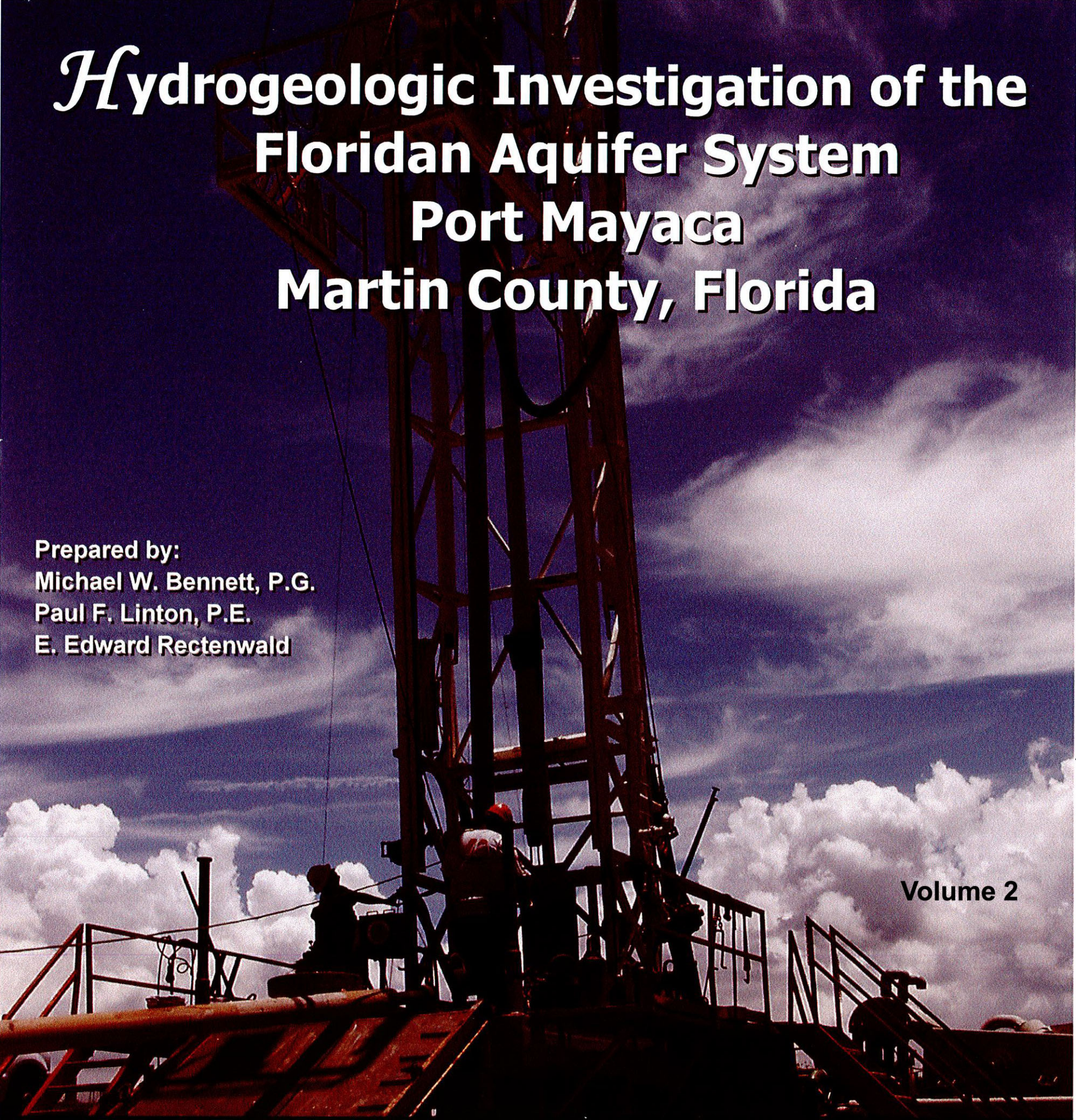
Hydrogeologic Investigation of the Floridan Aquifer System Port Mayaca Martin County, Florida



Prepared by:
Michael W. Bennett, P.G.
Paul F. Linton, P.E.
E. Edward Rectenwald

Volume 2

Appendix C

MV Geophysical

Company	Diversified Drilling Corp.
Well	CRASR-EXPM-1
Field	Port Mayaca
County	Martin
State/Prov	Florida
Country/Province	USA
Location	Sec. 14 T40S R37E FOR:DIV OF CONST SY/MD1:CUBFIM, Inc.
Elevation	
Date	2003-05-30
Time	17:16:00
Depth Reference	GROUND
Depth Datum	GROUND

X-Y CALIPER
GAMMA RAY
LOG

Data Type: ASCII
Data Rev. No.: 1
Data Rev. Date: 2003-05-30
Data Rev. Comment: Initial Data
Data Rev. By: Rick Mayberry

MV Geophysical

Company	Diversified Drilling Corp.
Well	CRASR-EXPM-1
Pad	Port Mayaca
County	Martin
State	Florida

DUAL INDUCTION
LL3 / SP
LOG

Company	Diversified Drilling Corporation
Well	CRASR-EXPM-1
Field	Port Mayaca
County	Martin
State	Florida

Permanent Datum	GL	Elevation	0 ft
Log Measured From	GL	Above Perm. Datum	0 ft
Drilling Measured From	GL		

Date	05-Mar-2003		
Run Number	ONE		
Depth Driller	210.0 ft		
Depth Logger	210.0 ft		
Bottom Log Interval	210.0 ft	Top Log Interval	0.0 ft
Casing Driller	8 5/8 @ 0.0 ft	Casing Logger	8 5/8 @ 0.0 ft
Bit Size	7 7/8 in	Type Fluid in the Hole	WATER
Density	N/A lb/gal	Viscosity	N/A s
PH	N/A	Fluid Loss	N/A cc
Source of Sample	FLOWLINE	Rm @ Measured Temp	0.000 ohm-m @ 0.0 degF
Rmf @ Measured Temp	0.000 ohm-m @ 0.0 degF	Rmc @ Measured Temp	0.000 ohm-m @ 0.0 degF
Source Rmf / Rmc	MEASURED / CALCULATED	Rm @ BHT	0.000 ohm-m @ 0.0 degF
Time Since Circulation	0 hrs	Time Since Stop	0 hrs
Max Recorded Temp	0.0 degF	Equipment Number	8FDGL
Location	8FDGL, CLOM ML 8FDGL	Recorded By	D. Rhodes
Witnessed By	Mr. Mark Mathis		

Rm=7.354 ohm-m @ 83.3 degF
Rmf=5.534 ohm-m @ 83.3 degF
Rmc=9.211 ohm-m @ 84.9 degF

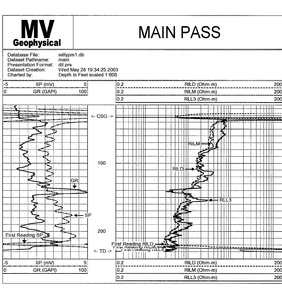
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Comments

MAIN PASS

MV Geophysical

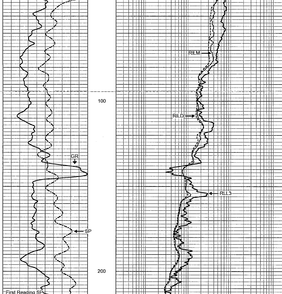
Database File: wellsyem1.db
Dataset Pathname: main
Presentation Format: dil pra
Dataset Creation: Wed May 28 10:34:25 2003
Charted by: Depth in Feet scaled 1:1000



MAIN PASS

MV Geophysical

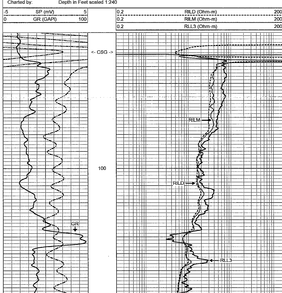
Database File: wellsyem1.db
Dataset Pathname: main
Presentation Format: dil pra
Dataset Creation: Wed May 28 10:34:25 2003
Charted by: Depth in Feet scaled 1:600



MAIN PASS

MV Geophysical

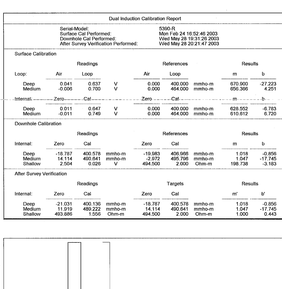
Database File: wellsyem1.db
Dataset Pathname: main
Presentation Format: dil pra
Dataset Creation: Wed May 28 10:34:25 2003
Charted by: Depth in Feet scaled 1:240



REPEAT SECTION

MV Geophysical

Database File: wellsyem1.db
Dataset Pathname: main
Presentation Format: dil pra
Dataset Creation: Wed May 28 10:08:15 2003
Charted by: Depth in Feet scaled 1:240



Dual Induction Calibration Report

Serial-Model: 5300-R
Surface Cal Performed: Mon Feb 24 10:52:46 2003
Downhole Cal Performed: Wed May 28 12:21:25 2003
After Survey Verification Performed: Wed May 28 20:21:47 2003

Surface Calibration

Loop:	Air	Loop		Air	Loop		m	b
	Readings			References			Results	
Deep	0.041	0.637	V	6.000	400.000	mmho-m	670.900	-27.223
Medium	0.006	0.700	V	6.000	404.000	mmho-m	656.366	4.251

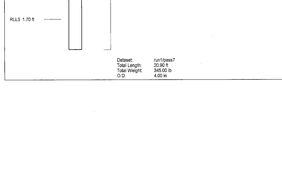
Internal:	Zero	Cal		Zero	Cal		m	b
	Readings			References			Results	
Deep	0.011	0.647	V	6.000	400.000	mmho-m	628.552	-6.783
Medium	-0.011	0.748	V	6.000	404.000	mmho-m	610.612	6.720

Downhole Calibration

Internal:	Zero	Cal		Zero	Cal		m	b
	Readings			References			Results	
Deep	-18.787	400.578	mmho-m	-18.983	406.998	mmho-m	1.018	-0.856
Medium	14.114	460.841	mmho-m	-2.972	495.798	mmho-m	1.047	-17.745
Shallow	2.204	0.020	V	494.500	2.000	Ohm-m	199.736	-3.163

After Survey Verification

Internal:	Zero	Cal		Zero	Cal		m'	b'
	Readings			Targets			Results	
Deep	-21.031	400.136	mmho-m	-18.787	400.578	mmho-m	1.018	-0.856
Medium	11.919	489.222	mmho-m	14.114	460.841	mmho-m	1.047	-17.745
Shallow	493.886	1.556	Ohm-m	494.500	2.000	Ohm-m	1.000	0.443



Company	Diversified Drilling Corp.
Well	CRA58-EXPM-1
Field	Port Mayaca
County	Martin
State/Prov	Florida

MV Geophysical

Diversified Drilling Corporation
CRA58-EXPM-1
Port Mayaca
Martin
Florida

BOREHOLE COMPENSATED SONIC w/ VARIABLE DENSITY LOG

Permanent Datum	G.L.
Log Measured From	G.L. 0.0 Ft. Above Permanent Datum
Drilling Measured From	G.L.

