YOUNGQUIST BROADBENT

Company	FPAL
Field	Field
County	OCEC
State	OKEECHOBEE
Country	FLORIDA
Date	10-13-2017
Time	13:01:50
Operator	FPAL
Well	OCEC
County	OKEECHOBEE
State	FLORIDA
Location	SEC. 01 TWP. 36 S RGE. 35 E STATION 60 OFFSET 0
Elevation	G.L. 0.00 K.B. 0.00
Datum	DIAL 0.00

DUAL INDUCTION LOG

Run	Depth Driller	Depth Logged	Bottom Log Interval	Top Log Interval	Casing Driller	Casing Logged	Bit Size
1	1565	1565	1565	0	0	0	7.875

Run	Type Log	Date	Time	Max Rec Temp	Equip. Number	Location
1	DIL	10-13-2017	13:01:50	0	0	

Run	Equipment	Serial No.	Type	Hole Size	Depth	Weight	Viscosity	Fluid Loss	Source	RM	Rmf	Rmc	Max Rec Temp
1	DIL-C	1515		7.875	1565								

Run	Time Circulation Ended	Time Logger On Bottom	Unit Number	Location	Recorded By	Witnessed By
1			0			

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Comments

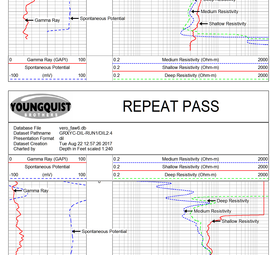
OTHER SERVICES

GAMMA RAY WITH X Y CALIPER

YOUNGQUIST BROADBENT

MAIN PASS

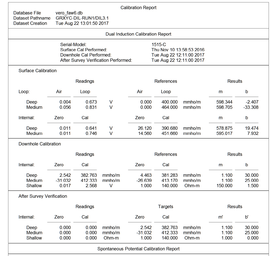
Database File veris_5ae6.db
Dataset Pathname GRXY/C-DIL-RUN1/DIL3.1
Presentation Format dil
Dataset Creation Tue Aug 22 13:01:50 2017
Charted by Depth in Feet scaled 1:600



YOUNGQUIST BROADBENT

MAIN PASS

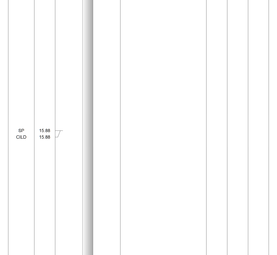
Database File veris_5ae6.db
Dataset Pathname GRXY/C-DIL-RUN1/DIL3.1
Presentation Format dil
Dataset Creation Tue Aug 22 13:01:50 2017
Charted by Depth in Feet scaled 1:240



YOUNGQUIST BROADBENT

MAIN PASS

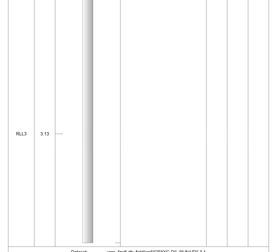
Database File veris_5ae6.db
Dataset Pathname GRXY/C-DIL-RUN1/DIL3.1
Presentation Format dil
Dataset Creation Tue Aug 22 13:01:50 2017
Charted by Depth in Feet scaled 1:240



YOUNGQUIST BROADBENT

REPEAT PASS

Database File veris_5ae6.db
Dataset Pathname GRXY/C-DIL-RUN1/DIL2.4
Presentation Format dil
Dataset Creation Tue Aug 22 12:57:26 2017
Charted by Depth in Feet scaled 1:240



Calibration Report

Database File veris_5ae6.db
Dataset Pathname GRXY/C-DIL-RUN1/DIL3.1
Dataset Creation Tue Aug 22 13:01:50 2017

Dual Induction Calibration Report

Serial Model	1515-C
Surface Cal Performed	Thu Nov 10 13:58:13 2016
Downhole Cal Performed	Tue Aug 22 12:11:06 2017
After Survey Verification Performed	Tue Aug 22 12:11:06 2017

Surface Calibration

	Readings			References		Results	
Loop	Air	Loop		Air	Loop	m	b
Deep	0.004	0.673	V	0.000	400.000	mmho/m	598.344	-2.407
Medium	0.056	0.831	V	0.000	464.000	mmho/m	598.705	-33.306
Internal	Zero	Cal		Zero	Cal	m	b
Deep	0.011	0.641	V	26.120	390.680	mmho/m	578.875	19.474
Medium	0.011	0.748	V	14.590	451.660	mmho/m	580.017	7.932

Downhole Calibration

	Readings			References		Results	
Internal	Zero	Cal		Zero	Cal	m	b
Deep	2.542	382.763	mmho/m	4.463	381.263	mmho/m	1.100	30.000
Medium	-31.032	412.333	mmho/m	-26.636	413.170	mmho/m	1.100	25.000
Shallow	0.017	2.566	V	1.000	140.000	Ohm-m	100.000	1.500

After Survey Verification

	Readings			Targets		Results	
Internal	Zero	Cal		Zero	Cal	m'	b'
Deep	0.000	0.000	mmho/m	-2.542	382.763	mmho/m	1.100	30.000
Medium	0.000	0.000	mmho/m	31.032	412.333	mmho/m	1.100	25.000
Shallow	0.000	0.000	Ohm-m	1.000	140.000	Ohm-m	1.000	0.000

Spontaneous Potential Calibration Report

Serial Number:	1515
Tool Model:	C
Performed:	Tue Aug 15 05:37:15 2017
Gain:	21.309

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
SP	15.88					
CILD	15.88					
CILM	12.08		DIL-C (1515)	23.67	3.50	175.00
RLL3	3.13					

Dataset: veris_5ae6.db: field/well/GRXY/C-DIL-RUN1/DIL3.1
Total length: 23.67 ft
Total weight: 175.00 lb
O.D.: 3.50 in

YOUNGQUIST BROTHERS

XY-CALIPER GAMMA-RAY LOG

Company	FP&L
Well	FA-6
Field	OCEC
County	OKEECHOBEE
State	FLORIDA

Permanent Datum	GL
Log Measured From	KB
Drilling Measured From	KB
Elevation	KB: 0 GL: 0
Location	SEC 17 TWP 37S RGE 37E
	STATE ROAD 710 MLM S 5
Other Services	SEE COMMENTS

Date	10-Aug-17
Run Number	ONE
Depth Driller	2.275
Depth Logger	2.275
Bottom Logged Interval	2.275
Top Log Interval	1.200
Casing Driller	1.200
Casing Logger	1.200
Bit Size	6.125
Type Fluid in Hole	WATER
Density	10.0
Viscosity	50
PH	7.5
Fluid Loss	N/A
Source of Sample	PITS
Rm @ Measured Temp	1.11 @ 75
Rmf @ Measured Temp	1.11 @ 75
Rmc @ Measured Temp	N/A @
Source: Rmf / Rmc	MEASURED /
Rm @ BHT	0.83 @ 2.275
Max Recorded Temp	2.275
Equipment Number	5-ANDERSON
Location	CLEWISTON
Recorded By	D. BUTLER
Witnessed By	MR. MIKE

Bottom Interval	2.275
Top Interval	1.200
Type Log	XY-CALIPER GAMMA-RAY

Comments

CALIPER MAX ARM READING 34"

OTHER SERVICES

DUAL INDUCTION WITH SP

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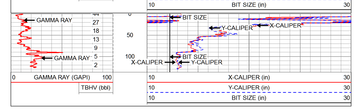
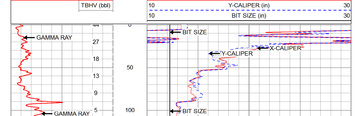
MAIN PASS

