Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1162870

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: CHRISTOPHER MITCHELL
Phone: (303) 831-4673
CONTRACTOR: License # 5822
Name: Val Energy, Inc.
Wellsite Geologist: JEFF QUIMBY
Purchaser: SAMUEL GARY JR. & ASSOCIATES, INC.

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 #:

6/24/2013	6/30/2013	7/1/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-165-22031-00-00
Spot Description:
NE - NW - SW - NW Sec. 36 Twp. 16 S. R. 16 ☐ East ☑ West
1450 Feet from ☑ North / ☐ South Line of Section
525 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: Rush
Lease Name: SCHNEIDER Well #: 1-36
Field Name:
Producing Formation: LANSING
Elevation: Ground: 2000 Kelly Bushing: 2010
Total Vertical Depth: 3690 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 820 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: 32000 ppm Fluid volume: 960 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: CRAIG, WARD DBA CRAIG OIL COMPANY
Lease Name: RUBIN NUSS License #: 31341
Quarter SW Sec. 5 Twp. 16 S. R. 14 ☐ East ☑ West
County: BARTON Permit #: D09153

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: 10/14/2013
☑ **Confidential Release Date:** 10/19/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 10/21/2013

1162870

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: SCHNEIDER Well #: 1-36

Sec. 36 Twp. 16 S. R. 16 ☐ East ☑ West County: Rush

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	3007	-997
HEEBNER	3239	-1229
DOUGLAS	3272	-1262
LANSING	3297	-1287
ARBUCKLE	3583	-1573
TD	3690	

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	820	COMMON CLASS A	375	2% GEL, 3% CC
PRODUCTION	7.875	5.5	15.5	3683	Q-PRO-C	180	10% SALT, 5% GILSONITE, 1/4#/SK FL

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
4	3380-3384		3380-3384
4	3396-3402	500 GAL 28% MCA W/ 3% MAS	3396-3402
4	3438-3444	500 GAL 28% MCA W/ 3% MAS	3438-3444
4	3472-3478	500 GAL 28% MCA W/ 3% MAS	3472-3478

TUBING RECORD: Size: 2.875 Set At: 3622 Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 7/23/2013

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: 3380-3478 OA

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	SCHNEIDER 1-36
Doc ID	1162870

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
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/

October 14, 2013

CHRISTOPHER MITCHELL
Samuel Gary Jr. & Associates, Inc.
1515 WYNKOOP, STE 700
DENVER, CO 80202

Re: ACO1
API 15-165-22031-00-00
SCHNEIDER 1-36
NW/4 Sec.36-16S-16W
Rush 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,
CHRISTOPHER MITCHELL

Date: 6/24/2013
Invoice # 6703

P.O.#:

Due Date: 7/24/2013
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
JUL 03 2013
SAMUEL GARY JR.
& ASSOCIATES, INC.

Reference:
SCHNEIDER 1-36

Description of Work:
LONG SURFACE JOB

☑ DRLG ☐ COMP ☐ W/O ☐ LOE ☐ GG

Account	8200.138
Well/Prospect	
Deck	
AFE	
Approval	
Description	

Services / Items Included:

	Quantity	Price	Taxable
Labor		$ 1,020.55	No
Common-Class A	375	$ 5,255.74	Yes
8 5/8" Basket	3	$ 1,059.53	Yes
Bulk Truck Matl-Material Service Charge	386	$ 862.82	No
Calcium Chloride	14	$ 745.74	Yes
Pump Truck Mileage-Job to Nearest Camp	24	$ 267.70	No
8 5/8" Centralizer	3	$ 214.59	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	24	$ 156.65	No
Premium Gel (Bentonite)	7	$ 127.37	Yes
8 5/8" Top Rubber Plug	1	$ 118.47	Yes
Baffle Plate Aluminum, 8 5/8"	1	$ 100.59	Yes

Item	Quantity	Price	Taxable

Invoice Terms:
Net 30

SubTotal:	$	*9,929.74*
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	$	(1,489.46)
SubTotal for Taxable Items:	$	6,478.72
SubTotal for Non-Taxable Items:	$	1,961.56
Total:	$	8,440.28
6.30% Rush County Sales Tax Tax:	$	408.16
Amount Due:	**$**	**8,848.44**
Applied Payments:		
Balance Due:	**$**	**8,848.44**

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. 6703

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-24-13	36	16	16	Rush	KS		12:15 AM

Location Galatia N Otis KS 1½ S

Lease Schneider 1-36 Well No. 1-36

Owner Einto

Contractor Val 6

Type Job Surface

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's & Associates

Hole Size 12¼ T.D. 821

Csg. 8⅝ Depth 820.45

Street

City

Tbg. Size Depth

Tool Depth

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

Cement Left in Csg. 42.54 Shoe Joint 42.56

Cement Amount Ordered 375 3% CC 2% Gel

Meas Line Displace 49.5 BBL

Common 375

Poz. Mix

Gel. 7

Calcium 14

Hulls

Salt

Flowseal

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 386

Mileage 8⅝

FLOAT EQUIPMENT

Guide Shoe

Centralizer 3

Baskets 3

AFU Inserts

Float Shoe

Latch Down

Baffle Plate

Bubble Plug

Pumptrk Charge Long Surface

Mileage 24

Tax

Discount

Total Charge

EQUIPMENT

Pumptrk 15	No.	Cementer Helper	Matt
Bulktrk 14	No.	Driver Driver	Nick
Bulktrk 04	No.	Driver Driver	Clayton

JOB SERVICES & REMARKS

Remarks:

Rat Hole Schneider 1-36

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Cement did Circulate

X Signature

Date: 7/1/2013
Invoice # 7404

P.O.#:

Due Date: 7/31/2013
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

☐ DRLG ☐ COMP ☐ W/O ☐ LOE ☐ GG

Account	8300.238
Well/Prospect	
Deck	
AFE	
Approval	
Description	

Reference:
SCHNEIDER 1-36

Description of Work:
PROD LONG STRING

Services / Items Included:

	Quantity	Price	Taxable
Labor		$ 991.39	No
Common-Class A	225	$ 3,063.34	Yes
Gilsonite	1057	$ 1,721.40	Yes
CFL 117	176	$ 1,177.09	Yes
5 1/2" Basket	3	$ 749.14	Yes
Bulk Truck Matl-Material Service Charge	254	$ 551.54	No
CD-110	117	$ 508.11	Yes
Mud Clear	500	$ 401.71	Yes
Defoamer A or CAF-38	50	$ 380.00	Yes
Auto Fill Float Shoe, 5 1/2"	1	$ 332.23	Yes
5 1/2" Turbolizer	5	$ 314.86	Yes

Item	Quantity	Price	Taxable
Salt (Fine)	19	$287.97	Yes
Pump Truck Mileage-Job to Nearest Camp	24	$260.05	No
Latch Down Plug & Baffle, 5 1/2"	1	$243.20	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	24	$152.17	No
Flo Seal	56	$121.60	Yes
KCL	2	$64.84	Yes
Rotating Head (4 1/2", 5 1/2", or 2 7/8")	1	$39.09	No

Invoice Terms:
Net 30

SubTotal:	$	*11,359.74*
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	$	(1,703.96)
SubTotal for Taxable Items:	$	7,960.68
SubTotal for Non-Taxable Items:	$	1,695.10
Total:	$	9,655.78
6.30% Rush County Sales Tax Tax:	$	501.52
Amount Due:	**$**	**10,157.30**
Applied Payments:		
Balance Due:	**$**	**10,157.30**

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. 7404

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-1-13	36	16	16	Rush	KS		7:00pm

Location Galatia 40 tis RD. 1½S, En2

Lease Schneider Well No. 1-36

Contractor Val 6

Type Job Long String

Hole Size 7⅞ T.D. 3692

Csg. 5½ 15.5# Depth 3683.52

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 42.42 Shoe Joint 42.42

Meas Line Displace 86½ bbl

EQUIPMENT

Pumptrk 17 No. Cementer Helper cody

Bulktrk 10 No. Driver Driver claton

Bulktrk PU No. Driver Driver Travis

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30sx

Mouse Hole 15sx

Centralizers 1, 2, 5, 7, 9, 11, 13, 16

Baskets 3, 9, 15

D/V or Port Collar pipe on bottom broke circulation plug Rat hole with 30sx and Mouse hole with 15sx. Hooked to 5½ pumped 500gal Mud CLR 48 with 106bbl fw behined it. Mixed 180sx Q pro-C 10% salt 5% gilconite ¼# Flow shut down washed pump and lines. Released plug and displaced with 206bl KCL water and 66bl fw plug landed and held.

lift pressure 600# psi

plug landed at 1500# psi

X Signature

Owner

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 and Assoiates

Street

City State

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

Cement Amount Ordered 225 Q pro-C 10% salt 5% gilconite ¼# Flow .3% CD110 .8% CFL117 .25% CAF-38

Common 225

Poz. Mix

Gel.

