Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1173649

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:

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 #:

9/5/2013	9/11/2013	9/13/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26604-00-00
Spot Description:
SW SE NE SW Sec. 12 Twp. 15 S. R. 16 ☐ East ☑ West
1470 Feet from ☐ North / ☑ South Line of Section
2025 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: TRUAN ET AL Well #: 1-12
Field Name:
Producing Formation: N/A
Elevation: Ground: 1898 Kelly Bushing: 1908
Total Vertical Depth: 3506 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 864 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: 79000 ppm Fluid volume: 320 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: CRAIG, WARD DBA CRAIG OIL COMPANY
Lease Name: NUSS 1 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: 12/19/2013
☑ **Confidential Release Date:** 12/19/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 12/19/2013

1173649

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: TRUAN ET AL Well #: 1-12

Sec. 12 Twp. 15 S. R. 16 ☐ 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	2884	-976
HEEBNER	3103	-1195
DOUGLAS	3136	-1228
LANSING	3156	-1248
ARBUCKLE	3420	-1512
TD	3506	

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	864	COMMON CLASS A	350	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	TRUAN ET AL 1-12
Doc ID	1173649

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL GR

Date: 9/6/2013
Invoice # 7373

P.O.#:

Due Date: 10/6/2013
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
SEP 16 2013
SAMUEL GARY JR. & ASSOCIATES, INC.

Reference:
Traun ET AL 1-12

Description of Work:
LONG SURFACE JOB

☐ DRLG ☐ COMP ☐ W/O ☐ LOE ☐ GG

Account	820.138
Well/Prospect	
Deck	
AFE	
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable
Labor		$ 991.39	No
Common-Class A	350	$ 5,700.00	Yes
8 5/8" Basket	3	$ 1,029.26	Yes
Bulk Truck Matl-Material Service Charge	370	$ 803.43	No
Calcium Chloride	13	$ 672.69	Yes
Pump Truck Mileage-Job to Nearest Camp	21	$ 227.54	No
8 5/8" Centralizer	3	$ 208.46	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	$ 133.15	No
Premium Gel (Bentonite)	7	$ 123.73	Yes
8 5/8" Top Rubber Plug	1	$ 115.09	Yes
Baffle Plate Aluminum, 8 5/8"	1	$ 97.71	Yes

Item	Quantity	Price	Taxable

Invoice Terms:
Net 30

SubTotal:	$	*10,102.44*
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	$	(1,515.37)
SubTotal for Taxable Items:	$	6,754.89
SubTotal for Non-Taxable Items:	$	1,832.19
Total:	$	8,587.07
6.15% Ellis County Sales Tax Tax:	$	415.43
Amount Due:	**$**	**9,002.50**
Applied Payments:		
Balance Due:	**$**	**9,002.50**

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.** 7373

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-6-13	12	15	16	Ellis	KS		10:00

Location Gorham S to End of Blacktop 2S W

Lease Truan ETAL Well No. 1-12 Owner 1/2W Pinto

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.

Hole Size 12 1/4 T.D. 864

Csg. 8 5/8 Depth 864

Charge To Sam Gary Jr & Assoc.

Street

Tbg. Size Depth

City State

Tool Depth

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

Cement Left in Csg. 42.54 Shoe Joint 42.54

Cement Amount Ordered 350 com 3%CC 2%Gel

Meas Line Displace 52.4 BBL

EQUIPMENT

Pumptrk 17 No. Cementer Craig / Helper

Bulktrk No. Driver Gary / Driver

Bulktrk 13 No. Driver Driver Chad

JOB SERVICES & REMARKS

Remarks: Truan ETAL 1-12

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

8 5/8 on bottom Est Circulation Mix 350sks Displace Cement Circulated!

Common	350
Poz. Mix	
Gel.	7
Calcium	13
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	370
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	3
Baskets	3
~~AFU Inserts~~	Bottle Plate
~~Float Shoe~~	Rubber Plug
Latch Down	
Pumptrk Charge	Long Surface
Mileage	21
Tax	
Discount	
Total Charge	

X Signature

Date: 9/13/2013
Invoice # 6894

P.O.#:

Due Date: 10/13/2013
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

Account 820.145
Prospect
Description

RECEIVED
SEP 23 2013
SAMUEL GARY JR. & ASSOCIATES, INC.

Reference:
TRUAN ET AL 1-12

Description of Work:
PLUG JOB

Services / Items Included:	Quantity	Price	Taxable
Labor		$ 1,020.55	Yes
Common-Class A	132	$ 2,212.94	Yes
POZ Mix-Standard	88	$ 619.62	Yes
Bulk Truck Matl-Material Service Charge	228	$ 509.65	Yes
Pump Truck Mileage-Job to Nearest Camp	21	$ 234.24	Yes
Premium Gel (Bentonite)	8	$ 145.56	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	$ 137.07	Yes
Flo Seal	50	$ 111.76	Yes
Dry Hole Plug	1	$ 62.59	Yes

Item	Quantity	Price	Taxable

Invoice Terms:
Net 30

SubTotal:	$	*5,053.98*
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	$	(758.10)
SubTotal for Taxable Items:	$	4,295.88
SubTotal for Non-Taxable Items:	$	-
Total:	$	4,295.88
6.15% Ellis County Sales Tax Tax:	$	264.20
Amount Due:	**$**	**4,560.08**
Applied Payments:		
Balance Due:	**$**	**4,560.08**

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. 6894

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-13-13	12	15	16	Ellis	KS		11:15AM

Location Gorham S to End of Black Top

Lease Truan ETAL Well No. 1-12 Owner 2S 1W 1/2N

Contractor Val 6

Type Job Plug

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.

Hole Size 7 7/8 T.D.

Charge To Sam Gary Jr. & Associates

Csg. Depth Street

Tbg. Size Depth 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 220sx 60/40 4% gel

Meas Line Displace

EQUIPMENT

Pumptrk 17 No. Cementer Helper cody

Bulktrk 1 No. Driver Driver Lonnie M.

Bulktrk P4 No. Driver Driver Travis

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30sx

Mouse Hole 15sx

Centralizers

Baskets

D/V or Port Collar

50sx at 3410

25sx at 1004

90sx at 401

10sx at 40 with wood plug

Common	132
Poz. Mix	88
Gel.	8
Calcium	
Hulls	
Salt	
Flowseal	50#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	228
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

1 wood plug

Pumptrk Charge plug

Mileage 21

Tax

Discount

Total Charge

X Signature

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop
Ste 700
Denver, CO 80202
ATTN: Chris Mitchell

12-15-16 Ellis, KS

Truan 1-12

Job Ticket: 54437 **DST#: 3**

Test Start: 2013.09.10 @ 18:12:00

GENERAL INFORMATION:

Formation: **Lansing A-C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:05:00
Time Test Ended: 02:23:30

Test Type: Conventional Straddle (Reset)
Tester: Brannan L
Unit No: 53

Interval: 3176.00 ft (KB) To 3216.00 ft (KB) (TVD)
Total Depth: 3246.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

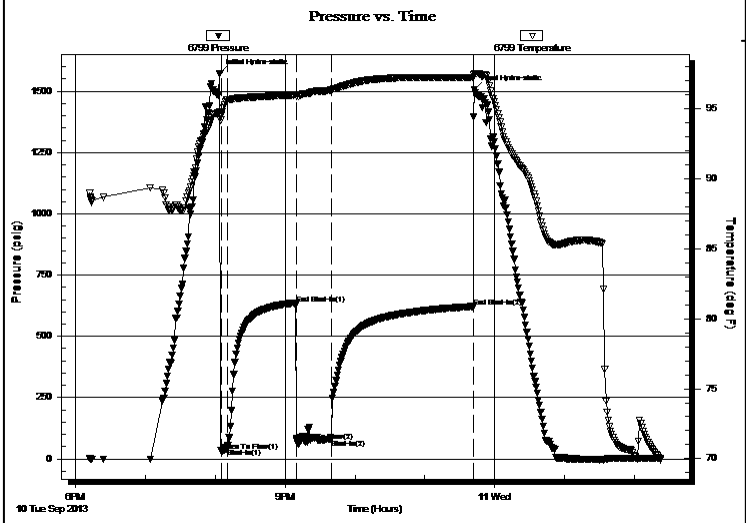
Reference Elevations: 1908.00 ft (KB)
1898.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6799 **Inside**

Press@RunDepth: 79.47 psig @ 3177.00 ft (KB)
Start Date: 2013.09.10 End Date: 2013.09.11
Start Time: 18:12:05 End Time: 02:23:29

Capacity: 8000.00 psig
Last Calib.: 2013.09.11
Time On Btm: 2013.09.10 @ 20:03:45
Time Off Btm: 2013.09.10 @ 23:42:45

TEST COMMENT: 005- IF- 5"
060- ISI- No blow
030- FF- Built to 8" in 16mins then slowly built another .5" over the final 14mins of flow period
120- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1573.09	94.79	Initial Hydro-static
2	30.53	94.55	Open To Flow (1)
7	41.94	95.64	Shut-In(1)
66	634.05	95.99	End Shut-In(1)
67	73.31	95.91	Open To Flow (2)
96	79.47	96.32	Shut-In(2)
218	621.61	97.20	End Shut-In(2)
219	1506.41	97.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OWM, 5%O 25%W 70%M	0.82
65.00	M, 100%M	0.89

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop
Ste 700
Denver, CO 80202
ATTN: Chris Mitchell

12-15-16 Ellis, KS

Truan 1-12

Job Ticket: 54437 **DST#: 3**

Test Start: 2013.09.10 @ 18:12:00

GENERAL INFORMATION:

Formation: **Lansing A-C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:05:00
Time Test Ended: 02:23:30

Test Type: Conventional Straddle (Reset)
Tester: Brannan L
Unit No: 53

Interval: 3176.00 ft (KB) To 3216.00 ft (KB) (TVD)
Total Depth: 3246.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

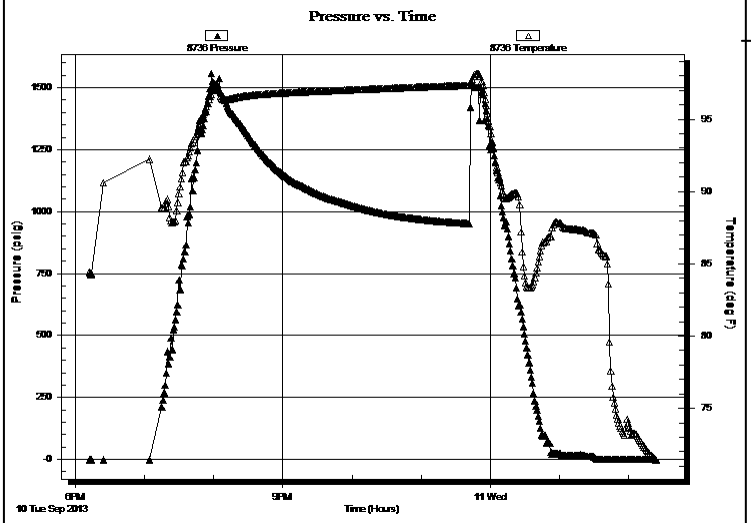
Reference Elevations: 1908.00 ft (KB)
1898.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8736 **Below (Straddle)**

Press@RunDepth: psig @ 3243.00 ft (KB)
Start Date: 2013.09.10 End Date: 2013.09.11
Start Time: 18:12:05 End Time: 02:24:14

Capacity: 8000.00 psig
Last Calib.: 2013.09.11
Time On Btm:
Time Off Btm:

TEST COMMENT: 005- IF- 5"
060- ISI- No blow
030- FF- Built to 8" in 16mins then slowly built another .5" over the final 14mins of flow period
120- FSI- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OWM, 5%O 25%W 70%M	0.82
65.00	M, 100%M	0.89

