Southern Resource Exploration

N FT MYERS UTILITIES.

2G4345 815253 X 538719 Y 870704

COMPANY	: DRILLERS INC.
WELL	: N. FT. MYERS UTILITIES INJ.
LOCATION/FIELD	:
COUNTY	: LEE
STATE	: FLA.
SECTION	: 14
DATE	: 05/10/89
DEPTH DRILLER	: 1670
LOG BOTTOM	: 1611.34
LOG TOP	: 28.34

L-5802
071-28
TOWNSHIP 43S
SE NW NWSE

OTHER SERVICES:
BCS.GAM
TEMP.RES
CBL

RANGE 24E

PERMANENT DATUM : PAD
ELEV. PERM. DATUM: -
LOG MEASURED FROM: PAD
DRL MEASURED FROM: PAD

ELEVATIONS +18.00 GRAD
KB : -
DF : -
GL : -

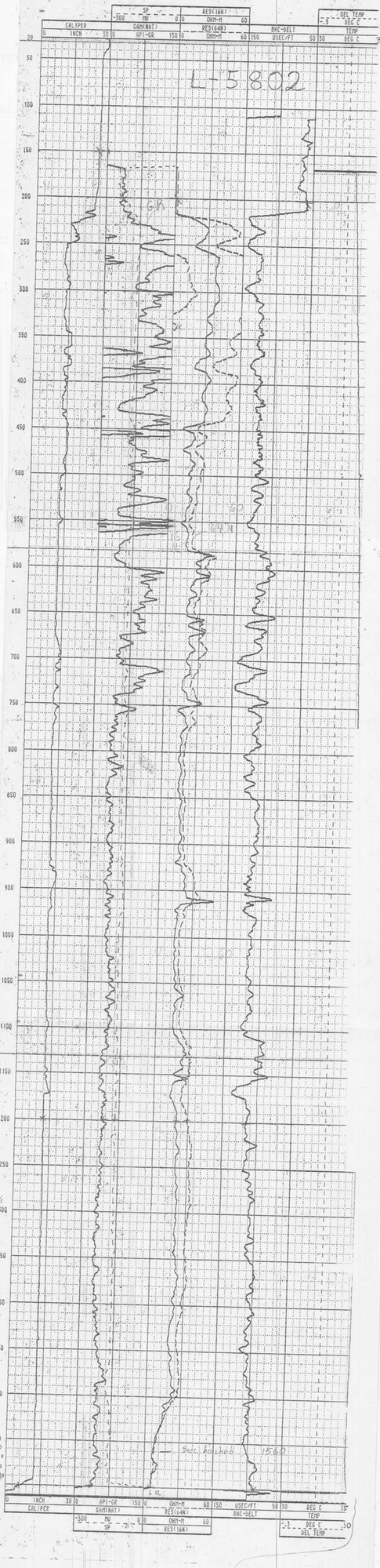
071-28
#150
Ft Myers N.W.

CASING DRILLER	: 220	LOGGING UNIT	: GVL
CASING TYPE	: STEEL	FIELD OFFICE	: GVL
CASING THICKNESS	: .375	RECORDED BY	: JCP

BIT SIZE	: 12.25	BOREHOLE FLUID	: MUD	FILE	: PROCESSED
MAGNETIC DECL.	: 0	RM	: -	TYPE	: ANIMS
MATRIX DENSITY	: 2.68	RM TEMPERATURE	: -	LOG	: 6
FLUID DENSITY	: -	MATRIX DELTA T	: 53	PLOT	: NFTMY 0
NEUTRON MATRIX	: LIMESTONE	FLUID DELTA T	: 185	THRESH	: 3000
REMARKS	:				

12 INCH HOLE TO 1670 FT.

ALL SERVICES PROVIDED SUBJECT TO SRE STANDARD TERMS AND CONDITIONS.
TELEPHONE (9047-372-5950



COMPANY	ARCO ALASKA, INC.
WELL	1-E WOODCHUCK #2
FIELD	WILDCAT
COUNTY	NORTH SLOPE
STATE	ALASKA
LOCATION	1320' FSL & 1320' FEL
	SEC. 25, T12N, R17E, UM
	1320' FSL & 1320' FEL
	1320' FSL & 1320' FEL
	1320' FSL & 1320' FEL