Database File vero_faw6.db
Dataset Pathname GRXYC-DIL-RUN1/GRXYC3
Presentation Format grxyc
Dataset Creation Tue Aug 22 11:10:58 2017
Charted by Depth in Feet scaled 1:200



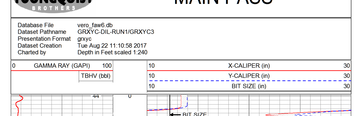
MAIN PASS

Database File vero_faw6.db
Dataset Pathname GRXYC-DIL-RUN1/GRXYC3
Presentation Format grxyc
Dataset Creation Tue Aug 22 11:10:58 2017
Charted by Depth in Feet scaled 1:600



MAIN PASS

Database File vero_faw6.db
Dataset Pathname GRXYC-DIL-RUN1/GRXYC3
Presentation Format grxyc
Dataset Creation Tue Aug 22 11:10:58 2017
Charted by Depth in Feet scaled 1:240



REPEAT PASS

Database File vero_faw6.db
Dataset Pathname GRXYC-DIL-RUN1/GRXYC2
Presentation Format grxyc
Dataset Creation Tue Aug 22 10:50:48 2017
Charted by Depth in Feet scaled 1:240

Calibration Report

Database File vero_faw6.db
Dataset Pathname GRXYC-DIL-RUN1/GRXYC3
Dataset Creation Tue Aug 22 11:10:58 2017

XY Caliper Calibration Report

Serial Number/Model: 46LM-XYCLM
Performed: Tue Aug 22 10:16:33 2017

Ring			X Caliper		Y Caliper	
1:	10	in	898.674	cps	944.891	cps
2:	20	in	1161.3	cps	1229.67	cps
3:	30	in	1482.5	cps	1566.22	cps
4:	34	in	1633.41	cps	1792.32	cps
5:		in		cps		cps
6:		in		cps		cps
7:		in		cps		cps
8:		in		cps		cps
9:		in		cps		cps
10:		in		cps		cps

Gamma Ray Calibration Report

Serial Number: 13
Tool Model: GROH
Performed: Fri Aug 04 07:59:24 2017

Calibrator Value: 69.0 GAPI

Background Reading: 5.5 cps
Calibrator Reading: 73.0 cps

Sensitivity: 1.0066 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	7.60		GR-GROH (13)	2.75	3.50	40.00
			XYC-XYCLM (46LM)	6.60	3.50	87.00
YCAL	1.50					
XCAL	1.50					

Dataset: vero_faw6.db: field/well/GRXYC-DIL-RUN1/GRXYC3
Total length: 9.35 ft
Total weight: 127.00 lb
O.D.: 3.50 in

YOUNGQUIST BROTHERS

XY-CALIPER GAMMA-RAY LOG

Company	FP&L
Well	FA-6
Field	OCEC
County	OKEECHOBEE
State	FLORIDA

Location: API # STATE ROAD 60 M.M. 5.5 SEC: TWP: RGE: Permanent Datum: Log Measured From: Drilling Measured From: Elevation: K.B. D.F. G.L.

Other Services: SEE COMMENTS

Run Number	ONE	TWO	THREE
Date	12/07		
Depth Driller	0		
Depth Logger	0		
Bottom Log Interval	0		
Top Log Interval	0		
Casing Driller Size @ Depth	SURFACE		
Casing Logger Size @ Depth	SURFACE		
Bit Size	6.5		
Type Fluid	WATER		
Density / Viscosity	0		
PH / Fluid Loss	0		
Source of Sample	MUD		
Rm @ Meas. Temp.	N/A		
Rmf @ Meas. Temp.	N/A		
Rmc @ Meas. Temp.	N/A		
Source: Rmf / Rmc	N/A		
Rm @ BHT	1000/HRS		
Time Since Circulation	111/HRS		
Time Logger on Bottom	111/HRS		
Equipment Number	ET 6/FEFERS		
Location	ST. LUCIE		
Recorded By	E. FEFERS		
Witnessed By	K.MILLER		

Run Number	Bit Size	Type Fluid	Density	Viscosity	Rm @ Meas. Temp.	Source of Sample	Rmf @ Meas. Temp.	Source: Rmf / Rmc
TWO	6.5	WATER	0	0	N/A	MUD	N/A	N/A

Run Number	Bit Size	From	To	Rm @ Meas. Temp.	Rmf @ Meas. Temp.	Rmc @ Meas. Temp.
ONE	6.5	0	124	N/A	N/A	N/A

Run Number	Bit Size	From	To
ONE	6.5	0	124

Logging Equipment: AGR-GR ZA 3017

Logging Unit Number: 1

Logging Company: YOUNGQUIST BROTHERS

Witnessed By: K. MILLER

Recorded By: E. FEFERS

Location: ST. LUCIE

Equipment Number: ET 6/FEFERS

Time Since Circulation: 111/HRS

Time Logger on Bottom: 111/HRS

Max Recorded Temp.: N/A

Equipment Location: Stacking Binoculars Pressure Gauge Linear

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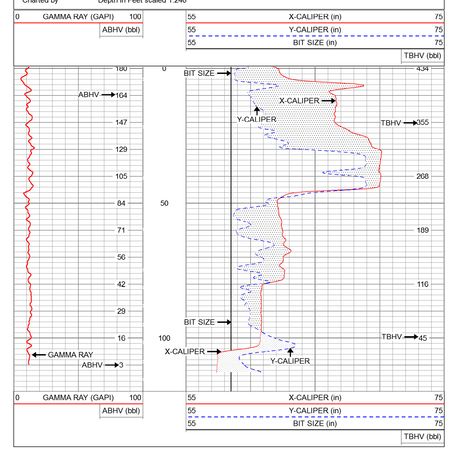
Comments

CALIPER MAX ARM READING 70.5"

YOUNGQUIST BROTHERS

MAIN PASS

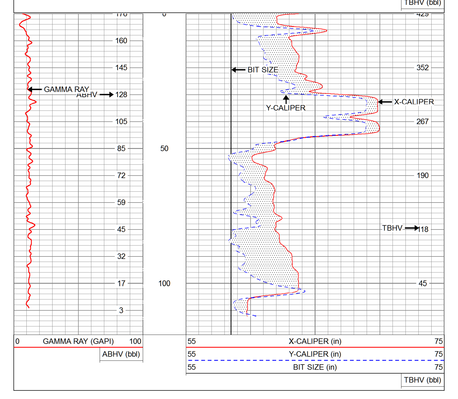
Database File vero_faw6.db
Dataset Pathname GRXYC-RUN2/GRXYC4
Presentation Format grxy-abhv
Dataset Creation Thu Aug 24 13:42:06 2017
Charted by Depth in Feet scaled 1:240



YOUNGQUIST BROTHERS

REPEAT PASS

Database File vero_faw6.db
Dataset Pathname GRXYC-RUN2/GRXYC3
Presentation Format grxy-abhv
Dataset Creation Thu Aug 24 13:24:12 2017
Charted by Depth in Feet scaled 1:240



Calibration Report

Database File vero_faw6.db
Dataset Pathname GRXYC-RUN2/GRXYC4
Dataset Creation Thu Aug 24 13:42:06 2017

XY Caliper Calibration Report

Serial Number/Model: 46LM-XYCLM
Performed: Thu Aug 24 13:13:51 2017

	Ring		X Caliper		Y Caliper	
1:	10	in	857.609	cps	897.935	cps
2:	20	in	971.196	cps	1010.76	cps
3:	30	in	1088.26	cps	1137.83	cps
4:	40	in	1217.39	cps	1272.28	cps
5:	50	in	1338.7	cps	1407.5	cps
6:	69	in	1599.02	cps	1788.91	cps
7:		in		cps		cps
8:		in		cps		cps
9:		in		cps		cps
10:		in		cps		cps