Calcium CD 110 117#

Hulls KCL 2 gal

Salt 19

Flowseal 56#

Kol-Seal 1057#

Mud CLR 48 500 gal

CFL-117 or CD110 CAF 38 50#

Sand 176#

Handling 254

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer 5 & Turbo's

Baskets 3 weatherford

AFU Inserts

Float Shoe 1 with ball

Latch Down 1 with plug

Pumptrk Charge prod Long String

Mileage 24

Tax

Discount

Total Charge

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

1515 Wynknopp, STE 700
Denver CO, 80202

ATTN: Kurt Strube

36-16s-16w-Rush Co KS

Schneider #1-36

Job Ticket: 53983 **DST#: 1**

Test Start: 2013.06.28 @ 12:52:11

GENERAL INFORMATION:

Formation: **Top of lansing -D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:25:31
Time Test Ended: 21:09:20

Test Type: Conventional Bottom Hole (Initial)
Tester: Tate Lang
Unit No: 68

Interval: 3307.00 ft (KB) To 3356.00 ft (KB) (TVD)
Total Depth: 3356.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

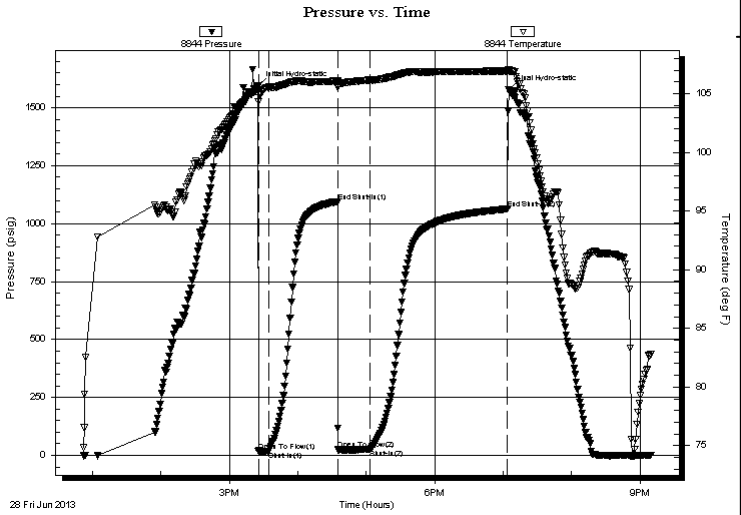
Reference Elevations: 2010.00 ft (KB)
2000.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8844 **Inside**

Press@RunDepth: 26.75 psig @ 3308.00 ft (KB)
Start Date: 2013.06.28 End Date: 2013.06.28
Start Time: 12:52:16 End Time: 21:09:20

Capacity: 8000.00 psig
Last Calib.: 2013.06.28
Time On Btm: 2013.06.28 @ 15:25:21
Time Off Btm: 2013.06.28 @ 19:05:01

TEST COMMENT: Weak surface blow built to 3 in.
Dead no blow back.
B.O.B. in 2 mins
Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1596.42	105.21	Initial Hydro-static
1	16.38	104.33	Open To Flow (1)
9	17.97	105.57	Shut-In(1)
70	1095.03	106.07	End Shut-In(1)
71	24.89	105.72	Open To Flow (2)
99	26.75	106.17	Shut-In(2)
219	1063.46	106.94	End Shut-In(2)
220	1578.83	107.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	15%O 85%M	0.42
0.00	210 GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

1515 Wynknopp, STE 700
Denver CO, 80202

ATTN: Kurt Strube

36-16s-16w-Rush Co KS

Schneider #1-36

Job Ticket: 53983 **DST#: 1**

Test Start: 2013.06.28 @ 12:52:11

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	32 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	42.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	15%O 85%M	0.421
0.00	210 GIP	0.000

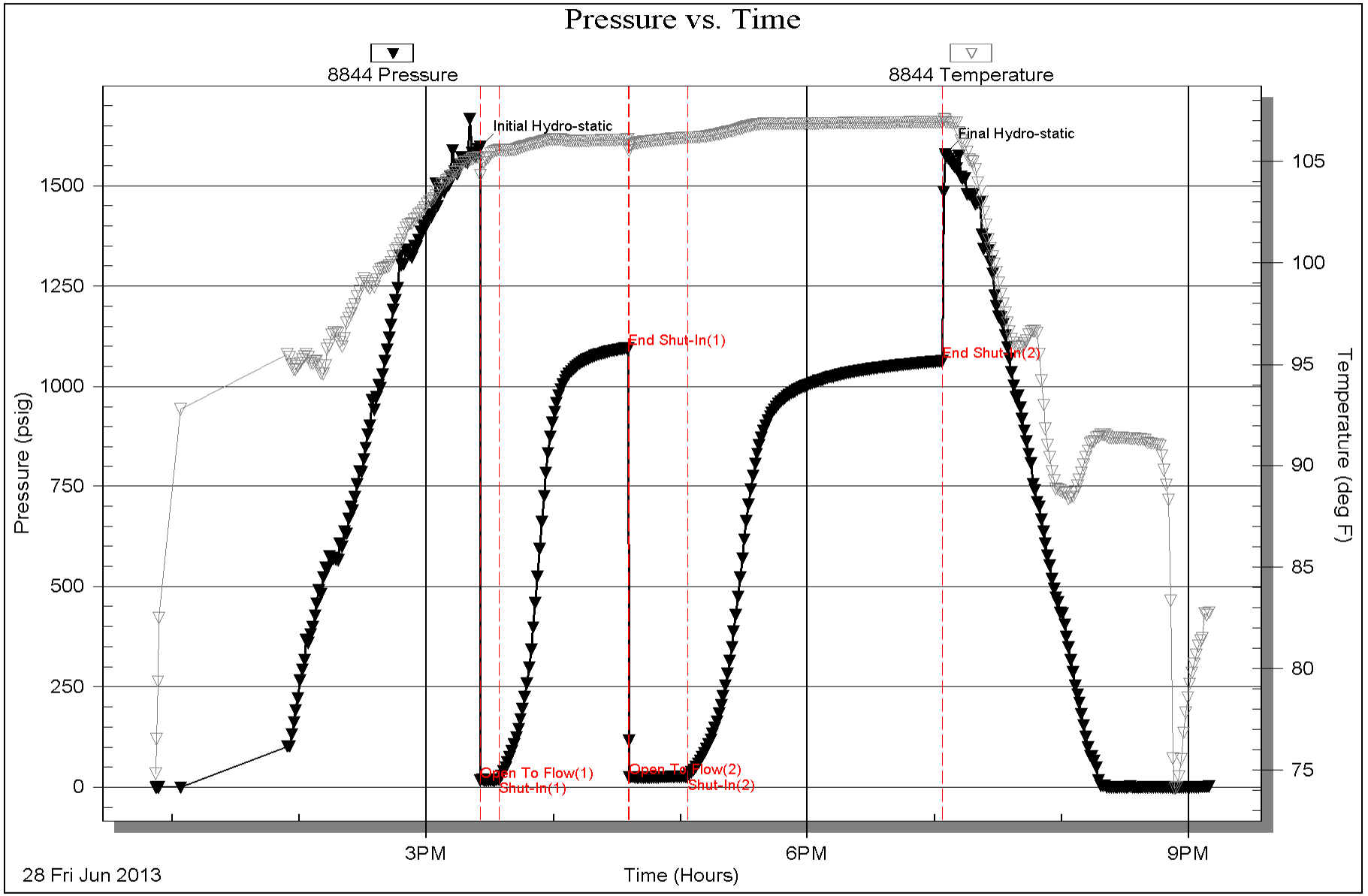
Total Length: 30.00 ft Total Volume: 0.421 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Sampler Had 200 ML Oil

Serial #: 8844 **Inside** Samuel Gary Jr. & Associates Schneider #1-36 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 53983 Printed: 2013.06.28 @ 23:04:14

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

1515 Wynknopp, STE 700
Denver CO, 80202

ATTN: Kurt Strube

36-16s-16w-Rush Co KS

Schneider #1-36

Job Ticket: 53984 **DST#: 2**

Test Start: 2013.06.29 @ 06:35:45

GENERAL INFORMATION:

Formation: **Lansing F zone**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:29:05
Time Test Ended: 14:10:24

Test Type: Conventional Bottom Hole (Reset)
Tester: Tate Lang
Unit No: 68

Interval: 3361.00 ft (KB) To 3404.00 ft (KB) (TVD)
Total Depth: 3404.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

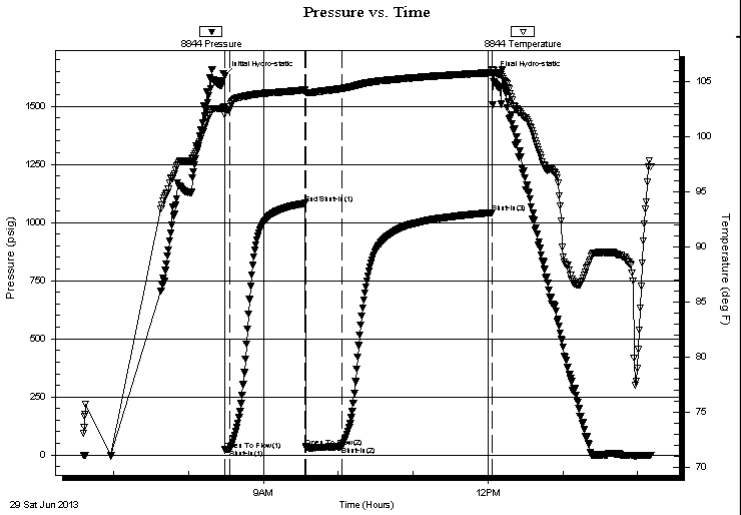
Reference Elevations: 2010.00 ft (KB)
2000.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8844 **Inside**