EDAL PRODUCTION AS

WELL NAME	2/4-14
COUNTRY	NORWAY
DATE	20-SEP-87
OPERATOR	STATOIL
TOOL STRING (TOP TO BOTTOM)	NGT ZDL CNL DLL MSFL LDL AMS
BIT SIZE (IN)	8.5
DRILLER'S DEPTH	2900
SCHLUMBERGER DEPTH	2914
BOREHOLE FLUID	WBM
FLUID DENSITY	1.03
FLUID PH	9.5
FLUID VISCOSITY	35
FLUID LOSS	4.8
SOURCE OF SAMPLE	FLOWLINE
RM @ MEASURED TEMP	0.6 @ 25
RMF @ MEASURED TEMP	0.5 @ 25
RMC @ MEASURED TEMP	0.8 @ 25
RM @ BHT	0.3 @ 100
MAXIMUM RECORDED TEMP.	100
BLAST HOLE TEMP.	25
TIME SINCE CIRCULATION	24
TIME SINCE LAST RUN	24
TIME LOGGER ON BOTTOM	20-SEP-87 14:00
LOGGING UNIT NUMBER	1
LOGGER'S NAME	2

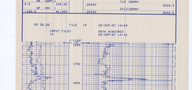
THE TOP LOG INTERVAL IS ACTUALLY DETERMINED BY THE TOOLSTRING IN THE HOLE

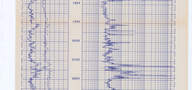
CONDITIONS OF PRESENTATION AND ACCEPTANCE OF LOGGING RESULTS: THE INTERPRETATIONS CONTAINED HEREIN ARE BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND ARE ADVISORY ONLY. SCHLUMBERGER DOES NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION, AND WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OFFICER, AGENT OR EMPLOYEE OF THE COMPANY.

REMARKS

USED 3DA SENSOR STANDOFF

Tools: TDC FOR USING FOLLOWINGTEST:-



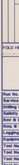


Schlumberger

CONTINUOUS DIRECTIONAL - CALIPER LOG

COMPANY	CRELISS INC
WELL	N. FT. MYERS UTILITY WV
FIELD	N. FT. MYERS
COUNTY	LEE
STATE	FLORIDA
API SERIAL NO.	
TWP	
RANGE	
PERMANENT DATUM	GL
LOG MEASURED FROM	KB
DRILLING MEASURED FROM	KB
Elev.: K.B.	
D.F.	
G.L.	
Date	22-SEP-97
Run Number	1
Depth-Driller	2350.0
Depth-Logger	2351.0
Bottom Log Interval	2350.0
Top Log Interval	2000.0
Casing-Driller	8.625@0 F
Casing-Logger	8.625@0 F
Bit Size	7.875 IN
Type Fluid in Hole	WATER
Dens.	
Visc.	
pH	
Fluid Loss	
Source of Sample	
Rm @ Meas. Temp.	
Rmf @ Meas. Temp.	
Rmc @ Meas. Temp.	
Rm @ BHT	
Time Since Circulation	
Time Since Stop	
Max. Rec. Temp.	
Equip. Location	
Recorded By	
Witnessed By	

LEE
N. FT. MYERS
N. FT. MYERS UTILITY WV
CRELISS INC



FOLD HERE

The well name, location and borehole reference data were furnished by the customer.

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretations made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

Run No.	1
Service Order No.	80687
Drilling Fluid Level	NO F
Gallons	
Rmf @ MRT	0 0
Rmc @ MRT	0 0
Logging Speed	4000.0 F/HR
Equipment Data	
Tool Number 1	MCN 3935
Tool Number 2	NEM 6700
Tool Number 3	DAM 759
Tool Number 4	
Tool Number 5	
Tool Number 6	
Tool Number 7	
Tool Number 8	
Tool Number 9	
Tool Number 10	
Tool Number 11	
Tool Number 12	

REMARKS:

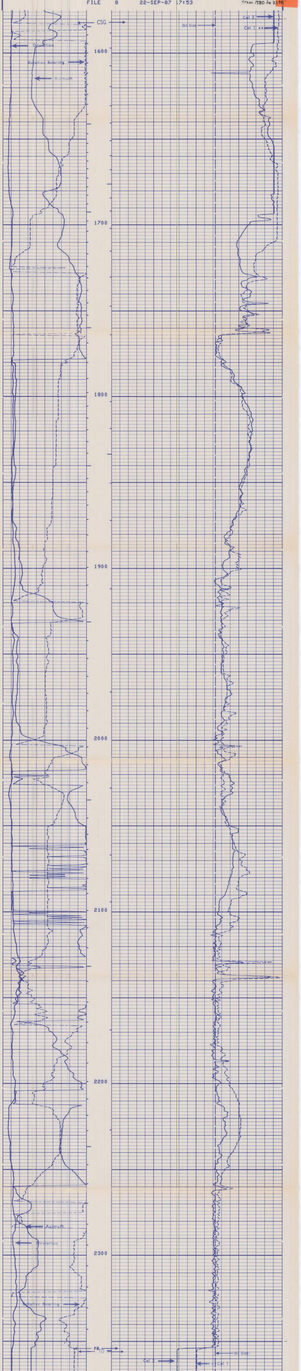
BOTTOM OF THE HOLE IS 1.2 FEET NORTH AND
.5 FEET EAST OF THE CASING SHOE.
THANK YOU FOR USING SCHLUMBERGER!!!