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop
Ste 700
Denver, CO 80202
ATTN: Chris Mitchell

12-15-16 Ellis, KS

Truan 1-12

Job Ticket: 54437 **DST#: 3**

Test Start: 2013.09.10 @ 18:12:00

GENERAL INFORMATION:

Formation: **Lansing A-C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:05:00
Time Test Ended: 02:23:30

Test Type: Conventional Straddle (Reset)
Tester: Brannan L
Unit No: 53

Interval: 3176.00 ft (KB) To 3216.00 ft (KB) (TVD)
Total Depth: 3246.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

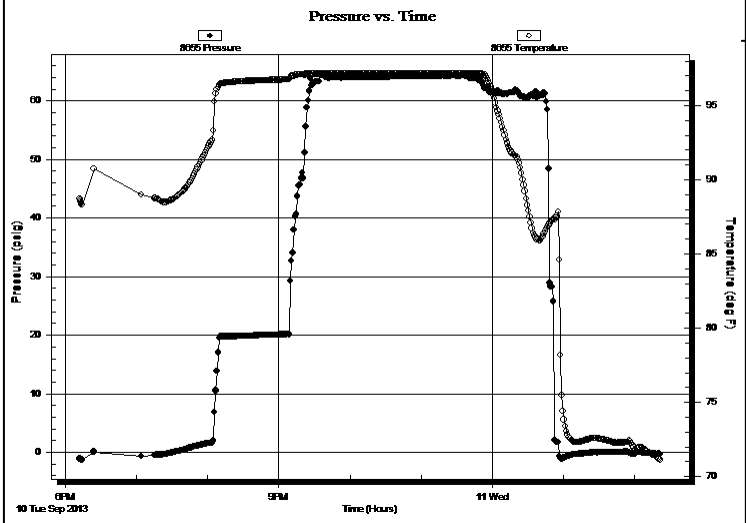
Reference Elevations: 1908.00 ft (KB)
1898.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8655 **Fluid**

Press@RunDepth: psig @ 3142.00 ft (KB)
Start Date: 2013.09.10 End Date: 2013.09.11
Start Time: 18:12:05 End Time: 02:22:14

Capacity: 8000.00 psig
Last Calib.: 2013.09.11
Time On Btm:
Time Off Btm:

TEST COMMENT: 005- IF- 5"
060- ISI- No blow
030- FF- Built to 8" in 16mins then slowly built another .5" over the final 14mins of flow period
120- FSI- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OWM, 5%O 25%W 70%M	0.82
65.00	M, 100%M	0.89

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop
Ste 700
Denver, CO 80202

ATTN: Chris Mitchell

12-15-16 Ellis, KS

Truan 1-12

Job Ticket: 54437 **DST#: 3**

Test Start: 2013.09.10 @ 18:12:00

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:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5100.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OWM, 5%O 25%W 70%M	0.820
65.00	M, 100%M	0.888

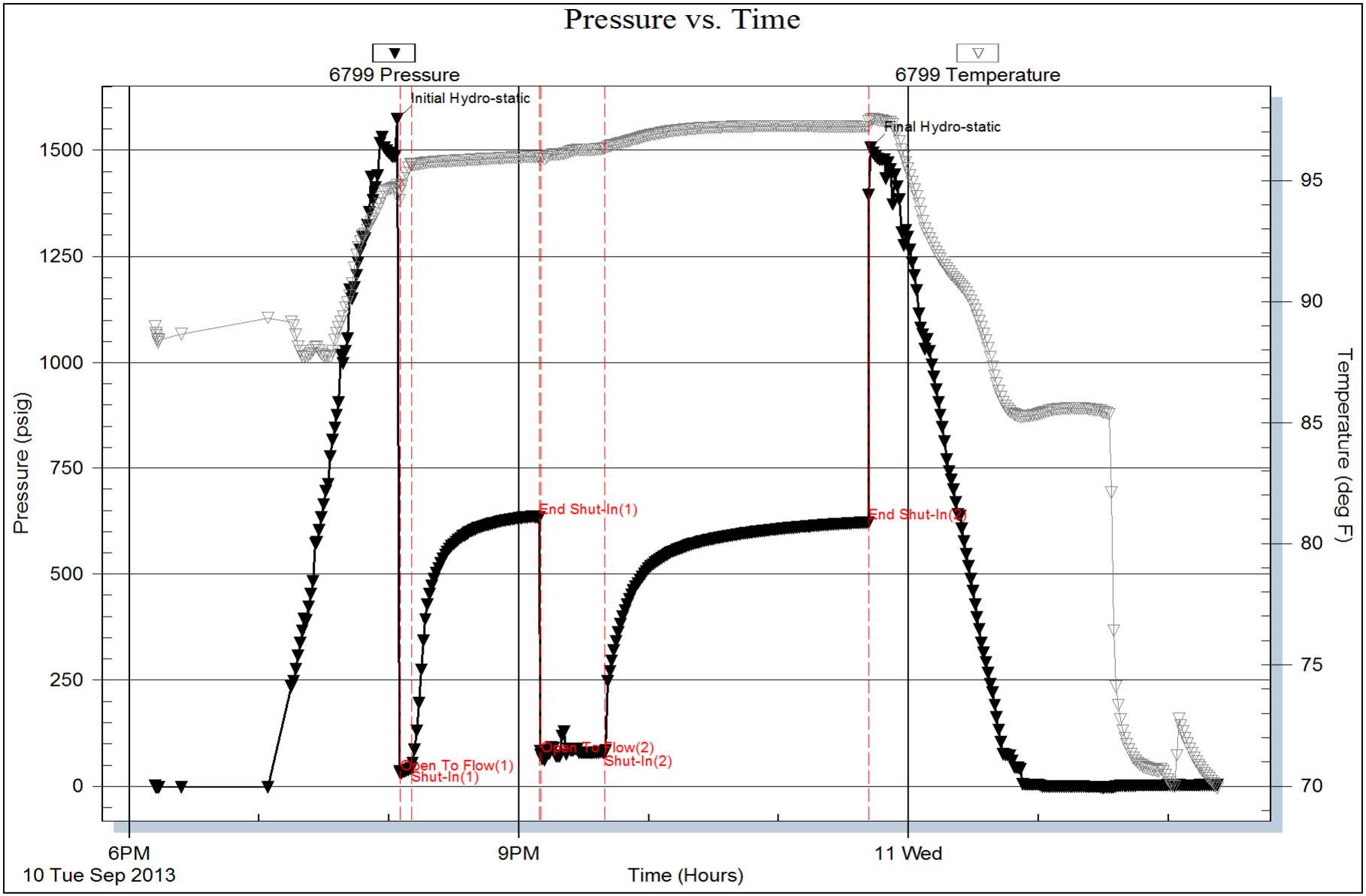
Total Length: 125.00 ft Total Volume: 1.708 bbl

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

Laboratory Name: Laboratory Location:

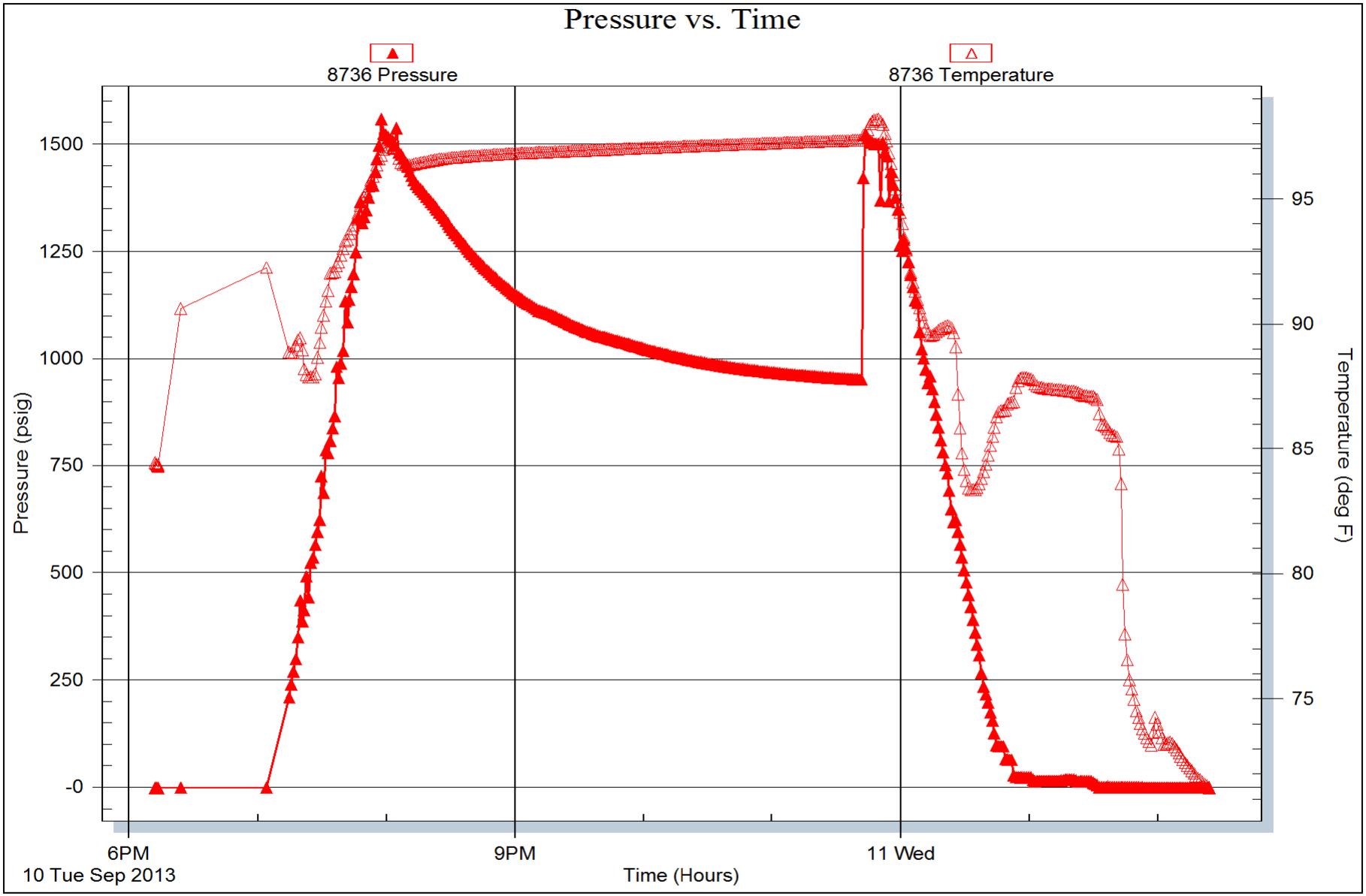
Recovery Comments: Sampler: 1900mLM 100mLO@220PSI

Serial #: 6799 **Inside** Samuel Gary Jr. & Associates, Inc Truan 1-12 DST Test Number: 3