Gamma Ray Calibration Report

Serial Number:	13	
Tool Model:	GROH	
Performed:	Fri Aug 04 07:59:24 2017	
Calibrator Value:	69.0	GAPI
Background Reading:	5.5	cps
Calibrator Reading:	73.0	cps
Sensitivity:	1.0066	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	7.60		GR-GROH (13)	2.75	3.50	40.00
			XYC-XYCLM (46LM)	6.60	3.50	87.00
YCAL	1.50					
XCAL	1.50					

Dataset: vero_faw6.db: field/well/GRXYC-RUN2/GRXYC4
Total length: 9.35 ft
Total weight: 127.00 lb
O.D.: 3.50 in

YOUNGQUIST

Company	TPAL
Well	FKA
Field	OCIC
County	HARDEMAN
State	TEXAS
Location	Latitude: 34.0000000 Longitude: -99.9000000
Elevation	KB: 0 ft GL: 0 ft DF: 0 ft
Date	Mon Aug 28 07:07:06 2017
Time	Start: 07:07:06 Stop: 07:07:06 Total: 00:00:00
Depth	Start: 0.00 ft Stop: 0.00 ft Total: 0.00 ft
Logging Co.	YOUNGQUIST
Unit Number	5
Truck	5
Engineer	
Witnessed By	

DUAL INDUCTION LOG

Run	Bit	Casing	Depth Driller	Depth Logger	Top Log Int.	Bottom Log Int.	Type Fluid	Density	Viscosity	Fluid Level
1										

Source	Rm	Rmf	Rmc	Max Rec Temp	Equipment	Location

Recorded By	Witnessed By

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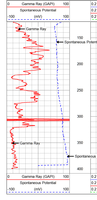
COMMENTS

OTHER SERVICES
XY CALIPER WITH GAMMA RAY

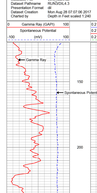
MAIN PASS

Database File: vers_5sec8.db
Dataset Pathname: IN:ROCKLA.5
Presentation Format: dir
Dataset Creation: Mon Aug 28 07:07:06 2017
Charted by: Depth in Feet scaled 1:200



MAIN PASS

Database File: vers_5sec8.db
Dataset Pathname: IN:ROCKLA.5
Presentation Format: dir
Dataset Creation: Mon Aug 28 07:07:06 2017
Charted by: Depth in Feet scaled 1:240

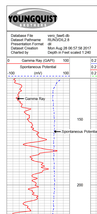


MAIN PASS

Database File: vers_5sec8.db
Dataset Pathname: IN:ROCKLA.5
Presentation Format: dir
Dataset Creation: Mon Aug 28 07:07:06 2017
Charted by: Depth in Feet scaled 1:480

REPEAT PASS

Database File: vers_5sec8.db
Dataset Pathname: IN:ROCKLA.5
Presentation Format: dir
Dataset Creation: Mon Aug 28 08:57:58 2017
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: vers_5sec8.db
Dataset Pathname: IN:ROCKLA.5
Dataset Creation: Mon Aug 28 07:07:06 2017

Dual Induction Calibration Report

Serial-Model	15242
Tool Model Performed	Mon Aug 28 13:56:53 2016
Overshot Cal Performed	Mon Aug 28 08:22:56 2017
After Survey Verification Performed	Mon Aug 28 08:22:56 2017

Surface Calibration

	Readings			References			Results		
	Low	Air		Low	Air		m	b	
Deep	0.054	0.673	V	0.000	400.000	mmhos/m	398.344	-2.407	
Medium	0.054	0.673	V	0.000	400.000	mmhos/m	398.755	-3.138	
	Zero	Cal		Zero	Cal		m	b	
Internal	0.011	0.641	V	36.128	380.680	mmhos/m	378.675	19.474	
Medium	0.011	0.746	V	14.380	451.680	mmhos/m	595.017	7.932	

Downhole Calibration

	Readings			References			Results		
	Zero	Cal		Zero	Cal		m	b	
Deep	2.505	362.201	mmhos/m	4.493	361.253	mmhos/m	1.100	40.050	
Medium	2.505	362.201	mmhos/m	4.493	361.253	mmhos/m	1.100	40.050	
Shallow	0.019	2.564	V	1.000	140.000	Ohm.m	150.000	2.000	

After Survey Verification

	Readings			Targets			Results		
	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	2.000	mmhos/m	2.505	362.253	mmhos/m	1.100	40.050	
Medium	0.000	2.000	mmhos/m	2.505	362.253	mmhos/m	1.100	40.050	
Shallow	0.000	0.000	Ohm.m	1.000	140.000	Ohm.m	1.000	0.000	

Spontaneous Potential Calibration Report

Serial Number	1515
Tool Model	C
Performed	Mon Aug 28 05:42:52 2017
Gain	15.000

Sensor	Offset (ft)	Schematic	Description	Length (ft) O.D. (in) Weight (lb)
SP	15.88			
CILD	15.88			
CILM	12.08		DIL-C (1515)	23.67 3.50 175.00
RLL3	3.13			

Dataset: vers_5sec8.db: fielded#IN:ROCKLA.5
Total length: 23.67 ft
Total weight: 175.00 lb
O.D.: 3.50 in

Company	FPAL	Company	FPAL
Well	FA-6	Well	FA-6
Field	OCEC	Field	OCEC
County	DIXIE/HOME	County	DIXIE/HOME
State	FLORIDA	State	FLORIDA
Permanent datum	GL	Log measured from	KB 14.0 ft above Permanent datum
Drilling measured from	KB	Elevations	KB 14.0 ft
Date	04-Jun-17		GL 0.0 ft
Run number	ONE		
Depth driller	400.0 ft		
Depth logger	400.0 ft		
Bottom logged interval	400.0 ft		
Top log interval	0.0 ft		
Casing driller size	54.000 in @ 0.0 ft		
Casing logger size			
Bit size	14.000 in		
Type fluid in hole	WATER		
Density / viscosity	1.0 g/cm3 / 0 s		
PH / fluid loss	7 / 0 cc		
Source of sample	PUMPED		
Rm @ Measured temp	0.0 ohm-m @ 0.0 degF		
Rmf @ Measured temp	0.0 ohm-m @ 0.0 degF		
Rmc @ Measured temp	0.0 ohm-m @ 0.0 degF		
Source Rmf / Rmc	MEASURED / MEASURED		
Rm @ BHT	0.0 ohm-m @ 0.0 degF		
Max recorded temp	0.0 degF		
Equipment / location	5 YOGANI		
Recorded by	R. BRAGG		
Witnessed by			

YOUNGQUIST GEOPHYSICS

X-CALIPER
GAMMA RAY
LOG

Comments

CALIPER MAX ARM READING 54"

OTHER SERVICES

DUAL INDUCTION WITH SP

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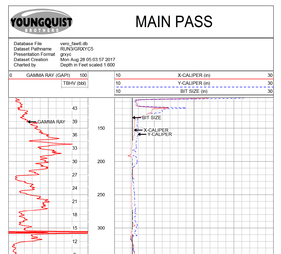
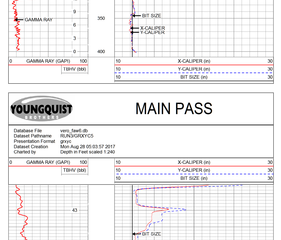
MAIN PASS