Press@RunDepth: 25.64 psig @ 3362.00 ft (KB)
Start Date: 2013.06.29 End Date: 2013.06.29
Start Time: 06:35:50 End Time: 14:10:24

Capacity: 8000.00 psig
Last Calib.: 2013.06.29
Time On Btm: 2013.06.29 @ 08:28:55
Time Off Btm: 2013.06.29 @ 12:04:24

TEST COMMENT: Fair blow built to 4in.
Dead no blow back
B.O.B. In 30 sec.
Weak surface blow back built to 1 in. died back to w eak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1630.38	102.71	Initial Hydro-static
1	22.59	102.00	Open To Flow (1)
5	25.64	102.66	Shut-In(1)
65	1082.38	104.22	End Shut-In(1)
65	33.72	104.00	Open To Flow (2)
94	37.48	104.36	Shut-In(2)
215	1042.63	105.80	Shut-In(3)
216	1633.33	106.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	5%G 95%O	0.07
45.00	5%G 35%O 60%M	0.63
0.00	550 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

1515 Wynknopp, STE 700
Denver CO, 80202

ATTN: Kurt Strube

36-16s-16w-Rush Co KS

Schneider #1-36

Job Ticket: 53984 **DST#: 2**

Test Start: 2013.06.29 @ 06:35:45

GENERAL INFORMATION:

Formation: **Lansing F zone**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:29:05
Time Test Ended: 14:10:24

Test Type: Conventional Bottom Hole (Reset)
Tester: Tate Lang
Unit No: 68

Interval: 3361.00 ft (KB) To 3404.00 ft (KB) (TVD)
Total Depth: 3404.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

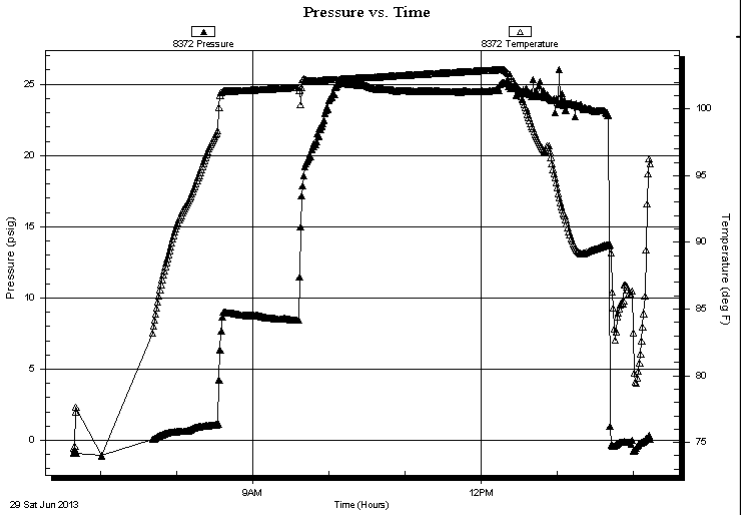
Reference Elevations: 2010.00 ft (KB)
2000.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8372

Press@RunDepth: psig @ ft (KB)
Start Date: 2013.06.29 End Date: 2013.06.29
Start Time: 06:38:41 End Time: 14:13:15

Capacity: 8000.00 psig
Last Calib.: 2013.06.29
Time On Btm:
Time Off Btm:

TEST COMMENT: Fair blow built to 4in.
Dead no blow back
B.O.B. In 30 sec.
Weak surface blow back built to 1 in. died back to w eak surface blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	5%G 95%O	0.07
45.00	5%G 35%O 60%M	0.63
0.00	550 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

1515 Wynknopp, STE 700
Denver CO, 80202

ATTN: Kurt Strube

36-16s-16w-Rush Co KS

Schneider #1-36

Job Ticket: 53984 **DST#: 2**

Test Start: 2013.06.29 @ 06:35:45

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	27 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	42.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

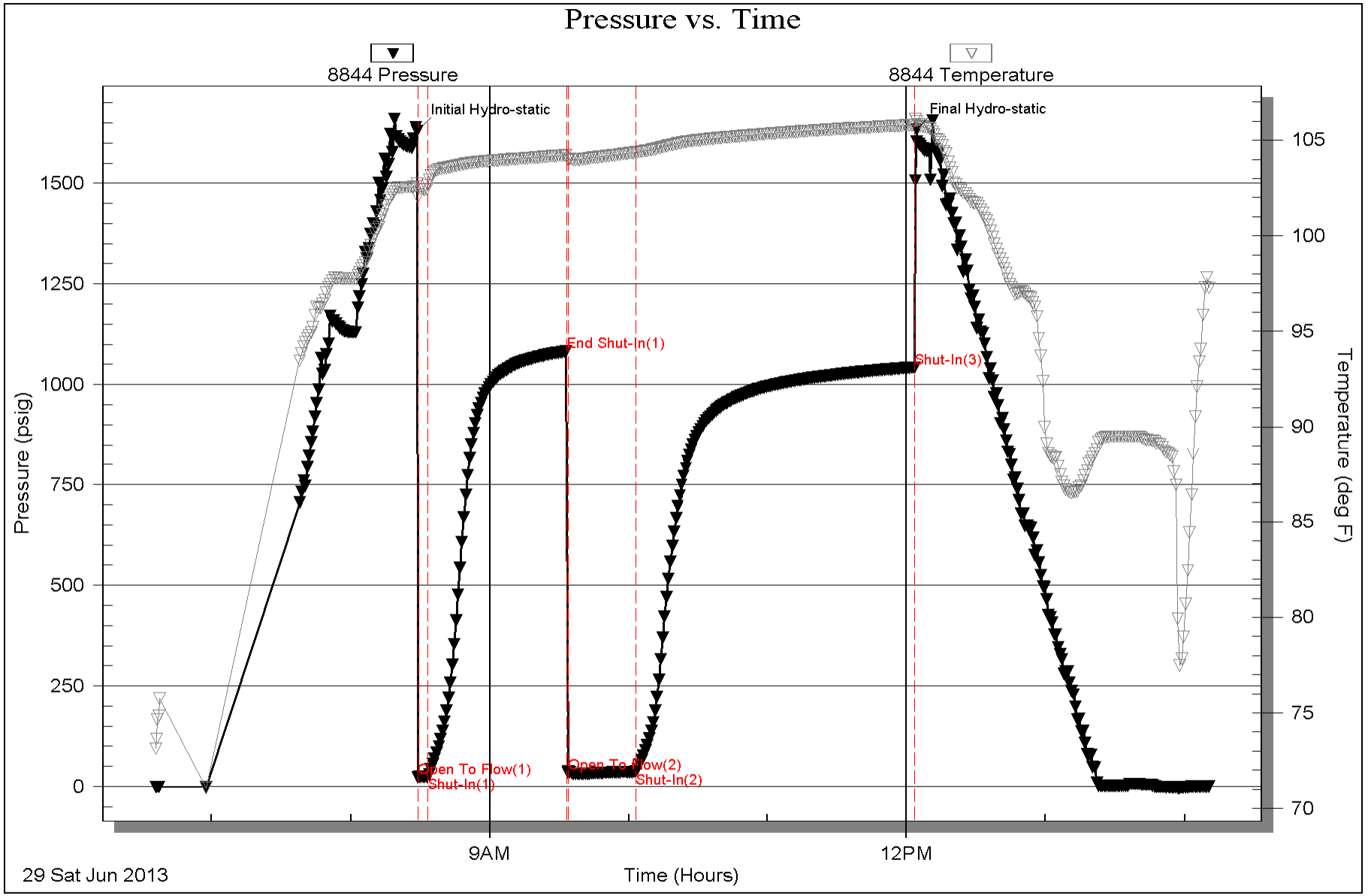
Recovery Table

Length ft	Description	Volume bbl
5.00	5%G 95%O	0.070
45.00	5%G 35%O 60%M	0.631
0.00	550 GIP	0.000

