APPENDIX D

GEOPHYSICAL LOGS

| | | |

MV Geophysical

Company	Lake Worth Utilities
Well	F-1
Field	Lake Worth
County	Palm Beach
State/Prov	Florida
Country	USA
Location	Section: 12 Township: 44 S Range: 43 E Elevation: 0 ft Lake Worth Utilities Water Treatment Plant Lake Worth, Florida
Measured From	G.L.
Drilling Measured From	G.L.
Permanent Datum	G.L.
Elevation	12
Log Measured From	Rotary Table
Drilling Measured From	Rotary Table
Date	06/15/05
Run Number	ONE
Depth Driller	300.000
Depth Logger	300.000
Bottom Logged Interval	300.000
Top Logged Interval	0.000
Casing Driller Size	12.000
Casing Logger Size	12.000
Bit Size	12.000
Type Fluid in Hole	Water
Density	N/A
Viscosity	N/A
Max Rec Temp	0
Estimated Temp	N/A
Equipment	2.5 Mile Lake Worth WTP
Recorded By	Anderson, L.A.
Witnessed By	Mr. Bob Bowen

XY CALIPER
GAMMA RAY
LOGS

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

MAXIMUM Caliper Arm Extension: 33"

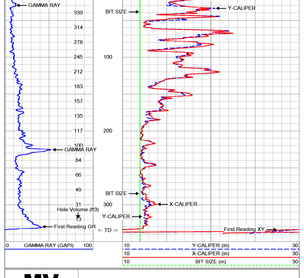
Drilling Contractor: All Webb Enterprises, Inc.

MAIN PASS

Database File: avwtref-1.db
Dataset Pathname: MAIN
Presentation Format: XY1030-1
Dataset Creation: Wed Jan 26 15:07:21 2005
Charted by: Depth in Feet scaled 1:1200

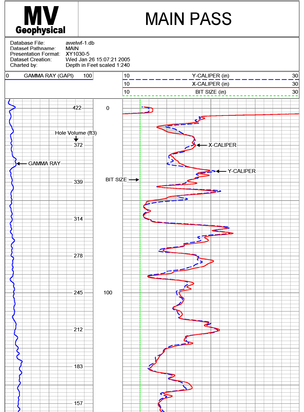
MAIN PASS

Database File: avwtref-1.db
Dataset Pathname: MAIN
Presentation Format: XY1030-5
Dataset Creation: Wed Jan 26 15:07:21 2005
Charted by: Depth in Feet scaled 1:600



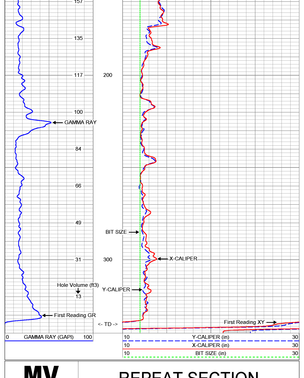
MAIN PASS

Database File: avwtref-1.db
Dataset Pathname: MAIN
Presentation Format: XY1030-5
Dataset Creation: Wed Jan 26 15:07:21 2005
Charted by: Depth in Feet scaled 1:240



REPEAT SECTION

Database File: avwtref-1.db
Dataset Pathname: REPEAT
Presentation Format: XY1030
Dataset Creation: Wed Jan 26 15:13:52 2005
Charted by: Depth in Feet scaled 1:240

