLIENTE / CLIENT: GSECHI

PROJETO / PROJECT: MOÇAMBIQUE - PROGRAMA MUCANHA VUZI

FURO / BOREHOLE: 26-VB-82

MUNICÍPIO / MUNICIPALITY: LUMBO   ESTADO / STATE: TETE MOÇAMBIQUE

PERFIL CORRIDO / RUN LOG	GAMA / GAMMA RAY	RESISTÊNCIA / RESISTANCE	POT. ESP / S.P
Corrida nº / RUN Nº — Esc. Prof / DEPTH ESC.	01 / 02 — 1:500 / 1:100		
Data / DATE	28 09 81		
Primeira Leitura / FIRST READING	169,80 m	170,30 m	170,30 m
Ultima Leitura / LAST READING	0,00 m	18,50 m	37,00 m
Metragem Perfilada / LENGTH LOGGED	169,80 m	151,80 m	133,30 m
Profundidade Alcançada / BOTTOM DEPTH	170,40 m	170,40 m	170,40 m
Profundidade Perfuração / BOREHOLE DEPTH	170,65 m	170,65 m	170,65 m
Sapata Perfilagem / LOGGING SHOE	m	m	m
Sapata Perfuração / DRILLING SHOE	m	m	m
Sensibilidade / RANGE	10 cps/div.	50 ohm/div	20 mv/div
Erro Percentual / PERCENT PROBABLE ERROR	% PE = 2	—	—
Constante de Tempo / TIME CONSTANT	TC = — s	—	—
Vel. de Registro / PAPER SPEED	3,00 m/min	3,00 m/min	3,00 m/min
Broca ou Coroa / BOREHOLE DIAMETER NQ	170,65 m	170,65 m	170,65 m
Broca ou Coroa / BOREHOLE DIAMETER	m	m	m
Revestimento / CASING NW	15,00 m	15,00 m	15,00 m
Revestimento / CASING	m	m	m
Tempo de Operação / OPERATE TIME	4 h 30 min	4 h 30 min	4 h 30 min
Outros Perfis / OTHER LOGS			
Repres. do Cliente / CLIENT SUPERVISOR			
OPERADOR / OPERATOR	PENIDO STELLA		

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DADOS DA LAMA / DRILL MUD

Natureza / MUD TYPE: BENTONITA
Dens. / Dens — lb/gal; Viscosidade / Viscosity — c.c/30mr
P.H. / P.H.; Filtrado / Filtrate
Resist. Lama / Mud Resistivity — °c
Resist. Filtrado / Filtrate Resistivity — °c
Resist. Reboco / Cake Thickness Resistivity
Nivel do Fluido / Fluid Level: 18,50 m

DADOS DO EQUIPAMENTO GAMA / BOREHOLE LOGGER SPECIFICATION

TIPO: MOUNT SOPRIS 3000 NB Nº03
Diametro do Cristal / Crystal Diameter: 1/2" Pol/in
Comprimento do Cristal / Crystal Length: 1 x 1/2" Pol/in
SONDA Nº / PROBE Nº — Tempo Morto / Dead Time: 7,0 Seg; Fator K / K-Factor: 6,4 x 10⁻⁶
Dist. Detetor Ext int / Dist. Detector - Lower And: 60 Cm
CALIBRADOR / Calibrator — Nº: 3000; Valor / Value: 5700 CPS

LOCAÇÃO DO FURO / BOREHOLE LOCATION

COORDENADAS / CO-ORDENATES: Norte Sul / North South; Leste Oeste / East West
Do
ELEVAÇÃO DA B.F. / DDN ELEVATION: m acima / above; abaixo / under
Do

REPERFILAGENS / RELOGGING

SENSIBILIDADE / Range	DE / From	ATE / TO	% P.E. / % P.E.	T.C. / T.C.	VEL / Speed
cps/div	.	.		.	m/min
cps/div	.	.		.	m/min
cps/div	.	.		.	m/min
cps/div	.	.		.	m/min
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cps/div	.	.		.	m/min
cps/div	.	.		.	m/min
cps/div	.	.		.	m/min
cps/div	.	.		.	m/min
cps/div	.	.		.	m/min

OBSERVAÇÃO / NOTE

← 10 cps/div	DE / FROM 169,80 m A / TO 0,00 m	PROF. / DEPTH	1:100 →	← 50 ohm/div	DE / FROM 170,30 m A / TO 18,50 m
← 20 mv/div	DE / FROM 170,30 m A / TO 37,00 m		1:500 →	← 50 ohm/div	DE / FROM 170,00 m A / TO 19,00 m

