Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1183405

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: AARON SUELTER
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 #:

10/2/2013	10/8/2013	10/9/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-167-23907-00-00
Spot Description:
W2 - E2 - E2 - NE Sec. 7 Twp. 15 S. R. 15 ☐ East ☑ West
1320 Feet from ☑ North / ☐ South Line of Section
520 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: Russell
Lease Name: WITT Well #: 2-7
Field Name:
Producing Formation: N/A
Elevation: Ground: 1886 Kelly Bushing: 1896
Total Vertical Depth: 3516 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 778 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: 66000 ppm Fluid volume: 560 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: 01/22/2014
☑ **Confidential Release Date:** 01/22/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 01/22/2014

1183405

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: WITT Well #: 2-7

Sec. 7 Twp. 15 S. R. 15 ☐ East ☑ West County: Russell

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
HEEBNER	3083	-1187
LANSING	3140	-1244
ARBUCKLE	3405	-1509
TD	3516	

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	778	COMMOM 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	WITT 2-7
Doc ID	1183405

All Electric Logs Run

DEN-NEUT
INDUCTION
MICRO
SONIC
SPECTRAL

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	WITT 2-7
Doc ID	1183405

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	23	778	COMMOM CLASS A	350	2% GEL, 3% CC

Date: 10/3/2013
Invoice # 7524

P.O.#:

Due Date: 11/2/2013
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
OCT 09 2013
SAMUEL GARY JR. & ASSOCIATES, INC.

Reference:
WITT 2-7

Description of Work:
LONG SURFACE JOB

☐ DRLG ☐ COMP ☐ W/O ☐ LOE ☐ GG

Account	8200.145
Well/Prospect	
Dock	
Approval	
Description	

Services / Items Included:	Quantity	Price	Taxable
Labor		$ 977.42	No
Common-Class A	350	$ 5,619.72	Yes
Bulk Truck Matl-Material Service Charge	370	$ 792.11	No
8 5/8" Basket	2	$ 676.51	Yes
Calcium Chloride	13	$ 663.21	Yes
8 5/8" Centralizer	3	$ 205.52	Yes
Pump Truck Mileage-Job to Nearest Camp	20	$ 213.66	No
Premium Gel (Bentonite)	7	$ 121.99	Yes
Bulk Truck Mileage-Job to Nearest Bulk Plant	20	$ 125.03	No
8 5/8" Top Rubber Plug	1	$ 113.46	Yes
Baffle Plate Aluminum, 8 5/8"	1	$ 96.34	Yes

Item	Quantity	Price	Taxable

Invoice Terms:
Net 30

SubTotal:	$	*9,604.97*
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	$	(1,440.74)
SubTotal for Taxable Items:	$	6,372.23
SubTotal for Non-Taxable Items:	$	1,791.99
Total:	$	8,164.23
8.15% Russell County Sales Tax Tax:	$	519.34
Amount Due:	**$**	**8,683.57**
Applied Payments:		
Balance Due:	**$**	**8,683.57**

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.** 7524

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-3-13	7	15	15	Russell	KS		6:45 AM

Location Gorham 5 End of BT 25 Winto

Lease Witt Well No. 2-7

Owner

Contractor Val #6

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 Surface

Hole Size 12 1/4 T.D. 778'

Charge To Samuel Gary & Associates

Csg. 8 5/8 Depth 778'

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. 42.76 Shoe Joint 42.76

Cement Amount Ordered 350 com 3+2

Meas Line Displace 46 3/4 bbl

EQUIPMENT

Pumptrk 17 No. Cementer Helper Cody

Bulktrk 13 No. Driver Driver Clayton

Bulktrk PU No. Driver Driver Brett

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

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	
8 5/8 FLOAT EQUIPMENT	
Guide Shoe	
Centralizer - 3	
Baskets - 2	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Long Surface
Mileage	20
Tax	
Discount	
Total Charge	

X Signature

Date: 10/9/2013
Invoice # 7880

P.O.#:

Due Date: 11/8/2013
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
OCT 16 2013
SAMUEL GARY JR.
& ASSOCIATES, INC.