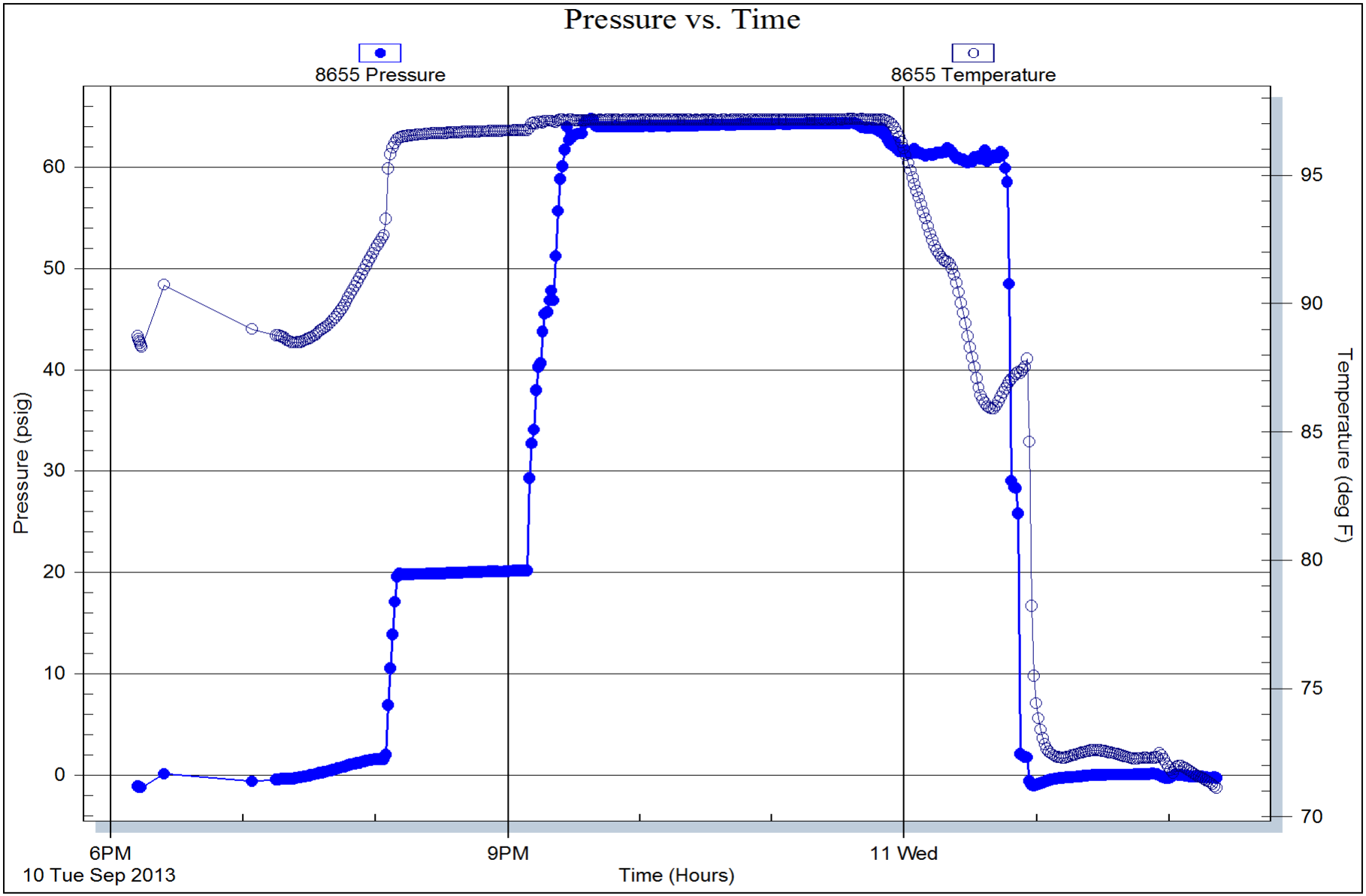
Trilobite Testing, Inc Ref. No: 54437 Printed: 2013.09.11 @ 08:39:59

Serial #: 8736 **Below (Straddle)** Samuel Gary Jr. & Associates, Inc Truan 1-12 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 54437 Printed: 2013.09.11 @ 08:39:59

Serial #: 8655 **Fluid** Samuel Gary Jr. & Associates, Inc Truan 1-12 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 54437 Printed: 2013.09.11 @ 08:40:00

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop
Ste 700
Denver, CO 80202
ATTN: Chris Mitchell

12-15-16 Ellis, KS

Truan 1-12

Job Ticket: 54438 **DST#: 4**

Test Start: 2013.09.12 @ 17:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:10:15
Time Test Ended: 02:34:30

Test Type: Conventional Straddle (Reset)
Tester: Brannan L
Unit No: 53

Interval: 3426.00 ft (KB) To 3435.00 ft (KB) (TVD)
Total Depth: 3510.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

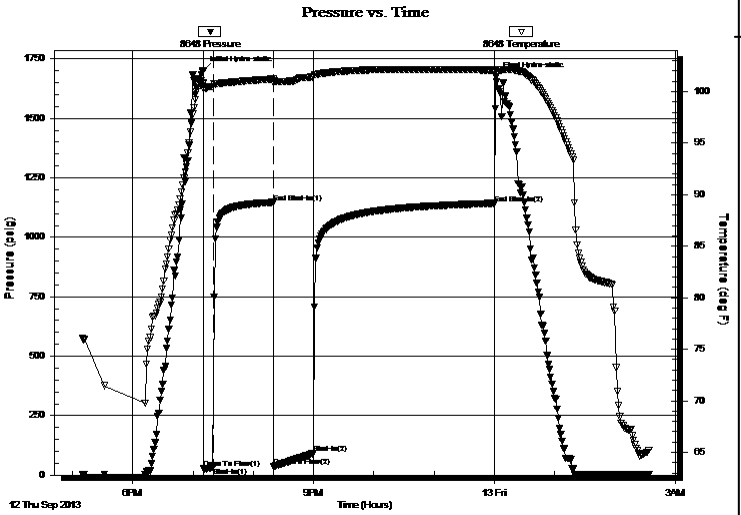
Reference Elevations: 1908.00 ft (KB)
1898.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8648 **Inside**

Press@RunDepth: 91.19 psig @ 3427.00 ft (KB)
Start Date: 2013.09.12 End Date: 2013.09.13
Start Time: 17:10:05 End Time: 02:34:30

Capacity: 8000.00 psig
Last Calib.: 2013.09.13
Time On Btm: 2013.09.12 @ 19:10:00
Time Off Btm: 2013.09.13 @ 00:01:30

TEST COMMENT: 010- IF- Built to 3"
060- ISI- No blow
040- FF- Built to 11"
180- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1702.48	100.75	Initial Hydro-static
1	27.28	100.24	Open To Flow (1)
11	34.35	100.51	Shut-In(1)
70	1147.21	101.22	End Shut-In(1)
71	36.14	100.87	Open To Flow (2)
110	91.19	101.43	Shut-In(2)
290	1142.98	102.09	End Shut-In(2)
292	1675.39	102.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MW w / show of oil, 10%M 90%W	2.05

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop
Ste 700
Denver, CO 80202
ATTN: Chris Mitchell

12-15-16 Ellis, KS

Truan 1-12

Job Ticket: 54438 **DST#: 4**

Test Start: 2013.09.12 @ 17:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:10:15
Time Test Ended: 02:34:30

Test Type: Conventional Straddle (Reset)
Tester: Brannan L
Unit No: 53

Interval: 3426.00 ft (KB) To 3435.00 ft (KB) (TVD)
Total Depth: 3510.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

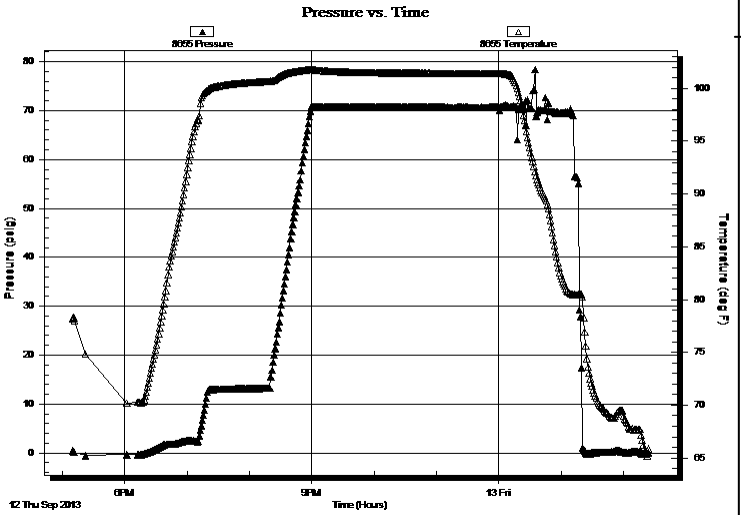
Reference Elevations: 1908.00 ft (KB)
1898.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8655 **Below (Straddle)**

Press@RunDepth: psig @ 3438.00 ft (KB)
Start Date: 2013.09.12 End Date: 2013.09.13
Start Time: 17:10:05 End Time: 02:23:45

Capacity: 8000.00 psig
Last Calib.: 2013.09.13
Time On Btm:
Time Off Btm:

TEST COMMENT: 010- IF- Built to 3"
060- ISI- No blow
040- FF- Built to 11"
180- FSI- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MW w / show of oil, 10%M 90%W	2.05

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop
Ste 700
Denver, CO 80202
ATTN: Chris Mitchell

12-15-16 Ellis, KS

Truan 1-12

Job Ticket: 54438 **DST#: 4**

Test Start: 2013.09.12 @ 17:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:10:15
Time Test Ended: 02:34:30

Test Type: Conventional Straddle (Reset)
Tester: Brannan L
Unit No: 53

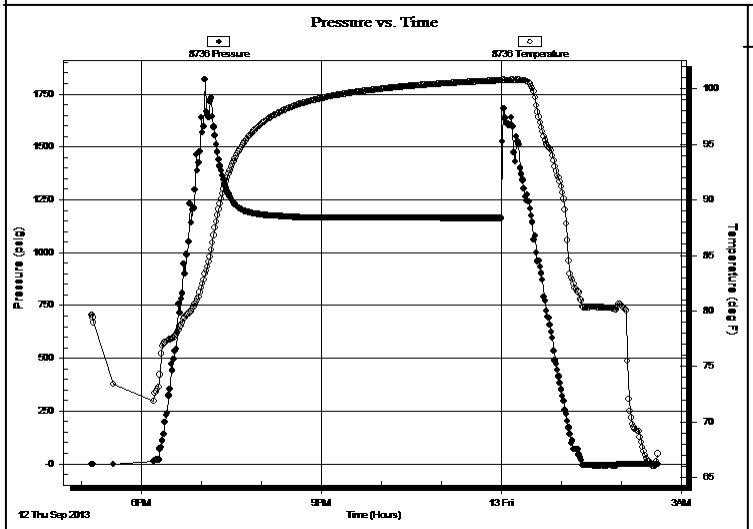
Interval: 3426.00 ft (KB) To 3435.00 ft (KB) (TVD)
Total Depth: 3510.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1908.00 ft (KB)
1898.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8736 **Fluid**
Press@RunDepth: psig @ 3392.00 ft (KB)
Start Date: 2013.09.12 End Date: 2013.09.13
Start Time: 17:10:05 End Time: 02:36:00

Capacity: 8000.00 psig
Last Calib.: 2013.09.13
Time On Btm:
Time Off Btm:

TEST COMMENT: 010- IF- Built to 3"
060- ISI- No blow
040- FF- Built to 11"
180- FSI- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MW w / show of oil, 10%M 90%W	2.05

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop
Ste 700
Denver, CO 80202

ATTN: Chris Mitchell

12-15-16 Ellis, KS

Truan 1-12

Job Ticket: 54438 **DST#: 4**

Test Start: 2013.09.12 @ 17:10:00

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:	2300 ppm
Viscosity:	61.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.60 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	MW w / show of oil, 10%M 90%W	2.049