Date	03-Mar-2003		
Run Number	ONE		
Depth Driller	1200		
Depth Logger	1200		
Bottom Logged Interval	1200		
Top Log Interval	SURFACE		
Casing Driller Size at Depth	10 3/4 @ 0		
Casing Logger Size at Depth	10 3/4 @ 0		
Bit Size	9 7/8		
Type Fluid in Hole	WATER		
Density / Viscosity	8.4		
Max Rec. Temp.	75		
Estimated Cement Top	SURFACE		
Time Since Circulation	12		
Time Logger at Bottom	14:00		
Equipment / Location	5001		
Recorded By	D.CUP		
Witnessed By	D.CUP		

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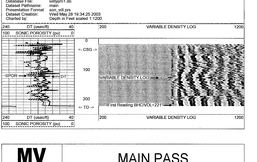
Comments

BHC Sonic was run centralized.

Sonic Porosity was run on a Limestone Matrix (=47.5)

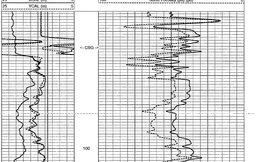
MAIN PASS

Databand File : sellspan1.dlb
Databand Pathname: main
Presentation Format: vbsc96.pre
Databand Created: Wed May 28 19:34:25 2003
Charted by: Depth in Feet scaled 1:1200



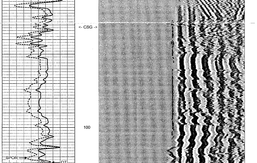
MAIN PASS

Databand File : sellspan1.dlb
Databand Pathname: main
Presentation Format: vbsc96.pre
Databand Created: Wed May 28 19:34:25 2003
Charted by: Depth in Feet scaled 1:600



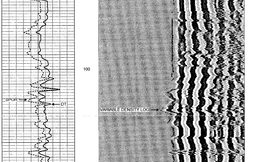
MAIN PASS

Databand File : sellspan1.dlb
Databand Pathname: main
Presentation Format: vbsc96.pre
Databand Created: Wed May 28 19:34:25 2003
Charted by: Depth in Feet scaled 1:240



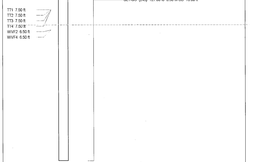
MAIN PASS

Databand File : sellspan1.dlb
Databand Pathname: main
Presentation Format: vbsc96.pre
Databand Created: Wed May 28 19:34:25 2003
Charted by: Depth in Feet scaled 1:240



REPEAT SECTION

Databand File : sellspan1.dlb
Databand Pathname: repeat
Presentation Format: vbsc96.pre
Databand Created: Wed May 28 19:08:15 2003
Charted by: Depth in Feet scaled 1:240



Company	Diversified Drilling Corporation		
Well	EXPM-1		
Field	Port Mayaca		
County	Martin		
State/Prv	Florida		
Location:	FDEP Permit # 086640-001UC Sec. 14 T40S R37E Circle Mile, Florida	Elevation:	
Other Measurements:	G.L. G.L. G.L.	Elevation:	
Date Logged:	10-Jun-03	Logged By:	VICAE
Date Run:	10-Jun-03	Run No:	1
Depth Reference:	G.L.	Depth Datum:	G.L.
Depth Datum Elev:		Depth Datum Above Ground:	
Casing Shoe Depth:	1,000	Casing Shoe Elevation:	
Casing Size:	20 in	Casing Weight:	94 lb/ft
Casing Type:	Steel	Casing Condition:	Good
Casing Fluid:	Air	Casing Fluid Level:	Surface
Bottom Hole Temp:	80 F	Max Temp Recorded:	80 F
Recorded By:	Bill Hall	Witnessed By:	Jim Hall
Bit Size:	12 1/4 in	Bit Type:	Tri-Cone
Bit Condition:	Good	Bit Number:	1
Drilling Fluid:	Air	Drilling Fluid Level:	Surface
Max Rec Temp:	80 F	Equipment:	1000 Feet
Logging Unit:	1	Logging Company:	MV Geophysical
Logging Engineer:	Bill Hall	Logging Date:	10-Jun-03
Logging Time:	13:00	Logging Speed:	30 ft/min
Time Logging Started:	13:00	Time Logging Finished:	13:30
Time Logging Stopped:	13:30	Time Logging Resumed:	
Total Logging Time:	0:30	Total Logging Time Resumed:	
Total Logging Time:	0:30	Total Logging Time Resumed:	
Depth Logged:	1,000	Depth Logged Resumed:	
Depth Logged:	1,000	Depth Logged Resumed:	
Depth Logged:	1,000	Depth Logged

MV Geophysical

CEMENT TOP TEMPERATURE GAMMA RAY LOG

Company	Diversified Drilling Corporation
Well	EXPM-1
Field	Port Mayaca
County	Martin State/Prv Florida
Location	Sec. 14 T40S R37E FDEP Permit #: 096641-001UC SFWMD / CH2M Hill, Inc.
Permanent Datum	G.L. Elevation
Log Measured From	G.L.
Drilling Measured From	G.L.
Other Services	NONE
Elevation	K.B. D.F. G.L.

Company	Diversified Drilling Corp.
Well	EXPM-1
Field	Port Mayaca
County	Martin
State/Prv	Florida

Date	11-JUNE-2003
Run Number	THREE
Depth Driller	158'
Depth Logger	150' Cmt. Plug
Bottom Logged Interval	150'
Top Log Interval	SURFACE
Open Hole Size	34"
Type Fluid	MUD
Density / Viscosity	Unknown
Max. Recorded Temp.	109 degF
Estimated Cement Top	SURFACE
Time Well Ready	06:00 06/11/03
Time Logger on Bottom	08:30 6/11/03
Equipment Number	MVGS-1
Location	Ft. Myers
Recorded By	S.Miller
Witnessed By	Willy (DDC)

Borehole Record

Run Number	Bit	From	To
ONE	12.25"	31'	230'
TWO	40"	31'	158'

Tubing Record

Size	Weight	From	To

Casing Record

	Size	Wgt/Ft	Top	Bottom
Surface String	42"	0.375" WT	SURFACE	31'
Prot. String	34"	0.375" WT	SURFACE	155'
Production String				
Liner	2-25-2x			

Invoice No. 2003153 P.O. #: 22346 Job No.: 2082 * FINAL PRINT *

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Comments

ESTIMATED CEMENT TOP

Stage	Logger
#1	29'

TEMPERATURE CALIBRATION REPORT
(performed: 18-MAY-2003 11:45)

DEG-F	CPS
33.9	141.25
151.8	2743.11

MV Geophysical

Stage 1 Cement Top = 29'

Database File:	willypm1.db
Dataset Pathname:	run3/pass1
Presentation Format:	ctllakeo.prs
Dataset Creation:	Wed Jun 11 08:21:36 2003 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:240

Gamma Ray Calibration Report

Serial Number:	MV01B	
Tool Model:	RTSB	
Performed:	Wed Jun 11 08:20:05 2003	
Calibrator Value:	120	GAPI
Background Reading:	14.7817	cps
Calibrator Reading:	120.523	cps
Sensitivity:	1.13485	GAPI/cps

Dataset:	run3/pass1
Total Length:	5.12 ft
Total Weight:	20.00 lb
O.D.	1.90 in

Company:	Deepwater Drilling Corp
Well:	EXPO
Field:	Port Mapace
County:	Nueces
State/Prov:	Florida
Country:	USA
Date:	Nov 14 2020
Time:	08:21:14
Depth:	0 - 1,000
Depth Reference:	Rotary Table
Elevation:	0
Comments:	Gamma Ray Calibration Report

MV Geophysical

Gamma Ray Calibration Report
Deepwater Drilling Corporation
EXPO
Port Mapace
Nueces, Florida
USA
Nov 14 2020

Calibration Type: Gamma Ray
Calibration Date: Nov 14 2020 08:21:14
Calibration Number: 1
Calibration Method: Calibration Pit
Calibration Pit: Port Mapace
Calibrated By: Chuck H Field Jr
Calibrated Tool: 2 Inch Gamma Ray Tool
Tool Serial Number: 1
Tool Type: Gamma Ray
Tool Length: 10.00 ft
Tool Diameter: 2.00 in
Tool Weight: 50.00 lb
Tool Position: Bottom
Tool Offset: 0.00 ft
Tool Offset Direction: Below
Tool Offset Reference: Rotary Table
Tool Offset Measured By: Chuck H Field Jr
Tool Offset Measured Date: Nov 14 2020 08:21:14
Tool Offset Measured Time: 08:21:14
Tool Offset Measured Method: Calibration Pit
Tool Offset Measured Comments: Calibration Pit
Tool Offset Measured Comments: Calibration Pit
Tool Offset Measured Comments

MV Geophysical
MAIN PASS
Contractor Name
Contractor Unit
Operating Company
Operating Unit
Chesapeake Energy
Fort Mojave
Florida
Chesapeake Drilling Corp.
Rig 1
Chesapeake Energy
Fort Mojave
Florida
Contractor Rig Type
Contractor Rig Number
Operating Company
Operating Unit
Operating Unit Type
Operating Unit Number
Operating Unit Number
Operating Unit Number

Company	Chesapeake Drilling Corp.		
Well	Hill Farm #1		
Field	Hill Farm		
County	Marion		
State	Illinois		
Date	11-Jan-2011		
Run No.	ONE		
Depth Driller	2,700		
Depth Logger	2,698		
Bottom Log Interval	2,694		
Top Log Interval	0		
Casing Driller	8 5/8 @ 0		
Casing Logger	0		
Bit Size	7 7/8		
Type Fluid in Hole	Fresh Water		
Density / Viscosity	8.4	0	
pH / Fluid Loss	10	0	
Source of Sample	Flowline		
Rm @ Meas. Temp.	0.08 @ 70		
Rmf @ Meas. Temp.	0.06 @ 70		
Rmc @ Meas. Temp.	0.12 @ 70		
Source Rmf / Rmc	Calc	Calc	
Rm @ BHT	0.05 @ 100		
Time Since Circulation	12		
Time Since Cooling	12		
Max. Rec. Temp.	100		
Equipment / Location	5-Mile / Marion		
Recorded By	Jim Hall		
Witnessed By	Mr. Bob Chesnut		

MV Geophysical

BOREHOLE GEOMETRY
CALIPER / GAMMA RAY

Chesapeake Drilling Corp.
Hill Farm #1
Hill Farm
Marion County, Illinois

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DISCLAIMER

SYC Score was not calculated.

Score Possibly Valid but not at Correlation Status (+07.0).

