Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1159227

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3882
Name: Samuel Gary Jr. & Associates, Inc.
Address 1: 1515 WYNKOOP, STE 700
Address 2:
City: DENVER State: CO Zip: 80202 + ____
Contact Person: CLAYTON CAMOZZI
Phone: (303) 831-4673
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: TIM HEDRICK
Purchaser:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☑ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

6/1/2013	6/7/2013	6/8/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26515-00-00
Spot Description:
_ - N2 - N2 - SE Sec. 15 Twp. 12 S. R. 17 ☐ East ☑ West
2310 Feet from ☐ North / ☑ South Line of Section
1320 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ellis
Lease Name: SCHMEIDLER ET AL Well #: 2-15
Field Name:
Producing Formation: N/A
Elevation: Ground: 2135 Kelly Bushing: 2143
Total Vertical Depth: 3756 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1031 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 65000 ppm Fluid volume: 480 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: KARLIN, GENE DBA GENE KARLIN COMPANY
Lease Name: NUSS License #: 3444
Quarter SW Sec. 5 Twp. 13 S. R. 17 ☐ East ☑ West
County: ELLIS Permit #: D25588

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☑ **Confidentiality Requested**
Date: 09/20/2013
☑ **Confidential Release Date:** 09/20/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 09/25/2013

1159227

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: SCHMEIDLER ET AL Well #: 2-15

Sec. 15 Twp. 12 S. R. 17 ☐ East ☑ West County: Ellis

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
TOPEKA	3093	-950
HEEBNER	3332	-1189
DOUGLAS	3367	-1224
LANSING	3377	-1234
ARBUCKLE	3642	-1499
TD	3756	

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	23	1031	COMMON CLASS A	400	2% GEL, 3% CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	SCHMEIDLER ET AL 2-15
Doc ID	1159227

All Electric Logs Run

DIL
MICRO
POR
SONIC
SPECTRAL

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

September 20, 2013

CLAYTON CAMOZZI
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-051-26515-00-00
SCHMEIDLER ET AL 2-15
SE/4 Sec.15-12S-17W
Ellis County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
CLAYTON CAMOZZI

QUALITY OILWELL CEMENTING, INC.
PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone:785-324-1041 fax:785-483-1087
Email: cementing@ruraltel.net

Date: 6/3/2013
Invoice # 49

P.O.#:

Due Date: 7/3/2013
Division: *Russell*

Invoice

☑ DRLG ☐ COMP ☐ W/O ☐ LOE ☐ GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	
Description	

Contact:
Samuel Gary Jr & Associates Inc
Address/Job Location:
Samuel Gary Jr & Associates Inc
1815 11th Street
Great Bend, KS 67530

RECEIVED
JUN 07 2013
SAMUEL GARY JR.
& ASSOCIATES, INC.

Reference:
SCHMEIDLER 2-15

Description of Work:
LONG SURFACE JOB

Services / Items Included:

	Quantity	Price	Taxable
Labor		$ 1,020.55	No
Common-Class A	400	$ 5,606.12	Yes
8 5/8" Basket	3	$ 1,059.53	Yes
Bulk Truck Matl-Material Service Charge	422	$ 943.29	No
Calcium Chloride	14	$ 745.74	Yes
8 5/8" Centralizer	3	$ 214.59	Yes
Pump Truck Mileage-Job to Nearest Camp	17	$ 189.62	No
Premium Gel (Bentonite)	8	$ 145.56	Yes
8 5/8" Top Rubber Plug	1	$ 118.47	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	$ 110.96	No
Baffle Plate Aluminum, 8 5/8"	1	$ 100.59	Yes

Invoice Terms:
Net 30

SubTotal:	$	*10,255.02*
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	$	(1,538.25)
SubTotal for Taxable Items:	$	6,792.01
SubTotal for Non-Taxable Items:	$	1,924.76
Total:	$	8,716.77
6.30% Ellis County Sales Tax Tax:	$	427.90
Amount Due:	**$**	**9,144.67**
Applied Payments:		
Balance Due:	**$**	**9,144.67**

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 049

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-2-13				Ellis	Ks		16:30

Lease Schmeidler Well No. 2-15 Location Catherine E to Codel Rd

Contractor Discovery Rig 2

Type Job Long Surface

Hole Size 12¼ T.D. 1037

Csg. 8⅝ Depth 1031

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 42' Shoe Joint 40'

Meas Line 23A Displace 63 BBL

Owner 6 ¼ N W ¼ N

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Sam Gary Jr & Associates

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 400 Com 3% CC 2% gel ¼ Flow

EQUIPMENT

Pumptrk	No.	Cementer
		Helper
Bulktrk	No.	Driver
		Driver
Bulktrk	No.	Driver
		Driver

JOB SERVICES & REMARKS

Remarks: Schmeidler ET AL

Rat Hole 2-15

Mouse Hole

Centralizers 1, 5, 22

Baskets 2, 6, 23

D/V or Port Collar

Ran 2 cp Jts
Est Cir pump 5 BBL water then cement displaced w/ 63 BBL

Thanks

Common	400
Poz. Mix	
Gel.	8
Calcium	14
Hulls	
Salt	
Flowseal	100#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	422
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	3
Baskets	3
AFU Inserts	
Float Shoe	
Latch Down	
1 8⅝ Rubber plug	
1 Baffle plate	
Pumptrk Charge	Long Surface
Mileage	17
Tax	
Discount	
Total Charge	

X Signature Samuel Summerville

Date: 6/11/2013
Invoice # 7908

P.O.#:

Due Date: 7/11/2013
Division: *Russell*

QUALITY OILWELL CEMENTING, INC.
PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone:785-324-1041 fax:785-483-1087
Email: cementing@ruralTel.net

Invoice

Contact:
Samuel Gary Jr & Associates Inc
Address/Job Location:
Samuel Gary Jr & Associates Inc
1815 11th Street
Great Bend, KS 67530

RECEIVED
JUN 18 2013
SAMUEL GARY JR. & ASSOCIATES, INC.

☑ DRLG ☐ COMP ☐ W/O ☐ LOE ☐ GG

Account	820.145
Well/Prospect	
Deck	
AFE	
Approval	
Description	

Reference:
SCHMEIDLER ET AL 2-15

Description of Work:
PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		$ 1,020.55	Yes				
Common-Class A	150	$ 2,102.29	Yes				
Bulk Truck Matl-Material Service Charge	259	$ 578.94	Yes				
POZ Mix-Standard	100	$ 514.12	Yes				
Pump Truck Mileage-Job to Nearest Camp	17	$ 189.62	Yes				
Premium Gel (Bentonite)	9	$ 163.76	Yes				
Flo Seal	62	$ 138.59	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	$ 110.96	Yes				
Dry Hole Plug	1	$ 62.59	Yes				

Invoice Terms:
Net 30

SubTotal:	$	*4,881.41*
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	$	(732.21)
SubTotal for Taxable Items:	$	4,149.20
SubTotal for Non-Taxable Items:	$	-
Total:	$	4,149.20
6.30% Ellis County Sales Tax Tax:	$	261.40
Amount Due:	**$**	**4,410.60**
Applied Payments:		
Balance Due:	**$**	**4,410.60**

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
This does not include any applicable taxes unless it is listed.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 **Home Office P.O. Box 32 Russell, KS 67665** **No.** 7908

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-8-13	15	12	17	Ellis	KS		6:00PM

Location Codell Rd & Buckeye Rd, ¼N W/S

Lease Schmeidler ET AL Well No. 2-15 Owner Bob Banks

Contractor Discovery #2 To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job plug

Hole Size 7 7/8" T.D. 3760' Charge To Sam Gary Jr & Associates

Csg. Depth Street

Tbg. Size 4½" D.P. Depth 3640' City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint Cement Amount Ordered 250 sx 60/40 4% Gel ¼# F.S.

Meas Line Displace H20/mud ~~8 5/8~~

EQUIPMENT

Pumptrk 15 No. Cementer Helper Nick

Bulktrk 8 No. Driver Driver Billy

~~Bulktrk~~ P.U. No. Driver Driver Rick

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

3640' - 50 sx
1375' - 25 sx
1075' - 40 sx
800' - 80 sx
40' - 10 sx w/plug
Rathole - 30 sx
mousehole - 15 sx
Cement did Circulate

Common	150
Poz. Mix	100
Gel.	9
Calcium	
Hulls	
Salt	
Flowseal	62#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	259
Mileage	
FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	1- Dry hole plug
Pumptrk Charge	plug
Mileage	17
Tax	
Discount	
Total Charge	

X Signature

DRILL STEM TEST REPORT

Samuel GaryJr&Associates Inc

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Chris Mitchell

15-12s-17w Ellis

Schmeidler etal#2-15

Job Ticket: 52089 **DST#: 1**

Test Start: 2013.06.05 @ 21:25:51

GENERAL INFORMATION:

Formation: **LKC C-D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:44:01
Time Test Ended: 05:26:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schwager
Unit No: 42

Interval: 3398.00 ft (KB) To 3432.00 ft (KB) (TVD)
Total Depth: 3432.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

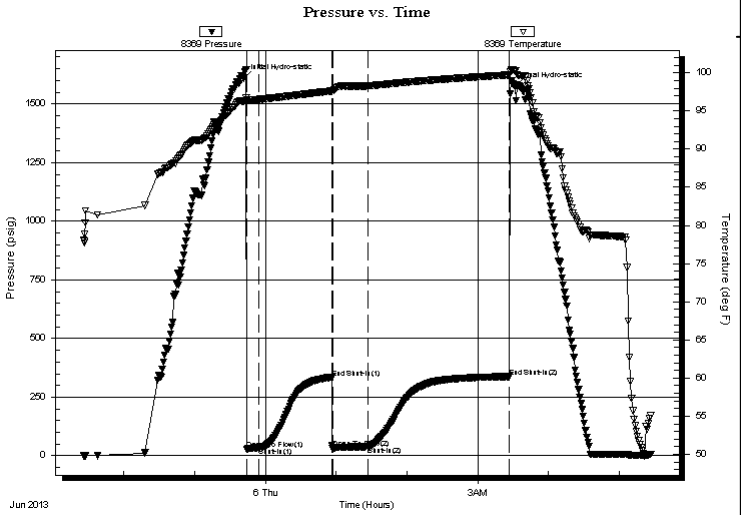
Reference Elevations: 2143.00 ft (KB)
2135.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8369 **Inside**