☐ DRLG ☐ COMP ☐ W/O ☐ LOE ☐ GG

Account	8200.145
Well/Prospect	
Desk	
[illegible]	
Approval	
Description	

Reference:
WITT 2-7

Description of Work:
PLUG JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		$ 1,020.55	Yes				
Common-Class A	138	$ 2,313.53	Yes				
POZ Mix-Standard	92	$ 647.79	Yes				
Bulk Truck Matl-Material Service Charge	238	$ 532.00	Yes				
Pump Truck Mileage-Job to Nearest Camp	20	$ 223.08	Yes				
Premium Gel (Bentonite)	8	$ 145.56	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	20	$ 130.54	Yes				
Flo Seal	57	$ 127.41	Yes				
Dry Hole Plug	1	$ 62.59	Yes				

Invoice Terms:
Net 30

SubTotal:	$	*5,203.05*
Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice:	$	(780.46)
SubTotal for Taxable Items:	$	4,422.59
SubTotal for Non-Taxable Items:	$	-
Total:	$	4,422.59
8.15% Russell County Sales Tax Tax:	$	360.44
Amount Due:	**$**	**4,783.03**
Applied Payments:		
Balance Due:	**$**	**4,783.03**

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. 7880

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-9-13	7	15	15	Russell	KS	12:30 AM	4:30 AM

Location Gorham S to Walters RD 1/2 S

Lease WITT Well No. 2-7 Owner Winto

Contractor Val Rig 6

Type Job Plug 306

Hole Size 7 7/8 T.D. 3517

Csg. Depth

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint

Meas Line Displace

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

Street Sam Gary Jr & Asso.

City State

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

Cement Amount Ordered 230 60/40 4% gel 1/4 flow Seal

EQUIPMENT

Pumptrk 15 No. Cementer Helper Mike

Bulktrk 8 No. Driver Driver Nick

Bulktrk 24 No. Driver Driver Doug

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30 sks

Mouse Hole 15 sks

Centralizers

Baskets

D/V or Port Collar

1st 3393 ft 50 sks

2nd 980 ft 25 sks

3rd 930 ft 100 sks

4th 40 10 sks

Common	138
Poz. Mix	92
Gel.	8
Calcium	
Hulls	
Salt	
Flowseal	57#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	238
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Wood Plug	
Pumptrk Charge	
Mileage 20	Plug
Tax	
Discount	
Total Charge	

X Signature Randy Smith

DRILL STEM TEST REPORT

Samry Gary Jr. & Associate Inc.

1515 Wynkoop
STE 700 Denver CO 80202

ATTN: Dan Pritchard

7-15-15,Russell,KS

Witt #2-7

Job Ticket: 54446 **DST#: 1**

Test Start: 2013.10.06 @ 13:55:00

GENERAL INFORMATION:

Formation: **KC "A-C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:50:30
Time Test Ended: 21:43:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Brett Dickinson
Unit No: 59

Interval: 3113.00 ft (KB) To 3172.00 ft (KB) (TVD)
Total Depth: 3172.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

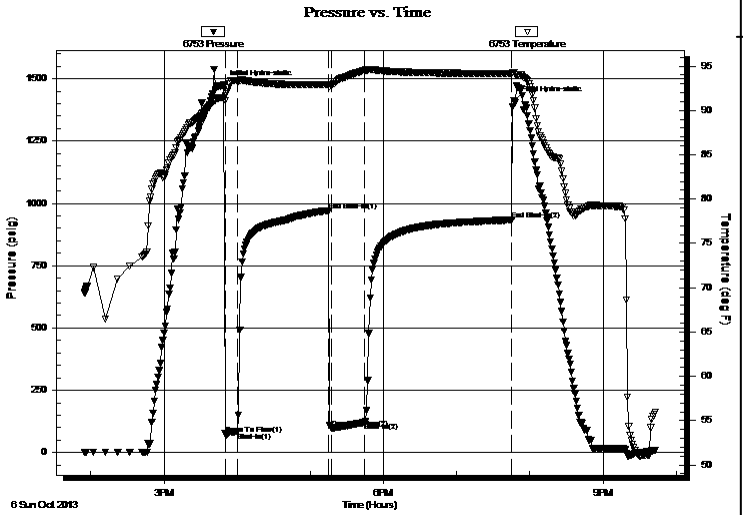
Reference Elevations: 1898.00 ft (KB)
1888.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6753 **Inside**