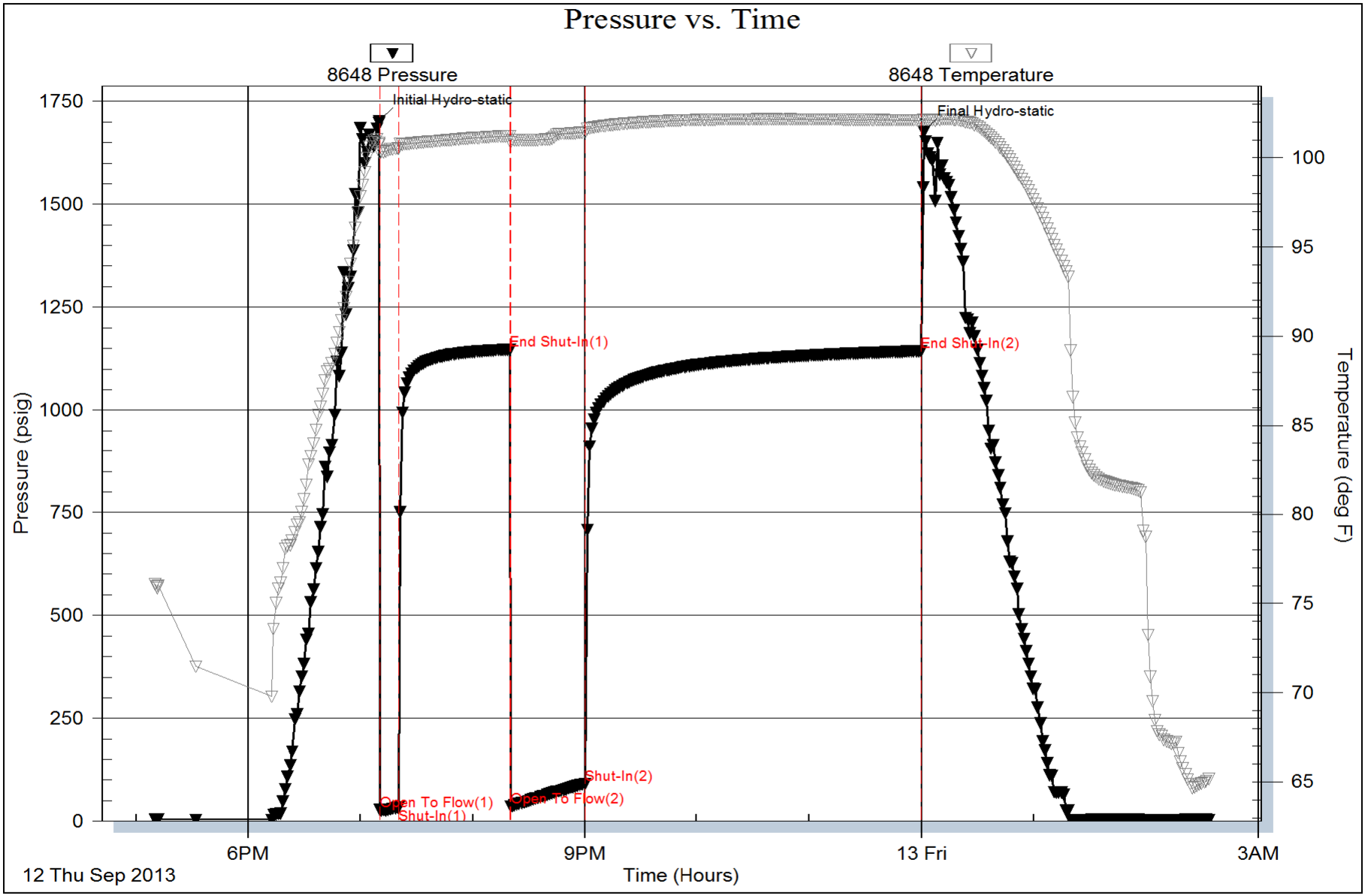
Total Length: 150.00 ft Total Volume: 2.049 bbl

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

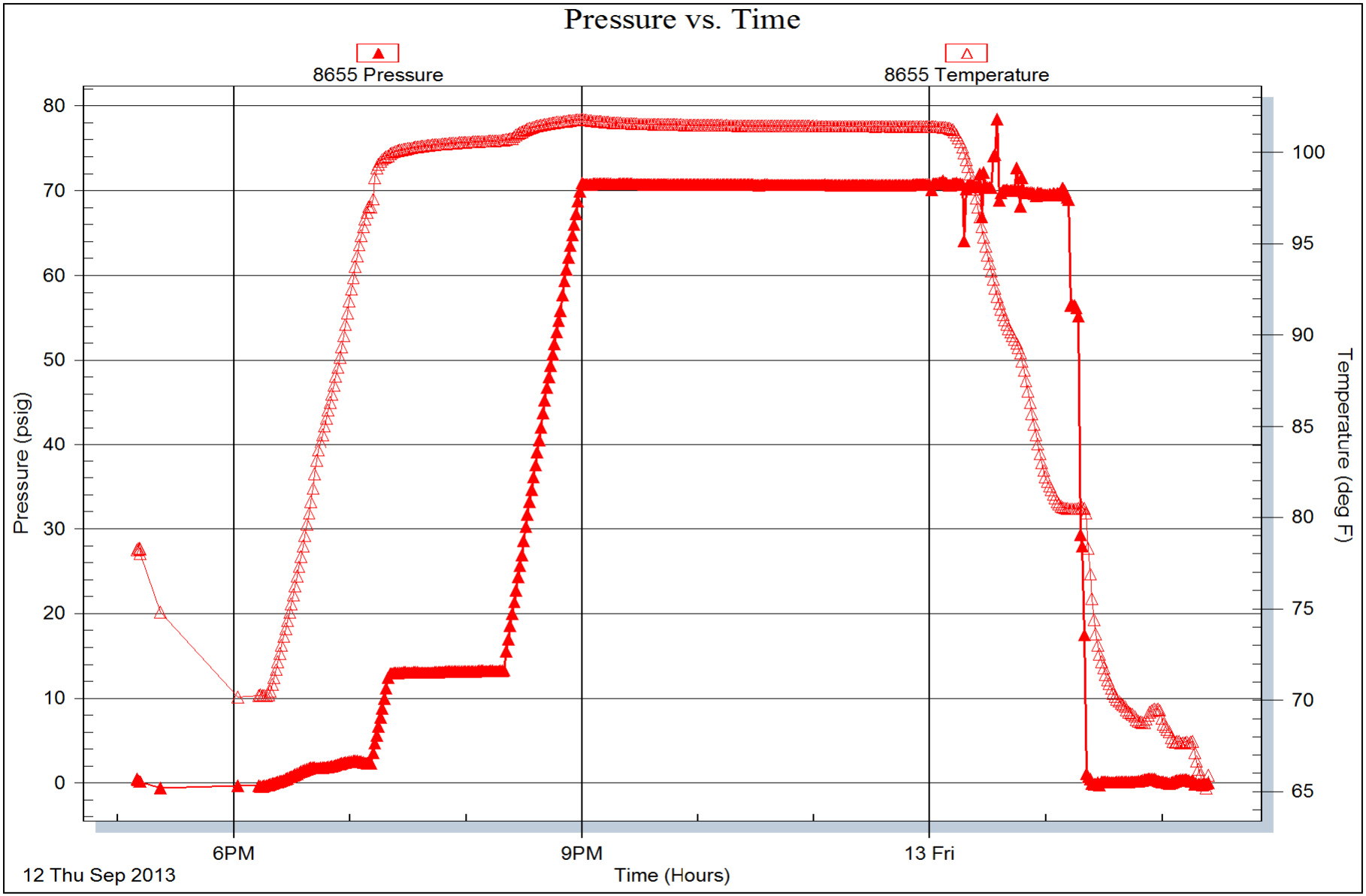
Laboratory Name: Laboratory Location:

Recovery Comments: Sampler: 2000mLW w / show of oil @ 300psi

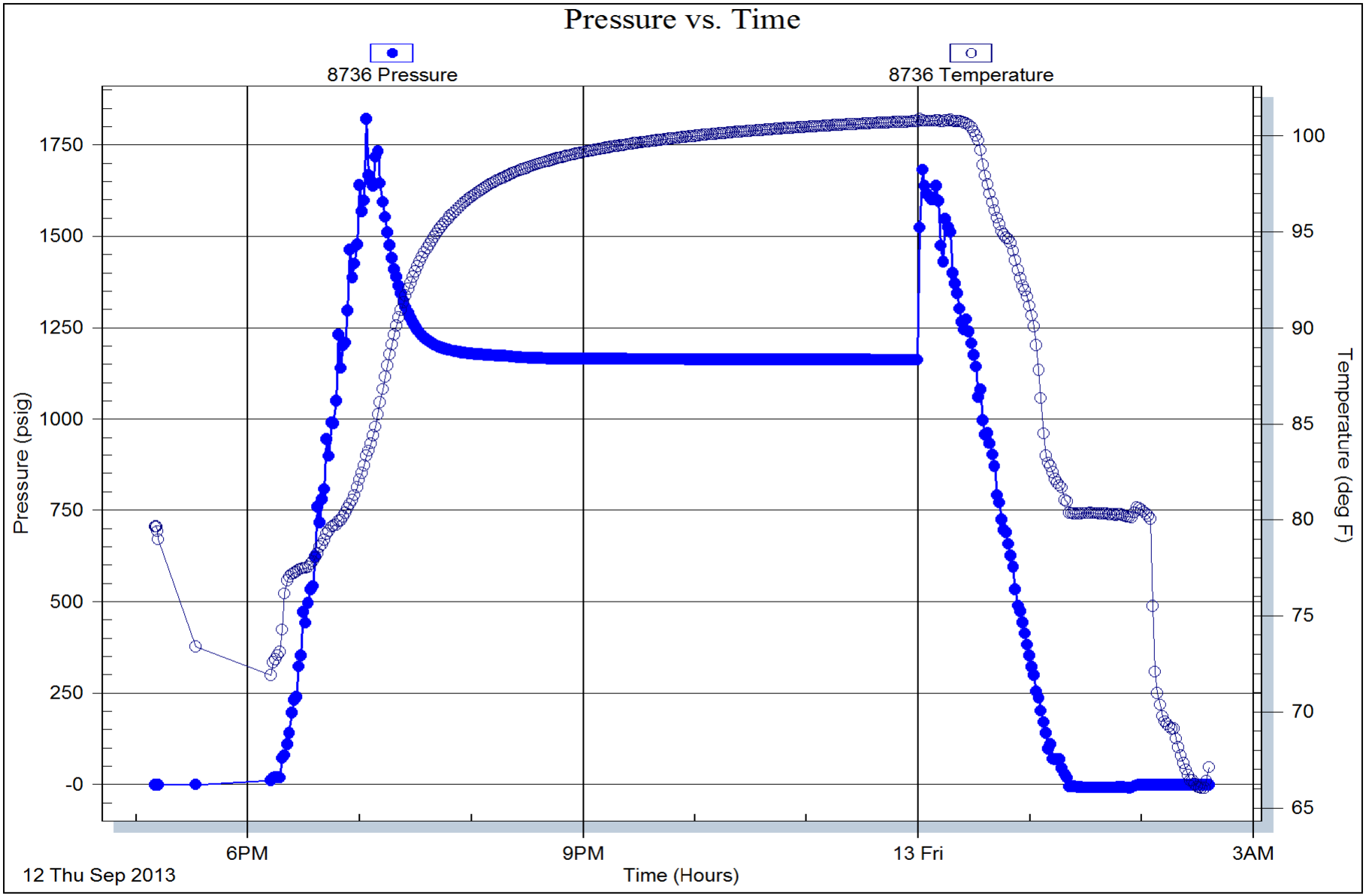
Serial #: 8648 **Inside** Samuel Gary Jr. & Associates, Inc Truan 1-12 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 54438 Printed: 2013.09.13 @ 07:48:42


Pressure vs. Time
8655 Pressure
8655 Temperature
Pressure (psig)
Temperature (deg F)
80
70
60
50
40
30
20
10
0
100
95
90
85
80
75
70
65
6PM
9PM
13 Fri
12 Thu Sep 2013
Time (Hours)

Serial #: 8736 **Fluid** Samuel Gary Jr. & Associates, Inc Truan 1-12 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 54438 Printed: 2013.09.13 @ 07:48:43