MV Geophysical

MAIN PASS

COMPANY CHESAPEAKE DRILLING CORP.
WELL HILL FARM #1
FIELD HILL FARM
COUNTY MARION
STATE ILLINOIS
LOCATION 330' FSL & 1320' FWL
SEC. 10 TWP. 1 N RGE. 1 W
DATE 11-Jan-2011
RUN ONE
DEPTH DRILLER 2,700
DEPTH LOGGER 2,698
BOTTOM LOG INTERVAL 2,694
TOP LOG INTERVAL 0
CASING DRILLER 8 5/8 @ 0
CASING LOGGER 0
BIT SIZE 7 7/8
TYPE FLUID IN HOLE Fresh Water
DENSITY / VISCOSITY 8.4 0
pH / FLUID LOSS 10 0
SOURCE OF SAMPLE Flowline
Rm @ MEAS. TEMP. 0.08 @ 70
Rmf @ MEAS. TEMP. 0.06 @ 70
Rmc @ MEAS. TEMP. 0.12 @ 70
SOURCE Rmf / Rmc Calc Calc
Rm @ BHT 0.05 @ 100
TIME SINCE CIRCULATION 12
TIME SINCE COOLING 12
MAX. REC. TEMP. 100
EQUIPMENT / LOCATION 5-Mile / Marion
RECORDED BY Jim Hall
WITNESSED BY Mr. Bob Chesnut

COMMON CURVES

CALIPER
GAMMA RAY

CALIPER
GAMMA RAY

Company:	Diversified Drilling Corp.
Well:	EXPMA-5
Field:	Port Maurice
County:	Martin
State/Prov:	Florida
Date:	Jun 2, 2023
Time:	10:12:25
Depth Reference:	Kelly Bushing
Elevation:	24.00 ft
Datum:	NAD83
Projection:	Lambert Conformal
Zone:	Florida East
Units:	Feet
Depth Type:	Measured Depth
Log Type:	Caliper
Run Number:	1
Pass Number:	1
Depth Range:	0.00 - 1,000.00 ft
Sample Rate:	0.5 ft
Tool Type:	Caliper
Tool Serial Number:	1
Tool Model:	XY-CALIPER
Calibration Date:	Jun 2, 2023
Calibration Time:	10:12:25
Calibration Type:	Air
Calibration Value:	24.00 in
Operator:	Matt Kelly
Witness:	
Comments:	Maximum Caliper Arm Dimension: 56" FUTURE CASING SIZE: 24"

MV Geophysical

Diversified Drilling Corporation

EXPMA-5

Port Maurice, Florida

Run 1 XY-CALIPER GAMMA RAY LOG 1

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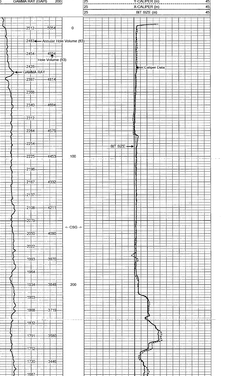
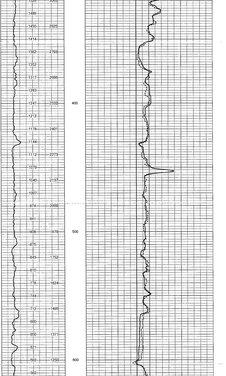
MAIN PASS

Database File: xcalipers1.db
Dataset Name: Port Maurice
Presentation Format: xy(Depth,Cal)
Dataset Created: Fri Jun 2 10:24:25 2023
Chartlog by: Depth in Feet scaled 1:240



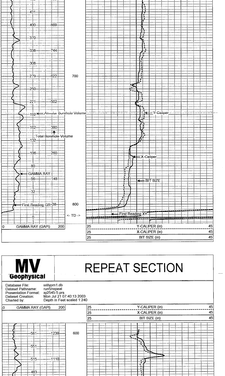
REPEAT SECTION

Database File: xcalipers1.db
Dataset Name: Port Maurice
Presentation Format: xy(Depth,Cal)
Dataset Created: Fri Jun 2 10:27:40 2023
Chartlog by: Depth in Feet scaled 1:240



REPEAT SECTION 2

Database File: xcalipers1.db
Dataset Name: Port Maurice
Presentation Format: xy(Depth,Cal)
Dataset Created: Fri Jun 2 10:28:03 2023
Chartlog by: Depth in Feet scaled 1:240

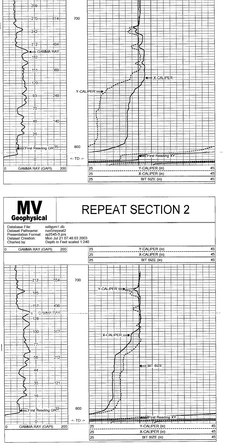


XY-Caliper Calibration Report

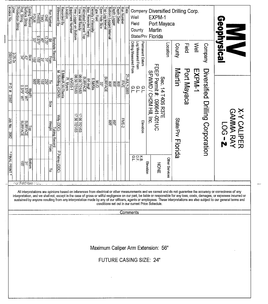
Serial Number:	001		
Tool Model:	XY-C		
Performed:	Thu Jun 2 10:10:54 2023		
Small Ring:	10	in	
Large Ring:	24	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	565.475	568.250	cpm
Reading with Large Ring:	1023.85	1026.71	cpm
Cpm:	0.0616157	0.0604491	
Offset:	-34.2125	-37.3853	

Gamma Ray Calibration Report

Serial Number:	001	
Tool Model:	GR-1	
Performed:	Thu Jun 10 12:25:16 2021	
Calibrator Value:	120	GAPI
Background Reading:	5.2173	cps
Calibration Reading:	127.5806	cps
Sensitivity:	1.05509	GAPI/cps



Dataset: xcalibrate1
Calc Length: 3.25 ft
Calc Offset: -0.75 ft
Cnt: 1,014 ft


MV Geophysical
Company Diversified Drilling Corp.
Well EXPM-1
Field Port Mayaca
County Martin
State/Prov Florida
Company Diversified Drilling Corporation
Field Port Mayaca
County Martin
State/Prov Florida
Date 03/05/03
Time 13:00
Depth Reference Ground Level
Elevation 0.0 ft
Permanent Datum Ground Level
Elevation 0.0 ft
Log Measured From Ground Level
Drilling Measured From Ground Level
Run Number(s) 1
Date 03/05/03
Time 13:00
Depth Driller 0.0 ft
Depth Logger 0.0 ft
Bottom Logged Interval 0.0 ft
Top Log Interval 0.0 ft
Casing Driller 0.0 @ 0.0 ft
Casing Logger NONE
Bit Size 0.0 in
Type Fluid in Hole NONE
Density 0.0 lb/gal
Viscosity 0.0 s
Fluid Loss 0.0 cc
Source of Sample
Rm @ Meas Temp 0.000 @ 0.0 F
Rmf @ Meas Temp 0.000 @ 0.0 F
Rmc @ Meas Temp 0.000 @ 0.0 F
Source Rmf/Rmc
Rm @ BHT 0.000 @ 0.0 F
Max Rec Temp 0.0 F
Equipment Number 1001
Location Port Mayaca
Recorded By
Witnessed By
MV Geophysical
XY CALIPER
GAMMA RAY
LOG-2
FDP Probe # 1089/1070C
SP/SN: 0 / 0 CR1144, No. 0
Calibration Date 03/05/03
Calibration Time 13:00
Calibration Type Field Check
Calibration Source Field Check
Calibration Results Pass
Calibration Comments
Tool Type Gamma Ray
Tool Serial Number 0
Tool Model
Tool Length 0.0 ft
Tool Diameter 0.0 in
Tool Weight 0.0 lb
Tool Position
Tool Orientation
Tool Centralized
Tool Eccentralized
Tool Decentralized
Tool Pad Position
Tool Pad Orientation
Tool Pad Centralized
Tool Pad Eccentralized
Tool Pad

Company	Diamofied Drilling Corp
Well	EXPM-1
Field	Port Mayaca
County	Martin
State	Florida
Country	USA
Service Order	0312-0-0-0

MV Geophysical

Company	Diversified Drilling Corp.
Well	EXPM-1
Field	Port Mayaca
County	Martin
State/Pro	Florida

Company	Diversified Drilling Corporation
Well	EXPM-1
Field	Port Mayaca
County	Martin
State/Pro	Florida

CEMENT BOND w VARIABLE DENSITY LOG

Elevations:	Permanent Datum:	Log Measured From:	Drilling Measured From:
K.B. 20.00	GL	20.00 Above Perm. Datum	KB
D.F.			
G.L.			

Date	Run No.	Depth-Driller	Depth-Logger	Bottom Log Interval	Top Log Interval	Casing-Driller	Casing-Logger	Bit Size
03-Jun-2003	ONE	1.5	1.5	1.5	1.5	20.00	20.00	6.00

Type Fluid in Hole	Density	Viscosity	pH	Fluid Loss	Source of Sample	Rm @ Meas. Temp.	Rmf @ Meas. Temp.	Rmc @ Meas. Temp.	Source Rmf / Rmc
FRESH WATER	1.0	0.0	0.0	0.0	CIRCULATED				

Time Since Circulation	Time Logger on Bottom	Max. Rec. Temp.	Equipment Location
24 HOURS	12:00	0.0	

Recorded By	Witnessed By
D. Bond	

All interpretations we express 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 or damages suffered or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions as set out in our current Price Schedule.

Comments

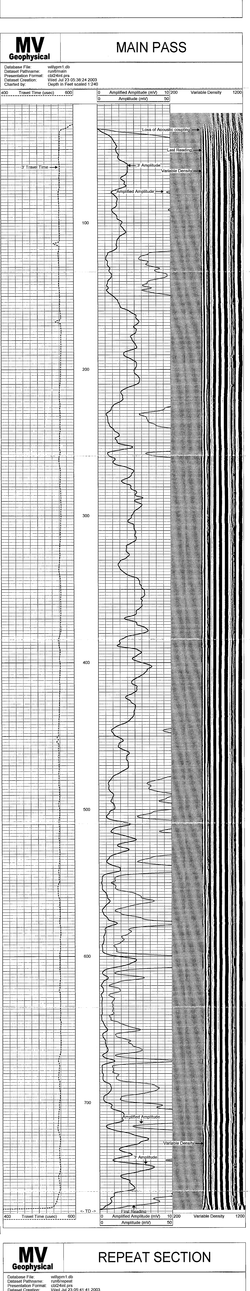
CSL Sonic tool run centralized.

Lost acoustic coupling completely at 30' bls.