Press@RunDepth: 121.53 psig @ 3116.00 ft (KB)
Start Date: 2013.10.06 End Date: 2013.10.06
Start Time: 13:55:05 End Time: 21:43:29

Capacity: 8000.00 psig
Last Calib.: 2013.10.06
Time On Btm: 2013.10.06 @ 15:49:00
Time Off Btm: 2013.10.06 @ 19:47:00

TEST COMMENT: 10min IF-1/4in blow
60min ISI-No blow
30min FF-BOB in 21min
120min FSI-1 1/4in blow died in 1 3/4 hrs



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1475.01	91.48	Initial Hydro-static
2	74.53	91.65	Open To Flow (1)
11	83.29	93.26	Shut-In(1)
86	970.47	92.90	End Shut-In(1)
89	97.23	92.89	Open To Flow (2)
116	121.53	94.51	Shut-In(2)
236	933.76	94.14	End Shut-In(2)
238	1410.77	94.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	SGOWCM 10%G 5%O 15%W 70%M	0.91
120.00	SGOWCM 5%G 5%O 40%W 50%M	1.68

Gas Rates

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

DRILL STEM TEST REPORT

Samry Gary Jr. & Associate Inc.

1515 Wynkoop
STE 700 Denver CO 80202

ATTN: Dan Pritchard

7-15-15,Russell,KS

Witt #2-7

Job Ticket: 54446 **DST#: 1**

Test Start: 2013.10.06 @ 13:55:00

GENERAL INFORMATION:

Formation: **KC "A-C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:50:30
Time Test Ended: 21:43:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Brett Dickinson
Unit No: 59

Interval: 3113.00 ft (KB) To 3172.00 ft (KB) (TVD)
Total Depth: 3172.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

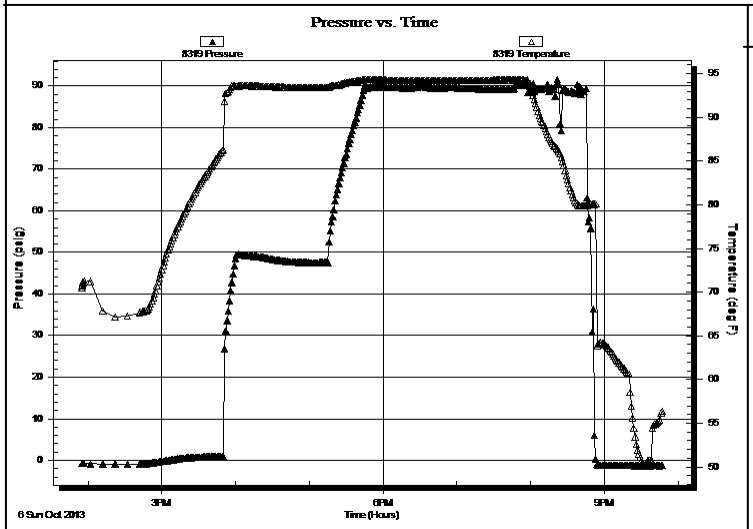
Reference Elevations: 1898.00 ft (KB)
1888.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8319 **Fluid**

Press@RunDepth: psig @ 3084.00 ft (KB)
Start Date: 2013.10.06 End Date: 2013.10.06
Start Time: 13:55:05 End Time: 21:46:59

Capacity: 8000.00 psig
Last Calib.: 2013.10.06
Time On Btm:
Time Off Btm:

TEST COMMENT: 10min IF-1/4in blow
60min ISI-No blow
30min FF-BOB in 21min
120min FSI-1 1/4in blow died in 1 3/4 hrs



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	SGOWCM 10%G 5%O 15%W 70%M	0.91
120.00	SGOWCM 5%G 5%O 40%W 50%M	1.68

Gas Rates

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

DRILL STEM TEST REPORT

Samry Gary Jr. & Associate Inc.