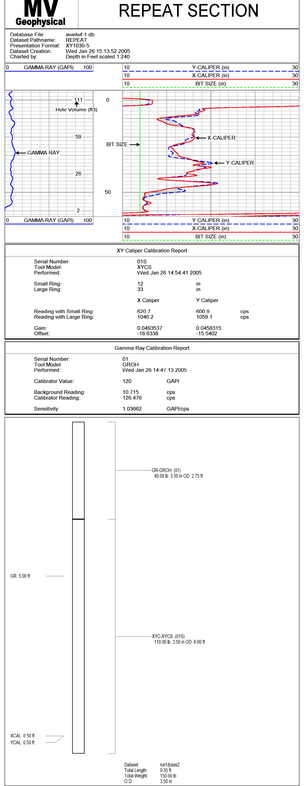


XY Caliper Calibration Report

Serial Number:	015		
Tool Model:	XYCS		
Performed:	Wed Jan 26 14:54:41 2005		
Small Ring:	12	in	
Large Ring:	33	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	620.7	600.9	cps
Reading with Large Ring:	1046.2	1059.1	cps
Gain:	0.0403537	0.0458315	
Offset:	-18.6338	-15.5402	

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GRCH	
Performed:	Wed Jan 26 14:47:13 2005	
Calibrator Value:	120	GAPI
Background Reading:	10.715	cps
Calibrator Reading:	126.476	cps
Sensitivity	1.03662	GAPI/cps



Dataset: repf15ses2
Total Length: 3.33 ft
Total Weight: 150.00 lb
O.D. 3.50 in

Company:	Lake Worth Utilities
Well:	2
Field:	Lake Worth
County:	Palm Beach
State/Province:	Florida
Country:	USA
Date:	2/2/2021
Time:	08:00
Log Number:	1
Run Number:	1
Depth Reference:	KB
Elevation:	0.00 ft
Permanent Datum:	Ground Level
Log Measured From:	KB
Drilling Measured From:	KB
Casing Driller:	0.00 ft @ 0.00 ft
Casing Logger:	0.00 ft
Bit Size:	0.00 in
Fluid Type:	Air
Density:	lb/gal
Viscosity:	s/qt
Fluid Loss:	cc/30min
Resistivity:	ohm-m @ deg F
Source:	Measured
Rm:	ohm-m @ deg F
Rmf:	ohm-m @ deg F
Rmc:	ohm-m @ deg F
Max Recorded Temp:	deg F
Equipment:	MV Geophysical Dual Induction Log
Recorded By:	Jeff Cox
Witnessed By:	Mr. Jeff Cox

Interpretations are based upon measurements obtained with standard or other measurements that we consider are fit for generating the opinions or conclusions of our interpretations. Interpretations are opinions based on inferences from electrical or other measurements, empirical relationships and assumptions regarding borehole and formation conditions and properties. We 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 or use made by us or our agents or employees. We make no warranty or representation, either expressed or implied, with respect to the fitness of our equipment for a particular purpose.

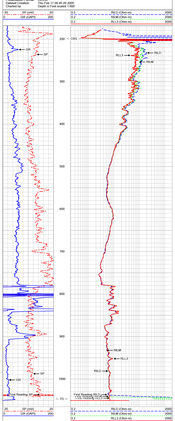
CAUTION

Rev-4 NO-DAM-M @ 81.4 degF

Drilling Contractor: All Webb Enterprises, Inc.

MAIN PASS

Operator: Lake Worth Utilities
Well: 2
Field: Lake Worth
County: Palm Beach
State: Florida
Country: USA
Date: 2/2/2021
Time: 08:00
Log Number: 1
Run Number: 1
Depth Reference: KB
Elevation: 0.00 ft
Permanent Datum: Ground Level
Log Measured From: KB
Drilling Measured From: KB
Casing Driller: 0.00 ft @ 0.00 ft
Casing Logger: 0.00 ft
Bit Size: 0.00 in
Fluid Type: Air
Density: lb/gal
Viscosity: s/qt
Fluid Loss: cc/30min
Resistivity: ohm-m @ deg F
Source: Measured
Rm: ohm-m @ deg F
Rmf: ohm-m @ deg F
Rmc: ohm-m @ deg F
Max Recorded Temp: deg F
Equipment: MV Geophysical Dual Induction Log
Recorded By: Jeff Cox
Witnessed By: Mr. Jeff Cox