CONTROLES GRÁFICOS DARU S/A IND

ANNEX 10.27

CPRM

PERFILAGEM
BOREHOLE LOGGING

GAMA-RESISTÊNCIA- POTENCIAL ESPONTÂNEO
GAMMA RAY-RESISTANCE-SPONTANEOUS POTENTIAL

CLIENTE CLIENT: GEOCHI

PROJETO PROJECT: MOÇAMBIQUE - PROGRAMA NACIONAL VUZI

FURO BOREHOLE: VZ-VB-32

MUNICÍPIO MUNICIPALITY: ZUMBO

ESTADO STATE: TETE

PERFIL CORRIDO RUN LOG	GAMA GAMMA RAY	RESISTÊNCIA RESISTANCE	POT. S P	ESP
Corrida nº RUN NR / Escala SCALE / Prof DEPTH	1ª 1/500 1/1000			
Data DATE	08 09 82	08 09 82	08 09 82	
Primeira Leitura FIRST READING	56,50 m	57,00 m	57,00 m	
Última Leitura LAST READING	0,00 m	6,00 m	6,00 m	
Medragem Perfilada LOGGED METRAGE	56,50 m	51,00 m	51,00 m	
Profundidade Alcançada BOTTOM DEPTH	57,10 m	57,10 m	57,10 m	
Profundidade Perfuração DRILLER'S DEPTH	57,20 m	57,20 m	57,20 m	
Topo do Perfilagem LOGGING TOP	m	m	m	
Topo da Perfuração DRILLING TOP	m	m	m	
Sensibilidade RANGE	10 mV	50 mV	20 mV	mV
Erro Percentual PERCENT PROBABLE ERROR	% ± 2	- -	-	
Constante de Tempo TIME CONSTANT	TC= - s	- s	- s	
Vel. de Registro PAPER SPEED	3,00 m/h	3,00 m/h	3,00 m/h	
Broca ou Coroa BOREHOLE DIAMETER(S)	• 57,20 m	• 57,20 m	• 57,20 m	
Broca ou Coroa BOREHOLE DIAMETER	• m	• m	• m	
Revestimento CASING	D W • 6,10 m	• 6,10 m	• 6,10 m	
Revestimento CASING	• m	• m	• m	
Tempo de Operação OPERATE TIME	01 h 45 min	01 h 45 min	01 h 45 min	
Outros Perfis OTHER LOGS				
Repres. do Cliente CLIENT SUPERVISOR				
OPERADOR OPERATOR	PENIDO STELLA			

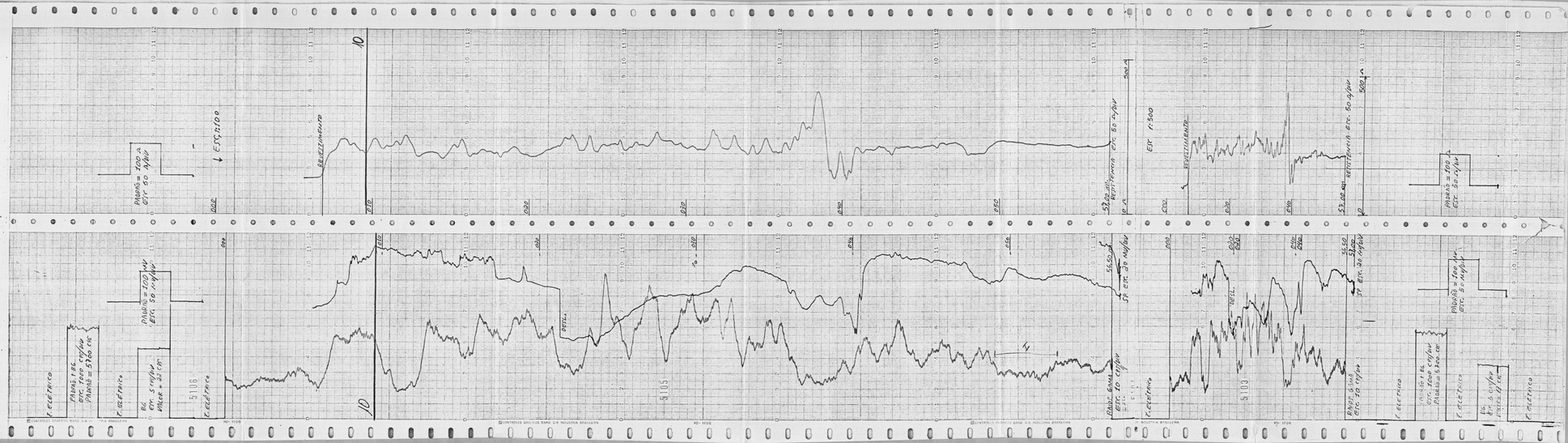
DADOS DO EQUIPAMENTO GAMA — TIPO MOUNT: SONDA 43 mod. — Diam.ª do Cone CONE Dia: 4 1/2" — Comprim.to do Cone CONE Length: 10" — Tipo Type: 43 — Nº Serie Serial No.: 1618 — Filtro Filter: EP M — Nº Serie Serial No.: 1618 — CALIBRADOR CALIBRATOR: Nº Serie Serial No.: — Data Date: 08/09/82

DADOS DA LAMA MUD DATA — Densidade Density — P.H. — Filtrado Filtrate — Reológia Rheology — Resist. Lama Mud Resist. — Resist. Filtrado Filtrate Resist. — Resist. Reboco Mudcake Resist. — Temp. Max. Max. Temp.

LOCAÇÃO LOCATION: FURO VZ-VB-32 — COORDENADAS COORDINATES — Fx — ELEVAÇÃO DA B.E. GROUND ELEVATION — Dx

Sonda Rig — Bomba Pump — Linha Line — Diâmetro Diameter — Pressão Pressure — Velocidade Speed

REVESTIMENTO CASING — BROCA BIT — OBSERVAÇÃO REMARKS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