1515 Wynkoop
STE 700 Denver CO 80202

ATTN: Dan Pritchard

7-15-15,Russell,KS

Witt #2-7

Job Ticket: 54446 **DST#: 1**

Test Start: 2013.10.06 @ 13:55:00

GENERAL INFORMATION:

Formation: **KC "A-C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:50:30
Time Test Ended: 21:43:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Brett Dickinson
Unit No: 59

Interval: 3113.00 ft (KB) To 3172.00 ft (KB) (TVD)
Total Depth: 3172.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

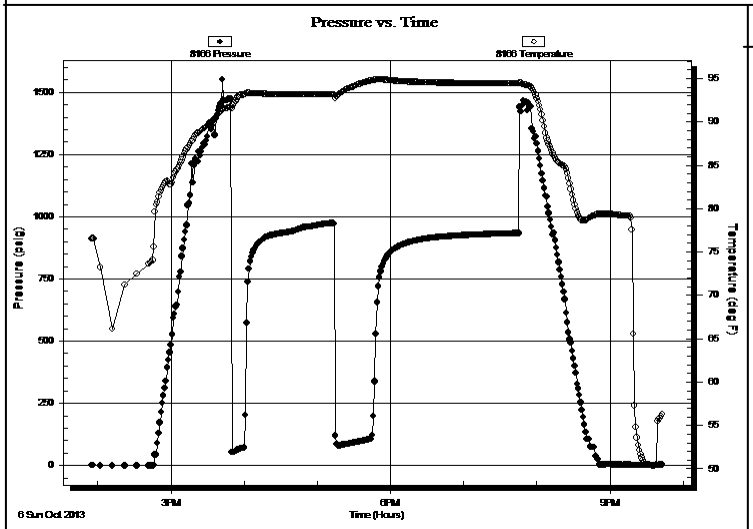
Reference Elevations: 1898.00 ft (KB)
1888.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: psig @ 3116.00 ft (KB)
Start Date: 2013.10.06 End Date: 2013.10.06
Start Time: 13:55:05 End Time: 21:43:29

Capacity: 8000.00 psig
Last Calib.: 2013.10.06
Time On Btm:
Time Off Btm:

TEST COMMENT: 10min IF-1/4in blow
60min ISI-No blow
30min FF-BOB in 21min
120min FSI-1 1/4in blow died in 1 3/4 hrs



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	SGOWCM 10%G 5%O 15%W 70%M	0.91
120.00	SGOWCM 5%G 5%O 40%W 50%M	1.68

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samry Gary Jr. & Associate Inc.

1515 Wynkoop
STE 700 Denver CO 80202

ATTN: Dan Pritchard

7-15-15,Russell,KS

Witt #2-7

Job Ticket: 54446 **DST#: 1**

Test Start: 2013.10.06 @ 13:55:00

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:	94000 ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.60 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5200.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	SGOWCM 10%G 5%O 15%W 70%M	0.912
120.00	SGOWCM 5%G 5%O 40%W 50%M	1.683