Database File: vers_fawf.db
Dataset Pathname: RUN3/GR3YC5
Presentation Format: gray
Dataset Creation: Mon Aug 28 05:03:57 2017
Charted by: Depth in Feet scaled 1:600



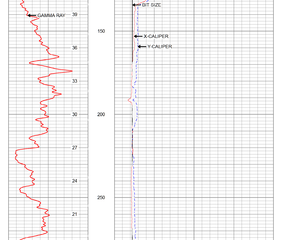
MAIN PASS

Database File: vers_fawf.db
Dataset Pathname: RUN3/GR3YC5
Presentation Format: gray
Dataset Creation: Mon Aug 28 05:03:57 2017
Charted by: Depth in Feet scaled 1:600



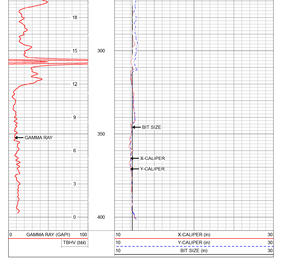
MAIN PASS

Database File: vers_fawf.db
Dataset Pathname: RUN3/GR3YC5
Presentation Format: gray
Dataset Creation: Mon Aug 28 05:03:57 2017
Charted by: Depth in Feet scaled 1:240



REPEAT PASS

Database File: vers_fawf.db
Dataset Pathname: RUN3/GR3YC4
Presentation Format: gray
Dataset Creation: Mon Aug 28 04:51:09 2017
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: vers_fawf.db
Dataset Pathname: RUN3/GR3YC5
Dataset Creation: Mon Aug 28 05:03:57 2017

XY Caliper Calibration Report

Serial Number/Model: 46UM-XYCLIM
Performed: Mon Aug 28 04:24:37 2017

Ring			X Caliper		Y Caliper	
1:	10	in	870.761	cps	910.652	cps
2:	20	in	1092.24	cps	1139.63	cps
3:	30	in	1194.24	cps	1277.03	cps
4:	40	in	1309.57	cps	1482.5	cps
5:	50	in	1601.41	cps	1714.85	cps
6:	54	in	1612.76	cps	1794.27	cps
7:	in			cps		cps
8:	in			cps		cps
9:	in			cps		cps
10:	in			cps		cps

Gamma Ray Calibration Report

Serial Number: GR-GRCH
Performed: Fri Aug 04 07:59:24 2017

Calibrator Value: 69.0 GAPI

Background Reading: 5.5 cps
Calibrator Reading: 73.0 cps

Sensitivity: 1.0066 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	7.60		GR-GRCH (13)	2.75	3.50	40.00
			XYC-XYCLM (46UM)	6.60	3.50	87.00
YCAL	1.50					
XCAL	1.50					

Dataset: vers_fawf.db: field/well/RUN3/GR3YC5
Total length: 8.35 ft
Total weight: 127.00 lb
O.D.: 3.50 in

Company	FP&L	Company	FP&L
Well	FA-6	Well	FA-6
Field	OCEC	Field	OCEC
County	OKEECHOBEE	County	OKEECHOBEE
State	FLORIDA	State	FLORIDA
Date	04-Dec-17	Location	SEC TWP RGE API # STATE BLK/LO
Time	10:14	Elevation	KB DF GL
Run Number	1	Other Services	
Depth Driller	9500 feet	COMMENTS	CALIPER MAX ARM READING 64"
Depth Logger	9500 feet		
Bottom Logged Interval	9500 feet		
Top Logged Interval	7 feet		
Drill Fluid Type	WATER		
Drill Fluid Level	Full		
Max. Recorded Temp.	0 C		
Estimated Cement Top	0 feet		
Time Logger on Bottom	0		
Equipment	2 - 2500PSI		
Recorded By	B. KAUFMAN		
Witnessed By	Mr. Mike Ramos		
Bit Size	6.125 in		
Bit Type	PDC		
Type Fluid in Hole	Salt Water		
Density	8.4 LB/G		
Viscosity	28 S		
PH	7.5		
Fluid Loss	N/A		
Source	N/A		
RM	0.5 @ 70 F		
RMF	0.5 @ 70 F		
RMC	0.5 @ 70 F		
Source RMF	MEASURED		
Source RMC	MEASURED		
RM @ BHT	0.3 @ 70 F		
Max. Rec. Temp.	0 C		
Equipment	2 - 2500PSI		
Location	30 MILES SOUTH OF LAKE OKEECHOBEE ON HIGHWAY 441		
Recorded By	B. KAUFMAN		
Witnessed By	Mr. Mike Ramos		

YOUNGQUIST BROTHERS GEOPHYSICS

XY-CALIPER GAMMA-RAY LOG

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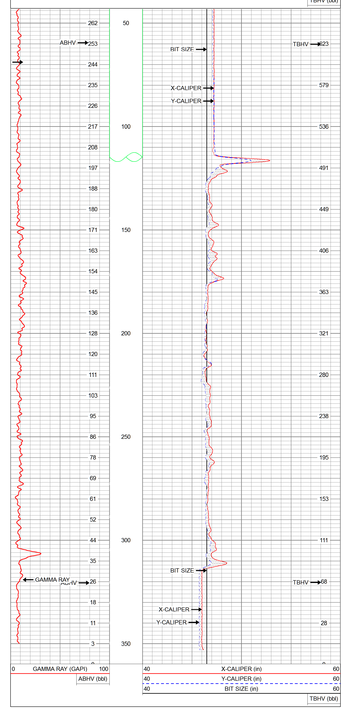
Comments

CALIPER MAX ARM READING 64"

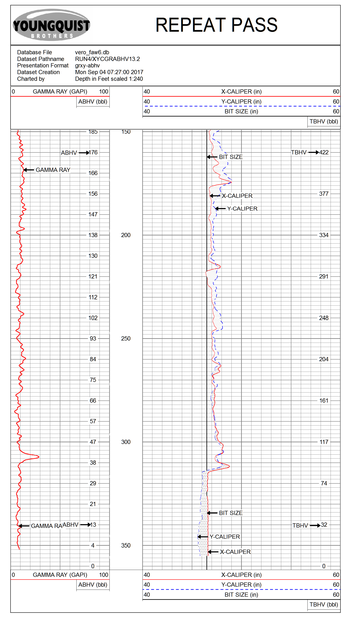
MAIN PASS

Database File vero_faw6.db
Dataset Pathname RUN4/XYCGRABHV12.1
Presentation Format gxy-abhv
Dataset Creation Mon Sep 04 07:10:14 2017
Charted by Depth in Feet scaled 1:240



REPEAT PASS

Database File vero_faw6.db
Dataset Pathname RUN4/XYCGRABHV13.2
Presentation Format gxy-abhv
Dataset Creation Mon Sep 04 07:27:00 2017
Charted by Depth in Feet scaled 1:240



Calibration Report

Database File vero_faw6.db
Dataset Pathname RUN4/XYCGRABHV12.1
Dataset Creation Mon Sep 04 07:10:14 2017

XY Caliper Calibration Report

Serial Number/Model: 14LM-XYCLM
Performed: Mon Sep 04 06:36:00 2017

Ring			X Caliper		Y Caliper	
1:	10	in	618.696	cps	594.022	cps
2:	20	in	810.378	cps	779.459	cps
3:	30	in	1031.14	cps	1000.3	cps
4:	40	in	1262.93	cps	1218.37	cps
5:	47.25	in	1466.66	cps	1446.31	cps
6:	50	in	1512.5	cps	1506.09	cps
7:	64	in	1932.28	cps	1905.54	cps
8:		in		cps		cps
9:		in		cps		cps
10:		in		cps		cps