Press@RunDepth: 39.85 psig @ 3404.00 ft (KB)
Start Date: 2013.06.05 End Date: 2013.06.06
Start Time: 21:25:51 End Time: 05:26:30

Capacity: 8000.00 psig
Last Calib.: 2013.06.06
Time On Btm: 2013.06.05 @ 23:41:46
Time Off Btm: 2013.06.06 @ 03:32:00

TEST COMMENT: 10-IFP-w k bl thru-out 1/4"to 1/2"bl
60-ISIP-no bl
30-FFP-w k bl thru-out 1/2"to 1 1/2"bl
120-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.64	96.28	Initial Hydro-static
3	28.40	96.37	Open To Flow (1)
13	35.18	96.52	Shut-In(1)
75	333.03	97.62	End Shut-In(1)
75	30.13	97.56	Open To Flow (2)
105	39.85	98.30	Shut-In(2)
225	335.94	99.73	End Shut-In(2)
231	1574.19	100.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	HO&GCM 7%G25%O68%M	0.15
0.00	90"GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

Samuel GaryJr&Associates Inc

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Chris Mitchell

15-12s-17w Ellis

Schmeidler etal#2-15

Job Ticket: 52089 **DST#: 1**

Test Start: 2013.06.05 @ 21:25:51

GENERAL INFORMATION:

Formation: **LKC C-D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:44:01
Time Test Ended: 05:26:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schwager
Unit No: 42

Interval: 3398.00 ft (KB) To 3432.00 ft (KB) (TVD)
Total Depth: 3432.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

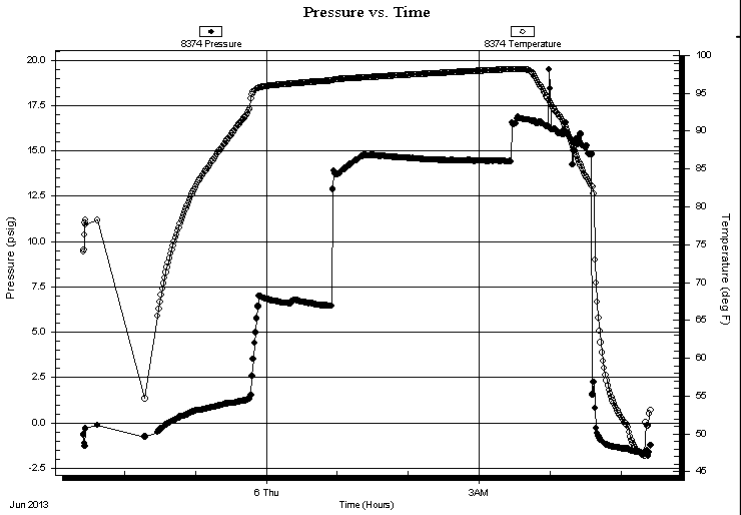
Reference Elevations: 2143.00 ft (KB)
2135.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8374 **Fluid**

Press@RunDepth: psig @ 3364.00 ft (KB)
Start Date: 2013.06.05 End Date: 2013.06.06
Start Time: 21:25:20 End Time: 05:25:44

Capacity: 8000.00 psig
Last Calib.: 2013.06.06
Time On Btm:
Time Off Btm:

TEST COMMENT: 10-IFP-w k bl thru-out 1/4"to 1/2"bl
60-ISIP-no bl
30-FFP-w k bl thru-out 1/2"to 1 1/2"bl
120-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
30.00	HO&GCM 7%G25%O68%M	0.15
0.00	90"GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel GaryJr&Associates Inc

1515 Wynkoop
Ste 700
Denver Co 80202

ATTN: Chris Mitchell

15-12s-17w Ellis

Schmeidler etal#2-15

Job Ticket: 52089 **DST#: 1**

Test Start: 2013.06.05 @ 21:25:51

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	34 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.76 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	HO&GCM 7%G25%O68%M	0.148
0.00	90"GIP	0.000

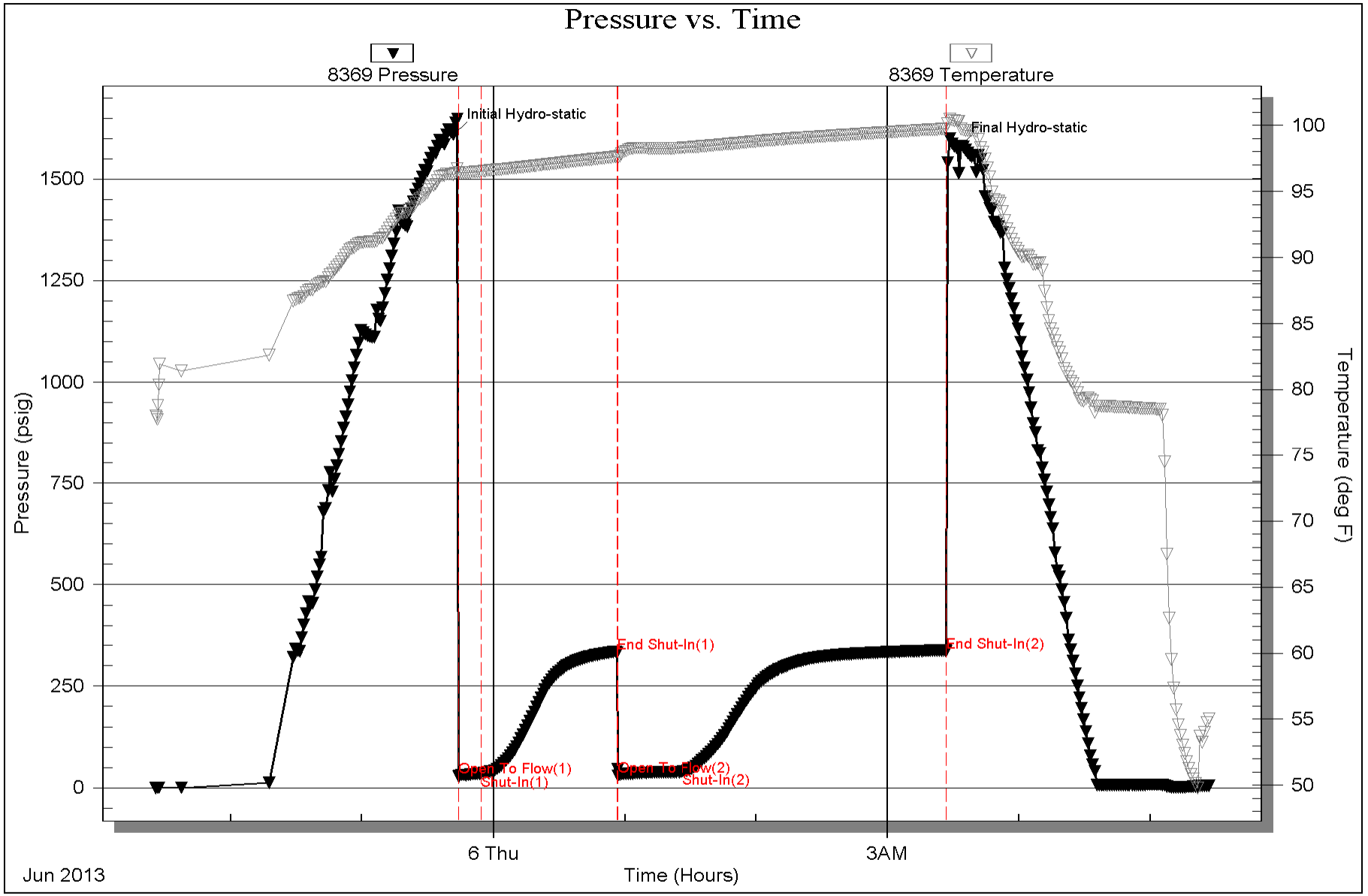
Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