MV Geophysical

MAIN PASS

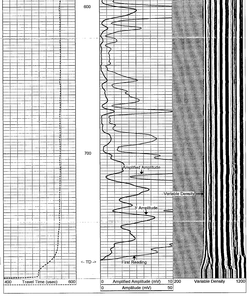
Database File: wellgsm1.db
Dataset Pathname: sonhmsc
Presentation Format: bond_vdl.prs
Dataset Creation: Wed Jul 23 05:36:24 2003
Charted by: Depth in Feet scaled 1:240



MV Geophysical

REPEAT SECTION

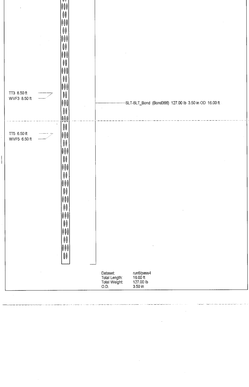
Database File: wellgsm1.db
Dataset Pathname: sonhmsc
Presentation Format: ulcbond.prs
Dataset Creation: Wed Jul 23 05:41:41 2003
Charted by: Depth in Feet scaled 1:240



Cement Bond Log Calibration Report

Serial Number:	Bond06
Test Model:	SL7_Bond
Performed:	Wed Jul 23 04:36:31 2003

Depth:	516.664	ft	
Casing Diameter:	24	in	
	3' Spacing	5' Spacing	
Signal Zero:	14	25	mV
Receiving Amplitude:	0.5181	0.5181	mV
Receiving at Signal Zero:	0.1495313	0.2247108	V
Reading in Free Pipe:	1.15347	0.748926	V
Gain:	38.5341	38.5206	
Offset:	-0.184434	-0.385229	



Schlumberger

Company	[illegible]
Well	[illegible]
Field	[illegible]
County	[illegible]
State	[illegible]
Other Services	[illegible]
Permanent Datum	[illegible]
Log Measured From	[illegible]
Drilling Measured From	[illegible]
Elevation	[illegible]
Date	[illegible]
Run No.	[illegible]
Depth-Driller	[illegible]
Depth-Logger	[illegible]
Bottom Log Interval	[illegible]
Top Log Interval	[illegible]
Casing-Driller	[illegible]
Casing-Logger	[illegible]
Bit Size	[illegible]
Type Fluid in Hole	[illegible]
Density	[illegible]
Viscosity	[illegible]
Fluid Loss	[illegible]
Source of Sample	[illegible]
Rm	[illegible]
Rmf	[illegible]
Rmc	[illegible]
Rm at BHT	[illegible]
Max. Rec. Temp.	[illegible]
Equipment Location	[illegible]
Recorded By	[illegible]
Witnessed By	[illegible]

Run No.	Bit Size	Depth Drilled	From	To
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

| Type | Size | Weight

Company:	SOUTH FLORIDA WATER MANAGEMENT DISTRIC
Well:	EXPM - 1
Field:	LAKE DIESCHOHKEE ASR PILOT PROJECT
County:	MARTIN
State:	FLORIDA

Schlumberger

ARRAY INDUCTION
GR / CALIPER

COMPANY	
WELL	
FIELD	
COUNTY	
STATE	
COUNTRY	

Schlumberger

WELL SITE INFORMATION AND CALIBRATION REPORT

Company: SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well: EXPW - 1
Field: LAKE OKEECHOBEE ASR PILOT PROJECT
County: MARTIN
State: FLORIDA

Schlumberger

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
LAKE OKEECHOBEE ASR PILOT PROJECT
EXPW - 1
MARTIN COUNTY, FLORIDA

Company: SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well: EXPW - 1
Field: LAKE OKEECHOBEE ASR PILOT PROJECT
County: MARTIN
State: FLORIDA
API Number:
Latitude: 27° 12' 0.000" N
Longitude: 80° 29' 0.000" W
Section: 29
Township: 38 S
Range: 40 E
Elevation: KB: 0 ft
DF: 0 ft
GL: 0 ft
Date: 4-Mar-2005
Run Number: ONE
Depth Reference: KB

LONG SPACE SONIC

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CBL			
VDL			
GR			
CCL			
TENSION			
TEMP.			
SONIC - TUBE WAVE			
SONIC - FULL WAVEFORM			
SONIC - SHEAR WAVE			
SONIC - COMPRESSIONAL			
SONIC - FULL WAVEFORM			
SONIC - LONG SPACE			
SONIC - SHORT SPACE			
SONIC - FULL WAVEFORM			
SONIC - SHEAR WAVE			
SONIC - COMPRESSIONAL			
SONIC - FULL WAVEFORM			
SONIC - TUBE WAVE			
TEMP.			
TENSION			
CCL			
GR			
VDL			
CBL			

RECORDED FIELD PRINTS

Company	Schlumberger	Date	2-Jun-2006
Well	15/9-19 A	Time	00:00
Field	Sleipner	Depth Reference	Rotary Table
Country	Norway	Elevation	0.00 m
Rig	Transocean Arctic	Log Measured From	Rotary Table
Log Number	1	Permanent Datum	Mean Sea Level
Run Number	1	Drilling Measured From	Rotary Table
Log Type	PEX-HRLA-HNGS-AMS-PPC	Log Interval	1723.00 - 1150.00 m
Logging Speed	1800 m/hr	Casing Shoe	1723.00 m
Mud Type	Water Based Mud	Mud Density	1.03 g/cm³
Mud Viscosity	0.00 s	Mud Resistivity	0.000 Ω·m
Max Temp Recorded	0.00 °C	Bottom Hole Temperature	0.00 °C
Max Deviation	0.00 °	Max Deviation Interval	0.00 - 0.00 m
Max Dogleg	0.00 °/30m	Max Dogleg Interval	0.00 - 0.00 m
Max Tension	0.00 kg	Max Tension Interval	0.00 - 0.00 m
Min Tension	0.00 kg	Min Tension Interval	0.00 - 0.00 m
Tool Type	Tool Serial Number	Tool Length	Tool Weight
PEX-HRLA-HNGS-AMS-PPC	1	0.00 m	0.00 kg

Comments

Logging Operations

Operation	Time	Depth
Logging Operations	00:00	0.00 m

Equipment Description

Equipment	Serial Number	Length	Weight
Equipment Description	1	0.00 m	0.00 kg

Equipment Description

Tension Head
Tension Head
Tension Head

Company:	Diamond Drilling Corp
Project:	DDH-1
Site:	Tim Horton
Well:	Tim Horton
Wellbore:	Tim Horton
Logging Date:	2-11-2020
Logging Time:	10:00
Logging Co.:	MV Geophysical
Logging Method:	Downhole Optical Televiewer
Logging Equipment:	MV Geophysical
Logging Engineer:	Jason Young
Depth Reference:	Top of Casing
Casing Diameter:	0.00 m
Casing Depth:	0.00 m
Casing Thickness:	0.00 m
Casing Material:	
Fluid Type:	Water
Fluid Level:	0.00 m
Fluid Density:	1.000 g/cm³
Fluid Viscosity:	1.000 cP
Fluid Temperature:	10.00 °C
Fluid Resistivity:	0.000 Ohm-m
Magnetic Declination:	0.000
Depth Correction:	0.00 m
Comments:	

MV Geophysical

2-11-2020
10:00:00
Version 1.0.0.0

Downhole Optical Televiewer
Model: DOTV-1000
Serial Number: 1000-0001

Probe Diameter: 40.00 mm
Probe Length: 1.00 m
Probe Weight: 1.00 kg
Max. Temperature: 70.00 °C
Max. Pressure: 10.00 MPa
Max. Logging Speed: 1000.00 m/min
Optical Resolution: 0.1 mm
Acoustic Resolution: 0.5 mm
Image Resolution: 1000 pixel/m
Image Type: Full Color
Image Orientation: Magnetic
Image Compression: None
Image Stabilization: Yes
Image Enhancement: Yes
Image Filtering: Yes
Image Mapping: Yes
Image Unwrapping: Yes
Image Stitching: Yes
Image Correction: Yes
Image Normalization: Yes
Image Contrast: 100
Image Brightness: 100
Image Gamma: 1.0
Image Saturation: 100
Image Hue: 0
Image Sharpness: 100
Image Noise Reduction: 0
Image Noise Reduction Type: None
Image Noise Reduction Level: 0
Image Noise Reduction Method: None
Image Noise Reduction Mode: None
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Image Noise Reduction Threshold Method: None
Image Noise Reduction Threshold

Company Diversified Drilling Corp.
Well Exploratory
Field Port Mayaca
County Martin
State/Prov. Florida

Surveyor: Mark Mayaca
Date: 03/19/03
Time: 10:00
Location: PORT MAYACA, FL
Operator: DIVERSIFIED DRILLING CORP.
Comments: STATIC AND DYNAMIC DOWN PASSES
Depth Reference: 0 FT
Depth Offset: 0 FT
Sensor Offset: 0 FT
Sensor Type: Pressure
Sensor Serial: 0
Sensor Model: 0
Sensor Range: 0 PSI
Sensor Resolution: 0 PSI
Sensor Accuracy: 0 PSI
Sensor Calibration Date: 0/0/0
Sensor Calibration Temp: 0 F
Sensor Calibration Pressure: 0 PSI
Sensor Calibration Offset: 0 PSI
Sensor Calibration Slope: 0 PSI/F
Sensor Calibration Intercept: 0 PSI
Sensor Calibration Coefficients: 0 0 0 0 0 0
Sensor Calibration Type: 0
Sensor Calibration Comments: 0
Pulse Rate: 0 Hz
Pulse Width: 0 uS
Pulse Delay: 0 uS
Pulse Polarity: 0
Pulse Type: 0
Pulse Comments: 0

MV Geophysical

Diversified Drilling Corporation

FLOWMETER 0/0

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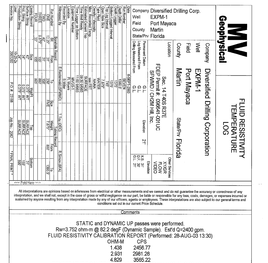

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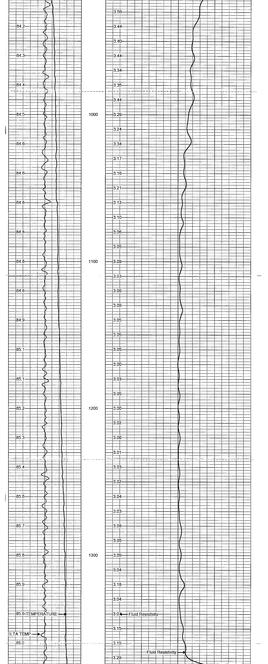
CAUTION!!!