CEMENT VOLUME = 297.871 F3
HOLE VOLUME = 904.971 F3
FROM 2256.0 TO 1591.8 FEET

DEVI(DEG)		C2 (IN)	
-1.000	9.0000	0.0	20.000
RB (DEG)		C1 (IN)	
-40.00	360.00	0.0	20.000
AZIM(DEG)		BS (IN)	
-40.00	360.00	0.0	20.000

FILE 9 22-SEP-87 17:53

Decline Curve
from 1580 to 1100



FILE 9 22-SEP-87 17:34

DEVI(DEG)		C2 (IN)	
-1.000	9.0000	0.0	20.000
RB (DEG)		C1 (IN)	
-40.00	360.00	0.0	20.000
AZIM(DEG)		BS (IN)	
-40.00	360.00	0.0	20.000

SENSOR MEASURE POINT TO TOOL ZERO

RB	0.0	FEET	AZIM	0.0	FEET
FCP1	0.0	FEET	DEVI	0.0	FEET
REFE	0.0	FEET	FEP2	0.0	FEET
CHEK	0.0	FEET	RC	0.0	FEET
CAL	0.0	FEET	RC1	0.0	FEET
RC2	0.0	FEET	RC1	0.0	FEET
TEMP	0.0	FEET	PP	0.0	FEET
FCD	0.0	FEET	TENS	0.0	FEET
FCA	0.0	FEET	FC1	0.0	FEET
FCB	0.0	FEET	FC3	0.0	FEET
SHDT	0.0	FEET			

PARAMETERS

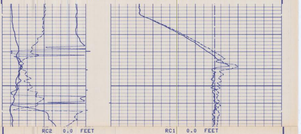
NAME	VALUE	UNIT	NAME	VALUE	UNIT
MSEC 0		DEG	PVUM	1.00000	
STYP HDSD			MOT	FS	DEG
BS	12.0500	IN	BHC	OPEN	

CEMENT VOLUME = 22.6436 F3
HOLE VOLUME = 219.452 F3
FROM 2350.0 TO 2101.0 FEET

DEVI(DEG)		C2 (IN)	
-1.000	9.0000	0.0	20.000
RB (DEG)		C1 (IN)	
-40.00	360.00	0.0	20.000
AZIM(DEG)		BS (IN)	
-40.00	360.00	0.0	20.000

REPEAT SECTION

FILE 5 22-SEP-87 17:16



RCP	0.0	FEET	RC1	0.0	FEET
REFE	0.0	FEET	RC1	0.0	FEET
FCD	0.0	FEET	TENS	0.0	FEET
FCE	0.0	FEET	FC1	0.0	FEET
FCA	0.0	FEET	FC3	0.0	FEET
SHDT	0.0	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
MSEC 0		DEG	PVUM	1.00000	
STYP HDSD			MOT	FS	DEG
BS	12.0500	IN	BHC	OPEN	

BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 87/09/22
PROGRAM FILE: MST (VERSION 26.2 09/00/00)