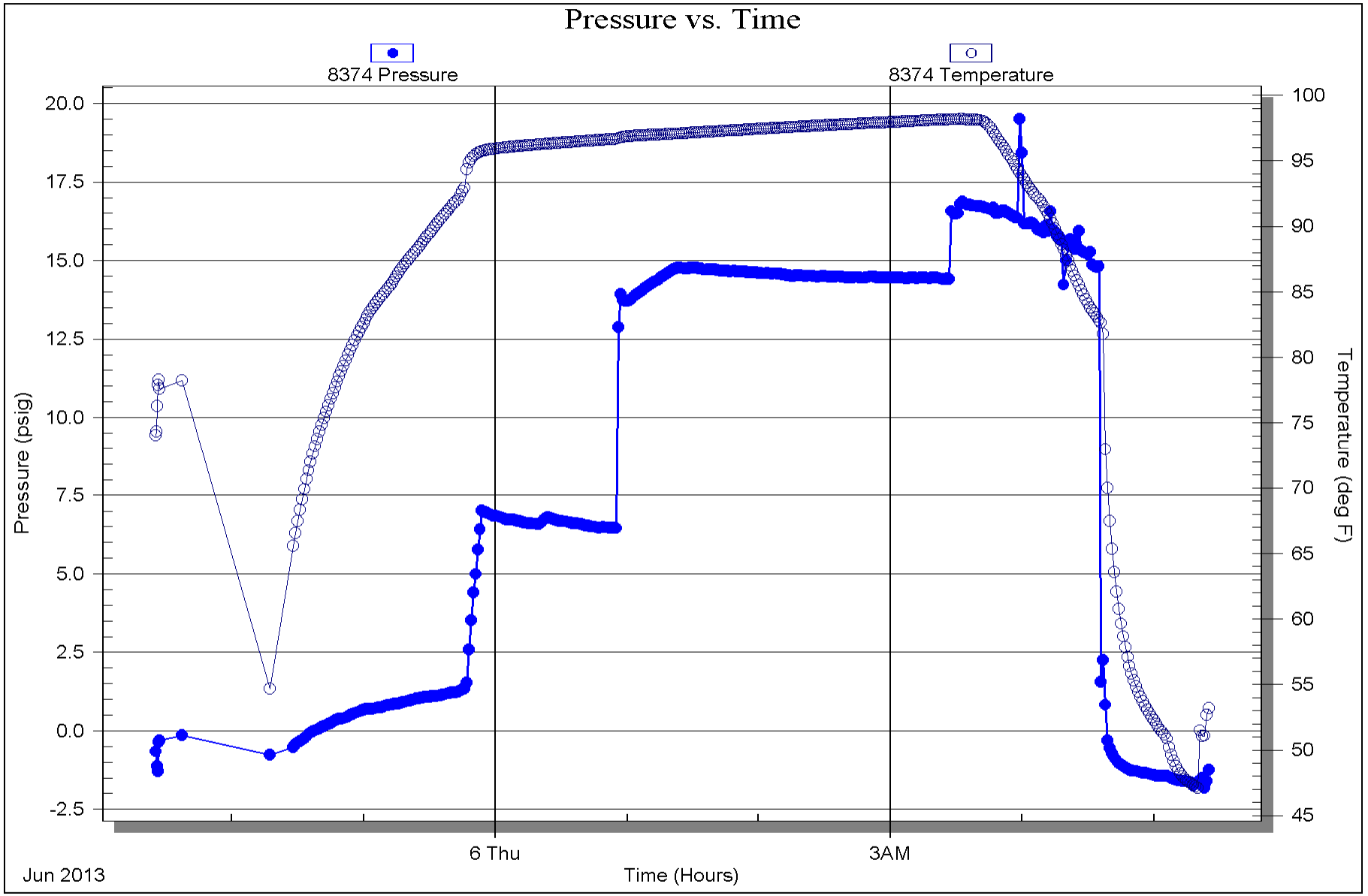
Recovery Comments: Sampler Data:130PSI 1500ML Oil 500ML gas

Serial #: 8369 **Inside** Samuel GaryJr&Associates Inc Schmeidler etal#2-15 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 52089 Printed: 2013.06.06 @ 07:44:31

Serial #: 8374 **Fluid** Samuel GaryJr&Associates Inc Schmeidler etal#2-15 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 52089 Printed: 2013.06.06 @ 07:44:32

DRILL STEM TEST REPORT

Samuel GaryJr&Associates Inc

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Chris Mitchell

15-12s-17w Ellis

Schmeidler etal#2-15

Job Ticket: 52090 **DST#: 2**

Test Start: 2013.06.06 @ 14:20:44

GENERAL INFORMATION:

Formation: **LKC F-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:01:24
Time Test Ended: 21:28:53

Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schw ager
Unit No: 42

Interval: 3441.00 ft (KB) To 3489.00 ft (KB) (TVD)
Total Depth: 3489.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

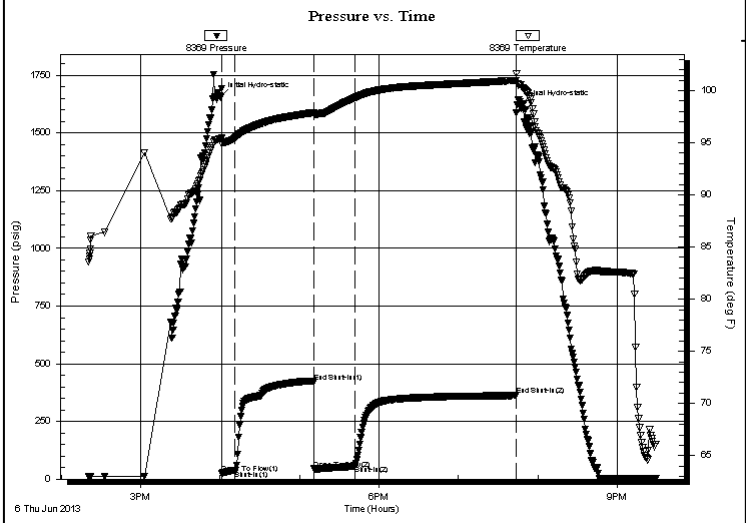
Reference Elevations: 2143.00 ft (KB)
2135.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8369 **Inside**

Press@RunDepth: 57.92 psig @ 3453.00 ft (KB)
Start Date: 2013.06.06 End Date: 2013.06.06
Start Time: 14:20:44 End Time: 21:28:53

Capacity: 8000.00 psig
Last Calib.: 2013.06.06
Time On Btm: 2013.06.06 @ 16:00:09
Time Off Btm: 2013.06.06 @ 19:47:23

TEST COMMENT: 10-IFP-w k bl thru-out 1/4"to 1"bl
60-ISIP-no bl
30-FFP-w k bl thru-out surface to 1/4"bl
120-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1656.90	95.39	Initial Hydro-static
2	26.55	94.90	Open To Flow (1)
11	39.20	95.47	Shut-In(1)
71	420.96	97.88	End Shut-In(1)
71	43.91	97.78	Open To Flow (2)
102	57.92	99.29	Shut-In(2)
224	362.36	100.96	End Shut-In(2)
228	1622.03	100.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW 10%M90%W w /show of oil	0.64
5.00	OCWM 10%O30%W60%M	0.07
1.00	CO	0.01

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

Samuel GaryJr&Associates Inc

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Chris Mitchell

15-12s-17w Ellis

Schmeidler etal#2-15

Job Ticket: 52090 **DST#: 2**

Test Start: 2013.06.06 @ 14:20:44

GENERAL INFORMATION:

Formation: **LKC F-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:01:24
Time Test Ended: 21:28:53

Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schw ager
Unit No: 42

Interval: 3441.00 ft (KB) To 3489.00 ft (KB) (TVD)
Total Depth: 3489.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

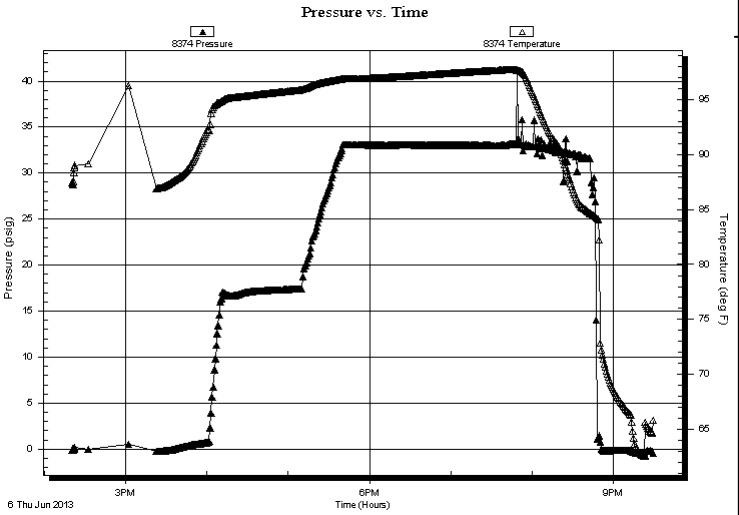
Reference Elevations: 2143.00 ft (KB)
2135.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8374 **Fluid**

Press@RunDepth: psig @ 3407.00 ft (KB)
Start Date: 2013.06.06 End Date: 2013.06.06
Start Time: 14:20:26 End Time: 21:29:20

Capacity: 8000.00 psig
Last Calib.: 2013.06.06
Time On Btm:
Time Off Btm:

TEST COMMENT: 10-IFP-w k bl thru-out 1/4"to 1"bl
60-ISIP-no bl
30-FFP-w k bl thru-out surface to 1/4"bl
120-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MW 10%M90%W w /show of oil	0.64
5.00	OCWM 10%O30%W60%M	0.07
1.00	CO	0.01

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel GaryJr&Associates Inc

1515 Wynkoop
Ste 700
Denver Co 80202

ATTN: Chris Mitchell

15-12s-17w Ellis

Schmeidler etal#2-15

Job Ticket: 52090 **DST#: 2**

Test Start: 2013.06.06 @ 14:20:44

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	65000 ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.56 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	MW 10%M90%W w/show of oil	0.638
5.00	OCWM 10%O30%W60%M	0.070
1.00	CO	0.014