STATIC and DYNAMIC UP passes were performed.
Rw=3.752 ohm-m @ 82.2 degF (Dynamic Sample) Ext'd Q=2400 gpm.
FLUID RESISTIVITY CALIBRATION REPORT (Performed: 28-AUG-03 13:30)

OHM-M	CPS
1.438	2468.77
2.921	2981.26
6.609	3693.22
14.000	4500.00

TEMPERATURE CALIBRATION REPORT (Performed: 28-AUG-03 12:45)

DEG C	DEG F
35.8	2102.98
141.6	7001.08


MV Geophysical
DYNAMIC FRT UP
Database File: solfiport1.db
Dataset Pathname: run10/FRT
Presentation Format: Hydro.prf
Dataset Creation: Sat Sep 06 15:06:01 2003
Charted by: Depth in Feet scaled 1:240
TEMPERATURE (degF) 80
DELTA TEMP (degF) 0.5
Fluid Resistivity
Fluid Resistivity
Fluid Resistivity

Company: SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well: EAPM-1
Field: LAKE OKEECHOBEE ASR PILOT PROJECT
County: MARTIN
State: FLORIDA
Other: CALIPER LOG

Schlumberger

DEPTH SUMMARY LISTING

Date Created: 11-OCT-2006 by Hydro

Depth System Equipment

Depth Gauge/Log Tractor	Tension Device	Logging Cable
Type: Hydro Tractor Serial Number: 1 Calibration Date: 11-OCT-2006 Calibration Method: Hydro Tractor Wheel Circumference: 0.0000 in Wheel Encoder: 0 Gauge Operator: 1	Type: Hydro Serial Number: 1 Calibration Date: 06-OCT-2006 Calibration Method: Hydro Offset: 0.0000 lbf Gain: 0.0000	Type: Hydro Tractor Serial Number: 1 Length: 0.0000 ft Weight: 0.0000 lb/ft Max Tension: 0.0000 lbf

Depth Control Parameters

Log Direction:	Bottom(PU) To Top (Pull)
Tractor Operation:	Wheel Velocity Pulse Mode
Minimum Log Speed:	30.00 FPM
Maximum Log Speed:	1000.00 FPM
Measured Depth Resolution:	0.0000 in

Depth Control Remarks

1. BLUE BOTTOM PICKS ARE TAKEN FROM APPLIED
2. BLUE PICKS ARE TAKEN FROM APPLIED
3. TOP OF ALL CASING IS AT 1.00 AGL (FALL LEVEL)
4. USE TRACTOR TO CHANGE THE VELOCITY ON BLUE LINE OPEN
5.
6.

FIELD NOTES
CALIPER LOG RUN IN 6" OPEN HOLE AND 8-5/8" CASING
TOOL ZERO WAS CHECKED AT SURFACE BEFORE RUNNING IN HOLE
TOOL WAS CHECKED AT SURFACE AFTER COMPLETION OF JOB
CALIPER LOG RUN IN 6" OPEN HOLE AND 8-5/8" CASING
TOOL ZERO WAS CHECKED AT SURFACE BEFORE RUNNING IN HOLE
TOOL WAS CHECKED AT SURFACE AFTER COMPLETION OF JOB

TOOL NUMBER:	TOOL NUMBER:
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
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EQUIPMENT DESCRIPTION

Page 1

SURFACE EQUIPMENT

CONVEYLE EQUIPMENT

Schlumberger

Main Pass 5" = 100'

Company: SOUTH FLORIDA WATER MANAGEMENT DISTRICT — WELL EAPM-1

Output DLIS Files
DEFAULT — MAIN_DISPLAY — 01-Oct-2007 13:00 — 1000 EFT — 7000 EFT

OP System Version: 11C0-305
Date: 11-OCT-06 — Time: 10:00 EDT

Main Pass 5" = 100'

Depth Scale: 1:100 — Vertical Scale: 5.0000 in/100 ft

Caliper 1 (CAL1) — Caliper 2 (CAL2) — Caliper 3 (CAL3) — Caliper 4 (CAL4) — Bit Size (BS) — Gamma Ray (GR) — Temperature (TEMP) — Fluid Velocity (FLOW) — Fluid Velocity (FLOW) — Fluid Velocity (FLOW

Company:	SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well:	EXPM - 1
Field:	LAKE OKEECHOBEE ASR PILOT PROJECT
County:	MARTIN
State:	FLORIDA
API #:	
Lat:	
Long:	
Elevation:	
Datum:	
Log Measured From:	GROUND LEVEL
Drilling Measured From:	GROUND LEVEL
Permanent Datum:	GROUND LEVEL
Elevation:	0.00 m
Elevation:	0.00 m
Elevation:	0.00 m
Date:	10-Oct-2005
Time:	09:00
Run Number:	ONE
Depth Driller:	1100.00 m
Depth Logger:	1100.00 m
Bottom Log Interval:	1100.00 m
Top Log Interval:	0.00 m
Casing Driller Size:	0.000 m @ 0.00 m
Casing Logger:	0.000 m @ 0.00 m
Bit Size:	0.000 m
Type Fluid in Hole:	LAND
Density:	
Viscosity:	
Fluid Loss:	
Source of Sample:	
Rm @ Measured Temp:	
Rmf @ Measured Temp:	
Rmc @ Measured Temp:	
Rm @ BHT:	
Rmf @ BHT:	
Rmc @ BHT:	
Max Recorded Temp:	
Equipment Number:	
Location:	LAT. 0.000000 LONG. 0.000000
Witnessed By:	
Recorded By:	

Schlumberger

Company: SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well: EXPM - 1
Field: LAKE OKEECHOBEE ASR PILOT PROJECT
County: MARTIN
State: FLORIDA

DEPTH SUMMARY LISTING

Date C-Wire: 11-OCT-2005 11:32:43

Depth System Equipment

Depth Measuring Device	Tension Device		Logging Cable	
Type: CWS-B	Type: CMTD/BA	Type: 7-cond / 46		
Serial Number: 8897	Serial Number: 1677	Serial Number: 2127		
Calibration Date: 11-OCT-2005	Calibration Date: 11-OCT-2005	Length: 1100.00 FT		
Calibration Serial Number: 1	Calibration Serial Number: 8915	Compensator Method: Wheel (Wire)		
Calibration Cable Type: 1-HPC 15/-	Calibration Cable: 2-46	Rig Type: LAND		
Wheel Circumference: 0.3	Calibration Offset: 0.00			
Wheel Calibration: 0				

Depth Control Parameters

Log Reference	Schlumberger FOS TL Via WWT
Reference Log Run Number	ARRAY INDUCTION VXD
Reference Log Date	10-SEP-2005
Scheduled Top Wear Log Correction	0.00 FT

Depth Control Remarks

1. BLS DEPTH CENTRAL POLICY APPLIED
2. TOP OF WEAR LOG TAKEN AT 0.00 FT AS PER BLS POLICY
3. TOP OF WF CASING IN A 0 INCH HOLE (DIA)
4. LOG TIED IN TO ARRAY INDUCTION (XM) BLS - 3-SEP-2005
5.
6.

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OTHER REMARKS	OTHER REMARKS
CRM:	CRM:
CRM:	CRM:
CRM:	CRM:
CRM:	CRM:
REMARK: TEST NUMBER 1	REMARK: TEST NUMBER 2
CASING SHOE DEPTH (DRILLER) 0 FT CASING COLLARS	
CASING SHOE DEPTH (LOG)	
WELL FLOWING DURING CASING OPERATION	
LOST RECORD (ABOVE/NO MATCH)	
SUSPENDED BLIND FOR STRUCTURAL DATA	
NOT DRAINED TO FULL BEFOR	
10 SECO DELE	
10 SECO DEL 0 DELE 0 WALL TURNAROUND	
RECORDING PRESSURE AT WELLHEAD DURING BHPT	
TUBING WELLHEAD SHUT-IN PRESSURE	
PAGE 1	
SERVICE ORDER # PROGRAM VERSION	1000660 1.0.0.0.0 SERVICE ORDER # PROGRAM VERSION
PROCEDURE GENERAL GENERAL	START STOP PROCEDURE GENERAL GENERAL START STOP

EQUIPMENT DESCRIPTION

PAGE 1

SURFACE EQUIPMENT

SWU
SPM-B

DOWNHOLE EQUIPMENT

Schlumberger

Main Pass 5" = 100'

SPHERICAL GAMMA RAY

Output DLIS Files

DEFAULT	ECS_NGS_048.UP	PN:76	PRODUCER 18-Oct-2005 09:34	1048.0 FT	778.5 FT

OP System Version: 11C0-305

ECS-A	GPV1-MPV	ECC-A	GPV1-MPV
NPLC-B	GPV1-MPV	HNGS-BA	GPV1-MPV
DTCP-A	11C0-305		

PIP SUMMARY

Main Pass 5" = 100'

PIP SUMMARY

Main Mark Event: 10.5

Parameters

DLIS Name	Description	Value
HNGS-BA: Hostile Natural Gamma Ray Sonde		
BIAS	HNGS Selected Bias Voltage	0 V
CGAI	HNGS Selected Gain Control	1
CSDI	HNGS Selected Spectrum Discriminator	1
CSMI	HNGS Selected Potassium Correction Concentration	0
CSMP	HNGS Selected Mud Density	CPCI
CSMW	HNGS Selected Mud Weight	0
CSSI	HNGS Selected Spectrum Stabilization	1
CSWI	HNGS Selected Casing Weight	0 LB/F
CSWT	HNGS Selected Casing Wall Thickness	0 IN
CTCF	HNGS Gamma Correction Factor	NONE
CTCS	HNGS Selected Gamma Correction Source	ALLOW
DTCI	HNGS Selected 1 Shot Detector to Processing	0
DTCP	HNGS Selected 1 Shot Detector to Processing	0
HCAL	HNGS Selected Caliper Processing Average	0
HCNT	HNGS Selected Hole Correction	0
HCTC	HNGS Selected Thorium Potassium Correction	0
HFCN	HNGS Input Noise	0
HFCS	HNGS Selected Filter Source	NONE
HGCS	HNGS Selected Gamma Correction Source	CPS
HGFS	HNGS Selected Gain Factor Source	1
HGNS	HNGS Selected Active Gain	1
HGSC	HNGS Selected Scale	0
HNAV	HNGS Uranium 1 Sample Sonde Factor Average	0
HNCV	HNGS Uranium 1 Sample Sonde Counting Average	0
HNGS: BTI Stock Tool Indicator		
LBFS	Longer Ten BASIS First Reading Latch	0 V
LBFT	Longer Ten BASIS Time	0 S
LBTI	Longer Ten Indicator	0
TNG	Total Depth - Logger	1048.00 FT
TVL	System and Miscellaneous	
	Tension Zero	0 LB
	Tension Scale	0 LB/V

Format: RB02/RB2 Vertical Scale: 5" per 100' Logging Speed: 30 m/min Logging Tib. Created: 18-Oct-2005 09:34