Gamma Ray Calibration Report

Serial Number: 13
Tool Model: GROH
Performed: Fri Aug 04 07:59:24 2017

Calibrator Value: 69.0 GAPI

Background Reading: 5.5 cps
Calibrator Reading: 73.0 cps

Sensitivity: 1.0066 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	7.60		GR-GROH (13)	2.75	3.50	40.00
			XYC-XYCLM (14LM)	6.60	3.50	87.00
YCAL	1.50					
XCAL	1.50					

Dataset: vero_faw6.db: field/web/RUN4/XYCGRABHV12.1
Total length: 9.35 ft
Total weight: 127.00 lb
O.D.: 3.50 in

Company	FP&L		
Well	FA-6		
Field	OCEC		
County	OKEECHOBEE		
State	FLORIDA		
LOCATION:	SEC. 17 TWP. 37 RGE. 30	Other Services:	SEE COMMENTS
		Permanent Datum:	PAD
		Log Measured From:	PAD
		Drilling Measured From:	PAD
		Elevation: K.B.	
		D.F.	
		G.L.	
Date:	SEPTEMBER 26, 2017		
Run Number:	ONE		
Depth Driller:	8127		
Depth Logger:	8126		
Bottom Logged Interval:	8124		
Top Log Interval:	SURFACE		
Casing Driller:	8127		
Casing Logger:	8124		
Bit Size:	7.875		
Type Fluid in Hole:	NA		
Density:	NA		
Viscosity:	NA		
Max Recorded Temp:	200		
Estimated Surface Temp:	80		
Time Since Circulation:	08:00		
Time Logger on Bottom:	08:00		
Unit Number:	2108		
Location:	FT MYERS		
Recorded By:	E. MARTIN		
Witnessed By:	J. DIXON	R. THERSON	

FLUID CONDUCTIVITY
TEMPERATURE LOG

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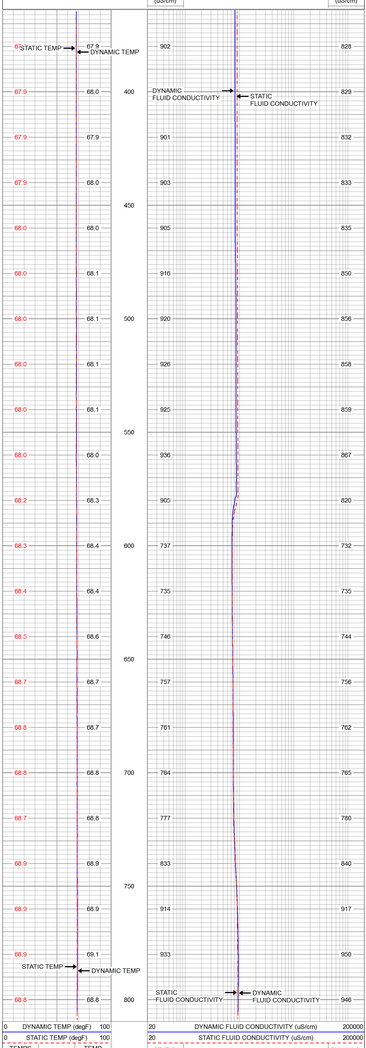
Comments

OTHER SERVICES
XY CALIPER WITH GAMMA
DUAL INDUCTION WITH S/P
MERGED FLOW LOG

MERGED FCT

Database File	vero_faw6.db
Dataset Pathname	RUN5/FCT5
Presentation Format	fct_merg
Dataset Creation	Tue Sep 26 15:35:28 2017
Charted by	Depth in Feet scaled 1:240



Calibration Report

Database File	vero_faw6.db
Dataset Pathname	RUN5/FCT5
Dataset Creation	Tue Sep 26 15:35:28 2017

Inclinometer Calibration Report

Performed: (Not Performed)

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer					

Temperature Calibration Report

Serial Number:	Proto1	
Tool Model:	Probe	
Performed:	Wed Nov 02 18:05:33 2016	
	Reference	Reading
Low Reference:	32.00 degF	657.70
High Reference:	212.00 degF	12597.20
Gain:	0.01	
Offset:	22.08	
Delta Spacing	1	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			BARS-1.68	7.00	1.68	50.00
ACCZ	3.92					
ACCY	3.92					
ACCX	3.92					
F_COND	2.92		FCOND-Probe (Proto1) Fluid Conductivity Tool	5.00	1.69	
TEMP	1.50					
FDIR	0.29					
FRATE	0.29					

Dataset:	vero_faw6.db: field/well/RUN5/FCT5
Total length:	12.00 ft
Total weight:	50.00 lb
O.D.:	1.69 in

XY-CALIPER GAMMA-RAY LOG

YOUNGQUIST BROTHERS

Company	FP&L
Well	FA-6
Field	OCEC
County	OKEECHOBEE
State	FLORIDA

Company FP&L
Well FA-6
Field OCEC
County OKEECHOBEE State FLORIDA

Location: STATE ROAD 60 M.M. 5.5 API # :

SEC TWP RGE

Other Services: SEE COMMENTS

Permanent Datum	PAD	Elevation	
Log Measured From	PAD		K.B.
Drilling Measured From	PAD		D.F.
			G.L.

Date	SEPTEMBER 26, 2017		
Run Number	FIVE		
Depth Driller	811'		
Depth Logger	812'		
Bottom Logged Interval	812'		
Top Log Interval	SURFACE		
Open Hole Size	14.75"		
Type Fluid	H20		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	NA		
Time Well Ready	0800 HRS		
Time Logger on Bottom	0951 HRS		
Equipment Number	107		
Location	FT MYERS		
Recorded By	E. ANDERSON	J. DIXON	R. PIERSON
Witnessed By	C. SMITH		

Borehole Record				Borehole Record			
Run Number	Bit	From	To	Run No	Bit	From	To
ONE	12.25"	0'	136'	FIVE	14.75"	360'	811'
TWO	58.5"	0'	117'				
THREE	12.25"	117'	407'				
FOUR	46.5"	117'	360'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	.375"	0'	117'
Prot. String	36"	.5"	0'	357'
Production String				
Liner				

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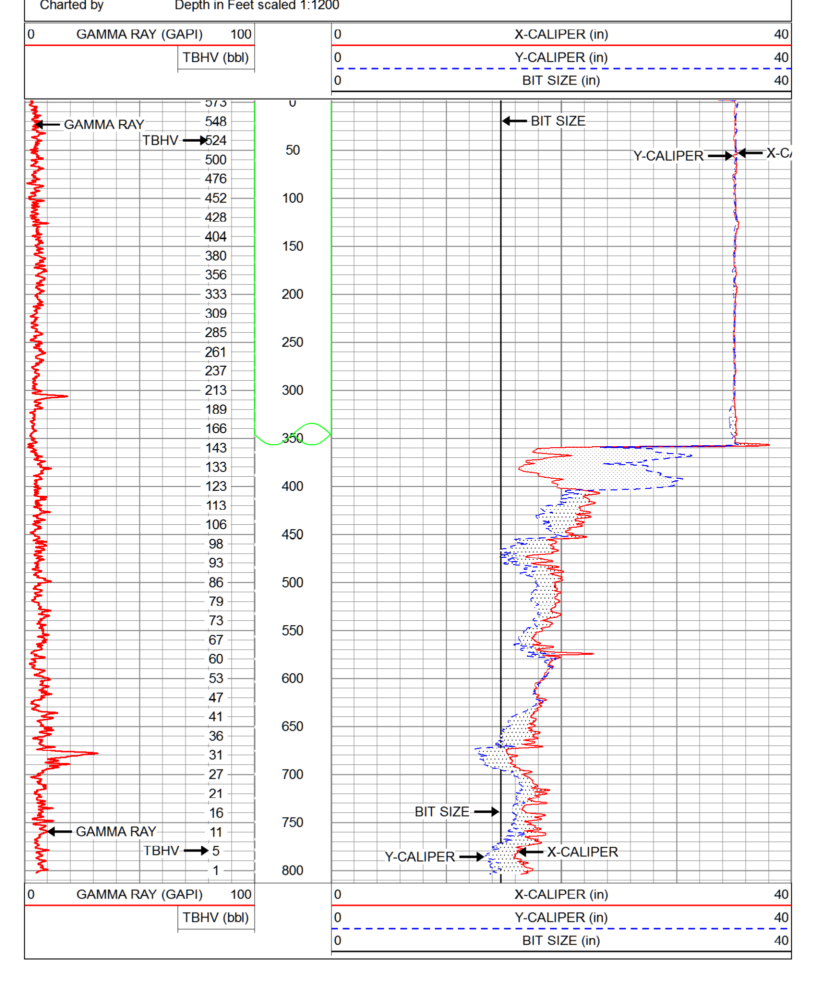
Comments