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates, Inc**

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Chris Mitchell

Truan #1-12

12-15s-16w Ellis, KS

Start Date: 2013.09.09 @ 00:00:00
End Date:
Job Ticket #: 54435 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.13 @ 11:46:00

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Chris Mitchell

12-15s-16w Ellis, KS

Truan #1-12

Job Ticket: 54435 **DST#: 1**

Test Start: 2013.09.09 @ 00:00:00

GENERAL INFORMATION:

Formation: **LKC A-C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)
Tester: Brannan L
Unit No: 53

Interval: 3170.00 ft (KB) To 3229.00 ft (KB) (TVD)
Total Depth: 3229.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

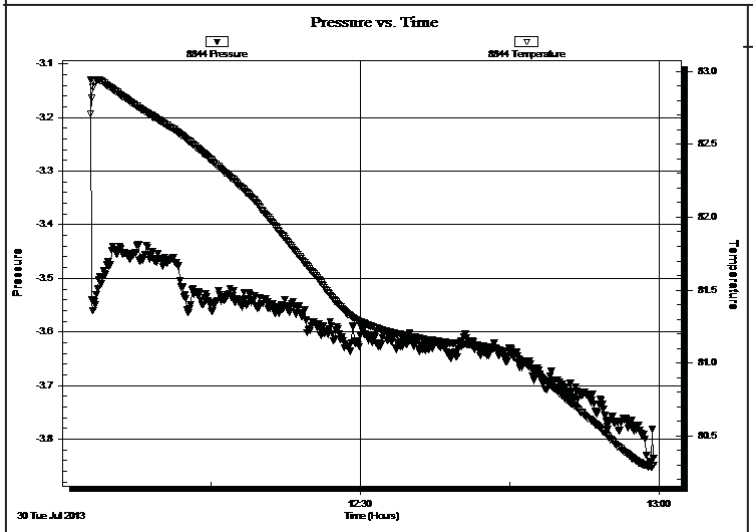
Reference Elevations: 1908.00 ft (KB)
1898.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8844

Press@RunDepth: psig @ ft (KB)
Start Date: 2013.07.30 End Date: 2013.07.30
Start Time: 12:02:58 End Time: 12:59:28

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: Mis-run took w eight a stand off bottom



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
	no recorders attached	

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Chris Mitchell

12-15s-16w Ellis, KS

Truan #1-12

Job Ticket: 54435 **DST#: 1**

Test Start: 2013.09.09 @ 00:00:00

Tool Information

Drill Pipe:	Length:	3158.00 ft	Diameter:	3.75 inches	Volume:	43.14 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	43.14 bbl	

Drill Pipe Above KB:	22.00 ft
Depth to Top Packer:	3170.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	59.00 ft
Tool Length:	93.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	50000.00 lb
Tool Chased	15.00 ft
String Weight: Initial	48000.00 lb
Final	48000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	5.00			3141.00		
Shut In Tool	5.00			3146.00		
Sampler	2.00			3148.00		
Hydraulic tool	5.00			3153.00		
Jars	5.00			3158.00		
Safety Joint	2.00			3160.00		
Packer	5.00			3165.00	34.00	Bottom Of Top Packer
Packer	5.00			3170.00		
Stubb	1.00			3171.00		
Recorder	0.00	6799	Inside	3171.00		
Recorder	0.00	8648	Inside	3171.00		
Perforations	22.00			3193.00		
Change Over Sub	1.00			3194.00		
Drill Pipe	31.00			3225.00		
Change Over Sub	1.00			3226.00		
Bullnose	3.00			3229.00	59.00	Bottom Packers & Anchor
Total Tool Length:	**93.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Chris Mitchell

12-15s-16w Ellis, KS

Truan #1-12

Job Ticket: 54435 **DST#: 1**

Test Start: 2013.09.09 @ 00:00:00

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:	64.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4300.00 ppm				
Filter Cake:	inches				

Recovery Information

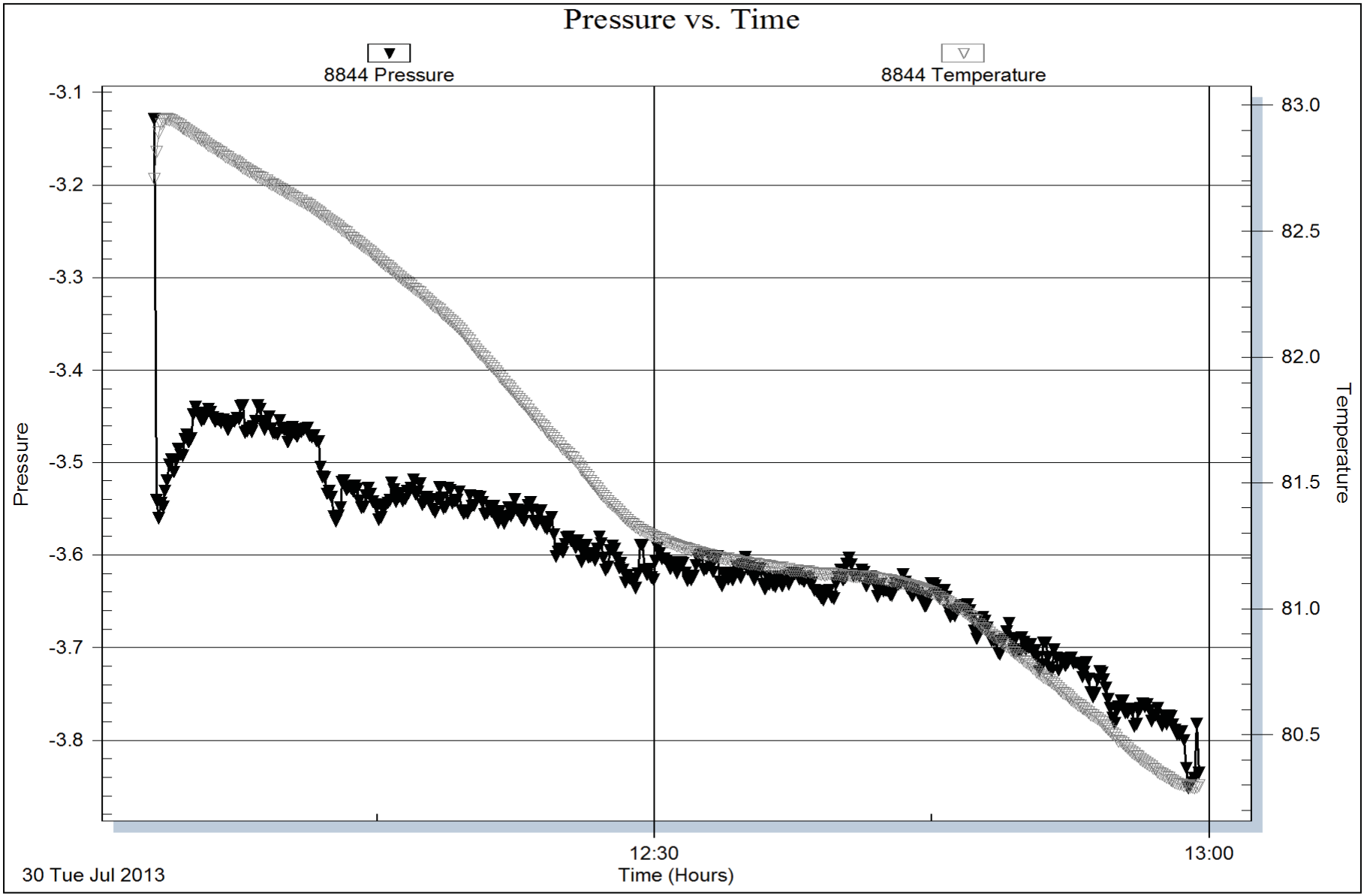
Recovery Table

Length ft	Description	Volume bbl
	no recorders attached	

Total Length: ft Total Volume: bbl

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

Serial #: 8844 Samuel Gary Jr. & Associates, Inc Truan #1-12 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 54435 Printed: 2013.09.13 @ 11:46:02

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr. & Associates, Inc**

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Chris Mitchell

Truan #1-12

12-15s-16w Ellis, KS

Start Date: 2013.09.09 @ 00:00:00

End Date:

Job Ticket #: 54436 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.09.13 @ 11:45:24

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Chris Mitchell

12-15s-16w Ellis, KS

Truan #1-12

Job Ticket: 54436 **DST#: 2**

Test Start: 2013.09.09 @ 00:00:00

GENERAL INFORMATION:

Formation: **LKC A-C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened:
Time Test Ended:

Test Type: Conventional Bottom Hole (Reset)
Tester: Brannan L
Unit No: 53

Interval: 3170.00 ft (KB) To 3229.00 ft (KB) (TVD)
Total Depth: 3229.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

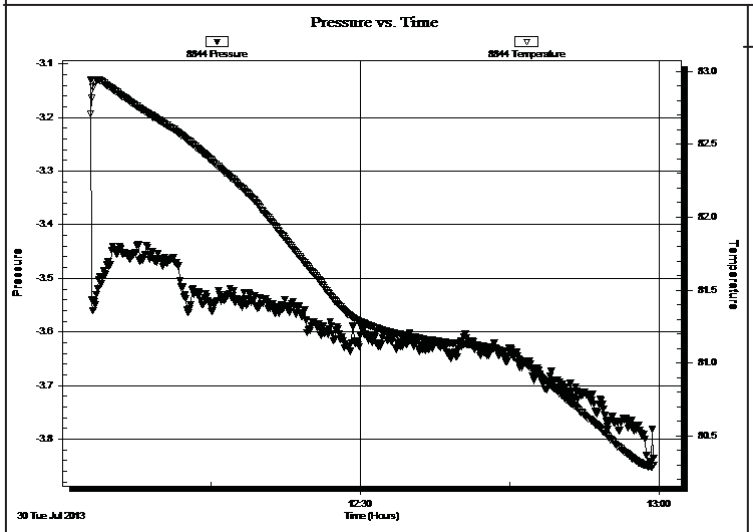
Reference Elevations: 1908.00 ft (KB)
1898.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8844

Press@RunDepth: psig @ ft (KB)
Start Date: 2013.07.30 End Date: 2013.07.30
Start Time: 12:02:58 End Time: 12:59:28

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: Mis-run tool is still 15' from bottom w hen it takes w eight



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
	no recorders attached	

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Chris Mitchell

12-15s-16w Ellis, KS

Truan #1-12

Job Ticket: 54436 **DST#: 2**

Test Start: 2013.09.09 @ 00:00:00

Tool Information

Drill Pipe:	Length:	3158.00 ft	Diameter:	3.75 inches	Volume:	43.14 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	43.14 bbl	

Drill Pipe Above KB:	22.00 ft
Depth to Top Packer:	3170.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	59.00 ft
Tool Length:	93.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	50000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	48000.00 lb
Final	48000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	5.00			3141.00		
Shut In Tool	5.00			3146.00		
Sampler	2.00			3148.00		
Hydraulic tool	5.00			3153.00		
Jars	5.00			3158.00		
Safety Joint	2.00			3160.00		
Packer	5.00			3165.00	34.00	Bottom Of Top Packer
Packer	5.00			3170.00		
Stubb	1.00			3171.00		
Recorder	0.00	6799	Inside	3171.00		
Recorder	0.00	8648	Inside	3171.00		
Perforations	22.00			3193.00		
Change Over Sub	1.00			3194.00		
Drill Pipe	31.00			3225.00		
Change Over Sub	1.00			3226.00		
Bullnose	3.00			3229.00	59.00	Bottom Packers & Anchor
Total Tool Length:	**93.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Associates, Inc

1515 Wynkoop Ste 700
Denver, CO 80202

ATTN: Chris Mitchell

12-15s-16w Ellis, KS

Truan #1-12

Job Ticket: 54436 **DST#: 2**

Test Start: 2013.09.09 @ 00:00:00

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:	64.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4300.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
	no recorders attached	