MV Geophysical
Operator: Lake Worth Utilities
Well: 2
Field: Lake Worth
County: Palm Beach
State: Florida
Country: USA
Date: 2/2/2021
Time: 08:00
Log Number: 1
Run Number: 1
Depth Reference: KB
Elevation: 0.00 ft
Permanent Datum: Ground Level
Log Measured From: KB
Drilling Measured From: KB
Casing Driller: 0.00 ft @ 0.00 ft
Casing Logger: 0.00 ft
Bit Size: 0.00 in
Fluid Type: Air
Density: lb/gal
Viscosity: s/qt
Fluid Loss: cc/30min
Resistivity: ohm-m @ deg F
Source: Measured
Rm: ohm-m @ deg F
Rmf: ohm-m @ deg F
Rmc: ohm-m @ deg F
Max Recorded Temp: deg F
Equipment: MV Geophysical Dual Induction Log
Recorded By: Jeff Cox
Witnessed By: Mr. Jeff Cox
MAIN PASS
GR (GAPI) 0 200
RS (Ohm-m) 0.2 2000
RM (Ohm-m) 0.2 2000
RLL3 (Ohm-m) 0.2 2000
Casing 30"
Casing 20"
Casing 16"
Casing 10 3/4"
Casing 8 5/8"
Casing 5 1/2"
Casing 4 1/2"
Casing 3 1/2"
Casing 2 7/8"
Casing 2 3/8"
Casing 1 1/2"
Casing 1 1/4"
Casing 1"
Casing 3/4"
Casing 1/2"
Casing 3/8"
Casing 1/4"
Casing 1/8"
Casing 1/16"
Casing 1/32"
Casing 1/64"
Casing 1/128"
Casing 1/256"
Casing 1/512"
Casing 1/1024"
Casing 1/2048"
Casing 1/4096"
Casing 1/8192"
Casing 1/16384"
Casing 1/32768"
Casing 1/65536"
Casing 1/131072"
Casing 1/262144"
Casing 1/524288"
Casing 1/1048576"
Casing 1/2097152"
Casing 1/4194304"
Casing 1/8388608"
Casing 1/16777216"
Casing 1/33554432"
Casing 1/67108864"
Casing 1/134217728"
Casing 1/268435456"
Casing 1/536870912"
Casing 1/1073741824"
Casing 1/2147483648"
Casing 1/4294967296"
Casing 1/8589934592"
Casing 1/17179869184"
Casing 1/34359738368"
Casing 1/68719476736"
Casing 1/137438953472"
Casing 1/274877906944"
Casing 1/549755813888"
Casing 1/1099511627776"
Casing 1/2199023255552"
Casing 1/4398046511104"
Casing 1/8796093022208"
Casing 1/17592186044416"
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Casing 1/295147905179352825856"
Casing 1/590295810358705651712"
Casing 1/1180591620717411303424"
Casing 1/2361183241434822606848"
Casing 1/4722366482869645213696"
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Casing 1/23258839177459420497586242879185702223

Company: Lake Worth Utilities
Well: Lake Worth
Field: Lake Worth
County: Palm Beach
State: Florida
Date: 10/28/2005
Time: 10:00:00
Depth Unit: Feet
Time Constant: 1
Logging Speed: 30 FPM
Log Interval: 0.1 Feet
Tool Type: Caliper
Tool Serial Number: 1
Tool Length: 10 Feet
Tool Weight: 10 LBS
Tool Diameter: 1.75 Inches
Tool Calibration Date: 10/28/2005
Tool Calibration Number: 1
Tool Calibration Factor: 1.000
Tool Calibration Offset: 0.000
Tool Calibration Type: Air
Tool Calibration Temperature: 70 F
Tool Calibration Pressure: 14.7 PSI
Tool Calibration Humidity: 0 %
Tool Calibration Time: 10:00:00

MV Geophysical

Company	Lake Worth Utilities
Well	F-1
Field	Lake Worth
County	Palm Beach
State/Prov	Florida