CALIPER MAX ARM READING 38"

OTHER SERVICES
DUAL INDUCTION WITH S/P
FLUID CONDUCTIVITY
FLOW LOG

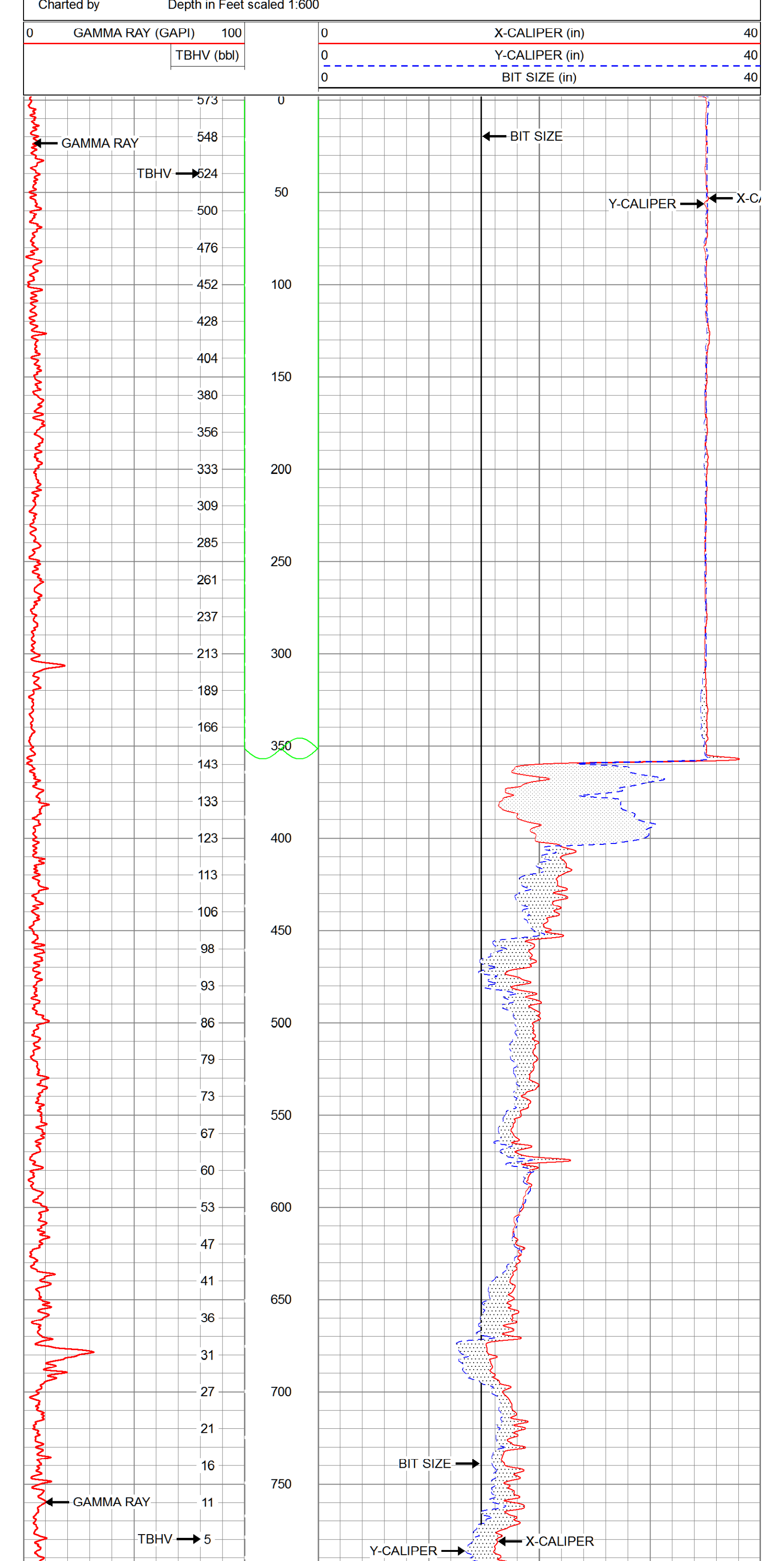
MAIN PASS

Database File	vero_faw6.db
Dataset Pathname	RUN5/XYCGR2.3
Presentation Format	grxyc
Dataset Creation	Tue Sep 26 10:50:07 2017
Charted by	Depth in Feet scaled 1:1200



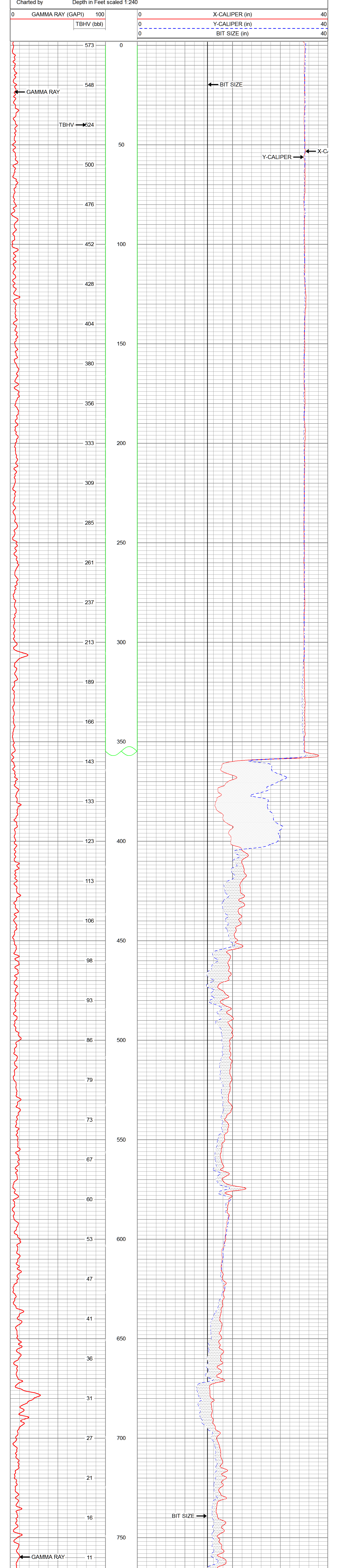
MAIN PASS

Database File	vero_faw6.db
Dataset Pathname	RUN5/XYCGR2.3
Presentation Format	grxyc
Dataset Creation	Tue Sep 26 10:50:07 2017
Charted by	Depth in Feet scaled 1:600