Total Length: 50.00 ft Total Volume: 0.701 bbl

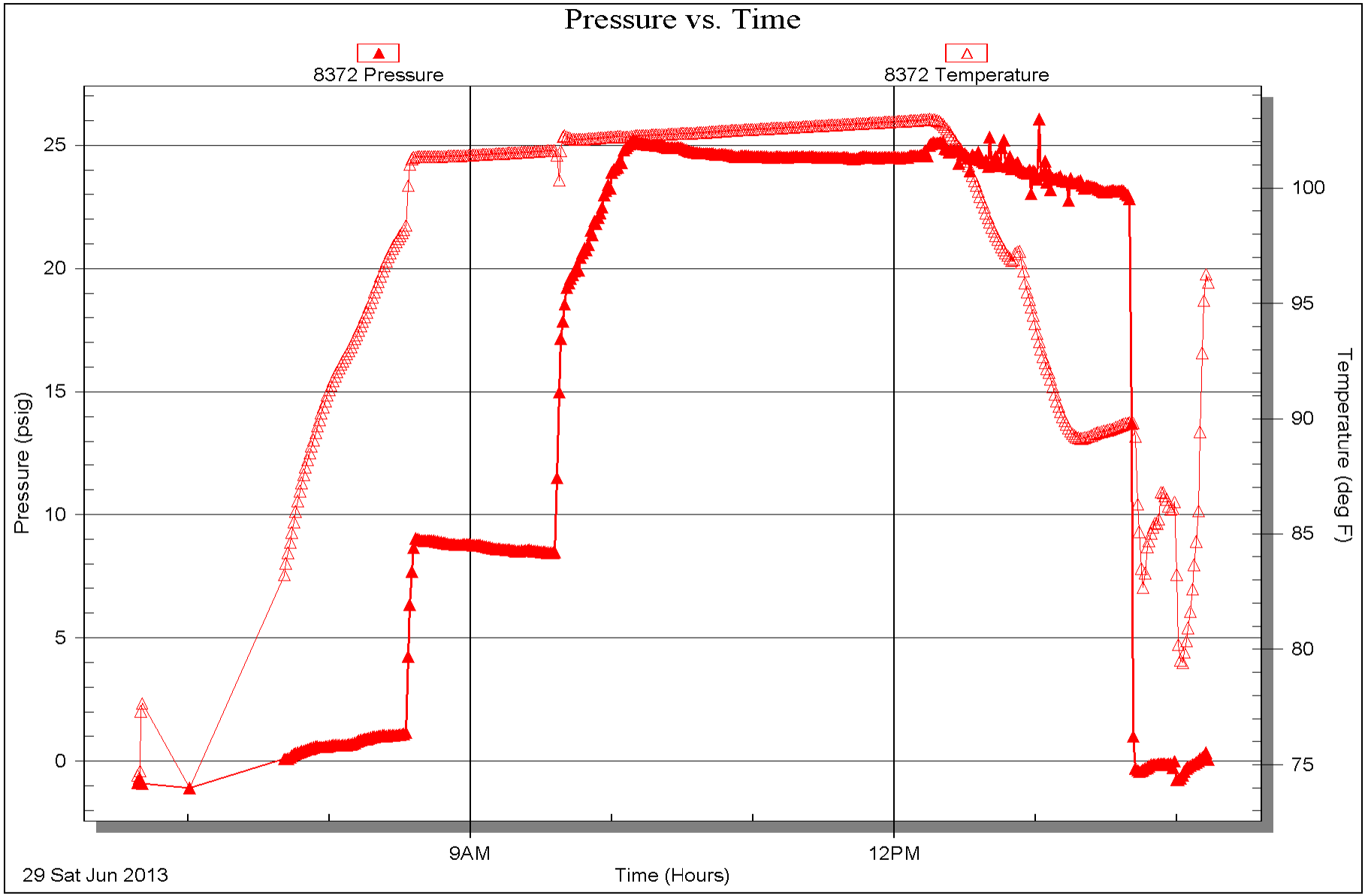
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8844 **Inside** Samuel Gary Jr. & Associates Schneider #1-36 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 53984 Printed: 2013.06.30 @ 23:58:59

Serial #: 8372 | Samuel Gary Jr. & Associates | Schneider #1-36 | DST Test Number: 2



Trilobite Testing, Inc | Ref. No: 53984 | Printed: 2013.06.30 @ 23:58:59

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

1515 Wynknopp, STE 700
Denver CO, 80202

ATTN: Kurt Strube

36-16s-16w-Rush Co KS

Schneider #1-36

Job Ticket: 53985 **DST#: 3**

Test Start: 2013.06.30 @ 01:55:21

GENERAL INFORMATION:

Formation: **Lansing H-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:56:54
Time Test Ended: 10:11:34

Test Type: Conventional Bottom Hole (Reset)
Tester: Tate Lang
Unit No: 68

Interval: 3428.00 ft (KB) To 3486.00 ft (KB) (TVD)
Total Depth: 3356.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

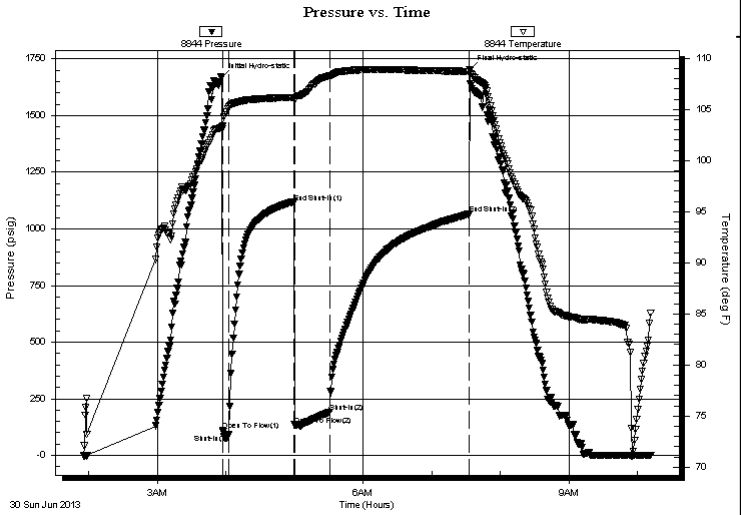
Reference Elevations: 2010.00 ft (KB)
2000.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8844 **Inside**

Press@RunDepth: 191.23 psig @ 3429.00 ft (KB)
Start Date: 2013.06.30 End Date: 2013.06.30
Start Time: 01:55:26 End Time: 10:11:34

Capacity: 8000.00 psig
Last Calib.: 2013.06.30
Time On Btm: 2013.06.30 @ 03:56:14
Time Off Btm: 2013.06.30 @ 07:33:04

TEST COMMENT: B.O.B. in 1 min
Dead no blow back
B.O.B. in 1 min. Gas to surface in 20 mins
Weak surface blow back built to 2 in.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.09	103.25	Initial Hydro-static
1	109.61	103.11	Open To Flow (1)
6	91.62	105.27	Shut-In(1)
63	1116.73	106.18	End Shut-In(1)
64	135.30	105.87	Open To Flow (2)
95	191.23	108.30	Shut-In(2)
216	1064.79	108.73	End Shut-In(2)
217	1704.00	108.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	20%G 80%O	0.84
120.00	5%G 90%O 2%W 3%M	1.68
60.00	20%G 60%O 20%M	0.84
60.00	30%G 30%O 40%M	0.84
0.00	Gas to surface	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

1515 Wynknopp, STE 700
Denver CO, 80202

ATTN: Kurt Strube

36-16s-16w-Rush Co KS

Schneider #1-36

Job Ticket: 53985 **DST#: 3**

Test Start: 2013.06.30 @ 01:55:21

GENERAL INFORMATION:

Formation: **Lansing H-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:56:54
Time Test Ended: 10:11:34

Test Type: Conventional Bottom Hole (Reset)
Tester: Tate Lang
Unit No: 68

Interval: 3428.00 ft (KB) To 3486.00 ft (KB) (TVD)
Total Depth: 3356.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

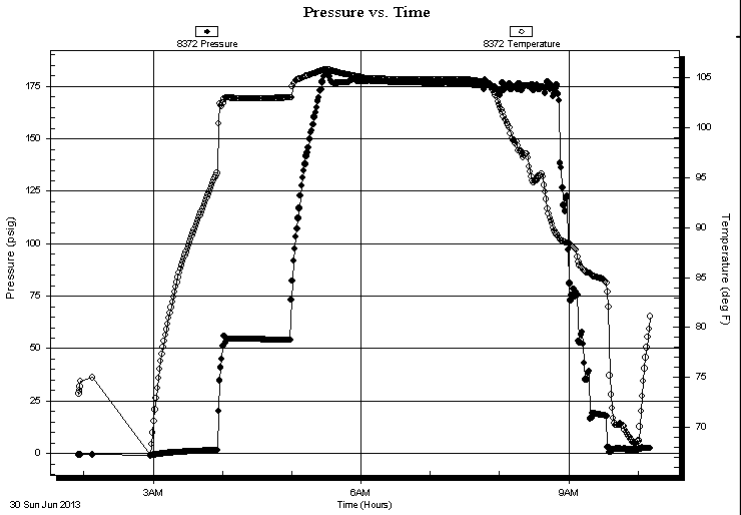
Reference Elevations: 2010.00 ft (KB)
2000.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8372

Press@RunDepth: psig @ ft (KB)
Start Date: 2013.06.30 End Date: 2013.06.30
Start Time: 01:55:37 End Time: 10:11:11

Capacity: 8000.00 psig
Last Calib.: 2013.06.30
Time On Btm:
Time Off Btm:

TEST COMMENT: B.O.B. in 1 min
Dead no blow back
B.O.B. in 1 min. Gas to surface in 20 mins
Weak surface blow back built to 2 in.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	20%G 80%O	0.84
120.00	5%G 90%O 2%W 3%M	1.68
60.00	20%G 60%O 20%M	0.84
60.00	30%G 30%O 40%M	0.84
0.00	Gas to surface	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates

1515 Wynknopp, STE 700
Denver CO, 80202

ATTN: Kurt Strube

36-16s-16w-Rush Co KS

Schneider #1-36

Job Ticket: 53985 **DST#: 3**

Test Start: 2013.06.30 @ 01:55:21

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	28 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	42.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