Company: Lake Worth Utilities
Field: Lake Worth
County: Palm Beach
State/Prov: Florida

Location: City of Lake Worth
Lat & Longitude: N/A
Elevation: 10 ft
Datum: N/A
Elevation: 0 ft
Log Measured From: Ground Level
Drilling Measured From: Ground Level

XY CALIPER LOG

Date: Thursday, June 16, 2005
Time: 10:00:00 AM

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

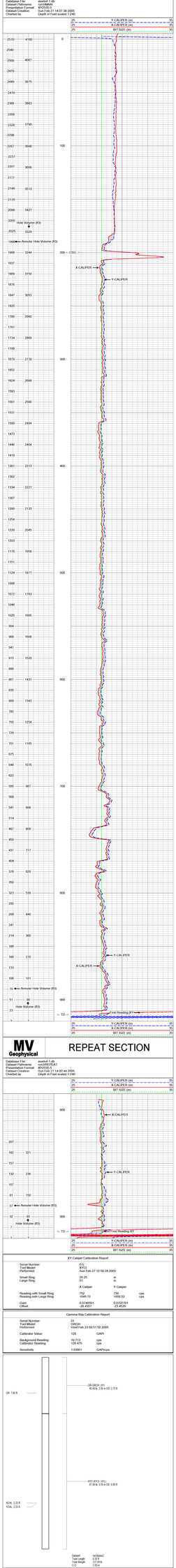
MAXIMUM Caliper Arm Extension: 51"

FUTURE CASING SIZE: 18"

Drilling Contractor: All Webb Enterprises, Inc.

MAIN PASS

Database File: swefed1.db
Dataset Pathname: KYCSWA
Presentation Format: KYCSCA
Dataset Creation: Sun Feb 27 14:07:36 2005
Charted by: Depth in Feet scaled 1:240



REPEAT SECTION

Database File: swefed1.db
Dataset Pathname: KYCSWA
Presentation Format: KYCSCA
Dataset Creation: Sun Feb 27 14:00:44 2005
Charted by: Depth in Feet scaled 1:240

XY Caliper Calibration Report

Serial Number:	031	
Tool Model:	XYCI	
Performed:	Wed Feb 23 08:51:50 2005	
Small Ring:	29.25	in
Large Ring:	51	in
	X Caliper	Y Caliper
Reading with Small Ring:	752	752 cps
Reading with Large Ring:	1045.72	1055.52 cps
Gain:	0.0140501	0.0127201
Offset:	-26.4357	-23.4526

Gamma Ray Calibration Report

Serial Number:	01	
Tool Model:	GR/CM	
Performed:	Wed Feb 23 09:51:50 2005	
Calibrator Value:	120	GAPI
Background Reading:	10.713	cps
Calibrator Reading:	126.475	cps
Sensitivity:	1.03061	GAPI/cps

Dataset: rar00pass2
Total Length: 0.35 ft
Total Time: 00:00:18
O.D.: 3.59 in

MV Geophysical

Company: Lake Worth Utilities
Well: F-1
Field: Lake Worth
County: Palm Beach
State: Florida

Date: 12/13/05
Time: 11:00
Depth Reference: Ground Level
Elevation: 0.00 m
Log Measured From: Ground Level
Permanent Datum: Ground Level
Drilling Measured From: Ground Level

Date: 12/13/05
Run No: Five
Depth Driller: 1500.0 m
Depth Logger: 1500.0 m
Depth Logged: 1500.0 m
Top Log Interval: 0.0 m
Bottom Log Interval: 1500.0 m
Casing Driller Size: 0.000 m @ 0.0 m
Casing Logger Size: 0.000 m @ 0.0 m
Bit Size: 0.000 m
Type Fluid in Hole: Fresh Water
Density: 1.000 g/cm³
Viscosity: 0.000 mPa.s
Fluid Level: 0.0 m
Max Rec Temp: 0.000 °C
Estimated Cement Top: 0.000 m
Equipment: 1500 m Mobile Lab
Operator: Chris Leahy
Witnessed By: Mr. Bob Scott, Mr. Ken Ward

Lake Worth Utilities
F-1
Lake Worth
Palm Beach
Florida

DUAL INDUCTION
LL3 SP
LOG

Comments

Run1.663 D+B54 @ 76.1 degF

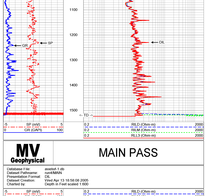
Drilling Contractor: All Weather Enterprises, Inc.