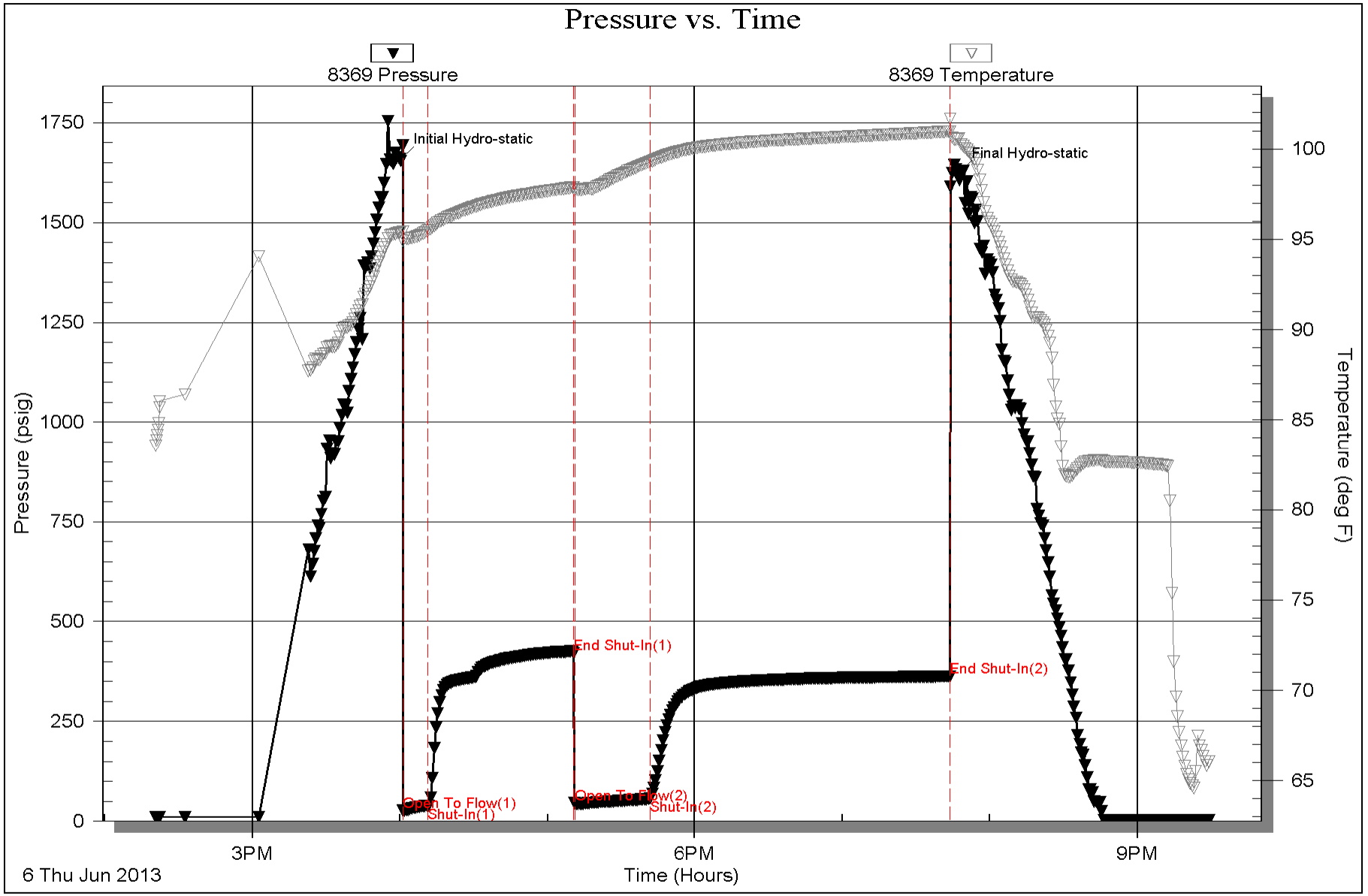
Total Length: 71.00 ft Total Volume: 0.722 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

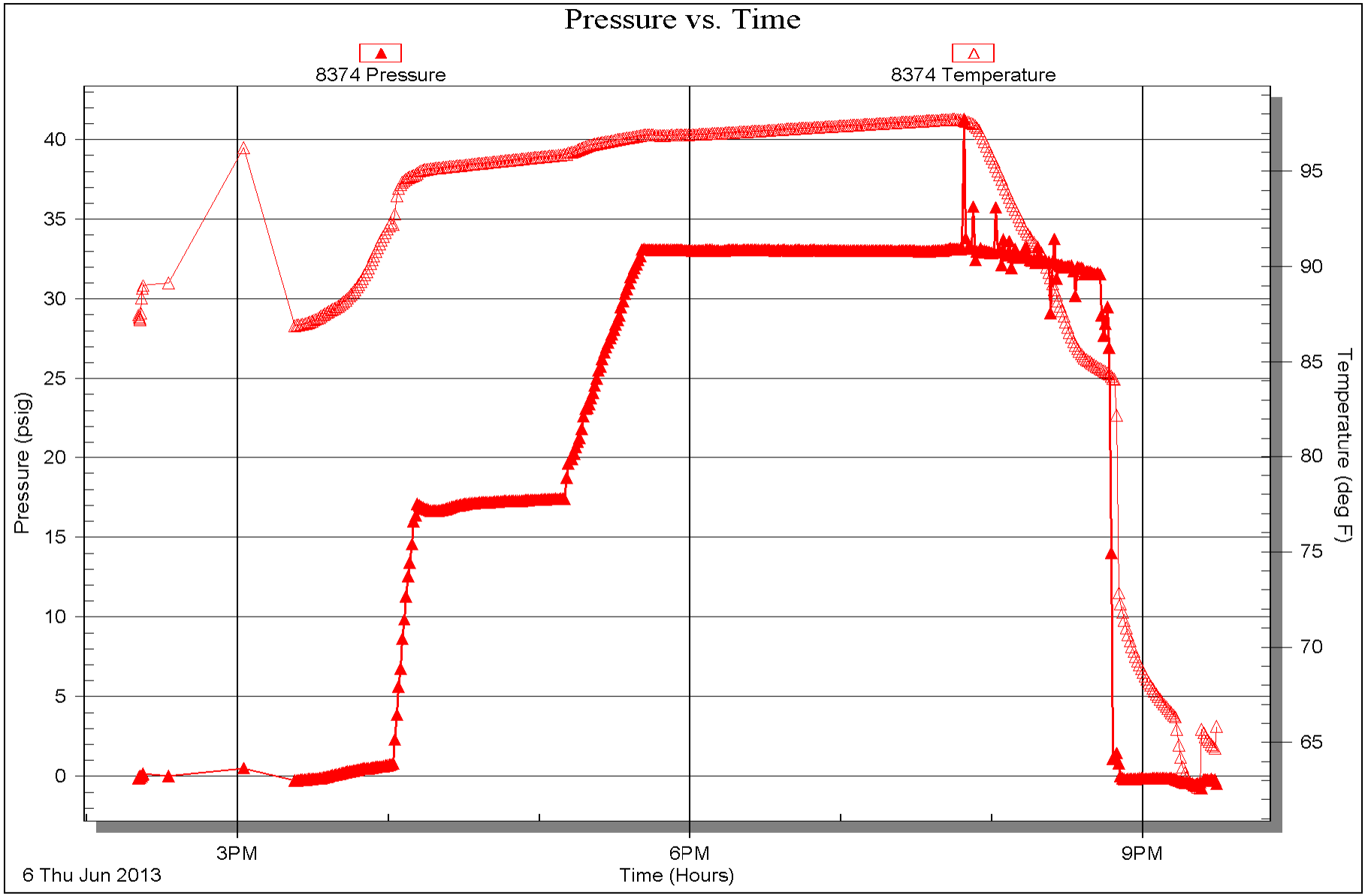
Recovery Comments: Sampler Data: PSI 170# 2000ML Water trace oil
RW .12@69F

Serial #: 8369 **Inside** Samuel GaryJr&Associates Inc Schmeidler etal#2-15 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 52090 Printed: 2013.06.06 @ 22:52:52

Serial #: 8374 **Fluid** Samuel GaryJr&Associates Inc Schmeidler etal#2-15 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 52090 Printed: 2013.06.06 @ 22:52:53

DRILL STEM TEST REPORT

Samuel GaryJr&Associates Inc

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Chris Mitchell

15-12s-17w Ellis

Schmeidler etal#2-15

Job Ticket: 52091 **DST#: 3**

Test Start: 2013.06.07 @ 09:20:05

GENERAL INFORMATION:

Formation: **LKC I-L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:56:30
Time Test Ended: 16:13:59

Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 42

Interval: 3530.00 ft (KB) To 3599.00 ft (KB) (TVD)
Total Depth: 3599.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

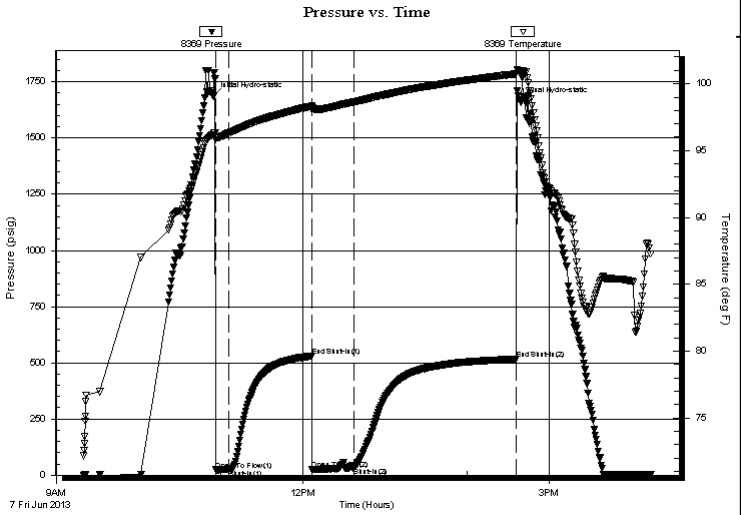
Reference Elevations: 2143.00 ft (KB)
2135.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8369 **Inside**

Press@RunDepth: 33.17 psig @ 3539.00 ft (KB)
Start Date: 2013.06.07 End Date: 2013.06.07
Start Time: 09:20:05 End Time: 16:13:59

Capacity: 8000.00 psig
Last Calib.: 2013.06.07
Time On Btm: 2013.06.07 @ 10:54:45
Time Off Btm: 2013.06.07 @ 14:38:59