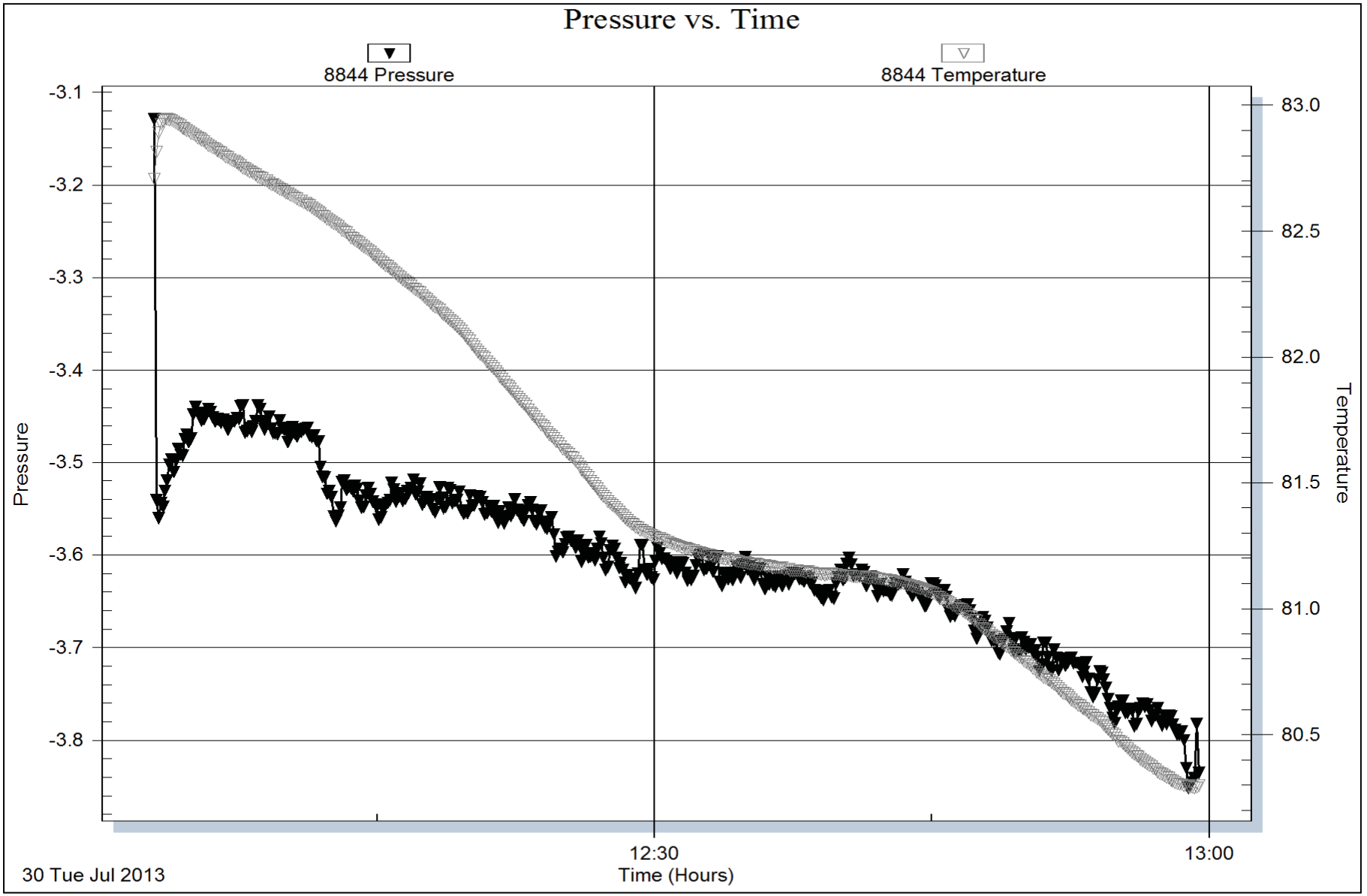
Total Length: ft Total Volume: bbl

Num Fluid Samples: Num Gas Bombs: Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8844 Samuel Gary Jr. & Associates, Inc Truan #1-12 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 54436 Printed: 2013.09.13 @ 11:45:25

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

Well Name:	Truan et al 1-12		
Location:	Sec. 12-15s-16w, Ellis County, Kansas		
License Number:	15-051-26604	Region:	Wildcat
Spud Date:	09/05/2013	Drilling Completed:	09/12/2013
Surface Coordinates:	1470'FsL, 2025' FwL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	1898'	K.B. Elevation (ft):	1908'
Logged Interval (ft):	1800' To: 3510'	Total Depth (ft):	3510'
Formation:			
Type of Drilling Fluid:			

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 3170'-3229'
1ST TRY- MISS RUN STACKED OUT A STAND OFF BOTTOM
2ND TRY- MISS RUN TOOL IS TAKING WEIGHT 15' FROM BOTTOM

DST's Report

DST #2 3176'-3216' 5 60 30 120
IF-5" IN 5MIN/ ISI-NB/ FF-8" IN 16MIN/ FSI-NB
IH-1573/ IF-31 TO 42/ ISI-634/ IS-73 TO 79/ FSI-622/ FH-1506
RECOVERY- 60' OWM 5%O 25%W 70%M/ 65' MUD 100%M
SAMPLER RECOVERY OIL 100ML, MUD 1900ML, 220PSI, TOTAL 2000PSI
PIT CHLORIDES- 5100PPM/ VIS 58/ MW 9.0

DST's Report

DST #3 3426'-3435' 10 60 40 180
IF- 3"/ ISI-NB/ FF-BUILT TO 11"/ FSI-NB
IH-1702/IF- 27 TO 34/ISI-1147/ IS-36 TO 91/ FSI-1143/ FH-1675
RECOVERY-150' MW W/ SHOW OF OIL
SAMPLER REC.-WATER 2000ML/ 300PSI/ TOTAL 2000PSI

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

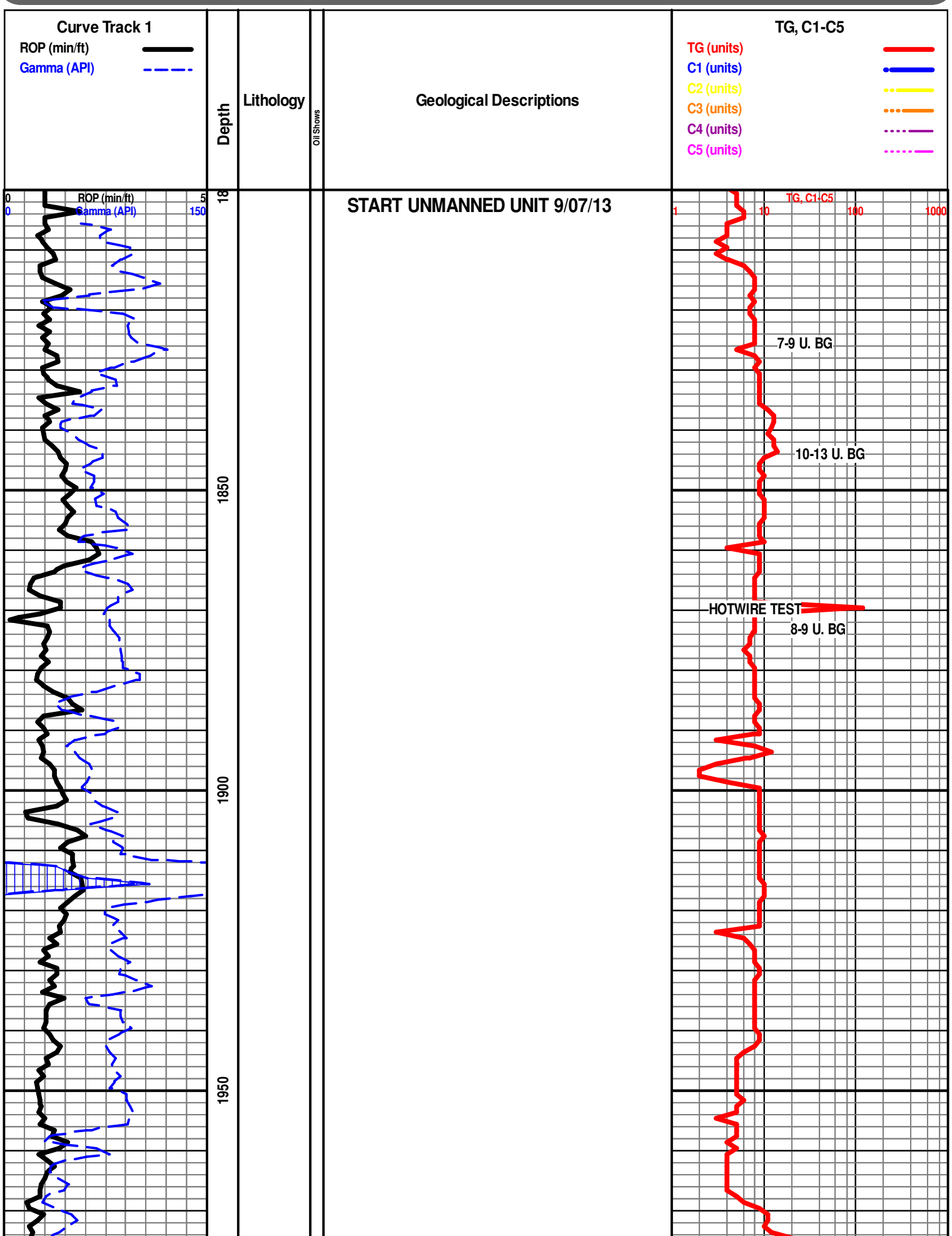
SORTING
- Well
- Moderate
- Poor

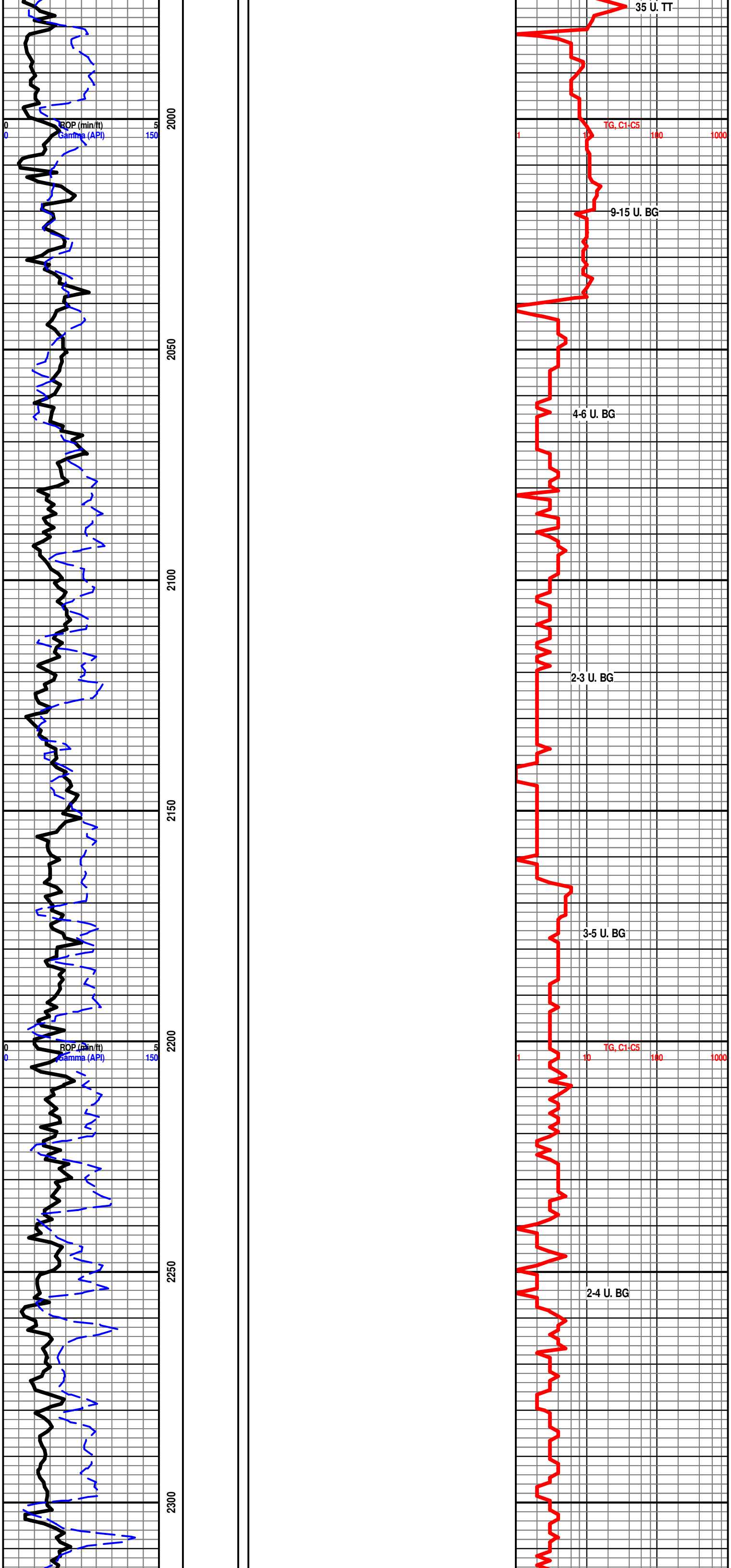
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