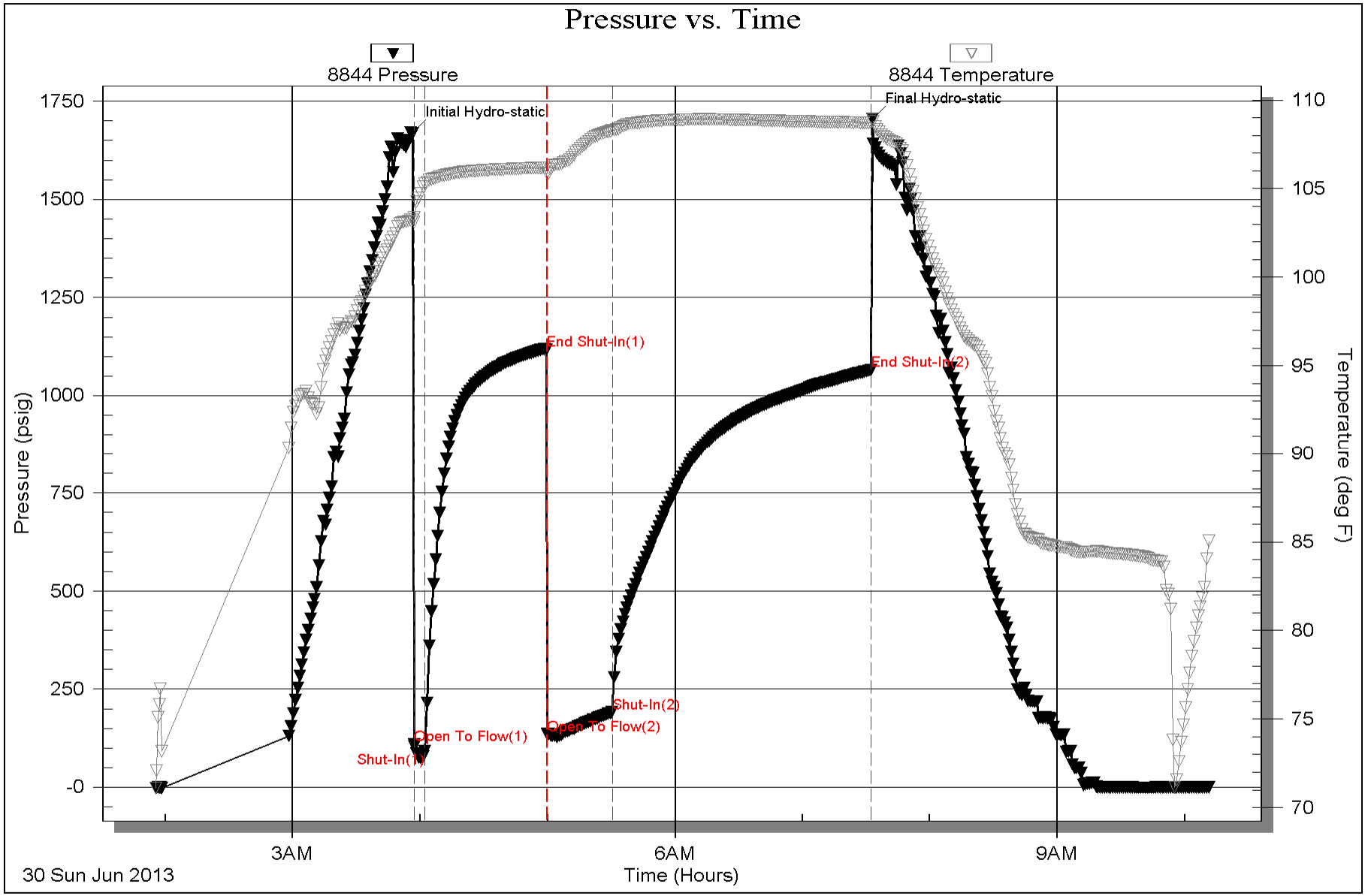
Recovery Table

Length ft	Description	Volume bbl
60.00	20%G 80%O	0.842
120.00	5%G 90%O 2%W 3%M	1.683
60.00	20%G 60%O 20%M	0.842
60.00	30%G 30%O 40%M	0.842
0.00	Gas to surface	0.000

Total Length: 300.00 ft Total Volume: 4.209 bbl

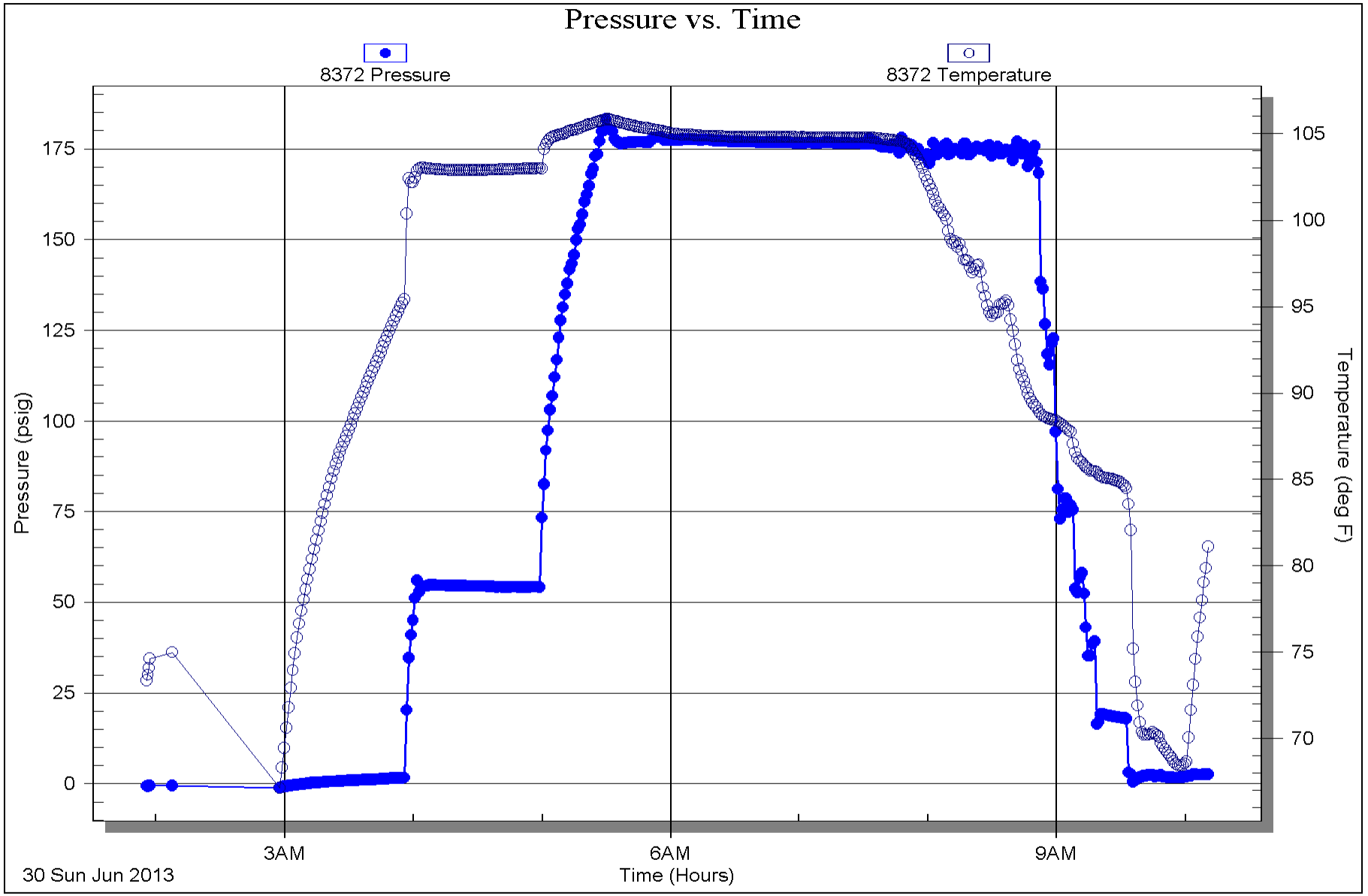
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8844 **Inside** Samuel Gary Jr. & Associates Schneider #1-36 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 53985 Printed: 2013.07.01 @ 06:20:03

Serial #: 8372 | Samuel Gary Jr. & Associates | Schneider #1-36 | DST Test Number: 3



Trilobite Testing, Inc | Ref. No: 53985 | Printed: 2013.07.01 @ 06:20:03

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

Well Name:	Schneider 1-36		
Location:	Sec. 36-16S-16W, Rush County, Kansas		
License Number:	15-165-22031-0000	Region:	Wildcat
Spud Date:	6/24/13	Drilling Completed:	6/30/13
Surface Coordinates:	1450 FNL, 525 FWL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2000'	K.B. Elevation (ft):	2010'
Logged Interval (ft):	1800' To: 3692'	Total Depth (ft):	3692'
Formation:			
Type of Drilling Fluid:			

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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

GEOLOGIST

Name: Jeff Quimby
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: (580)754-0411