TEST COMMENT: 10-IFP-surface bl thru-out
60-ISIP-no bl
30-FFP-no bl
120-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1686.39	96.21	Initial Hydro-static
2	23.03	95.83	Open To Flow (1)
12	24.82	96.32	Shut-In(1)
72	529.97	98.33	End Shut-In(1)
73	23.87	98.05	Open To Flow (2)
103	33.17	98.63	Shut-In(2)
221	516.08	100.74	End Shut-In(2)
225	1662.92	100.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

Samuel GaryJr&Associates Inc

1515 Wynkoop
Ste 700
Denver Co 80202
ATTN: Chris Mitchell

15-12s-17w Ellis

Schmeidler etal#2-15

Job Ticket: 52091 **DST#: 3**

Test Start: 2013.06.07 @ 09:20:05

GENERAL INFORMATION:

Formation: **LKC I-L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:56:30
Time Test Ended: 16:13:59

Test Type: Conventional Bottom Hole (Reset)
Tester: Ray Schwager
Unit No: 42

Interval: 3530.00 ft (KB) To 3599.00 ft (KB) (TVD)
Total Depth: 3599.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

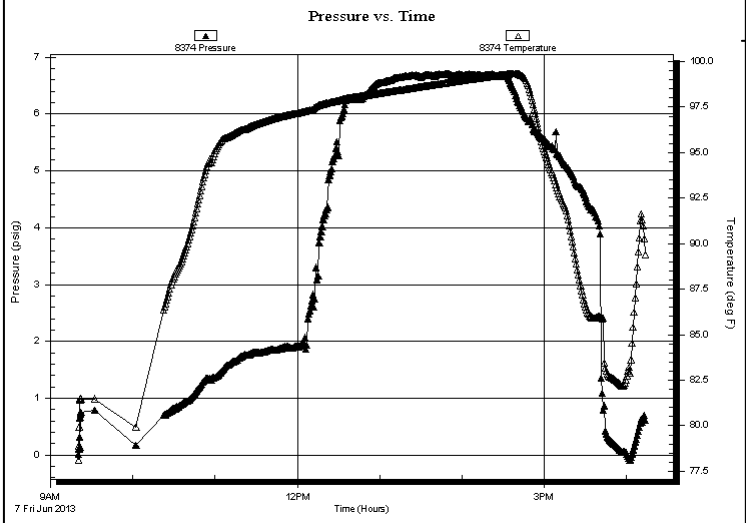
Reference Elevations: 2143.00 ft (KB)
2135.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8374 **Fluid**

Press@RunDepth: psig @ 3496.00 ft (KB)
Start Date: 2013.06.07 End Date: 2013.06.07
Start Time: 09:20:25 End Time: 16:14:04

Capacity: 8000.00 psig
Last Calib.: 2013.06.07
Time On Btm:
Time Off Btm:

TEST COMMENT: 10-IFP-surface bl thru-out
60-ISIP-no bl
30-FFP-no bl
120-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel GaryJr&Associates Inc

1515 Wynkoop
Ste 700
Denver Co 80202

ATTN: Chris Mitchell

15-12s-17w Ellis

Schmeidler etal#2-15

Job Ticket: 52091 **DST#: 3**

Test Start: 2013.06.07 @ 09:20:05

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.34 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

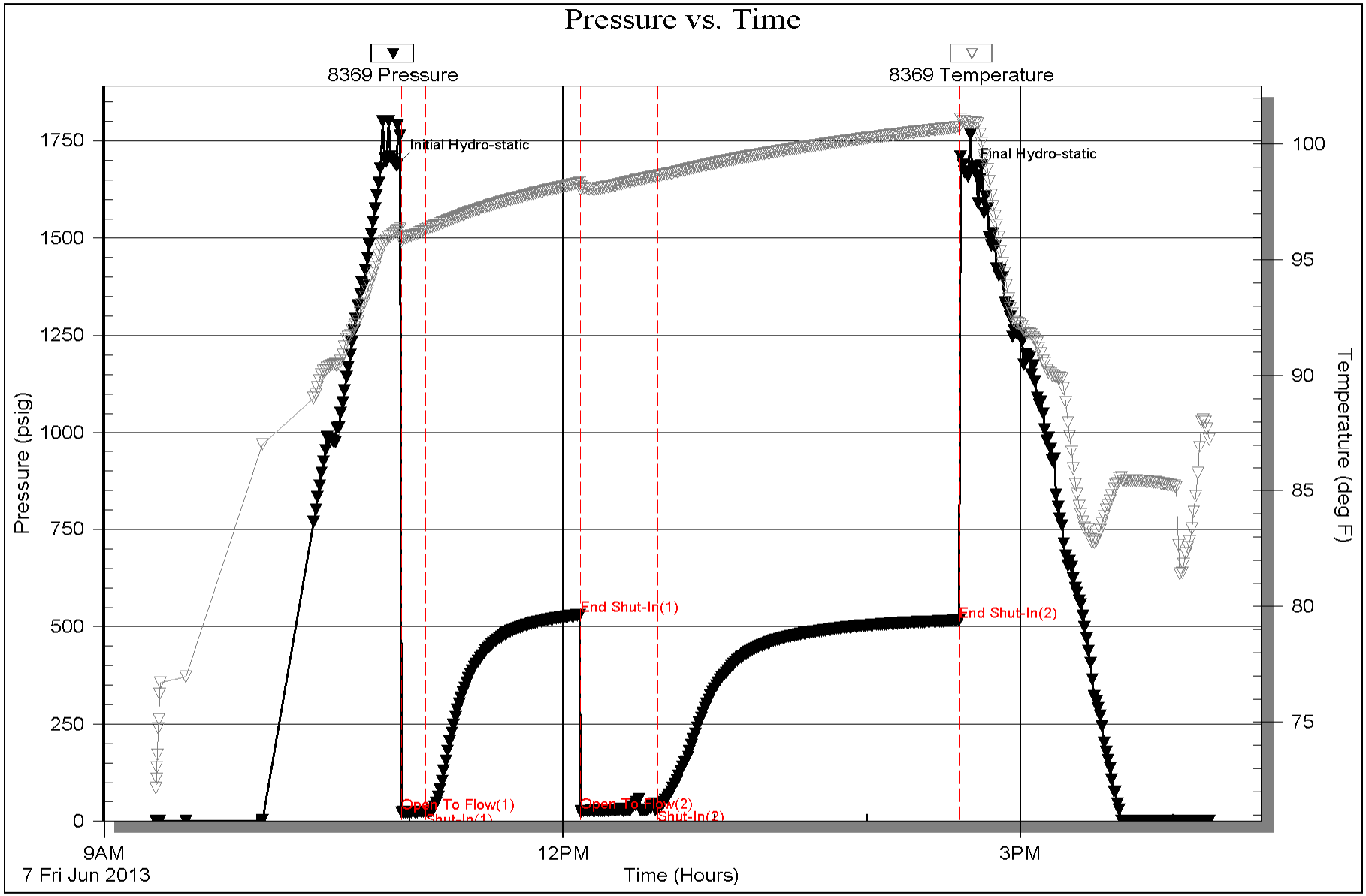
Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

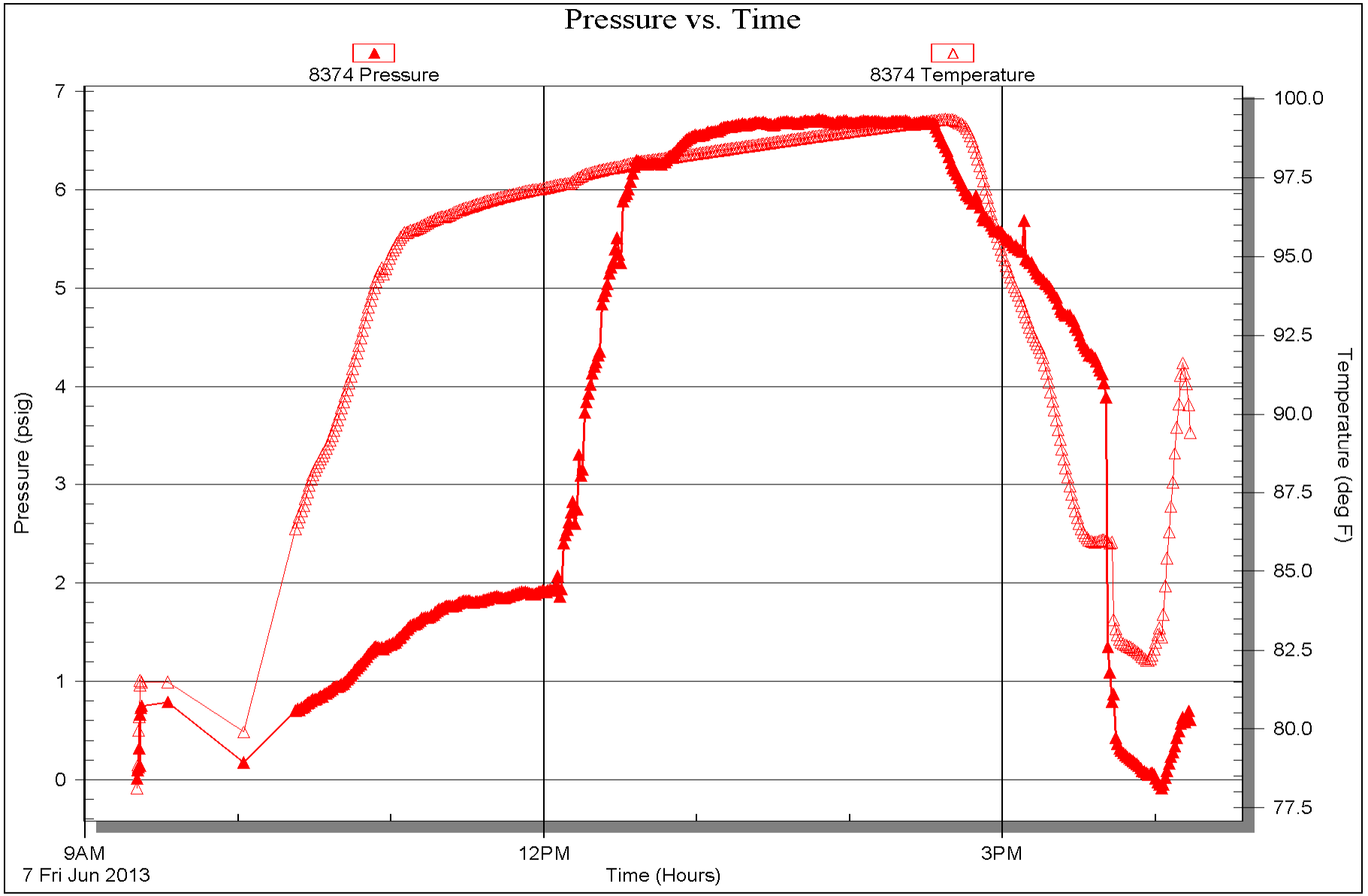
Recovery Comments: Sampler Data: PSI,25 # 1500ML Mud