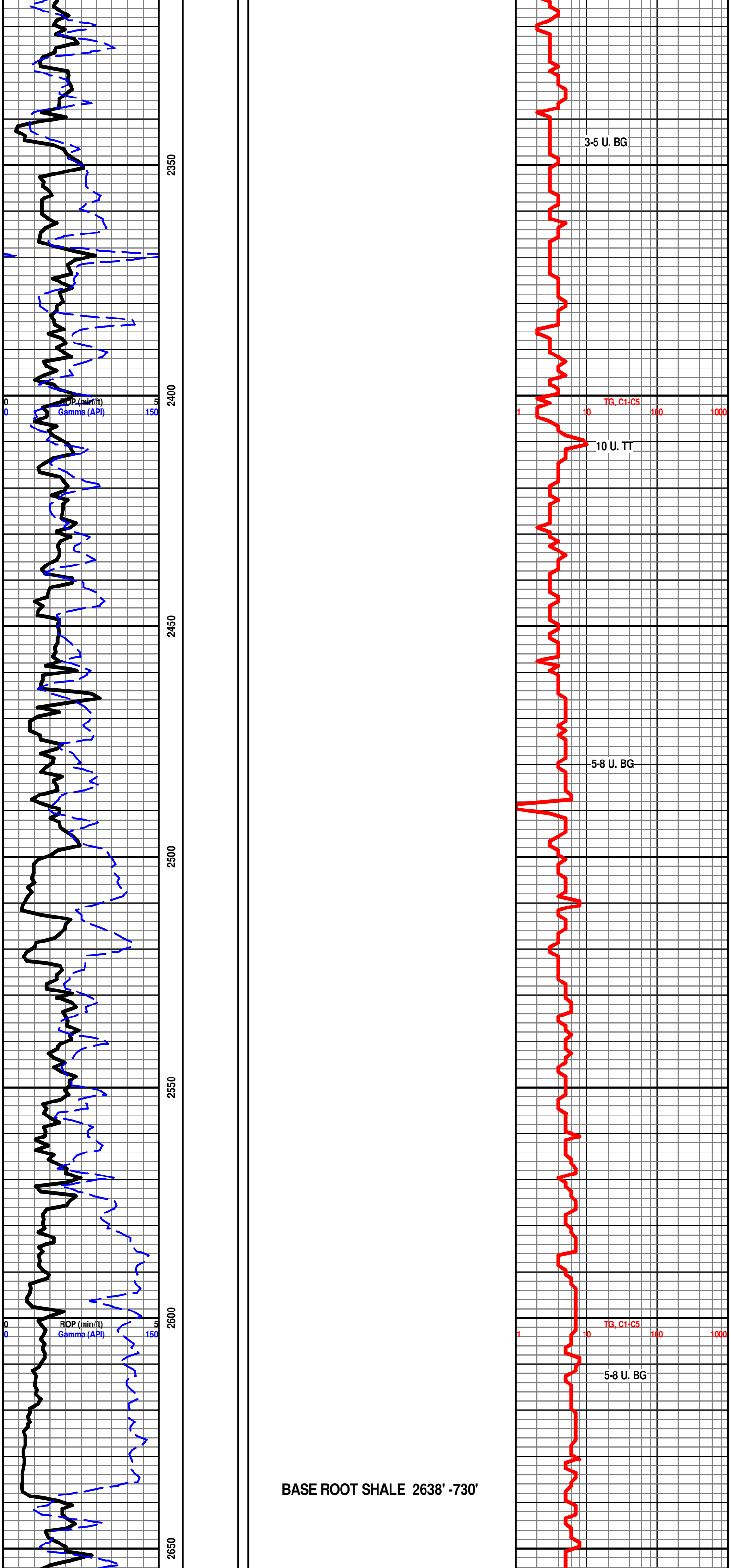
OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

INTERVALS
- Core
- Dst
- Dst

EVENTS
- Rft
- Sidewall




0
ROP (min/ft)
5
0
Gamma (API)
150
2000
2050
2100
2150
2200
2250
2300
TG, C1-C5
1
10
100
1000
35 U. TT
9-15 U. BG
4-6 U. BG
2-3 U. BG
3-5 U. BG
2-4 U. BG



BASE ROOT SHALE 2638' -730'

2700

2750

2800

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

2850

2900

WOB 39
VIS 80
PP 800

WT 8.9
VIS 51

2950

WOB 39
VIS 80
PP 800

HOWARD 2827' -919'

START 24 HOUR MANNED UNIT 9/08/13

LS- OFF WHT WHT, HD DNSE TO BRITT IP, FN-XLN TO SLI MD-FN-XLN, RE-XLN MTRX, TRS IMBD SFT WHT CHLK IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SEVERY 2873' -965'

SH- GRY TO MD GRY, SFT BRITT TO FRM IP, SPLNTY

TOPEKA 2889' -981'

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

LS- OFF WHT TO LT GRY GRY, HD DNSE, FN-XLN, RE-XLN MTRX, TRS IMBD FOSS FRGS IP, NO VIS POR, NO VIS CUT OR SHOW

LS- LT GRY GRY TO OFF WHT LT TN, HD DNSE, FN-XLN V/ FN-XLN, DRK GRY TO BLK CHRT IN TRAY, TRS IMBD FOSS FRGS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- BLK SFT CARB

LE COMPTON 2981' -1073'

LS- OFF WHT WHT CRM TO LT GRY IP, HD DNSE, V/

C

F

F

F

F

2-4 U. BG

DISPLACE HOLE

TG, C1-C5

CHANGE OUT GAS SNIFFER

1 100 1000

18-20 U. BG

CN

19-25 U. BG

CN

28-31 U. BG

C3 C2 C1

CN

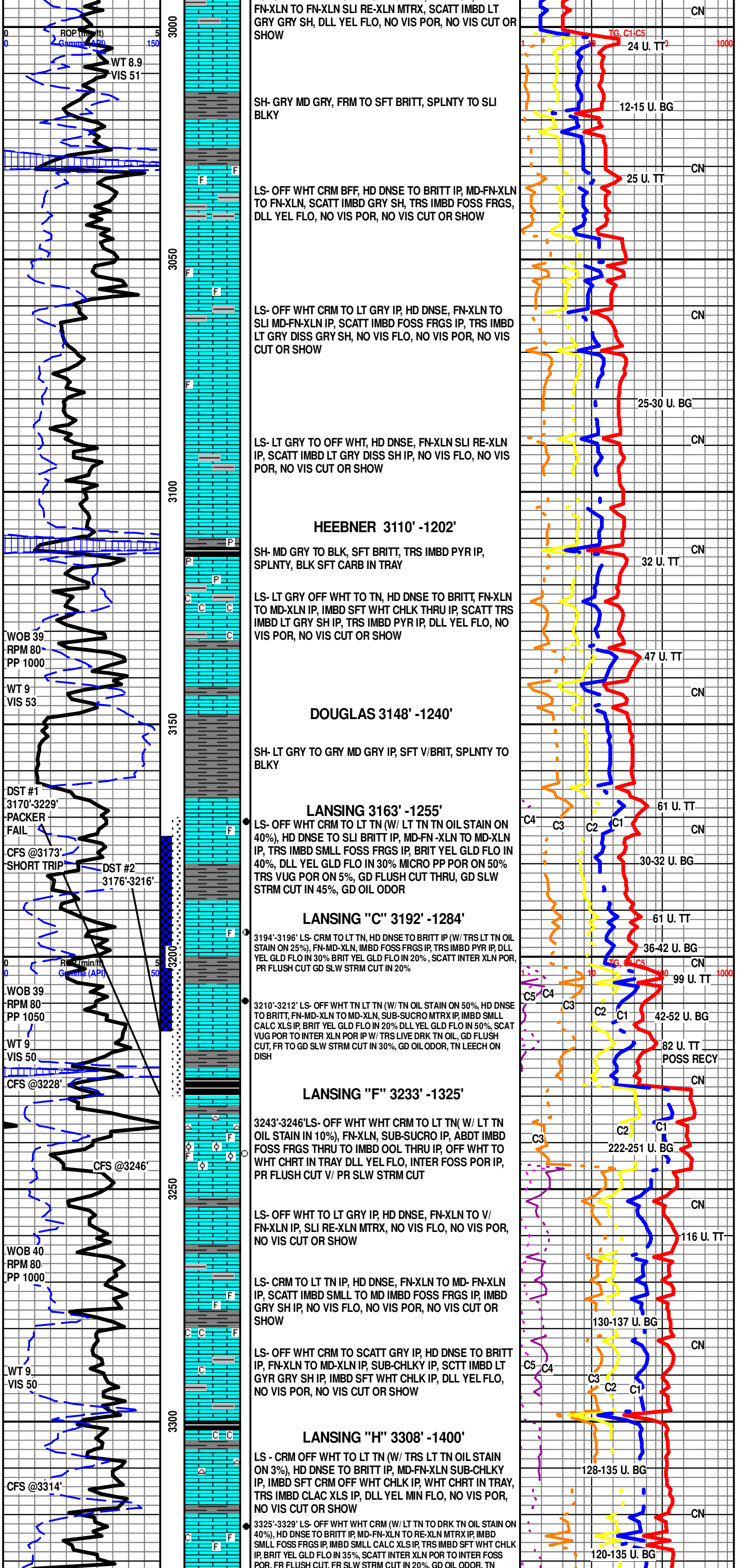
26-30 U. BG

CN

CN

38 U. TT

GATE LEFT OPEN



FN-XLN TO FN-XLN SLI RE-XLN MTRX, SCATT IMBD LT GRY GRY SH, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY MD GRY, FRM TO SFT BRITT, SPLNTY TO SLI BLKY

LS- OFF WHT CRM BFF, HD DNSE TO BRITT IP, MD-FN-XLN TO FN-XLN, SCATT IMBD GRY SH, TRS IMBD FOSS FRGS, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT CRM TO LT GRY IP, HD DNSE, FN-XLN TO SLI MD-FN-XLN IP, SCATT IMBD FOSS FRGS IP, TRS IMBD LT GRY DISS GRY SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- LT GRY TO OFF WHT, HD DNSE, FN-XLN SLI RE-XLN IP, SCATT IMBD LT GRY DISS SH IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