DST's Report

DST #1 3307'- 3356' 10 60 30 120
IF- WK SRFC BLO/ ISI- NB/ FF- B.O.B IN 2MIN/ FSI- NB
IH-1596,FH-1579/ IF-16 TO 18/ IS-25 TO 28/ ISI-1095/ FSI-1063
RECOVERY -30' OF 15% OIL 85% MUD, 210 GIP
PIT CHLORIDES 3200 PPM/ SAMPLER 200 ML OIL, 200 PSI TOTAL 200 ML

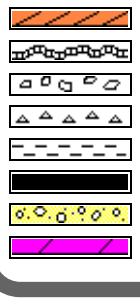
DST's Report

DST #2 3361'-3340' 5 60 30 120
IF-FR BLO, ISI- NB/ FF- B.O.B IN 30 SEC/ FSI- WK SRFC BLO
IH-1630, FH 1633/ IF-23 TO 26/ IS 34 TO 37/ ISI-1082/ FSI 1043
RECOVERY- 5' 5%G 95%O/ 45' 5%G 35%O 60%M/ 550 GIP
PIT CHLORIDES 5200 PPM/
SAMPLER 50 ML GAS, 250 ML OIL, 275 PSI
TOTAL 300 ML

DST's Report

DST #3 3328'-3486' 5 60 30 120
IF- B.O.B 1 MIN/ ISI-NB/ FF- B.O.B IN 1 MIN GAS TO SRFC IN 20MIN/ FSI- WK SRFC BLO
IH-1669, FH-1704/ IF-110 TO 92/ IS-135 TO 191/ ISI-1117/ FSI-1065
RECOVERY- 60' 20%G 80%O/ 120' 5%G 90%O 2%W 3%M/ 60' 20%G 60%O 20%M/ 30%G 30%O 40%M/ GAS TO SRFC
PIT CHLORIDES 8500 PPM/
SAMPLER 300 ML GAS, 200 ML OIL, 200 PSI
TOTAL 500 ML

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

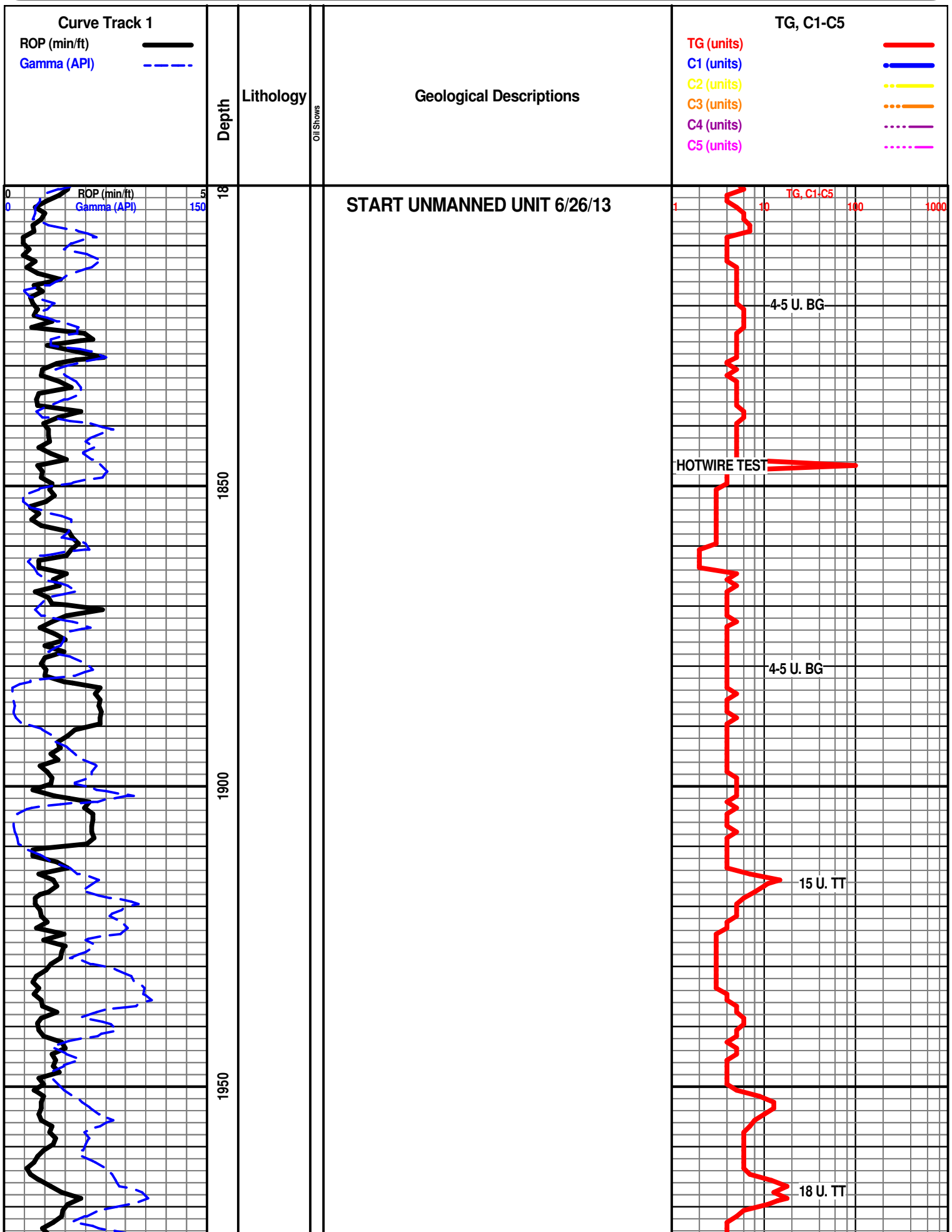
SORTING
- Well
- Moderate
- Poor

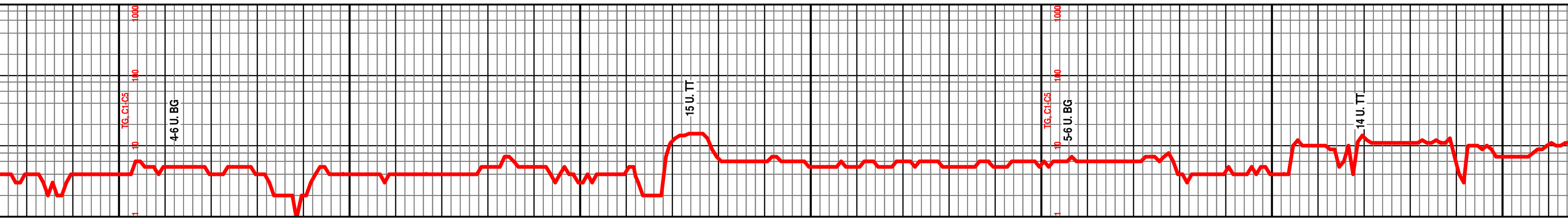
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

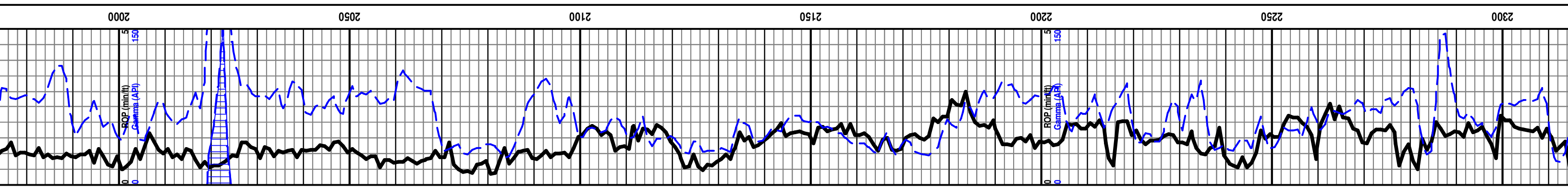
OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