Serial #: 8369 **Inside** Samuel GaryJr&Associates Inc Schmeidler etal#2-15 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 52091 Printed: 2013.06.07 @ 16:36:34

Serial #: 8374 **Fluid** Samuel GaryJr&Associates Inc Schmeidler etal#2-15 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 52091 Printed: 2013.06.07 @ 16:36:35

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	Schmeidler et al 2-15		
Location:	Sec. 15-12S-17W Ellis County, Kansas		
License Number:	15-051-26515-0000	Region:	WILDCAT
Spud Date:	June 1, 2013	Drilling Completed:	June 8, 2013
Surface Coordinates:	2310 FSL/ 1320 FEL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	12135'	K.B. Elevation (ft):	2143'
Logged Interval (ft):	2950' To: 3660'	Total Depth (ft):	3660'
Formation:			
Type of Drilling Fluid:			

OPERATOR

Company: Samuel Gary Jr. & Assoc.
Address: 1515 Wynkoop, Ste. # 700
Denver, Colo. 80202
Geo: Chris Mitchell

GEOLOGIST

Name: Aaron Suelter
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 620-600-0777

DST's Report

DST#1 3398'-3432' 10 60 30 120
IF- WEAK BLOW THRU OUT 1/4" TO 1/2" BLOW/ ISI- NO BLOW/ FF- WEAK BLOW THRU OUT 1/2" TO 1 1/2" BLOW/ FSI- NO BLOW
IH- 1608, FH- 1574/ IF- 28 TO 30/ FF- 35 TO 39/ ISI- 333, FSI- 335
RECOVERY- 90' GIP/ 30' HO+GCM 7% GAS, 25% OIL, 68% MUD
SAMPLER- 500 ML GAS, 1500 ML OIL, 2000 ML TOTAL, 130# PRESSURE

DST's Report

DST#2 3441'-3489' 10 60 30 120
IF- WEAK BLOW THRU OUT 1/4" TO 1" BLOW/ ISI- NO BLOW/ FF- WEAK BLOW THRU OUT SURFACE TO 1/4" BLOW/ FSI NO BLOW
IH- 1656, FH- 1622/ IF- 26 TO 43/ FF- 39 TO 57/ ISI- 420, FSI- 362
RECOVERY- 65' MW W/ SHOW OF OIL 90% WATER, 10% MUD/ 5' OCWM 10% OIL, 30% WATER, 60% MUD/ 1' OIL

DST's Report

DST#3 3530'-3599' 10 60 30 120
IF- SURFACE BLOW THRU OUT/ ISI- NO BLOW/ FF- NO BLOW/ FSI- NO BLOW
IH- 1686, FH- 1662/ IF- 23 TO 23/ FF- 24 TO 33/ ISI- 529, FSI- 519
RECOVERY- 5' MUD
SAMPLER- 1500 ML MUD, PRESSURE 25#

ROCK TYPES

Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol
Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Till
Carb sh
Dol
Dtd
Gry sh
Sandylms
Shale
Sltstn
Shlyslts
Sltysh
Lms

ACCESSORIES

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Slty

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

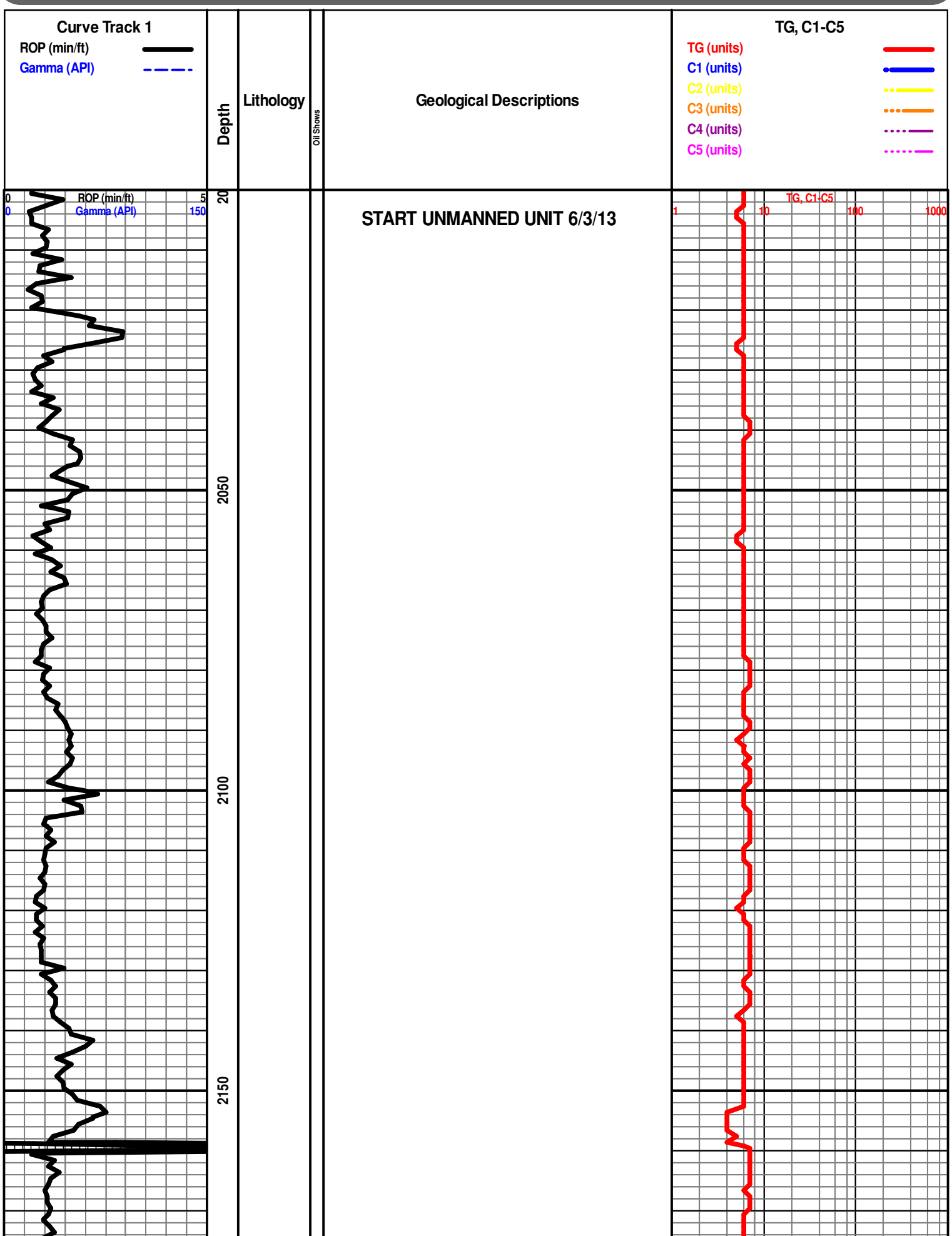
SORTING
- Well
- Moderate
- Poor

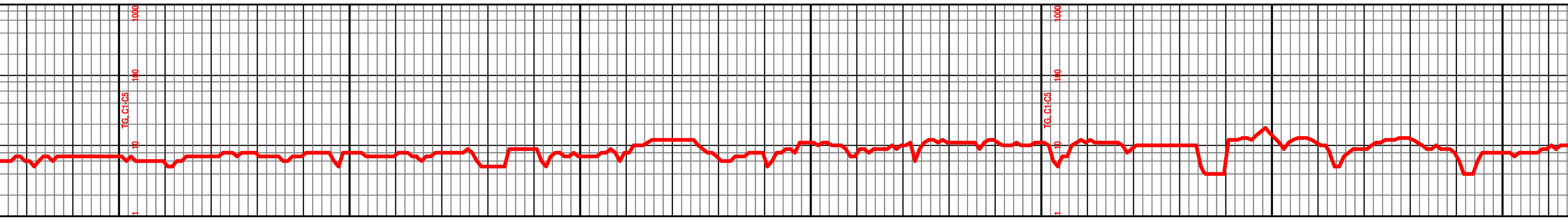
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