HEEBNER 3110' -1202'

SH- MD GRY TO BLK, SFT BRITT, TRS IMBD PYR IP, SPLNTY, BLK SFT CARB IN TRAY

LS- LT GRY OFF WHT TO TN, HD DNSE TO BRITT, FN-XLN TO MD-XLN IP, IMBD SFT WHT CHLK THRU IP, SCATT TRS IMBD LT GRY SH IP, TRS IMBD PYR IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

DOUGLAS 3148' -1240'

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

LANSING 3163' -1255'

LS- OFF WHT CRM TO LT TN (W/ LT TN TN OIL STAIN ON 40%), HD DNSE TO SLI BRITT IP, MD-FN -XLN TO MD-XLN IP, TRS IMBD SMLL FOSS FRGS IP, BRIT YEL GLD FLO IN 40%, DLL YEL GLD FLO IN 30% MICRO PP POR ON 50% TRS VUG POR ON 5%, GD FLUSH CUT THRU, GD SLW STRM CUT IN 45%, GD OIL ODOR

LANSING "C" 3192' -1284'

3194'-3196' LS- CRM TO LT TN, HD DNSE TO BRITT IP (W/ TRS LT TN OIL STAIN ON 25%), FN-MD-XLN, IMBD FOSS FRGS IP, TRS IMBD PYR IP, DLL YEL GLD FLO IN 30% BRIT YEL GLD FLO IN 20% , SCATT INTER XLN POR, PR FLUSH CUT GD SLW STRM CUT IN 20%

3210'-3212' LS- OFF WHT TN LT TN (W/ TN OIL STAIN ON 50%, HD DNSE TO BRITT, FN-MD-XLN TO MD-XLN, SUB-SUCRO MTRX IP, IMBD SMLL CALC XLS IP, BRIT YEL GLD FLO IN 20% DLL YEL GLD FLO IN 50%, SCAT VUG POR TO INTER XLN POR IP W/ TRS LIVE DRK TN OIL, GD FLUSH CUT, FR TO GD SLW STRM CUT IN 30%, GD OIL ODOR, TN LEECH ON DISH

LANSING "F" 3233' -1325'

3243'-3246'LS- OFF WHT WHT CRM TO LT TN(W/ LT TN OIL STAIN IN 10%), FN-XLN, SUB-SUCRO IP, ABDT IMBD FOSS FRGS THRU TO IMBD OOL THRU IP, OFF WHT TO WHT CHRT IN TRAY DLL YEL FLO, INTER FOSS POR IP, PR FLUSH CUT V/ PR SLW STRM CUT

LS- OFF WHT TO LT GRY IP, HD DNSE, FN-XLN TO V/ FN-XLN IP, SLI RE-XLN MTRX, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

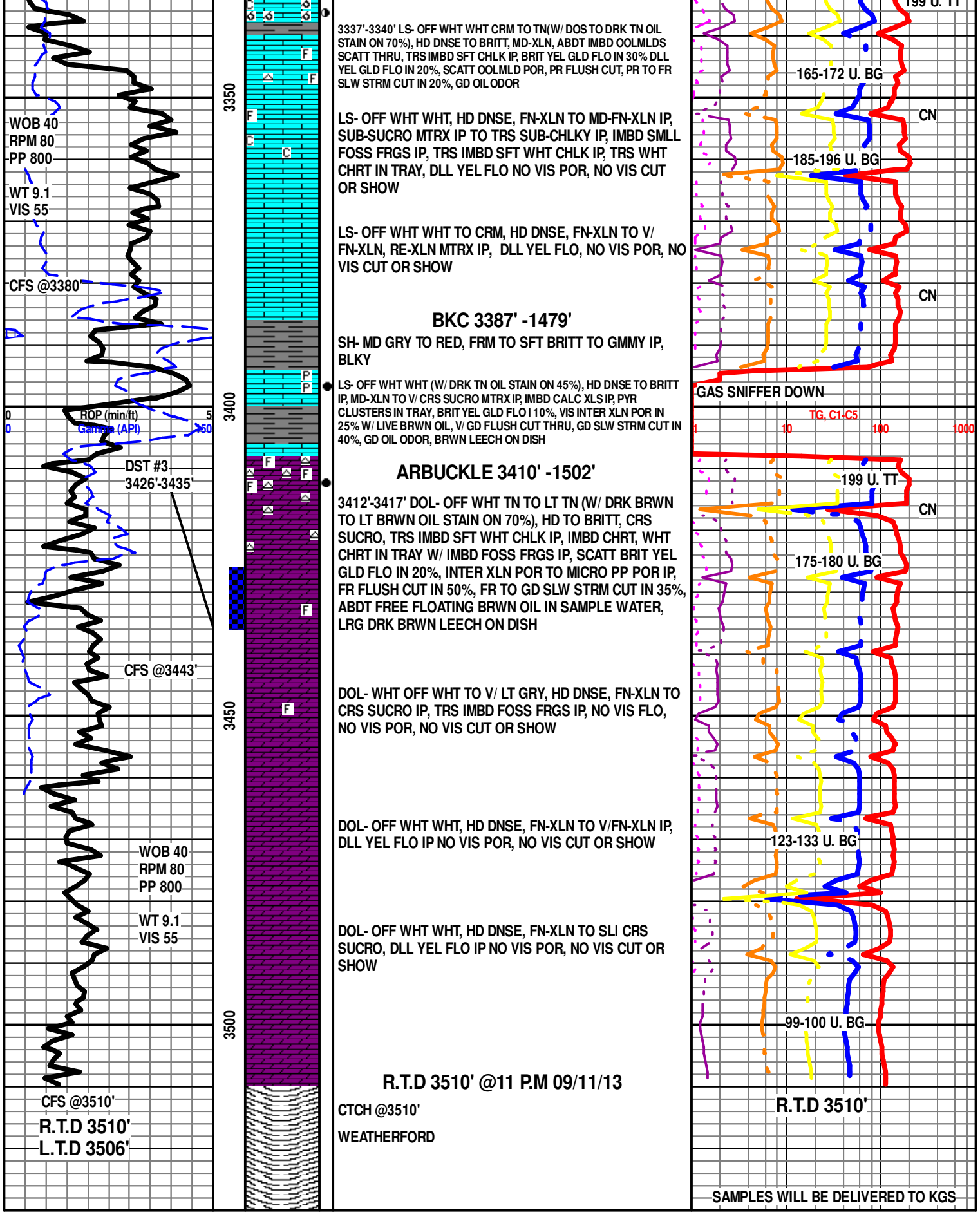
LS- CRM TO LT TN IP, HD DNSE, FN-XLN TO MD- FN-XLN IP, SCATT IMBD SMLL TO MD IMBD FOSS FRGS IP, IMBD GRY SH IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT CRM TO SCATT GRY IP, HD DNSE TO BRITT IP, FN-XLN TO MD-XLN IP, SUB-CHLKY IP, SCTT IMBD LT GYR GRY SH IP, IMBD SFT WHT CHLK IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LANSING "H" 3308' -1400'

LS - CRM OFF WHT TO LT TN (W/ TRS LT TN OIL STAIN ON 3%), HD DNSE TO BRITT IP, MD-FN-XLN SUB-CHLKY IP, IMBD SFT CRM OFF WHT CHLK IP, WHT CHRT IN TRAY, TRS IMBD CLAC XLS IP, DLL YEL MIN FLO, NO VIS POR, NO VIS CUT OR SHOW

3325'-3329' LS- OFF WHT WHT CRM (W/ LT TN TO DRK TN OIL STAIN ON 40%), HD DNSE TO BRITT IP, MD-FN-XLN TO RE-XLN MTRX IP, IMBD SMLL FOSS FRGS IP, IMBD SMLL CALC XLS IP, TRS IMBD SFT WHT CHLK IP, BRIT YEL GLD FLO IN 35%, SCATT INTER XLN POR TO INTER FOSS POR, FR FLUSH CUT, FR SLW STRM CUT IN 20%, GD OIL ODOR, TN LEECH ON DISH


WOB 40
RPM 80
PP 800
WT 9.1
VIS 55
CFS @3380'
0
ROP (min/ft)
5
0
Gamma (API)
150
DST #3
3426'-3435'
CFS @3443'
WOB 40
RPM 80
PP 800
WT 9.1
VIS 55
CFS @3510'
R.T.D 3510'
L.T.D 3506'
3350
3400
3450
3500
3337'-3340' LS- OFF WHT WHT CRM TO TN(W/ DOS TO DRK TN OIL STAIN ON 70%), HD DNSE TO BRITT, MD-XLN, ABDT IMBD OOLMLDS SCATT THRU, TRS IMBD SFT CHLK IP, BRIT YEL GLD FLO IN 30% DLL YEL GLD FLO IN 20%, SCATT OOLMLD POR, PR FLUSH CUT, PR TO FR SLW STRM CUT IN 20%, GD OIL ODOR
LS- OFF WHT WHT, HD DNSE, FN-XLN TO MD-FN-XLN IP, SUB-SUCRO MTRX IP TO TRS SUB-CHLKY IP, IMBD SMLL FOSS FRGS IP, TRS IMBD SFT WHT CHLK IP, TRS WHT CHRT IN TRAY, DLL YEL FLO NO VIS POR, NO VIS CUT OR SHOW
LS- OFF WHT WHT TO CRM, HD DNSE, FN-XLN TO V/ FN-XLN, RE-XLN MTRX IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW
BKC 3387' -1479'
SH- MD GRY TO RED, FRM TO SFT BRITT TO GMMY IP, BLKY
LS- OFF WHT WHT (W/ DRK TN OIL STAIN ON 45%), HD DNSE TO BRITT IP, MD-XLN TO V/ CRS SUCRO MTRX IP, IMBD CALC XLS IP, PYR CLUSTERS IN TRAY, BRIT YEL GLD FLO I 10%, VIS INTER XLN POR IN 25% W/ LIVE BRWN OIL, V/ GD FLUSH CUT THRU, GD SLW STRM CUT IN 40%, GD OIL ODOR, BRWN LEECH ON DISH
ARBUCKLE 3410' -1502'
3412'-3417' DOL- OFF WHT TN TO LT TN (W/ DRK BRWN TO LT BRWN OIL STAIN ON 70%), HD TO BRITT, CRS SUCRO, TRS IMBD SFT WHT CHLK IP, IMBD CHRT, WHT CHRT IN TRAY W/ IMBD FOSS FRGS IP, SCATT BRIT YEL GLD FLO IN 20%, INTER XLN POR TO MICRO PP POR IP, FR FLUSH CUT IN 50%, FR TO GD SLW STRM CUT IN 35%, ABDT FREE FLOATING BRWN OIL IN SAMPLE WATER, LRG DRK BRWN LEECH ON DISH
DOL- WHT OFF WHT TO V/ LT GRY, HD DNSE, FN-XLN TO CRS SUCRO IP, TRS IMBD FOSS FRGS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
DOL- OFF WHT WHT, HD DNSE, FN-XLN TO V/FN-XLN IP, DLL YEL FLO IP NO VIS POR, NO VIS CUT OR SHOW
DOL- OFF WHT WHT, HD DNSE, FN-XLN TO SLI CRS SUCRO, DLL YEL FLO IP NO VIS POR, NO VIS CUT OR SHOW
R.T.D 3510' @11 P.M 09/11/13
CTCH @3510'
WEATHERFORD
199 U. TT
165-172 U. BG
CN
185-196 U. BG
CN
GAS SNIFFER DOWN
TG, C1-C5
1
10
100
1000
199 U. TT
CN
175-180 U. BG
123-133 U. BG
99-100 U. BG
R.T.D 3510'
SAMPLES WILL BE DELIVERED TO KGS