OP System Version: 11C0-305

ECS-A	GPV1-MPV	ECC-A	GPV1-MPV
NPLC-B	GPV1-MPV	HNGS-BA	GPV1-MPV
DTCP-A	11C0-305		

Output DLIS Files

DEFAULT	ECS_NGS_048.UP	PN:76	PRODUCER 18-Oct-2005 09:34

Schlumberger

Calibrations

SPHERICAL GAMMA RAY

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Natural Gamma Ray Sonde Hostile Calibration Calibration - Detector 2 Check							
Hostile Natural Gamma Ray Sonde Hostile Calibration - Detector 2 Check							
No K1 Peak Loc	46.00	46.00	45.96	N/A	N/A	1.000	
No K1 Peak Wid	7.00	7.00	7.00	N/A	N/A	0.500	%
High Energy	3.00	3.00	3.00	N/A	N/A	0.500	%
No Th Peak Loc	238.00	238.00	238.00	N/A	N/A	1.000	
No Th Peak Wid	8.000	8.000	8.198	N/A	N/A	0.500	%
Th Peak Loc	238.00	238.00	238.00	N/A	N/A	1.000	Total
No Count Rate	1000.00	1000.00	1000.00	N/A	N/A	0.500	%
Hostile Natural Gamma Ray Sonde Hostile Calibration - Detector 2 Check							
Hostile Natural Gamma Ray Sonde Hostile Calibration							
No K1 Peak Loc	46.00	46.00	45.91	N/A	N/A	1.000	
No K1 Peak Wid	7.00	7.00	7.00	N/A	N/A	0.500	%
High Energy	3.00	3.00	3.00	N/A	N/A	0.500	%
No Th Peak Loc	238.00	238.00	238.00	N/A	N/A	1.000	
No Th Peak Wid	8.000	8.000	8.198	N/A	N/A	0.500	%
Th Peak Loc	238.00	238.00	238.00	N/A	N/A	1.000	Total
No Count Rate	1000.00	1000.00	1000.00	N/A	N/A	0.500	%
Hostile Natural Gamma Ray Sonde Hostile Calibration - Detector 2 Check							
Hostile Natural Gamma Ray Sonde Hostile Calibration							
Thorium Peak	2.000	1.919	1.924	N/A	N/A	2.00000	

Generated Gamma Spectrometry Tool - Equipment Identification

Primary Equipment	
NPLC Controller	ECC - A
ECS Gamma Spectrometer	10
Auxiliary Equipment	
Hostile Gamma Sonde	GPV - 1
Auxiliary Equipment	
Cable Head	ECS - A

Generated Gamma Spectrometry Tool - Hostile Calibration

Primary Equipment	
HNGS Controller	ECC - A
Auxiliary Equipment	
Hostile Gamma Sonde	GPV - 1

Electronic Cartridge - A - Equipment Identification

Primary Equipment	
NPLC Controller	ECC - A
Auxiliary Equipment	
Cable Head	ECS - A

Nuclear Porosity Lithology Cartridge - B - Equipment Identification

Primary Equipment	
NPLC Controller	NPLC - B
Auxiliary Equipment	
Cable Head	ECS - A

Hostile Natural Gamma Ray Sonde - Equipment Identification

Primary Equipment	
HNGS Controller	HNGS - BA
Auxiliary Equipment	
Hostile Gamma Sonde	GPV - 1
Auxiliary Equipment	
Cable Head	ECS - A

Hostile Natural Gamma Ray Sonde Hostile Calibration

Phase	Start Time	Stop Time	Duration	Gain Hi Peak Chn	Gain Hi Peak Wid	Gain Hi Peak Area	Gain Hi Peak Cnts	Gain Hi Peak Cnt Rate	Gain Hi Peak Cnt Rate Wid
Start	11:17:00		0:00	46.00	7.00	1.00	1000	1000	7.00
Stop		11:17:00	0:00	46.00	7.00	1.00	1000	1000	7.00

Schlumberger

COMPANY SOUTH FLORIDA WATER MANAGEMENT DISTRICT
WELL LAKE OKEECHOBEE AQUIFER PILOT PROJECT
FIELD
COUNTY MARTIN
STATE FLORIDA

DATE 10-Feb-2006 (DD-MM-YYYY)
TIME 07:00 AM (HH:MM)
DEPTH 1000.0 (Meters)

Schlumberger

DEPTH SUMMARY LISTING

DRILLERS - LOGGERS (Meters)

Depth System Equipment

Depth Reference Points		Depth Control Parameters		Logging Cable	
Depth Datum	Ground Level	Cable Speed	30.0 (m/min)	Cable Type	Single Conductor
Elevation Datum	0.0 (m) AMSL	Calibration Date	06-Oct-2005	Length	2300.00 (m)
Measured From	Rotary Table	Calibration Method	Pull Test	Weight	0.0000 (kg/m)
Permanent Datum Type	Land (m)	Calibration Error	0.0 (m)	Tension Limit	2000.0
Drilling Measured From	Rotary Table	Calibration Tension	0.0 (kg)	Tension Type	Static
Where Connected	0				

Depth Control Parameters

Log Measured From: Rotary Table (10.7 m Above Perm. Datum)
Drilling Measured From: Rotary Table
Depth Reference Point: Ground Level
Permanent Datum Elevation: 0.0 (m) AMSL

Depth Control Remarks

1. TIED DEPTH CONSTANT TO LAST OPTICAL
2. DEPTH CORRECTED FROM THE TOP OF THE CASING
3. ALL DEPTHS ARE MEASURED FROM THE TOP OF THE CASING
4. USE TIED IN TO ARRAY INDUCTION (29-JUL-2-APR-2006)

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	2000

EQUIPMENT DESCRIPTION

Page 2

SURFACE EQUIPMENT

SCHEMATIC EQUIPMENT

SCHEMATIC EQUIPMENT DESCRIPTION
SERIAL NUMBER: 1000 TO 2000
MEASUREMENT POINT: 0.0 (Meters)

Schlumberger

Main Pass 5"=100'

Schlumberger
Main Pass 5" = 100'
Main Pass 10" = 100'
Main Pass 20" = 100'
Main Pass 40" = 100'
Main Pass 80" = 100'
Main Pass 160" = 100'
Main Pass 320" = 100'
Main Pass 640" = 100'
Main Pass 1280" = 100'
Main Pass 2560" = 100'
Main Pass 5120" = 100'
Main Pass 10240" = 100'
Main Pass 20480" = 100'
Main Pass 40960" = 100'
Main Pass 81920" = 100'
Main Pass 163840" = 100'
Main Pass 327680" = 100'
Main Pass 655360" = 100'
Main Pass 1310720" = 100'
Main Pass 2621440" = 100'
Main Pass 5242880" = 100'
Main Pass 10485760" = 100'
Main Pass 20971520" = 100'
Main Pass 41943040" = 100'
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Main Pass 167772160" = 100'
Main Pass 335544320" = 100'
Main Pass 671088640" = 100'
Main Pass 1342177280" = 100'
Main Pass 2684354560" = 100'
Main Pass 5368709120" = 100'
Main Pass 10737418240" = 100'
Main Pass 21474836480" = 100'
Main Pass 42949672960" = 100'
Main Pass 85899345920" = 100'
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Main Pass 1961594292308337738698684194752395755031986076395010785280" = 100'
Main Pass 3923188584616675477397368389504791510063972

Company: SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well: EDTM - 1
Field: LAKE CHICHOBEE ASR PILOT PROJECT
County: MARION
State: FLORIDA
Other Services: DUAL INDUCTION LOG

Schlumberger

DEPTH SUMMARY LISTING

DRILLING CONTRACTOR: U.S. DRILL

Depth System Equipment

Depth Sensing Device		Logging Cable	
Type: Wheel	0000	Type: Single Conductor	0000
Serial Number: 0000		Length: 0	
Calibration Date: 01-DEC-2005		Calibration Date: 06-OCT-2005	
Calibration Method: Tank		Calibration Method: Tank	
Measure Point Offset: 0.00 m		Measure Point Offset: 0.00 m	
Wheel Circumference: 1.00 m		Weight: 0.000 kg/m	
Wheel Correction: 0		Diameter: 0.000 m	

Depth Control Parameters

Log Measured From: Rotary Kelly Bushing 0.00 m Above Permanent Datum
Permanent Datum: Ground Level
Elevation: 0.00 m
Bit Size: 0.000 mm
Bottom Log Interval: 1100.00 m
Top Log Interval: 0.00 m
Bottom Hole Temperature: 0.00 °C

Depth Control Remarks

1. NO DEPTH CORRECTIONS ARE MADE.
2. ALL DEPTHS ARE MEASURED FROM KB.
3. DEPTH CHANGES ARE DETERMINED BY:
   1. LINE TENSION CHANGES
   2. LINE TIED IN TIMING REDUCTION (DELAY, SHIFT-FREE)
   3. TIME

Log Data

Depth	Description
0.00 m	LOG START. DEPTHS ARE FROM KB. THE FOLLOWING TOOLS WERE RUN: DUAL INDUCTION FOCUSED LOG, DUAL INDUCTION LOG, SPECTRAL GAMMA RAY, TEMPERATURE LOG.
1100.00 m	LOG STOP. DEPTHS ARE FROM KB. THE FOLLOWING TOOLS WERE RUN: DUAL INDUCTION FOCUSED LOG, DUAL INDUCTION LOG, SPECTRAL GAMMA RAY, TEMPERATURE LOG.

Equipment Description

Depth	Equipment
0.00 m	KB
0.00 m	DF
0.00 m	GL
0.00 m	TUBING
0.00 m	CASING (PERMANENT)
0.00 m	CASING (TEMPORARY)
0.00 m	TUBING
0.00 m	TUBING
0.00 m	TUBING
0.00 m	TUBING
0.00 m	CASING (PERMANENT)
0.00 m	CASING (TEMPORARY)
0.00 m	TUBING
0.00 m	TUBING
0.00 m	TUBING
0.00 m	TUBING

PRE-LOGGING CONDITIONS:
TUBING:
CASING (PERMANENT):
CASING (TEMPORARY):
OPEN HOLE:
POST-LOGGING CONDITIONS:
TUBING:
CASING (PERMANENT):
CASING (TEMPORARY):
OPEN HOLE:

Equipment Description

Equipment	Description	Serial Number	Length	Diameter
PRESSURE GAUGE				
PRESSURE GAUGE				
PRESSURE GAUGE				

Equipment Description

Equipment	Description	Serial Number	Length	Diameter
PRESSURE GAUGE				
PRESSURE GAUGE				
PRESSURE GAUGE				

EQUIPMENT DESCRIPTION

Page 2

SURFACE EQUIPMENT

DOWNHOLE EQUIPMENT

DRILL BIT
DRILL COLLAR
DRILL PIPE
Sampling Tool
Sampling Tool
BELT SHEAVE
BELT SHEAVE
Drum
Drum
Wheel
Wheel
Measure Point
Measure Point
Wheel Circumference
Measure Point Offset
Measure Point Offset
Wheel Correction
Wheel Correction
Wheel Correction
Measure Point Offset
Measure Point Offset

Date	07-Jun-07	Time	14:00
Operator	Schlumberger	Logging Unit	5
Logging Engineer	Mr. Ali Al Ali	Logging Engineer	Mr. Ali Al Ali
Logging Engineer	Mr. Ali Al Ali	Logging Engineer	Mr. Ali Al Ali

DEPTH SUMMARY LISTING

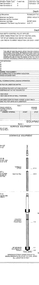
Run Number	Depth Driller	Depth Logger	Depth Logged
1	2100 m	2100 m	2100 m