HDTD CALIPER CALIBRATION SUMMARY

	MEASURED SMALL	MEASURED LARGE	CALIBRATED SMALL	CALIBRATED LARGE	UNITS
C1	9.0	13.0	8.0	12.0	IN
C2	9.1	13.6	8.0	12.0	IN

FILE 2 22-SEP-87 16:41

COMPANY	ARCO ALASKA, INC.
WELL	1R-14
FIELD	KUPARUK RIVER UNIT
COUNTY	NORTH SLOPE BOROUGH
STATE	ALASKA
API NUMBER	50-029-21227
LOCATION	1 FNL & 1 FEL
SECTION	36
TOWNSHIP	11N
RANGE	10E
PERMANENT DATUM	MSL
ELEVATION OF PERMANENT DATUM	0
LOG MEASURED FROM	RKB
DRILLING MEASURED FROM	RKB
ELEVATION OF KELLY BUSHING	146
ELEVATION OF DERRICK FLOOR	N/A
ELEVATION OF GROUND LEVEL	N/A
DATE	23-SEP-87
RUN NUMBER	ONE
TIME LOGGER ON BOTTOM	0600
TIME LOGGER OFF BOTTOM	1000
TOTAL DEPTH DRILLER	7100
TOTAL DEPTH LOGGER	7100
BOTTOM LOGGED INTERVAL	6900
TOP LOGGED INTERVAL	1000
TYPE OF FLUID IN HOLE	DIESEL
SALINITY, PPM CL	0
DENSITY	7.1
VISCOSITY	35
PH	9.5
FLUID LOSS	4.8
SOURCE OF SAMPLE	PIT
RM @ MEASURED TEMPERATURE	1.0 @ 70
RMF @ MEASURED TEMPERATURE	1.0 @ 70
RMC @ MEASURED TEMPERATURE	1.0 @ 70
RM @ BHT	0.5 @ 150
MATRIX	SANDSTONE
TOOL NUMBER	DIL-SP-GR
TOOL STANDOFF	0
MAXIMUM RECORDED TEMPERATURE	150
NEUTRON TOOL	
TYPE	
MATRIX	
HOLE CORRECTION	
DENSITY TOOL	
TYPE	
MATRIX	
HOLE CORRECTION	
LITHOLOGY	
MATRIX	
DENSITY	
PORE FLUID	
HOLE CORRECTION	
REMARKS:	
THANK YOU FOR USING SCHLUMBERGER!!	

THE DIFFERENCE BETWEEN THE DIFFERENTIAL SPONTANEOUS POTENTIAL AND THE SPONTANEOUS POTENTIAL IS DUE TO THE DIFFERENCE IN THE ELECTROCHEMICAL ACTIVITY OF THE MUD AND THE FORMATION WATER. THE DIFFERENTIAL SPONTANEOUS POTENTIAL IS THE SP WITH THE MUD ACTIVITY REMOVED. THE DIFFERENTIAL SPONTANEOUS POTENTIAL IS PLOTTED IN THE SP TRACK WHEN THE DIFFERENTIAL SPONTANEOUS POTENTIAL IS PRESENT.

PARAMETERS			
NAME	VALUE	UNIT	
MAX. ALLOWABLE TENSION	1,000	LBS	
MAX. ALLOWABLE TENSION	2,000	LBS	
CENTER TO TENSION	7.000	FT/MIN	
CENTER TO SP	0.5	FT	
CENTER TO GR	0.5	FT	
SPEED	30	FT/MIN	
SAMPLE RATE	2	SAMPLES/FT	
SAMPLE RATE	1	SAMPLES/FT	
SAMPLE RATE	1	SAMPLES/FT	
SAMPLE RATE	1

COMPANY	ELF GABON
WELL	ELF GABON 1
FIELD	MOUNDAH
COUNTY	MOUNDAH
STATE	GABON
LOCATION	
OTHER SERVICES	
PERMANENT DATUM	GL
LOG MEASURED FROM	KB 10 FT ABOVE PERM. DATUM
DRILLING MEASURED FROM	KB
ELEV. PERM. DATUM	0 FT
ELEV. KB	10 FT
ELEV. DF	
ELEV. GL	
DATE	22-SEP-87
RUN NO.	ONE
DEPTH-DRILLER	2000
DEPTH-LOGGER	2000
BTM. LOG INTERVAL	2000
TOP LOG INTERVAL	1000
CASING-DRILLER	9 5/8 @ 1000
CASING-LOGGER	
BIT SIZE	8 1/2
TYPE FLUID IN HOLE	WATER
DENSITY / VISCOSITY	9.4 / 35
PH / FLUID LOSS	9.5 / NA
SOURCE OF SAMPLE	PIT
RM @ MEAS. TEMP.	0.3 @ 75
RMF @ MEAS. TEMP.	0.3 @ 75
RMC @ MEAS. TEMP.	0.3 @ 75
SOURCE RMF / RMC	MEASURED / MEASURED
RM @ BHT	0.2 @ 200
TIME CIRC. LAST	12:00
TIME LOGGER ON BOTTOM	20:00
MAX. REC. TEMP. (°C)	200
EQUIP. NO.	1
LOCATION	
RECORDED BY	
WITNESSED BY	

SCHLUMBERGER

The well name, location and township references may vary between the company and SCHLUMBERGER.