INTERVALS
- Core
- Dst
- Dst

EVENTS
- Rft
- Sidewall

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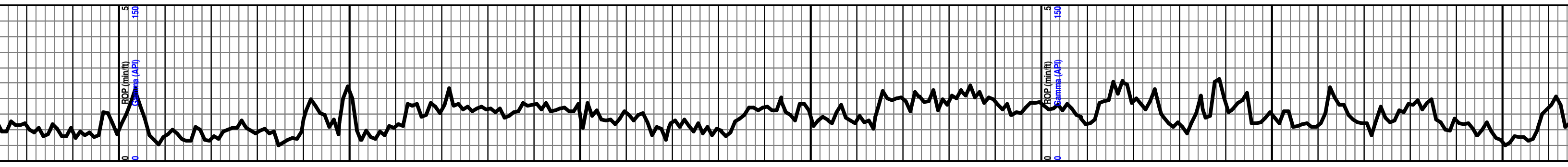
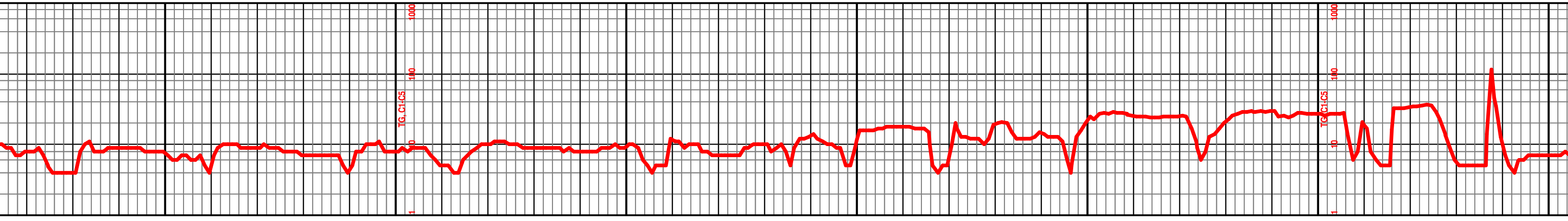
100
10
1
TG, C1-C5
1000
100
10
1


2200
2250
2300
2350
2400
2450
2500
ROP (min/ft)
5
0
Gamma (API)
150
0
ROP (min/ft)
5
0
Gamma (API)
150
0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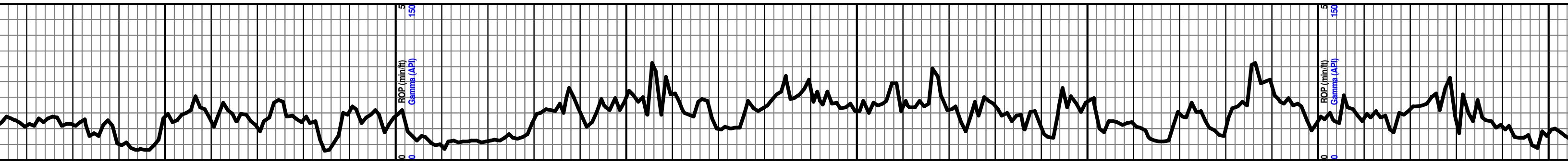
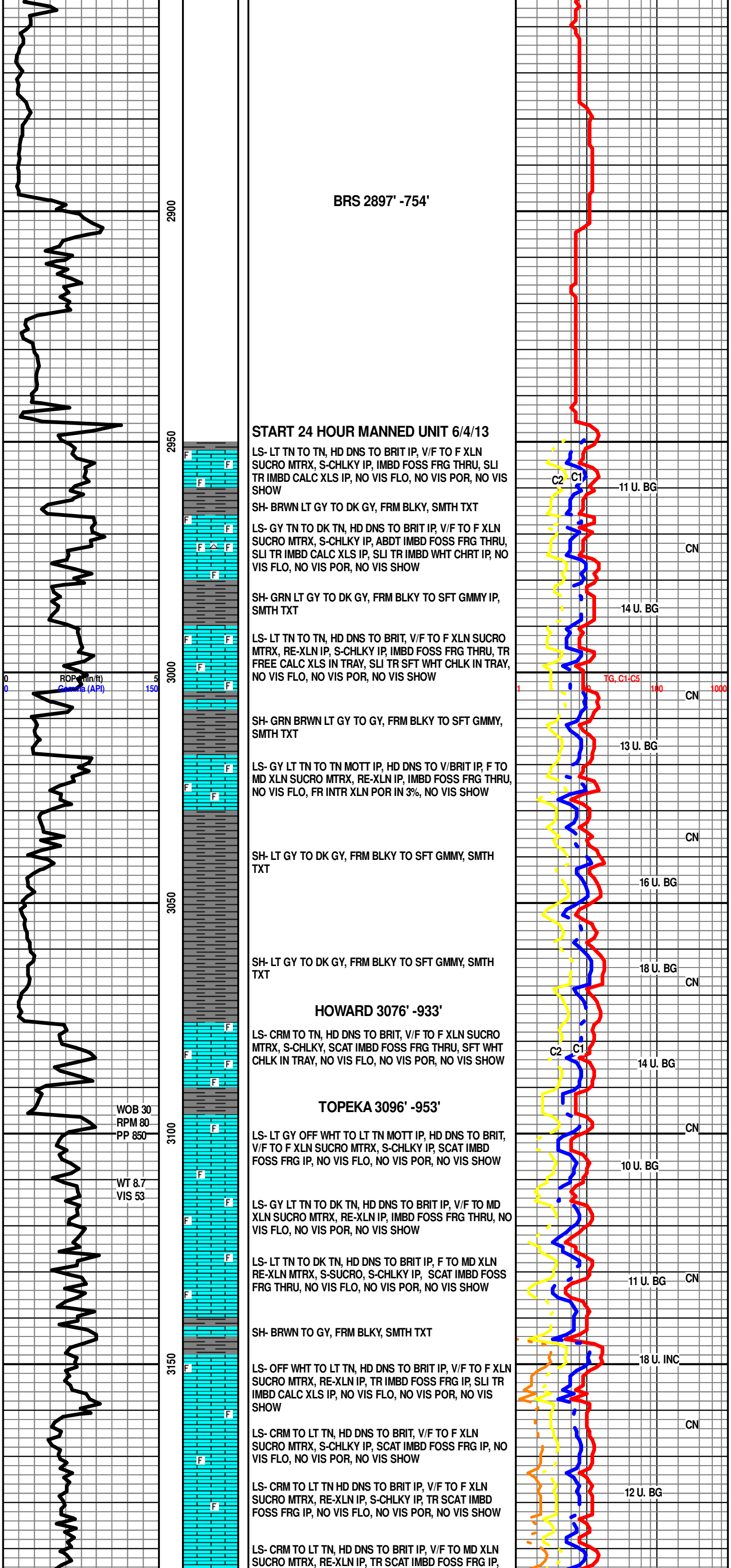
100
10
1
TG, C1-C5
1000
100
10
1


2550
2600
2650
2700
2750
2800
2850
ROP (min/ft)
Gamma (API)
5
150
0
0
ROP (min/ft)
Gamma (API)
5
150
0
0


2900
2950
3000
3050
3100
3150
0
ROP (min/ft)
5
0
Gamma (API)
150
WOB 30
RPM 80
PP 850
WT 8.7
VIS 53
F
BRS 2897' -754'
START 24 HOUR MANNED UNIT 6/4/13
LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, IMBD FOSS FRG THRU, SLI TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW
SH- BRWN LT GY TO DK GY, FRM BLKY, SMTH TXT
LS- GY TN TO DK TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD FOSS FRG THRU, SLI TR IMBD CALC XLS IP, SLI TR IMBD WHT CHRT IP, NO VIS FLO, NO VIS POR, NO VIS SHOW
SH- GRN LT GY TO DK GY, FRM BLKY TO SFT GMMY IP, SMTH TXT
LS- LT TN TO TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, RE-XLN IP, S-CHLKY IP, IMBD FOSS FRG THRU, TR FREE CALC XLS IN TRAY, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW
SH- GRN BRWN LT GY TO GY, FRM BLKY TO SFT GMMY, SMTH TXT
LS- GY LT TN TO TN MOTT IP, HD DNS TO V/BRIT IP, F TO MD XLN SUCRO MTRX, RE-XLN IP, IMBD FOSS FRG THRU, NO VIS FLO, FR INTR XLN POR IN 3%, NO VIS SHOW
SH- LT GY TO DK GY, FRM BLKY TO SFT GMMY, SMTH TXT
SH- LT GY TO DK GY, FRM BLKY TO SFT GMMY, SMTH TXT
HOWARD 3076' -933'
LS- CRM TO TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY, SCAT IMBD FOSS FRG THRU, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW
TOPEKA 3096' -953'
LS- LT GY OFF WHT TO LT TN MOTT IP, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW
LS- GY LT TN TO DK TN, HD DNS TO BRIT IP, V/F TO MD XLN SUCRO MTRX, RE-XLN IP, IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW
LS- LT TN TO DK TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-SUCRO, S-CHLKY IP, SCAT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW
SH- BRWN TO GY, FRM BLKY, SMTH TXT
LS- OFF WHT TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, TR IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW
LS- CRM TO LT TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW
LS- CRM TO LT TN HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, S-CHLKY IP, TR SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW
LS- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO MD XLN SUCRO MTRX, RE-XLN IP, TR SCAT IMBD FOSS FRG IP,
C2
C1
11 U. BG
CN
14 U. BG
TG, C1-C5
1
100
1000
CN
13 U. BG
CN
16 U. BG
18 U. BG
CN
C2
C1
14 U. BG
CN
10 U. BG
11 U. BG
CN
18 U. INC
CN
12 U. BG

0 ROP (min/ft) 5
0 Gamma (API) 150

3200
3250
3300
3350
3400
3450
3500

NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GRN LT GY TO DK GY, FRM BLKY, SMTH TXT

LE COMPTON 3220' -1077'

LS- OFF WHT TO TN, HD DNS, V/F TO MD XLN RE-XLN MTRX, S-SUCRO, IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO LT TN, HD DNS TO BRIT, F TO MD XLN SUCRO MTRX, S-CHLKY IP, IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT OT LT TN, HD DNS TO BRIT, F XLN SUCRO MTRX, S-CHLKY IP, IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- GY OFF WHT TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, TR IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO MD XLN RE-XLN MTRX, S-SUCRO, SLI TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