Bit Size	8.5 in
Casing Driller Size	9.625 in
Casing Logger Size	9.625 in
Casing Driller Depth	1000 m
Casing Logger Depth	1000 m
Bottom Log Interval	2100 m
Top Log Interval	1000 m
Drilling Fluid Type	Water Based Mud
Drilling Fluid Density	1.15 g/cm3
Drilling Fluid Viscosity	45 cp
Drilling Fluid Ph	9.5
Fluid Loss	4.5 cc
Source of Sample	Flowline
Rm @ Measured Temp	0.08 @ 25 degC
Rmf @ Measured Temp	0.06 @ 25 degC
Rmc @ Measured Temp	0.09 @ 25 degC
Rm @ BHT	0.04 @ 90 degC
Rmf @ BHT	0.03 @ 90 degC
Rmc @ BHT	0.05 @ 90 degC
Max Recorded Temperature	90 degC
Bottom Hole Temperature	90 degC
Equipment Number	SMT-1
Location	Abu Dhabi
Recorded By	Mr. Ali Al Ali
Witnessed By	Mr. Ali Al Ali

EQUIPMENT DESCRIPTION

Equipment	Serial Number	Length	Weight
Gamma Ray Sonde	3456	2.5 m	25 kg
Sonde Length	3.5 m	Sonde Weight	35 kg

TOOL STRING SCHEMATIC



Schlumberger

Main Pass 1" = 100'

Gamma Ray (GAPI) 0 — 100 | Depth (m) 2000 — 2100

Depth Scale 1:100

Gamma Ray Scale 0 - 100 GAPI

Log Header Data

DATE	07-JUN-07	PROGRAM VERSION	5.0C
TIME	14:00	WELL TD	2100 m
TOOL STRING NUMBER	3456	TOOL STRING	GR
RUN NUMBER	1	DEPTH CONTROL	GR

Drilling Fluid Type Water Based Mud

Drilling Fluid Density 1.15 g/cm3

Drilling Fluid Viscosity 45 cp

Drilling Fluid Ph 9.5

Fluid Loss 4.5 cc

Source of Sample Flowline

Rm @ Measured Temp 0.08 @ 25 degC

Rmf @ Measured Temp 0.06 @ 25 degC

Rmc @ Measured Temp 0.09 @ 25 degC

Rm @ BHT 0.04 @ 90 degC

Rmf @ BHT 0.03 @ 90 degC

Rmc @ BHT 0.05 @ 90 degC

Max Recorded Temperature 90 degC

Bottom Hole Temperature 90 degC

Equipment Number SMT-1

Location Abu Dhabi

Recorded By Mr. Ali Al Ali

Witnessed By Mr. Ali Al Ali

Equipment Description

Equipment	Serial Number	Length	Weight
Gamma Ray Sonde	3456	2.5 m	25 kg
Sonde Length	3.5 m	Sonde Weight	35 kg

Tool Schematic

Log Quality Control

Depth Scale	1:100	Log Measured	Gamma Ray
Logging Speed	1800 m/hr	Number of Passes	1
Gamma Ray Standard	Pass	Internal Battery Voltage	Pass
Gamma Ray Background	Pass	Gamma Ray Calibration	Pass

Comments

Gamma Ray Calibration Performed Before Next Job

Gamma Ray Calibration Performed After Job

Company: SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well: EVTW - 1
Field: LAKE OKEECHOBEE AIR PILOT PROJECT
County: MARTIN
State: FLORIDA
Other Services: COMPENSATED NEUTRON

Schlumberger

DEPTH SUMMARY LISTING

Depth System Equipment

Depth Measuring Device		Logging Data
Type: Encoder	Manufacturer: Schlumberger	Logging Date: 04-Oct-2001
Serial Number: 2	Calibration Date: 04-Oct-2001	Unit Number: 2
Calibration Value: 21.6000 CNTS	Calibration Value: 04-Oct-2001	Truck: 2 Mobile Lab 11
Wheel Circumference: 4 FT	Calibration Value: 04-Oct-2001	Operating Rig Time: Full Time
Measure Point Offset: 2.00 FT	Measure Point Offset: 2.00 FT	Service Order: 20414
Wheel Slippage: 0 %	Wheel Slippage: 0 %	Date: 04-Oct-2001
Wheel Correction: 0	Wheel Correction: 0	

Depth Control Parameters

Log Measured From:	Kelly Bushing 7.00 FT Above Perm. Datum
Drilling Measured From:	Kelly Bushing
Permanent Datum:	Ground Level
Elevation:	0.00 FT
Permanent To Drill Log Correction:	0.00 FT

Depth Control Remarks

1. DEPTH CORRECTION: POLICY APPLIED
2. PIPE TAPE USED: YES, PIPE TAPE NO 2001
3. DEPTH CORRECTION: NO CORRECTION
4. USE TIED IN TO MPHR INDUCTION LOG (BLS: 2120'-0NB)

DISCLAIMER

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CUSTOMER REPRESENTATIVE:	
WELL:	
FIELD:	
COUNTY:	
STATE:	
OTHER:	
WELL TYPE:	
LOCATION:	
SECTION:	
TOWNSHIP:	
RANGE:	
PERMANENT DATUM:	GROUND LEVEL
LOG MEASURED FROM:	KELLY BUSHING
DRILLING MEASURED FROM:	KELLY BUSHING
ELEVATION:	0 FT AGL
ELEVATION:	0 FT AGL
ELEVATION:	0 FT AGL

Company: ARCO ALASKA INC.
Well: 1C-305
Field: KUPARUK RIVER UNIT
Location: 1FT NORTH OF WELL
Rig: NABORS 18E
Date: 10-Oct-1999
Time: 08:00
Depth Reference: RKB
Elevation: 0.00 ft
Depth Mode: Measured Depth
Depth Increment: 0.5000 ft
Log Speed: 30.00 ft/min
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 1
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 2
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 3
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 4
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 5
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 6
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 7
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 8
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 9
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 10
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 11
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 12
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 13
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 14
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 15
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 16
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 17
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 18
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 19
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 20
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 21
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 22
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 23
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 24
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 25
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 26
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 27
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 28
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 29
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 30
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 31
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 32
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 33
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 34
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 35
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 36
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 37
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 38
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 39
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 40
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 41
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 42
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 43
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 44
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 45
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 46
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 47
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 48
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 49
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 50
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 51
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 52
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 53
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 54
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 55
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 56
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 57
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 58
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 59
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 60
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 61
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 62
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 63
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 64
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 65
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 66
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 67
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 68
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 69
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 70
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 71
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 72
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 73
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 74
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 75
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 76
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 77
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 78
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 79
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 80
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 81
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 82
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 83
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 84
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 85
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 86
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 87
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 88
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 89
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 90
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 91
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 92
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 93
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 94
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 95
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 96
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 97
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 98
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESSURE GRADIENT SURVEY
Log Date: 10-Oct-1999
Log Time: 08:00
Log Number: 99
Log Type: Pressure Gradient Survey
Log Mode: Stationary
Log Direction: Down
Log Header: 1C-305 PRESSURE GRADIENT SURVEY
Log Footer: 1C-305 PRESSURE GRADIENT SURVEY
Log Comment: 1C-305 PRESS

Schlumberger

Main Pass 5" x 100

Depth Track Scale: 5" x 100 Depth Units: Feet Time Scale: 60 Seconds/Inch Time Units: Hours

Output Log Trailer
Date: 09/06/2006 Time: 07:00:00 AM - 07:00:00 AM
GP Explorer Version: 1103-W8
Depth Range: 0.0 - 0.0 Time Range: 0.0 - 0.0

Schlumberger

Repeat Section 5" x 100

Output Log Trailer
Date: 09/06/2006 Time: 07:00:00 AM - 07:00:00 AM
GP Explorer Version: 1103-W8
Depth Range: 0.0 - 0.0 Time Range: 0.0 - 0.0

Schlumberger

Main Pass

Output Log Trailer
Date: 09/06/2006 Time: 07:00:00 AM - 07:00:00 AM
GP Explorer Version: 1103-W8
Depth Range: 0.0 - 0.0 Time Range: 0.0 - 0.0

Schlumberger

Repeat Pass

Output Log Trailer
Date: 09/06/2006 Time: 07:00:00 AM - 07:00:00 AM
GP Explorer Version: 1103-W8
Depth Range: 0.0 - 0.0 Time Range: 0.0 - 0.0

Schlumberger

Calibrations

Calibrations

Company: BP EXPLORATION (ALASKA) INC.
Well: GC640 ST00
Field: GREEN CANYON 640 AND 641 PILOT PROJECT
County: DE SOTO CANYON
State: GULF OF MEXICO
Job Number: 0000-0000
Date: 09-Jun-2006

Schlumberger

Calibration Report

Calibration Date: 09-Jun-2006

Tool Type	Serial Number	Calibrator	Calibration Type	Date	Time
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Calibration Results

Measurement	Nominal Value	Measured Value	Tolerance	Units
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Comments

[illegible]

Calibrated By: [illegible]
Witnessed By: [illegible]

Schlumberger

COMPANY SOUTH FLORIDA WATER MANAGEMENT DISTRICT
WELL EXFM-1
FIELD LAKE OKEECHOBEE AIR PILOT PROJECT
COUNTY HENDRY
STATE FLORIDA
LOCATION SOUTH FLORIDA WATER MANAGEMENT DISTRICT
OTHER SERVICES
DATE 11-Oct-2005
API NO. 42-051-00000
LOG NO. 1
RUN NO. 1
PERMANENT DATUM GROUND LEVEL
ELEVATION 0 FT
LOG MEASURED FROM KELLY BUSHING
DRILLING MEASURED FROM KELLY BUSHING

DEPTH SUMMARY LISTING

DATE 11-OCT-2005 11:15:00

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type: Wireline Depth Encoder		Type: Wireline Tension Device		Type: Wireline Cable	
Serial Number: 0007		Serial Number: 0007		Length: 11,000 ft	
Calibration Date: 11-NOV-2005		Calibration Date: 04-OCT-2005		Diameter: 0.46 in	
Calibration Method: Wheel		Calibration Method: Load Cell		Weight: 0.5 lb/ft	
Calibration Factor: 1.0000		Calibration Factor: 1.0000		Conductor Resistance: 0.00 Ohm/ft	
Wheel Circumference: 3 ft		Offset: 0 lb		Capacitance: 0 pf/ft	
Wheel Diameter: 0		Max Load: 2000 lb			

Depth Control Parameters

Log Depth Shift: Subsequent Trip To The Well
Reference Log Name: ARMY INDUSTRIES LTD
Reference Log Date: 0
Reference Log Run Number: 0
Subsequent Log Run Number: Correlation Log

Depth Control Remarks

1 BLUE DEPTH CONTROL PICKS APPLIED
2 ARMY INDUSTRIES LTD 11-OCT-05 PRE-LOG
3 TOP OF CASING IS 4.1 ABOVE PRE-LOG
4 CBL FROM 10 ARMY INDUSTRIES LTD 20-JUL-2 BEF 2005

LEGAL DISCLAIMER
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CREW INFORMATION		CREW INFORMATION	
UNIT:		UNIT:	
CREW:		CREW:	
ENGINEER:		ENGINEER:	
OPERATOR:		OPERATOR:	
TRUCK:		TRUCK:	
ENGINEER: TOM SCHERER		ENGINEER: TOM SCHERER	