MV Geophysical

MV Geophysical is pleased to present its interpretation of the data measurements and we cannot and do not guarantee the accuracy or correctness of any interpretations we may make, and we shall not be liable for any loss or damage suffered by the customer or any other person or entity as a result of any interpretation made by us. Interpretations are based upon computer analysis and are intended to be only a general review and a guide to potential areas of interest. These interpretations are data subject to our general terms and conditions set out in our current price schedule and service agreement.

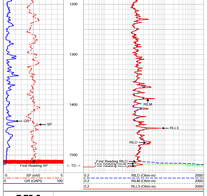
MAIN PASS

Datasource: F-1.dat
Dataset Pathname: run4/MAIN
Dataset Description: Dual Induction
Dataset Creation: Wed Apr 13 18:58:08 2005
Created by: Depth in Feet scaled 1:240



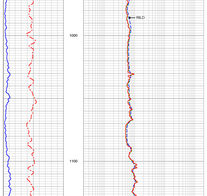
MAIN PASS

Datasource: F-1.dat
Dataset Pathname: run4/MAIN
Dataset Description: Dual Induction
Dataset Creation: Wed Apr 13 18:58:08 2005
Created by: Depth in Feet scaled 1:240



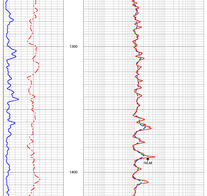
MAIN PASS

Datasource: F-1.dat
Dataset Pathname: run4/MAIN
Dataset Description: Dual Induction
Dataset Creation: Wed Apr 13 18:58:08 2005
Created by: Depth in Feet scaled 1:240



REPEAT SECTION

Datasource: F-1.dat
Dataset Pathname: run4/REPEAT
Dataset Description: Dual Induction
Dataset Creation: Wed Apr 13 18:39:48 2005
Created by: Depth in Feet scaled 1:240



Dual Induction Calibration Report

Serial Model: SI9M-R
Surface Cal Performed: Wed Apr 13 18:42:46 2005
Downhole Cal Performed: Wed Apr 13 18:10:12 2005
After Survey Verification Performed: Wed Apr 13 20:13:58 2005

Surface Calibration

	Readings			References		Results	
Loop:	Air	Loop		Air	Loop	m	b
Deep:	0.000	0.621	V	0.000	464.000	mmho-m	0.000
Medium:	0.000	0.750	V	0.000	464.000	mmho-m	0.000

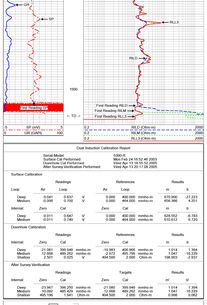
Internal:	Zero	Cal		Zero	Cal	m	b
Deep:	0.011	0.621	V	0.000	464.000	mmho-m	458.703
Medium:	0.011	0.749	V	0.000	464.000	mmho-m	610.012

Downhole Calibration

	Readings			References		Results	
Internal:	Zero	Cal		Zero	Cal	m	b
Deep:	23.982	309.590	mmho-m	19.993	468.590	mmho-m	1.014
Medium:	12.948	456.192	mmho-m	8.002	468.196	mmho-m	1.047
Shallow:	4.000	468.196	mmho-m	4.000	468.196	mmho-m	1.000