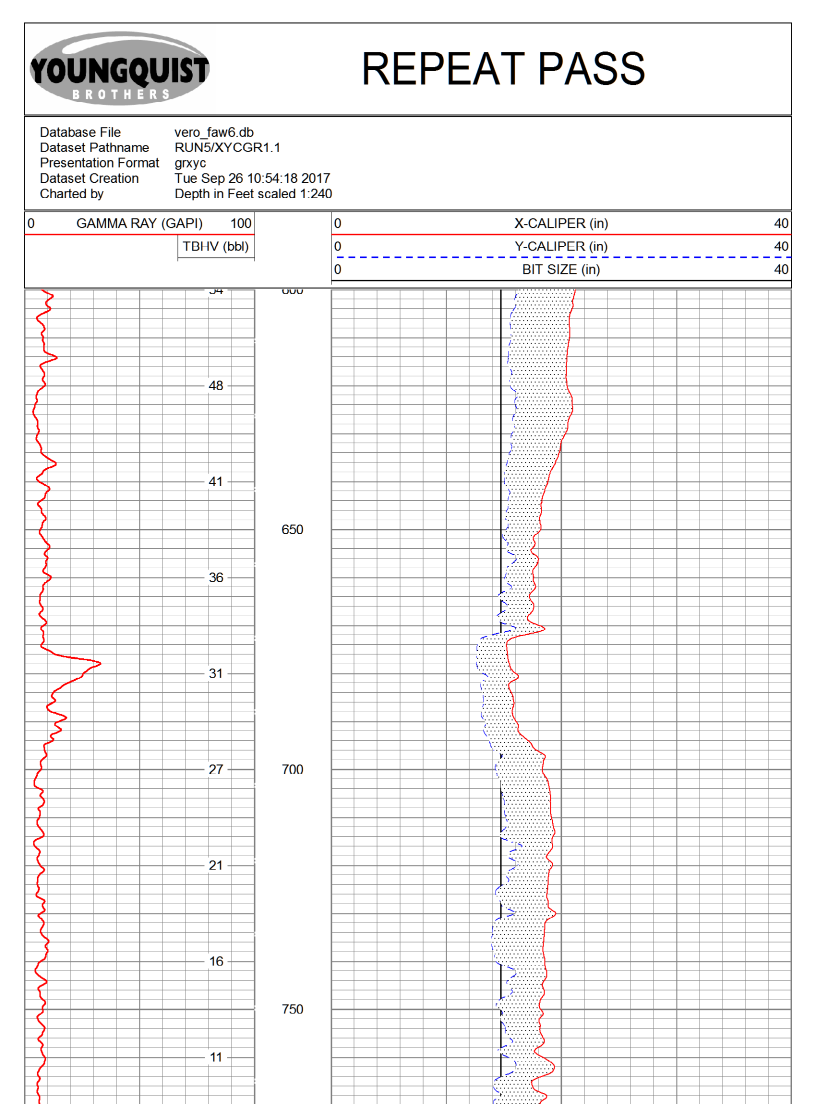
MAIN PASS

Database File	vero_faw6.db
Dataset Pathname	RUN5/XYCGR2.3
Presentation Format	grxyc
Dataset Creation	Tue Sep 26 10:50:07 2017
Charted by	Depth in Feet scaled 1:240



REPEAT PASS

Database File	vero_faw6.db
Dataset Pathname	RUN5/XYCGR1.1
Presentation Format	grxyc
Dataset Creation	Tue Sep 26 10:54:18 2017
Charted by	Depth in Feet scaled 1:240



Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	7.60		GR-GROH (13)	2.75	3.50	40.00
YCAL XCAL	3.50 3.50		XYC-XYCSM (14SM)	6.60	3.50	87.00

Dataset: vero_faw6.db: field/well/RUN5/XYCGR2.3
Total length: 9.35 ft
Total weight: 127.00 lb
O.D.: 3.50 in

Calibration Report

Database File	vero_faw6.db
Dataset Pathname	RUN5/XYCGR2.3
Dataset Creation	Tue Sep 26 10:50:07 2017

XY Caliper Calibration Report

Serial Number/Model: 14SM-XYCSM
Performed: Tue Sep 26 10:24:40 2017

Ring		X Caliper		Y Caliper	
1: 10	in	688.913	cps	771.196	cps
2: 20	in	1066.09	cps	1141.63	cps
3: 30	in	1503.46	cps	1589.73	cps
4: 35	in	1815.57	cps	1773.71	cps
5: 38	in	1929.35	cps	1910.76	cps
6:	in		cps		cps
7:	in		cps		cps
8:	in		cps		cps
9:	in		cps		cps
10:	in		cps		cps

Gamma Ray Calibration Report

Serial Number:	13	
Tool Model:	GROH	
Performed:	Fri Aug 04 07:59:24 2017	
Calibrator Value:	69.0	GAPI
Background Reading:	5.5	cps
Calibrator Reading:	73.0	cps
Sensitivity:	1.0066	GAPI/cps

Company	PPAL
Well	OCEC
Field	OCEC
County	CHEECHAWKEE
State	FLORIDA
Elevation	
Permanent Datum	GL
Log Measured From	KB
Drilling Measured From	KB
Date	11-Feb-2017
Run Number	ONE
Depth Driller	23.00 ft
Depth Logger	23.00 ft
Bottom Log Interval	23.00 ft
Top Log Interval	0.00 ft
Casing Driller	0.00 @ 0.00 ft
Casing Logger	0.00 @ 0.00 ft
Bit Size	0.00 in
Type Fluid in the Hole	
Density	
Viscosity	
pH	
Fluid Loss	
Source of Sample	
Rm @ Measured Temp	
Rmf @ Measured Temp	
Rmc @ Measured Temp	
Source Rmf / Rmc	
Rm @ BHT	
Max Recorded Temp	
Equipment	CHEECHAWKEE
Location	
Recorded By	
Witnessed By	

YOUNGQUIST

DUAL INDUCTION
LOG WITH GR

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CUSTOMER

OTHER SERVICES
XY CALIPER WITH GAMMA
FLUID CONDUCTIVITY
FLOW

MAIN PASS

Database File: nerc fall.db
Dataset Pathname: ow/OCEC.2
Presentation Format: dil
Dataset Creation: Wed Sep 27 21:25:36 2017
Charted by: Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 150	0.2	Medium Resistivity (Ohm.m)	2000
100 Spontaneous Potential (mV) 100	0.2	Shallow Resistivity (Ohm.m)	2000
	0.2	Deep Resistivity (Ohm.m)	2000

MAIN PASS

Database File: nerc fall.db
Dataset Pathname: ow/OCEC.2
Presentation Format: dil
Dataset Creation: Wed Sep 27 21:25:36 2017
Charted by: Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 150	0.2	Medium Resistivity (Ohm.m)	2000
100 Spontaneous Potential (mV) 100	0.2	Shallow Resistivity (Ohm.m)	2000
	0.2	Deep Resistivity (Ohm.m)	2000

MAIN PASS

Database File: nerc fall.db
Dataset Pathname: ow/OCEC.2
Presentation Format: dil
Dataset Creation: Wed Sep 27 21:25:36 2017
Charted by: Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 150	0.2	Medium Resistivity (Ohm.m)	2000
100 Spontaneous Potential (mV) 100	0.2	Shallow Resistivity (Ohm.m)	2000
	0.2	Deep Resistivity (Ohm.m)	2000