EQUIPMENT LOCATION: SOUTH FLORIDA
CONTRACTOR OR RIG: 2-D

MISC FOCUSED DEPTH CONTROL OPERATIONS:

FOR RUN ON CABLE FOR MORE:

SURFACE CONDITIONS:
WEATHER: CLOUDY
TEMPERATURE: 75 DEG F
WIND: 5 MPH
RELATIVE HUMIDITY: 80 %
BAROMETRIC PRESSURE: 29.92 IN HG

RECORDED VIDEOS IN CASING		RECORDED VIDEOS IN OPEN HOLE	
VIDEO NAME	START	VIDEO NAME	START

EQUIPMENT DESCRIPTION

PAGE 1

SURFACE EQUIPMENT

SURFACE EQUIPMENT
LEN OFF
LEN ON
DIST OFF
DIST ON
DEPTH OFF
DEPTH ON
CTOP
Sensor Rec
DIST TO SENSOR REC
DEPTH TO SENSOR REC
ONLY FOR DEPTH CORRECTION
TOP OF CABLE
CTOP
TOP OF CABLE
CTOP
ONLY FOR DEPTH CORRECTION
SENSOR REC
DEPTH TO SENSOR REC
DIST TO SENSOR REC

Company	Chesapeake Drilling Corporation
Well	CEPM 1
Part	Port Mayaca
Field	Martin
County	Florida
Date	11-17-2000
Time	10:30:00
Depth Reference	Top Casing
Elevation	
Log Measured From	
Drilling Measured From	
Permanent Datum	
Bit	Bit 1 HEXITE
Casing	10" 0.250" 0.000 lb/ft
Fluid	10.0 pounds / gallon Mud
Source	Primary
Recorded By	Jason Brooks
Witnessed By	
Run Number	1
Logging Unit	1
Logging Company	MV Geophysical LLC

MV Geophysical

X-CALIPER
Caliper XY
LOG

Whether directly or indirectly arising from or related to this report or other measurements, we can not and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible for any loss, damage or expense incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are based on and given terms and conditions of our current price schedule.

COMMENTS

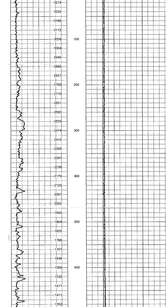
9A3ZRUM Caliper Arm Extension: 58"

MAIN PASS

MV Geophysical

Database File: wellsgeo1.db
Dataset Name: cepm001.log
Presentation Format: xy0400.prs
Created by: Jason Brooks on 04-24-2003
Charted by: Depth in Feet scaled 1:100

GAMMA RAY (GAPI) 000 | X-CALIPER (in) 40 | X-CALIPER (in) 40 | BIT SIZE (in) 40

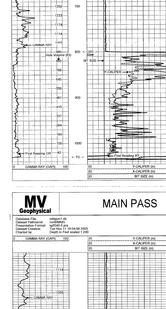


MAIN PASS

MV Geophysical

Database File: wellsgeo1.db
Dataset Name: cepm001.log
Presentation Format: xy0400.prs
Created by: Jason Brooks on 04-24-2003
Charted by: Depth in Feet scaled 1:100

GAMMA RAY (GAPI) 000 | X-CALIPER (in) 40 | X-CALIPER (in) 40 | BIT SIZE (in) 40

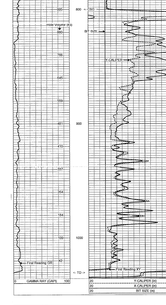


MAIN PASS

MV Geophysical

Database File: wellsgeo1.db
Dataset Name: cepm001.log
Presentation Format: xy0400.prs
Created by: Jason Brooks on 04-24-2003
Charted by: Depth in Feet scaled 1:100

GAMMA RAY (GAPI) 000 | X-CALIPER (in) 40 | X-CALIPER (in) 40 | BIT SIZE (in) 40



REPEAT SECTION

MV Geophysical

Database File: wellsgeo1.db
Dataset Name: cepm001.log
Presentation Format: xy0400.prs
Created by: Jason Brooks on 11-17-00 10:30:00
Charted by: Depth in Feet scaled 1:100

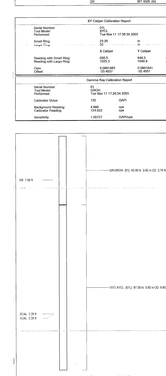
GAMMA RAY (GAPI) 000 | X-CALIPER (in) 40 | X-CALIPER (in) 40 | BIT SIZE (in) 40

XY Caliper Calibration Report

Serial Number	01A		
Test Model	XY-A		
Date/Time	Tue Nov 11 17:36:24 2003		
Small Ring	23.25	0	
Large Ring	36.25	36	
	X Caliper	Y Caliper	
Reading with Small Ring	0.0 X	0.0 Y	
Reading with Large Ring	1030.3	1030.6	
Cable	X-Caliper	Y-Caliper	
Offset	0.0	0.0	

Gamma Ray Calibration Report

Serial Number	01A	
Date/Time	Tue Nov 11 17:28:34 2003	
Tool	Tool 1	
Calibrator Value	0.00	GAPI
Background Reading	0.0	CPS
Calibration Reading	129.833	cps
Sensitivity	1.00767	GAPI/cps



Dataset cepm0xxx.0
Total Length 1.00 ft
Total Weight 0.00 lb
Tool 2.00 in

MV Geophysical

Company	Diversified Drilling Corp.
Well	EXPM-1
Field	Port Mayaca
County	Martin
State/Prov	Florida

FLOWMETER LOG

Company	Diversified Drilling Corporation
Well	EXPM-1
Field	Port Mayaca
County	Martin
State/Prov	Florida

Date/Time: 11/16/2005 12:00:00 AM
Operator: Mark Hall
Logging Unit: 1 - 1 CHANNEL
Logging Truck: FOQI Pierce & Conrad CO LLC
Logging Engineer: Mark Hall
Witness: T.J.
Date Started: 11/16/2005
Date Finished: 11/16/2005
Date Reported: 11/16/2005
Date Approved: 11/16/2005
Date Approved: 11/16/2005
Date Approved

MV Geophysical

FLUID RESISTIVITY TEMPERATURE LOG

Company	Diversified Drilling Corporation
Well	EXPM-1
Field	Port Mayaca
County	Martin State/Prv Florida
Location	Sec. 14 T40S R37E FDEP Permit #: 056641-001UC SFWMD / CH2M Hill, Inc.
Other Services	XY/GR FLOW VIDEO
Permanent Datum	G.L. Elevation 21'
Log Measured From	G.L. 4.5 ft 37'
Drilling Measured From	G.L. G.L. 21'

Date	11-NOV-2003				
Run Number	EIGHT				
Depth Driller	1650'				
Depth Logger	1650'				
Bottom Logged Interval	1650'				
Top Log Interval	740'				
Open Hole Size	22"				
Type Fluid	WATER				
Density / Viscosity	NA/NA				
Max. Recorded Temp.	84.5 degF				
Estimated Cement Top	SURFACE				
Time Logger at Bottom	14:30 11/11/03				
Time Logger on Bottom	16:30 11/11/03				
Equipment Number	MV05-1				
Location	Ft. Myers				
Recorded By	S.Miller / C.Miller				
Witnessed By	T.Tay (DDC)				

Bit Record					Casing Record			
Run Number	Bit Size	From	To	Size	Weight	From	To	
ONE	12.34"	0'	158'	FIVE	20#	0'	800'	1300
TWO	22"	0'	158'	SIX	20'	800'	1650'	
THREE	8 6'0"	158'	569'					
FOUR	22"	569'	800'					

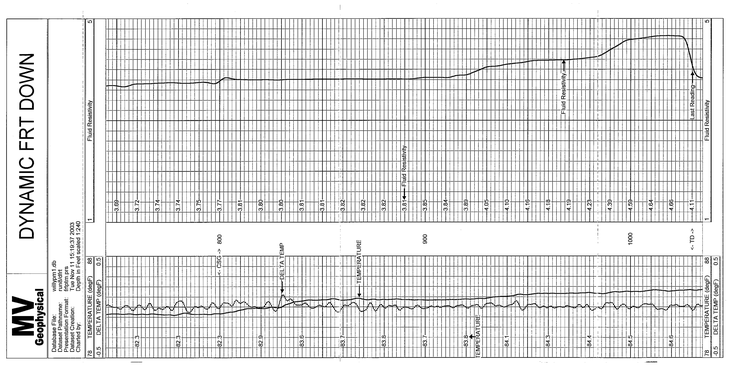
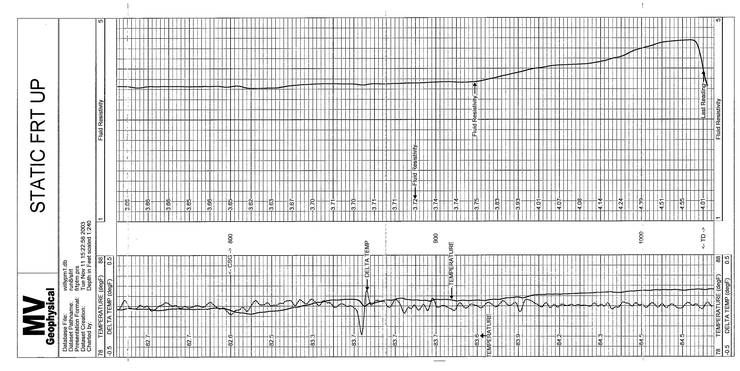
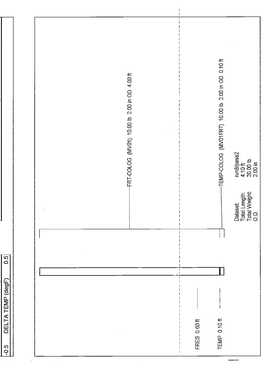
Casing Record	Size	Wgt/ft	Top	Bottom
Surface String	8"	0.375" WT	SURFACE	158'
First. String	24"	0.375" WT	SURFACE	158'
Production String	24"	0.375" WT	SURFACE	800'
Liner	10-20-24			
Header No.	2003068	P.O. #	Job No. 3092	* FINAL PRINT *

All interpretations will be made in accordance with the published rates, terms and conditions of the company. We do not guarantee the accuracy or correctness of any interpretations, 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 also subject to our general terms and conditions set out in our current Price Schedule.

Comments:

STATIC and DYNAMIC DOWN passes were performed.
Run 2 TEMPERATURE CALIBRATION REPORT (Performed: 9-NOV-03 11:30)
FLUID RESISTIVITY CALIBRATION REPORT (Performed: 9-NOV-03 11:30)
CHANN 2-950 2950.12
CHANN 2-960 2966.11
4-950 4950.72
4-960 4960.75
TEMPERATURE CALIBRATION REPORT (Performed: 9-NOV-03 11:45)
DEG-F 22.00 22.00
DEG-C 7021.26
-145.5

DYNAMIC FRT DOWN



STATIC FRT UP