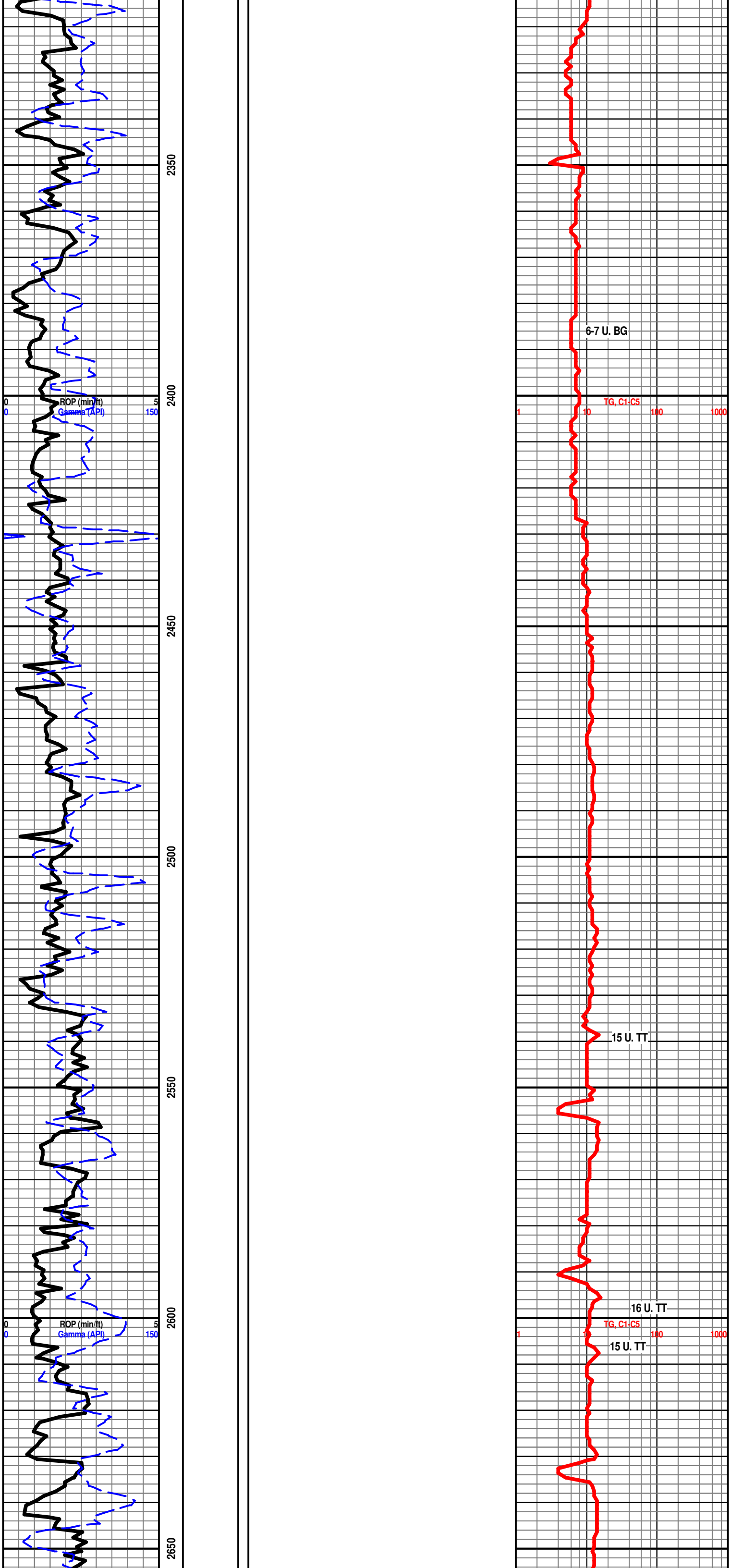
INTERVALS
- Core
- Dst
- Dst

EVENTS
- Rft
- Sidewall




TG, C1-C5
1000
100
10
1
4-6 U. BG
15 U. TT
TG, C1-C5
1000
100
10
1
5-6 U. BG
14 U. TT


2000
2050
2100
2150
2200
2250
2300
ROP (min/ft)
Gamma (API)
5
150
0
0
ROP (min/ft)
Gamma (API)
5
150
0
0


2350
2400
2450
2500
2550
2600
2650
0
ROP (min/ft)
5
0
Gamma (API)
150
6-7 U. BG
TG, C1-C5
1
10
100
1000
15 U. TT
16 U. TT
TG, C1-C5
1
10
100
1000
15 U. TT

2700

2750

2800

2850

2900

2950

0 ROP (min/ft) 5

0 Gamma (API) 150

F

F

10-11 U. BG

25 U. TT

BASE ROOT SHALE 3753' -743'

TG, C1-C5

1 10 100 1000

10 U. BG

GATES OPEN

GATES OPEN

HOWARD 2945' -935'

START 24 HOUR MANNED UNIT 6/27/13

LS- OFF WHT CRM, HD DNSE, FN-XLN TO MD-XLN, IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

4-6 U. BG CN

LS- CRM TO OFF WHT, HD DNSE, MD-FN-XLN, SCATT IMBD CALC XLS, TRS IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

TOPEKA 3007 -997'

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

3000
3050
3100
3150
3200
3250
3300

WOB 40
RPM 80
PP 950

WOB 40
RPM 80
PP 950

WT 9.9
VIS 35

WOB 40
RPM 80
PP 950

WT 9.1
VIS 35

WOB 40
RPM 80
PP 950

WT 9.2
VIS 52

DST #1
3307'-3356'

CFS @3311'

WOB 40
RPM 80
PP 800

WT 9.3
VIS 48

SH- GRY TO LT GRY, V/SFT BRITT, BLKY TO SLI SPLNTY

LS- OFF WH WHT LT CRM, HD DNSE TO SLI BRITT, MD-FN-XLN, RE-XLN MTRX IP, IMBD CALC XLS THRU IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- BLK SFT CARB

LS- OFF WHT TO MOTTED LT GRY, HD DNSE TO SLI BRIT, MD-XLN RE-XLN MTRX, IMBD DISS LT GRY SH, DLL YEL FLO,NO VIS POR, NO VIS CUT OR SHOW

SH- GRY TO MD GRY IP, SFT V/SFT BRITT, SPLNTY

LS- OFF WHT CRM, HD DNSE, FN-XLN TO SLI MD-XLN IP, RE-XLN MTRX, IMBD FOSS FRGS SCATT IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- DRK GRY TO BLK IP, V/SFT BRITT, SPLNTY, TRS BLK CARB IN TRAY

LE COMPTON 3111' -1101'

SH- GRY LT GRY, SLI FRM TO SFT BRIT, SPLNTY

LS- OFF WHT LT GRY IP, HD DNSE, MD-XLN, RE-XLN MTRX IP, IMBD FOSS FRGS IP, LT DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LS- WHT TO LT GRY IP, HD DNSE, FN-XLN RE-XLN MTRX, TRS IMBD CALC XLS, TRS IMBD LT GRY SH IP, DLL YEL FLO, NO VIS POR, NO VSI CUT OR SHOW

LS- WHT, HD DNSE, FN-XLN SLI RE-XLN, TRS IMBD PYR IP, PYR CLUSTERS IN TRAY, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS-OFF WHT WHT TO LT GRY MOTTED LT TN IP, HD DNSE, MD-FN-XLN TO MD-XLN, RE-XLN MTRX, ABDT IMBD FOSS FRGS THRU IP, TRS IMBD PYR, TRS IMBD CHLK IP, BLK SFT CARB IN TRAY, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

3190'-3196' LS- OFF HWT TO LT GRY MOTTED (W/ DRK BRWN TO BLK OIL STAIN ON 20%), HD DNSE TO SLI BRIT IP, FN-XLN TO MD-FN-XLN SLI RE-XLN MTRX IP, SFT WHT OFF WHT GMMY CHLK IN TRAY, TRS IMBD CALC XLS IP, TRS IMBD FOSS FRGS IP, DLL YEL FLO IN 50%, TRS INTER XLN POR IN 6% TO NO VIS POR, FR TO GD FLUSH CUT IN 30% GD SLW STRM CUT IN 20%

LS- OFF WHT WHT, HD DNSE, FN-XLN, OFF WHT WHT CHRT IN TRAY W/ IMBD FOSS FRGS, NO VIS FLO, NO VIS CUT NO VIS SHOW

HEEBNER 3242' -1232

LS- LT GRY TO OFF WHT IP, HD DNSE, MD-FN-XLN SLI RE-XLN, IMBD CALC XLS TRS IMBD PYR, TRS IMBD CHLK, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT WHT, HD DNSE, FN-XLN TO SLI RE-XLN SLI SUB-CHLKY MTRX IP, TRS IMBD CLAC XLS, TRS IMBD SFT WHT CHLK IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

DOUGLAS 3274' -1264'

SH- LT GRY GRY TO GRN, SFT V/BRIT, SPLNTY TO BLKY

LANSING 3301' -1291'

3308'-3310' LS- OFF WHT TO LT GRY IP (W/ LT TN TN OIL STAIN IN 6%), HD DNSE TO BRITT IP, MD-FN-XLN TO FN-XLN RE-XLN MTRX, TRS IMBD LT GRY SH IP, SCATT TRS IMBD CALC XLS IP, BRIT YEL GLD IN 55%, SCATT SMLL VUG POR IN 10%, PR FLUSH CUT IN 10% PR TO FR SLW STRM CUT IN 9%

LANSING "C" 3322' -1312'

LS- OFF WHT WHT, MD-FN-XLN, RE-XLN MTRX, TRS IMBD GLAUC, CRM TO TN CHRT IN TRAY, DLL YEL FLO IN 35%, NO VIS POR, NO VIS CUT OR SHOW, NO VIS CUT OR SHOW

C2
C1
TG, C1-C5
1 10 100 1000
8-9 U. BG
CN
33 U. TT
C3
C2
C1
11-13 U. BG
CN
11-13 U. BG
CN
CN
14-15 U. BG
C2
C1
CN
13-15 U. BG
CN
CN
9-11 U. BG
CN
17 U. TT
C2
C1
CN
11-14 U. BG
CN
CN

CFS @3346'

CFS @3356'

WOB 40
RPM 80
PP 900

DST #2
3361'-3404'

WT 9.3
VIS 52

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

CFS @3404'

WOB 40
RPM 80
PP 800

DST #3
3428'-3486'

WT 9.2
VIS 58

CFS @3430'

WOB 40
RPM 80
PP 800

CFS @3486'