MAIN PASS

Database File: nerc fall.db
Dataset Pathname: ow/OCEC.2
Presentation Format: dil
Dataset Creation: Wed Sep 27 21:25:36 2017
Charted by: Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 150	0.2	Medium Resistivity (Ohm.m)	2000
100 Spontaneous Potential (mV) 100	0.2	Shallow Resistivity (Ohm.m)	2000
	0.2	Deep Resistivity (Ohm.m)	2000

REPEAT PASS

Database File: nerc fall.db
Dataset Pathname: rw/OCEL.1
Presentation Format: dil
Dataset Creation: Wed Sep 27 21:34:09 2017
Charted by: Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 150	0.2	Medium Resistivity (Ohm.m)	2000
100 Spontaneous Potential (mV) 100	0.2	Shallow Resistivity (Ohm.m)	2000
	0.2	Deep Resistivity (Ohm.m)	2000

Calibration Report

Database File: nerc fall.db
Dataset Pathname: rw/OCEL
Dataset Creation: Wed Sep 27 19:46:44 2017

Dual Induction Calibration Report

Serial-Model: 0806-C
Surface Cal Performed: Tue Jan 26 14:46:53 2010
Internal Cal Performed: Wed Sep 27 19:12:14 2017
After Survey Verification Performed: Wed Sep 27 19:12:44 2017

Surface Calibration

	Readings			References			Results		
Loop	Air	Loop		Air	Loop		m	b	
Deep	-0.036	0.636	V	0.000	400.000	mmho/m	592.952	21.530	
Medium	0.031	0.837	V	0.000	464.000	mmho/m	575.736	17.936	
Internal	Zero	Cal		Zero	Cal		m	b	
Deep	0.007	0.628	V	26.524	401.760	mmho/m	597.121	16.956	
Medium	0.009	0.748	V	12.740	427.710	mmho/m	581.375	7.916	

Downhole Calibration

	Readings			References			Results		
Internal	Zero	Cal		Zero	Cal		m	b	
Deep	24.534	425.580	mmho/m	16.269	388.610	mmho/m	0.921	-3.305	
Medium	16.548	431.730	mmho/m	7.932	403.710	mmho/m	0.948	15.000	
Shallow	0.027	0.420	V	1.000	120.000	mmho/m	310.988	10.470	
After Survey Verification									
	Readings			Targets			Results		
Internal	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	24.534	425.580	mmho/m	0.921	-3.305	
Medium	0.000	0.000	mmho/m	16.548	431.730	mmho/m	0.948	15.000	
Shallow	0.000	0.000	mmho/m	1.000	120.000	mmho/m	1.000	0.000	

Spontaneous Potential Calibration Report

Serial Number: 0806
Tool Model: C
Performed: Wed Sep 27 19:21:31 2017

Gain: -28.299

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
SP	15.88					
RWLD	15.88					
CILD	15.88					
RWLM	12.08		DIL-C (0806)	23.07	3.50	175.00
CILM	12.08					
RWLL	3.13					
MILS	3.13					
CLLS	3.13					

Dataset: nerc fall.db: field/wellform/DOIL1
Total length: 23.07 ft
Total weight: 175.00 lb
O.D.: 3.50 in

YOUNGQUIST

MERGED FLOW LOG

Company	FP&L	Company	FP&L
Well	PA-6	Well	PA-6
Field	CCC	Field	CCC
County	OKEECHOBEE	County	OKEECHOBEE
State	FLORIDA	State	FLORIDA
Permanent Datum:	GL	Log Measured From:	KB 8
Log Measured From:	KB 8	Drilling Measured From:	GL
Drilling Measured From:	GL	API #:	
Date	01-Nov-2017	Location:	Other Services:
Run Number	ONE		COMBO FLOW
Depth Driller	1240		
Depth Logger	1240		
Bottom Log Interval	1240		
Top Log Interval	SURF		
Casing Driller	20 @ 0		
Casing Logger	20 @ 0		
Bit Size	8		
Type Fluid in Hole	FRESH		
Density / Viscosity	8.4 / 28		
PH / Fluid Loss	7.0 / 0		
Source of Sample	PUMP		
Rm @ Measured Temp	0.08 @ 70		
Rmf @ Measured Temp	0.08 @ 70		
Rmc @ Measured Temp	0.08 @ 70		
Source: Rmf / Rmc	MEAS / MEAS		
Rm @ BHT	0.08		
Time Since Circulation	2 HRS		
Time Since Stop Drilling	2 HRS		
Max Recorded Temp	70		
Equipment - Location	5 - FIELD		
Recorded By	J. DOWNS		
Witnessed By	M. FIELDS		

*** Field Data ***

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

OTHER SERVICES
XY CALIPER WITH GAMMA
DUAL INDUCTION WITH SP
FLUID CONDUCTIVITY / TEMPERATURE LOG

DYNAMIC FLOW RATE 474gpm

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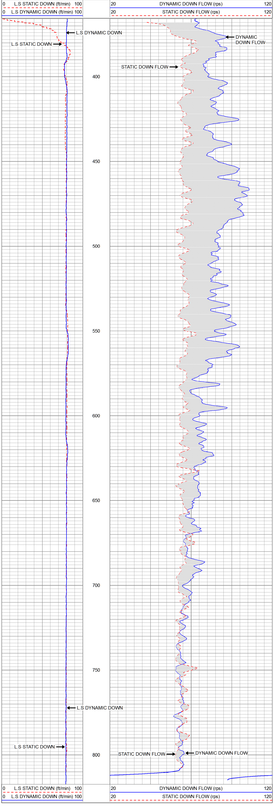
MERGED FLOW LOG

Database File: vero_fswf.db
Dataset Pathname: RUN5/FCT4.6
Presentation Format: flow_merge_down
Dataset Creation: Tue Sep 26 16:56:41 2017
Charted by: Depth in Feet scaled 1:240



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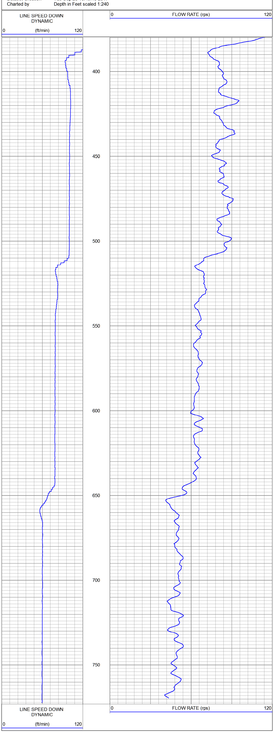
FLOW CALS DOWN

Database File: vero_fswf.db
Dataset Pathname: RUN5/FCT5.5
Presentation Format: flow_cals_down
Dataset Creation: Tue Sep 26 16:49:13 2017
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: vero_fswf.db
Dataset Pathname: RUN5/FCT4.3
Dataset Creation: Tue Sep 26 15:27:42 2017

Inclinometer Calibration Report

Performed: (Not Performed)

	Low Read:	High Read:	Low Ref:	High Ref:	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer					

Temperature Calibration Report

Serial Number: Probe1
Tool Model: Probe
Performed: Wed Nov 02 18:05:33 2016

	Reference	Reading
Low Reference:	32.00 degF	657.70
High Reference:	212.00 degF	1259F.20

Gain: 0.01
Offset: 22.08
Delta Spacing: 1

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			BARS-1.68	7.00	1.68	50.00
ACCZ	3.92					
ACCY	3.92					
ACCX	3.92					
F_COND	2.92		FCOND Probe (Probe1) Fluid Conductivity Tool	5.00	1.69	
TEMP	1.50					
FDIR	0.29					
FRATE	0.29					

Dataset: vero_fswf.db: field/we6/RUN5/FCT4.3
Total length: 12.00 ft
Total weight: 50.00 lb
O.D. 1.69 in