DISCLAIMER: THE INTERPRETATIONS THAT ARE SUPPLIED BY SCHLUMBERGER ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT, GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION, AND WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE SUBJECT TO OUR GENERAL TERMS AND CONDITIONS SET OUT IN OUR CURRENT PRICE SCHEDULE.

Run No.	ONE		
Service Order No.	70000		
Depth Reference	PERM		
Logged Interval			
Depth Unit	M		M
Run Id. MT			
Log Type Code	DIRECTIONAL		
Logging Unit			
Tool Name 1	ATS		
Tool Name 2	PCM		
Tool Name 3	MTC		
Tool Name 4	PCM		
Tool Name 5	PCM		
Tool Name 6			
Tool Name 7			
Tool Name 8			
Tool Name 9			
Tool Name 10			
Tool Name 11			
Tool Name 12			

REMARKS:

THANK YOU FOR USING SCHLUMBERGER!!!!

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
BS	8.5000		SGD	0.0	
MUD	9.4000	LB/G	RMFS	0.0000011	
DFV	35.0000		FTOP	1000.0000	F/MM
FPH	10.0000	F/MM	FBOT	2000.0000	
TEMA	.000000		WFOT	.000000	
TEMB	.000000	D/CM	WFOB	.000000	
DFL	9.5	CM	DT	10.0000	DM
PHI	0.0				

DATA NOT RECORDED

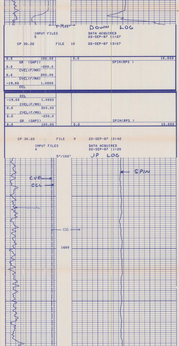
SENSOR MEASURE POINT TO TOOL ZERO

ETIM	0.0 FEET	MRK	0.0 FEET
CSGM	0.0 FEET	CSGL	0.0 FEET
DFTM	0.0 FEET	TDDL	20.0 FEET
DFBM	0.0 FEET	CDL	20.0 FEET
DFL	0.0 FEET	ECDL	20.0 FEET
DF	10.0 FEET		

0.0	HR / CSMPS 200.00	0.0	SPSCMPS 1 10.000
0.0	CVELC/CMAX 200.0		
0.0	CVELC/CMIN 200.0		
1.0000			

INPUT FILES
0
DATA MODIFIED
20-SEP-87 10:01

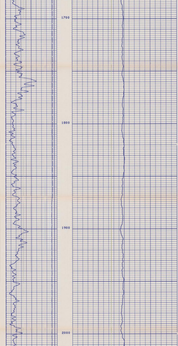
CP 36.02 FILE 10 20-SEP-87 10:04



0.0	HR / CSMPS 200.00	0.0	SPSCMPS 1 10.000
0.0	CVELC/CMAX 200.0		
0.0	CVELC/CMIN 200.0		
1.0000			

INPUT FILES
0
DATA MODIFIED
20-SEP-87 10:04

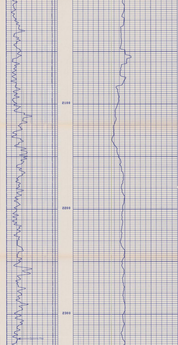
CP 36.02 FILE 9 20-SEP-87 10:40



0.0	HR / CSMPS 200.00	0.0	SPSCMPS 1 10.000
0.0	CVELC/CMAX 200.0		
0.0	CVELC/CMIN 200.0		
1.0000			

INPUT FILES
0
DATA MODIFIED
20-SEP-87 11:16

CP 36.02 FILE 9 20-SEP-87 10:40



0.0	HR / CSMPS 200.00	0.0	SPSCMPS 1 10.000
0.0	CVELC/CMAX 200.0		
0.0	CVELC/CMIN 200.0		
1.0000			

INPUT FILES
0

SENSOR MEASURE POINT TO TOOL ZERO

ETIM	0.0 FEET	DB	0.0 FEET
CSMT	0.0 FEET	CSMR	0.0 FEET
CSMP	0.0 FEET	CSMA	0.0 FEET
CSMB	0.0 FEET	CSML	0.0 FEET
DFTM	0.0 FEET	CSMD	0.0 FEET
DFBM	0.0 FEET	TMOF	0.0 FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
BS	12.2000	IN	BHS	0000	
MUD	9.4000		DFV	35.0000	IN
DFL	10.0000		FBOT	0.0	D/CM
FPH	10.0000	F/MM	WFOT	.000000	
FTOP	1000		FTOB	10.0000	F/MM
TEMA	.000000		WFOB	.000000	
TEMB	.000000	D/CM	DRMA	0.00000	LB/G
DT	10.0000				

DATA NOT RECORDED