3302'-3304' LS- CRM TO LT TN W/ DK TN OIL STN IN 80%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, IMBD FOSS FRG THRU, DUL YEL GLD FLO IN 60%, FR TO GD INTR FOSS POR IN 5%, FR VUG POR IN 3%, V/GD INSTNT FLSH CUT IN 80%, V/GD MLKY BLU SLW STRM IN 80%, DK TN LCH ON DISH, FR OIL ODOR

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY, IMBD FOSS FRG THRU, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

HEEBNER 3338' -1195'

SH- BLCK, SFT, CARB

SH- GRN BRWN LT GY TO DK GY, FRM BLKY, SMTH TXT

LS- OFF WHT TO CRM, HD DNS TO BRIT, F XLN CHLKY MTRX, S-SUCRO, TR IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

DOUGLAS 3374' -1231'

SH- RED BRWN TO GY, FRM BLKY TO SFT GMMY, SMTH TXT

LANSING 3384' -1241'

LS- OFF WHT TO CRM, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LANSING "C" 3410' -1267'

3413'-3415' LS- CRM TO LT TN W/ TN LCH IN 50%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, TR IMBD OOL IP, DUL YEL GLD FLO IN 30%, BRT YEL GLD FLO IN 20%, PR TO FR INTR XLN POR IN 3%, PR TO FR MICRO VUG POR IN 2%, FR TO GD VUG POR IN 2%, GD FLSH CUT IN 50%, FR TO GD GSSY SLW STRM IN 50%, LT TN LCH ON DISH, WK OIL ODOR

3427'-3429' LS- OFF WHT TO CRM W/ TN OIL STN IN 30%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, SLI TR IMBD OOL IP, DUL YEL GLD FLO IN 20%, BRT YEL GLD FLO IN 10%, FR TO GD INTR XLN POR IN 3%, FR INTR OOL POR IN 2%,, FR FLSH CUT IN 30%, FR SLW STRM IN 30%, NO LCH ON DISH

SH- GRN BRWN TO GY, FRM BLKY, SMTH TXT

LANSING "F" 3454' -1311'

LS- WHT TO OFF WHT, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SCAT IMBD OOL IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO CRM, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SCAT IMBD OOL IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

3479'-3481' LS- CRM TO LT TN W/ V/LT TN OIL STN IN 30%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, SCAT IMBD OOL IP, DUL YEL GLD FLO IN 30%, FR INTR OOL POR IN 2%, FR VUG POR IN 2%, FR FLSH CUT IN 30%, FR SLW STRM IN 30%, NO LCH ON DISH, WK OIL ODOR

LS- CRM TO LT TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY, TR IMBD OOL IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GRN BRWN TO GY, FRM BLKY TO SFT GMMY, SMTH TXT

LANSING "H" 3514' -1371'

3524'-3525' LS- OFF WHT TO LT TN W/ TN OIL STN IN 20%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, IMBD OOL IP, DUL YEL GLD FLO IN 20%, PR INTR XLN POR IN 2%, PR VUG POR IN 2%, PR TO FR FLSH CUT IN 20%, FR TO GD SLW STRM IN 20%, NO LCH ON DISH

WOB 30
RPM 80
PP 850

WT 8.8
VIS 58

CFS@3390'

DST#1
(3398'-3432'

WOB 30
RPM 80
PP 700

WT 8.8
VIS 60

CFS@3432'

DST#2
3441'-3489'

WOB 30
RPM 80
PP 750

WT 9.1
VIS 53

CFS@3489'

WOB 30
RPM 80
PP 700

WT 8.9
VIS 54

DST#3
3530'-3599'
CFS@3524'

CN
TG, C1-C5
1 10 100 1000
C3 C2 C1
14 U. BG
CN
13 U. BG
CN
20 U. INC
CN
8 U. BG
7 U. BG
CN
12 U. BG
C3 C2 C1
28 U. SH KICK
CN
17 U. BG
CN
16 U. BG
TG, C1-C5
1 10 100 1000
7 U. BG
CN
24 U. SHOW
C4 C5
16 U. SHOW
50 U. BG
C3 C2 C1
CN
80 U. BG
75 U. BG
CN
180 U. KICK
140 U. BG
CN
170 U. INC
150 U. BG

CFS@3554'

WOB 30
RPM 80
PP 700

WT 9.0
VIS 52

CFS@3599'

0 ROP (min/ft) 5
0 Gamma (API) 150

CFS@3643'

WOB 30
RPM 80
PP 700

WT 8.8
VIS 56

CFS@3690'

CFS@3760'
30,60

TD@3760'

CTCH 1.5 HOURS

3550

3600

3650

3700

3750

3542'-3543' LS- OFF WHT TO CRM W/ TN OIL STN IN 75%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, RE-XLN IP, IMBD OOL IP, DUL YEL GLD FLO IN 75%, PR INTR XLN POR IN 3%, PR TO F MICRO VUG POR IN 3%, WK FLSH CUT IN 75%, PR TO FR SLW STRM IN 75%, LT TN LCH ON DISH

3554'-3556' LS- OFF WHT TO CRM W/ TN OIL STN IN 60%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX S-CHLKY IP, IMBD OOL THRU, DUL YEL GLD FLO IN 60%, FR INTR OOL POR IN 4%, FR VUG POR IN 3%, FR FLSH CUT IN 60%, FR SLW STRM IN 60%, TN LCH ON DISH

3565'-3568' LS- OFF WHT TO LT TN W/ TN OIL STIN IN 70%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, TR IMBD OOL IP, DUL YEL GLD FLO IN 70%, PR TO FR INTR XLN POR IN 3%, PR TO FR VUG POR IN 3%, PR FLSH CUT IN 70%, GD SLW STRM IN 70%, LT TN LCH ON DISH

3585'-3586' LS- CRM TO TN W/ 30%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, IMBD OOL THRU, SLI TR OOLMLD IP, DUL YEL GLD FLO IN 25%, BRT YEL GLD FLO IN 5%, PR TO FR INTR OOL POR IN 3%, FR TO GD VUG POR IN 3%, PR OOLMLD POR IN 2%, FR FLSH CUT IN 30%, GD TO V/GD SLW STRM IN 30%, LT TN LCH ON DISH

LS- LT TN TO TN, HD DNS TO BRIT, V/F TO MD XLN SUCRO MTRX, ABDT IMBD OOL IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

BKC 3616' -1473'

SH- GRN BRWN TO GY, FRM BLKY TO SFT GMMY IP, SMTH TXT

LS- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT CRM TO LT TN, HD DNS TO BRIT IP, V/F TO MD XLN SUCRO MTRX, RE-XLN IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GRN BRWN TO GY, FRM BLKY, SMTH TXT

ARBUCKLE 3660' -1517'

3660'-3662" DOLO- CRM TO LT TN W/ TN TO DK TN OIL STN IN 70%, HD DNS TO BRIT IP, FN XLN SUCRO MTRX, ABDT IMBD FN TO CRS S-ANG TO ANG DOLO GRNS THRU, SLI TR IMBD PYR IP, DUL YEL GLD FLO IN 50%, BRT YEL GLD FLO IN 10%, FR TO GD INTR GRN POR IN 7%, PP POR IN 3%, WK FLSH CUT IN 70%, PR TO FR SLW STRM IN 70%, NO LCH ON DISH

3671'-3672' DOLO- CRM TO LT TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD SM TO CRS S-RND TO ANG DOLO GRNS THRU, SLI TR IMBD PYR IP, DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 30%, FR TO GD INTR GRN POR IN 10%, NO FLSH CUT, PR TO FR SLW STRM CUT IN 60%, NO LCH ON DISH

3681'-3683' DOLO- CRM TO LT TN W/ TN OIL STN IN 60%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD F TO CRS S-ANG TO ANG DOLO GRNS THRU, DUL YEL GLD FLO IN 40%, BRT YEL GLD FLO IN 20%, PR TO FR INTR GRN POR IN 10%, NO FLSH CUT, PR TO FR SLW STRM IN 40%, NO LCH ON DISH

3693'-3694' DOLO- CRM TO LT TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, SM TO CRS S-RND TO ANG DOLO GRNS THRU, DUL YEL GLD FLO IN 50%, BRT YEL GLD FLO IN 10%, PR TO FR INTR GRN POR IN 10%, PP POR IN 3%, NO FLSH CUT, PR TO FR SLW STRM IN 30%, NO LCH ON DISH

3703'-3705' DOLO- OFF WHT CRM TO LT TN W/ TN OIL STN IN 75%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO CRS S-RND TO ANG DOLO GRNS THRU, DUL YEL GLD FLO IN 50%, BRT YEL GLD FLO IN 10%, PR TO FR INTR GRN POR IN 10%, PP POR IN 3%, PR FLSH CUT IN 40%, FR TO GD SLW STRM IN 60%, NO LCH ON DISH

R.T.D. @ 3:15 AM 6/8/13

DROP SURVEY

TOFL

WEATHERFORD/ LIBERAL

PITS CONTAMINATED

CN

140 U. BG

130 U. BG

C1-C5 PRESENT

CN

140 U. BG

70 U. BG

150 U. INC

TG, C1-C5

CN

1 10 100 1000

140 U. BG

130 U. BG

C1-C5 PRESENT

CN

40 U. BG

37 U. BG

CN

38 U. BG

28 U. BG

C1-C5 PRESENT

CN

39 U. BG

CN

TD@3760'

SAMPLES WILL BE DELIVERED TO KGS

THANKS FOR CHOOSING EARTH TECH

AARON SUELTER