After Survey Verification

	Readings			Targets		Results	
Internal:	Zero	Cal		Zero	Cal	m	b
Deep:	23.982	309.250	mmho-m	23.982	309.590	mmho-m	1.014
Medium:	12.948	456.192	mmho-m	12.948	456.192	mmho-m	1.000
Shallow:	4.000	468.196	mmho-m	4.000	468.196	mmho-m	1.000



MV Geophysical

Contractor: Lehar Worth Utilities
Line: 3
Area: Lake Worth
Location: Palm Beach
County: Palm Beach
State: Florida

Date: 04/14/2005
Time: 07:00:00
Operator: Chad Hall
Recorder: Chad Hall
Operating System: Windows 98
Software: Geomaster 2.0.0.0
Sample Rate: 0.1 Sec
Sample Length: 1 Sec
Filter: 60 Hz Notch
Gain: 1
Magnetometer: Geometrics G-881
Magnetometer Sensor: 3 Meters
Magnetometer Offset: 0.0 Meters
Magnetometer Sensitivity: 0.1 Gamma
Magnetometer Base: 50000 Gamma
Magnetometer Tolerance: 1000 Gamma
Magnetometer Interval: 1 Sec
Magnetometer Mode: Total Field
Magnetometer Type: Cesium
Magnetometer Serial Number: 1
Magnetometer Software: Version 1.0
Magnetometer Firmware: Version 1.0
Fiducial Interval: 1 Sec
Fiducial Offset: 0 Sec
Fiducial Mode: Time
Fiducial Type: Manual
Fiducial Serial Number: 1
Fiducial Software: Version 1.0
Fiducial Firmware: Version 1.0
Fiducial Tolerance: 0.5 Sec
Fiducial Type: Manual
Fiducial Serial Number: 1
Fiducial Software: Version 1.0
Fiducial Firmware: Version 1.0
Fiducial Tolerance: 0.5 Sec

Comments

WARNING! Calgon Arm Extension 37'

Drilling Contractor: All Stars Enterprises, Inc.

MAIN PASS

Datatype: Fin
Datatype: Fin
Datum: NAVD88 US
Datum: NAVD88 US
Datum: NAVD88 US

Company	Lake Worth Utilities
Field	F.J.
Field	Lake Worth
County	Palm Beach
State/Prov	Florida

MV Geophysical

Company	Lake Worth Utilities
Field	F.J.
Field	Lake Worth
County	Palm Beach
State/Prov	Florida
Well	Lake Worth Utilities F.J. Consumptive Inc. Water
Date	1-APR-05
Time	11:45
Run	1
Log Type	Dynamic
Depth Type	Measured
Depth Reference	Top of Casing
Depth Reference Elevation	12
Depth Reference Elevation Units	Feet
Log Direction	Down
Log Interval	1000
Log Interval Units	Feet
Log Interval Direction	Down
Log Interval Reference	Top of Casing
Log Interval Reference Elevation	12
Log Interval Reference Elevation

MV Geophysical

Company	Lake Worth Utilities
Well	F-1
Field	Lake Worth
County	Palm Beach
State/Prov	Florida
Location	City of Lake Worth J.A Cooscoscos, Inc. Section 22 T 44 S R 43 E Palm Beach, Florida
Elevation	22'
Date	10/13/05
Time	10:00 AM
Depth Reference	Ground Level
Log Measured from	Ground Level
Drilling Measured from	Ground Level
Permanent Datum	Ground Level
Elevation	0.0 ft
Log Measured from	0.0 ft
Drilling Measured from	0.0 ft
Max. Rec. Temp.	0.0 C
Equipment	0 Miles
Recorded By	Jim Kirkpatrick
Witnessed By	Mr. Jim Cooscoscos
Run Number	ONE
Depth Driller	1500
Depth Logger	1500
Bottom Logged Interval	1500
Top Logged Interval	0
Casing Driller	0 @ 0
Casing Logger	0 @ 0
Bit Size	0
Type Fluid in Hole	Fresh Water
Density	0
Viscosity	0
Fluid Level	0
Max. Rec. Temp.	0 C
Estimated Cement Top	0
Time Logger on Bottom	0
Equipment	0 Miles
Recorded By	Jim Kirkpatrick
Witnessed By	Mr. Jim Cooscoscos

FLOWMETER LOG

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

STATIC and DYNAMIC down passes were made at 50 fpm.