WOB 42
VIS 55
PP 800

WT 9.3
VIS 55

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

WOB 42
VIS 55
PP 800

WT 8.8
VIS 62

3350 3400 3450 3500 3550 3600 3650

3338'-3342' LS- OFF WHT WHT CRM(W/ LT TN TN OIL STAIN ON 10%) HD TO V/V/BRITT, MD-XLN RE-XLN MTRX, IMBD CALC XLS, IMBD FOSS FRGS THRU IP, BRIT YEL GLD FLO IN 85%, DLL YEL GLD IN 15%, TRS FRACT POR IN 7% W/ LIVE LT TN TN OIL, FR FLUSH CUT IN 50% FR TO GD SLW STRM CUT IN 35%, GD OIL ODOR

LS- OFF WHT WHT CRM, HD DNSE, FN-MD-XLN SLI RE-XLN, TRS IMBD CALC XLS, TRS IMBD FOSS FRGS IP, LT TN CHRT IN TRAY, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY MD GRY TO SLI GRN IP, SFT BRITT, SPLNTY TO BLKY IP, BLK SFT CARB IN TRAY

LANSING "F" 3371' -1361'

3377'-3380' LS- OFF WHT CRM (W/ SCATT TN TO BRWN OIL STAIN ON 20%), HD DNSE TO BRITT, MD-XLN TO FN-XLN IP, SLI RE-XLN MTRX IP, IMBD OOL THRU, IMBD FOSS FRGS, TRS IMBD CALC XLS, SLI TRS IMBD PYR IP, TN CHRT IN TRAY, BRIT YEL GLD FLO IN 50% DLL YEL GLD FLO IN 45%, SCATT TRS INTER OOLITIC POR IN 15%, EXCEK FLUSH CUT IN 75%. FR TO GD SLW STRM CUT IN 27%, FR OIL ODOR, LT BRWN LCH ON DISH

3390'-3393' LS- OFF WHT WHT TO CRM(W/ LT BRWN OIL STAIN ON 14%), HD DNSE, MD-XLN, TRS SUB-CHLKY IP, ABDT IMBD CALC XLS THRU IP, OFF WHT WHT CHRT IN TRAY, DLL YEL GLD FLO IN 70%, TRS SMLL VUG POR IN 16%, FR FLSH CUT IN 24% FR SLW STRM CUT IN 12%, FR OIL ODOR

LS- CRM TO MOTTED LT GRY, HD DNSE, FN-XLN, RE-XLN MTRX, IMBD LT GRY DISS SH, TRS IMBD FOSS FRGS, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT CRM, HD DNSE, SLI MD-FN-XLN, RE-XLN MTRX, IMBD CALC XLS IP, DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

LANSING "H" 3442' -1332'

SH- BLK SFT CARB

3445'-3450' LS- OFF WHT TN (W/ LT TN TN OIL STAIN ON 50%), HD TO BRIT, MD-XLN, ABDT IMBD FOSS FRGS THRU, TRS IMBD GLAUC IP, BRIT YEL GLD FLO IN 33% DLL YEL GLD IN 40%, TRS SMLL VUG POR IP TO TRS INTER FOSS POR IP, FR TO GD FLUSH CUT IN 20% GD SLW STRM CUT IN 25%, GD OIL ODOR

3464'-3467' LS- CRM TO TN (W/ TN OIL STAIN ON 60%), HD DNSE TO BRITT IP, FN-XLN TO MD-XLN IP, RE-XLN MTRX IP SLI SUB-CHLKY IP, TRS IMBD GLAUC IP, BRIT YEL GLD FLO IN 45% DLL YEL GLD IN 30%, SCATT SMLL VUG POR IN 26% TO TRS INTER XLN POR 5%, FR FLUSH CUT IN 34% FR SLW STRM CUT IN 15%, GD OIL ODOR

LS- OFF WHT WHT, HD DNSE, FN-XLN, RE-XLN MTRX, ABDT IMBD FOSS FRGS THRU, TRS IMBD GLAUC, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY DRK GRY TO BLK, SFT TO SLI FRM BRIT, TRS IMBD PYR IP, BLK CARB IN TRAY, SPLNTY

LS- OFF WHT TO LT GRY, HD DNSE, FN-XLN TO SLI MD-FN-XLN RE-XLN MTRX IP, IMBD CALC XLS IP, TRS IMBD LT GRY SH IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

BKC 3535' -1525'

LS- OFF WHT CRM, HD DNSE TO BRIT, MD-XLN, ABDT IMBD CALC XLS THRU, TRS IMBD LT GRY DISS SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- RED TO LT GRY MOTTED, SFT V/SFT TO GMMY, BLKY

LS- OFF WHT WHT, HD DNSE, FN-XLN TO SUB-CHLKY, SFT WHT GMMY CHLK IN TRAY, TRS LMND LT GRY SH IP, DLL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- WHT OFF WHT (W/ BLK OIL STAIN ON 5%), HD DNSE, FN-XLN TO SLI MD-XLN IP, TRS IMBD SMLL CALC GRNS IP, DLL YEL GLD IP, NO VIS POR, NO VIS CUT OR SHOW

ARBUCKLE 3592' -1582'

3595'-3600' DOL- OFF WHT TO LT GRY IP (W/ BLK TO DRK BRWN OIL STAIN ON 10%), HD DNSE, FN V/FN-XLN TO SLI MD-XLN IP, IMBD DOL XLS THRU IP, DLL YEL FLO IN 50%, NO VIS POR, NO VIS FLUSH CUT V/ PR SLW STRM CUT, NO ODOR

DOL- OFF WHT WHT, HD DNSE TO SLI BRIT IP, V/FN-XLN TO MD-XLN, TRS IMBD DOL XLS IP, TRS IMBD GLAUC, DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW

DOL- WHT, HD DNSE, V/FN-XLN TO FN- MD-XLN, TRS IMBD GLAUC, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

DOL- WHT TO LT GRN IP, HD DNSE, FN-XLN TO FN-MD-XLN, IMBD GLAUC IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

C3 C2 C1 30 U. TT
C5
CN

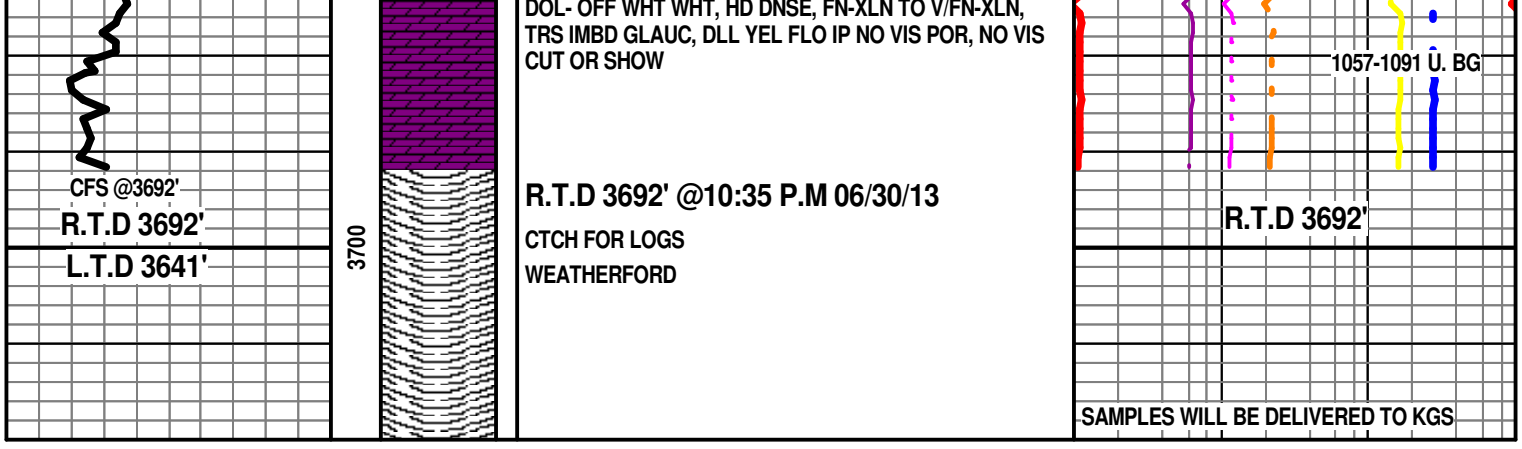
113 U. TT
97-99 U. BG
CN
C5
C4 C3 C2 C1 84-95 U. BG

TG, C1-C5
1 10 100 1000
CN
C4
C5
C3 70-82 U. BG
C2
C1
91 U. TT
CN

113 U. SHOW
CN
83-85 U. BG
C5
C3 C2 C1
C4 69-72 U. BG
103 U. TT

975 U. TT
CN
662 U. TT
654 U. TT
541-600 U. BG
CN
491-500 U. BG
CN
650 U. TT
540-560 U. BG
CN
1000-184 U. BG

TG, C1-C5
10 100 1000
CN
3600-3653 U. BG
C4 C5 C3
CN
C2 C1
986-1087 U. BG
CN


DOL- OFF WHT WHT, HD DNSE, FN-XLN TO V/FN-XLN,
TRS IMBD GLAUC, DLL YEL FLO IP NO VIS POR, NO VIS
CUT OR SHOW
1057-1091 U. BG
CFS @3692'
R.T.D 3692'
L.T.D 3641'
3700
R.T.D 3692' @10:35 P.M 06/30/13
CTCH FOR LOGS
WEATHERFORD
R.T.D 3692'
SAMPLES WILL BE DELIVERED TO KGS