1 Stations were performed.

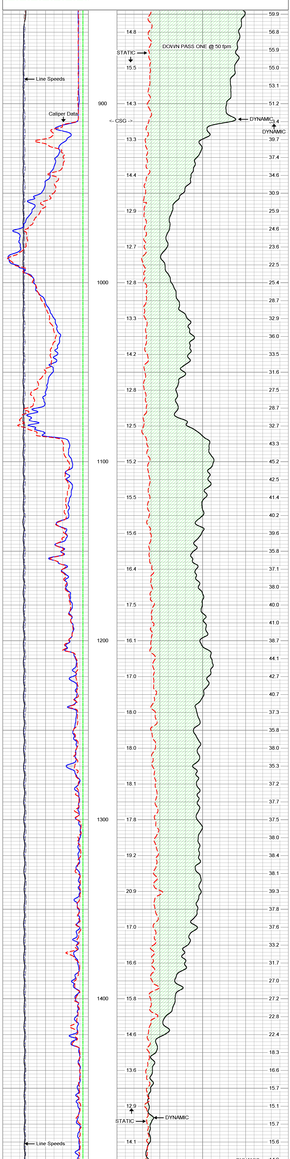
Q =1-500 gpm

Drilling Contractor: Ali Webb Enterprises, Inc.

MV Geophysical — S/D DOWN @ 50 fpm

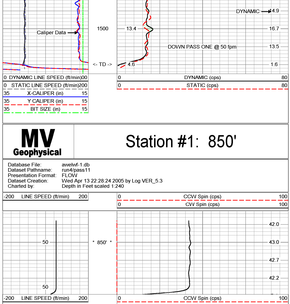
Database File: awelcwf.1.db
Dataset Pathname: run4CDD50
Presentation Format: FLOW
Dataset Creation: Wed Apr 13 21:59:23 2005
Charted by: Depth in Feet scaled 1:240

0 DYNAMIC LINE SPEED (ft/min)200
0 STATIC LINE SPEED (ft/min)200
35 X-CALIPER (in) 15
35 Y-CALIPER (in) 15
35 BIT SIZE (in) 15



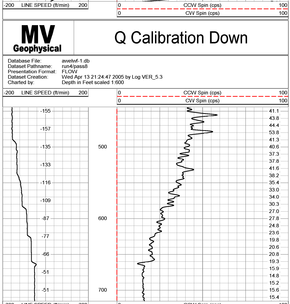
MV Geophysical — Station #1: 850'

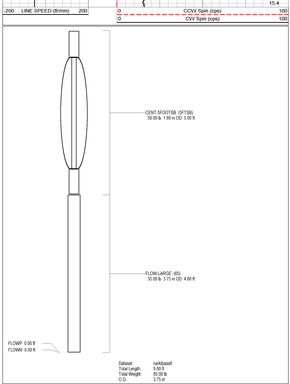
Database File: awelcwf.1.db
Dataset Pathname: run4cpass11
Presentation Format: FLOW
Dataset Creation: Wed Apr 13 22:28:24 2005 by Log VERL_5.3
Charted by: Depth in Feet scaled 1:240



MV Geophysical — Q Calibration Down

Database File: awelcwf.1.db
Dataset Pathname: run4cpass8
Presentation Format: FLOW
Dataset Creation: Wed Apr 13 21:24:47 2005 by Log VERL_5.3
Charted by: Depth in Feet scaled 1:600





Dataset run4cpass8
Total Length 9.00 ft
Total Weight 85.00 lb
O.D. 3.75 in