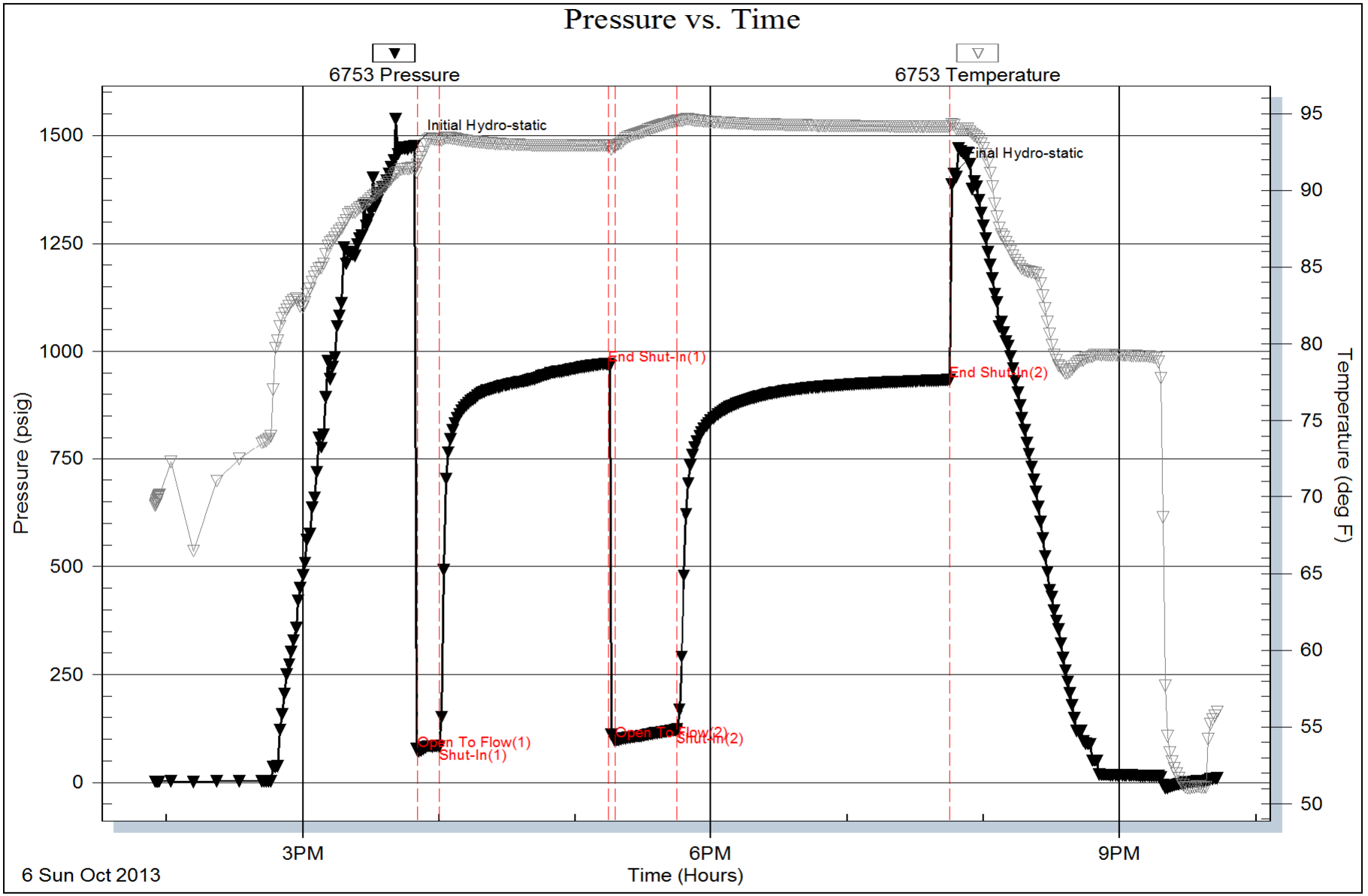
Total Length: 185.00 ft Total Volume: 2.595 bbl

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

Laboratory Name: Laboratory Location:

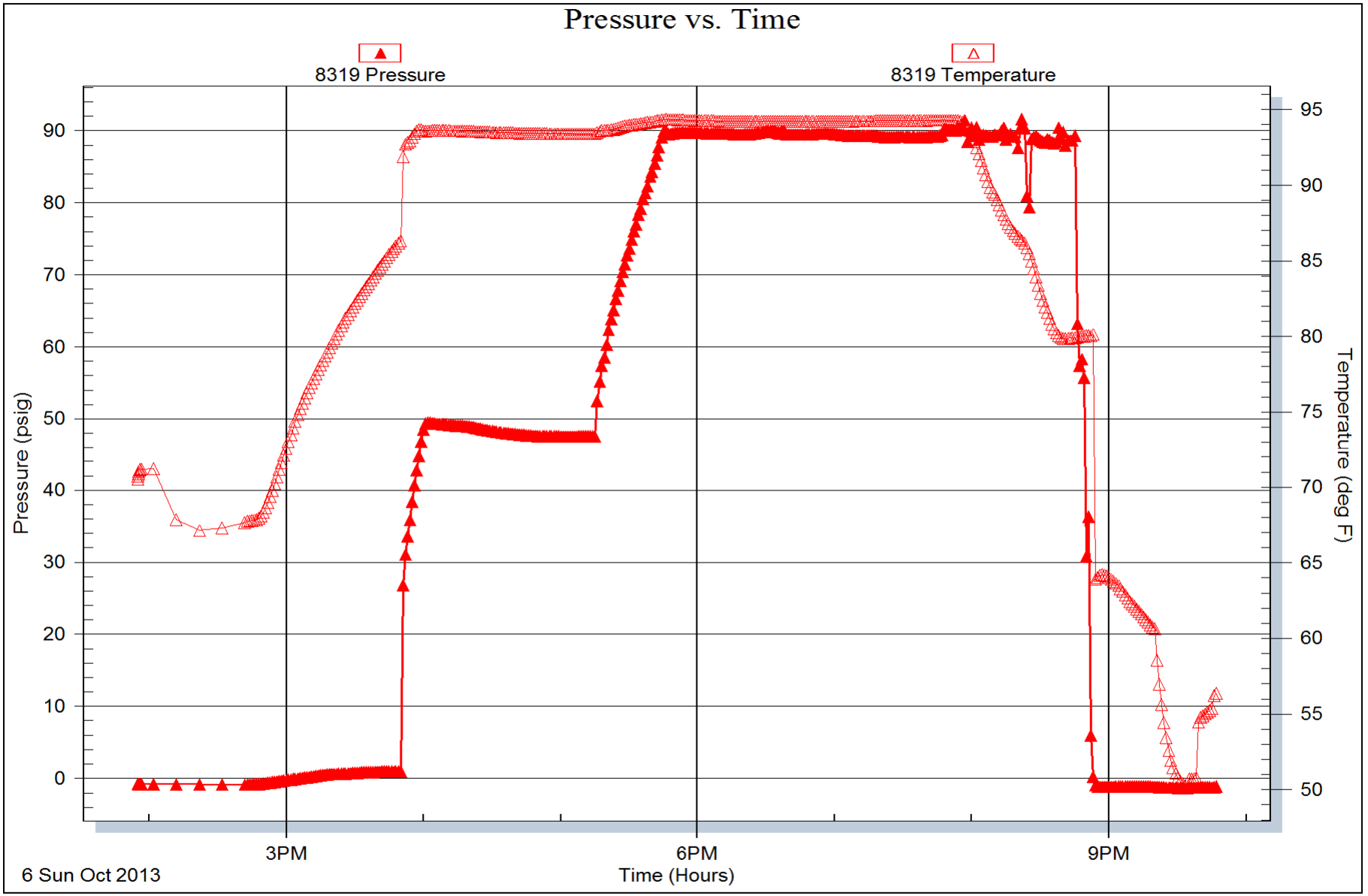
Recovery Comments: Sampler Data 250mlG 250mlOi 100mlM 1400mlW 650PSI RW .1 @ 60

Serial #: 6753 **Inside** Samry Gary Jr. & Associate Inc. Witt #2-7 DST Test Number: 1



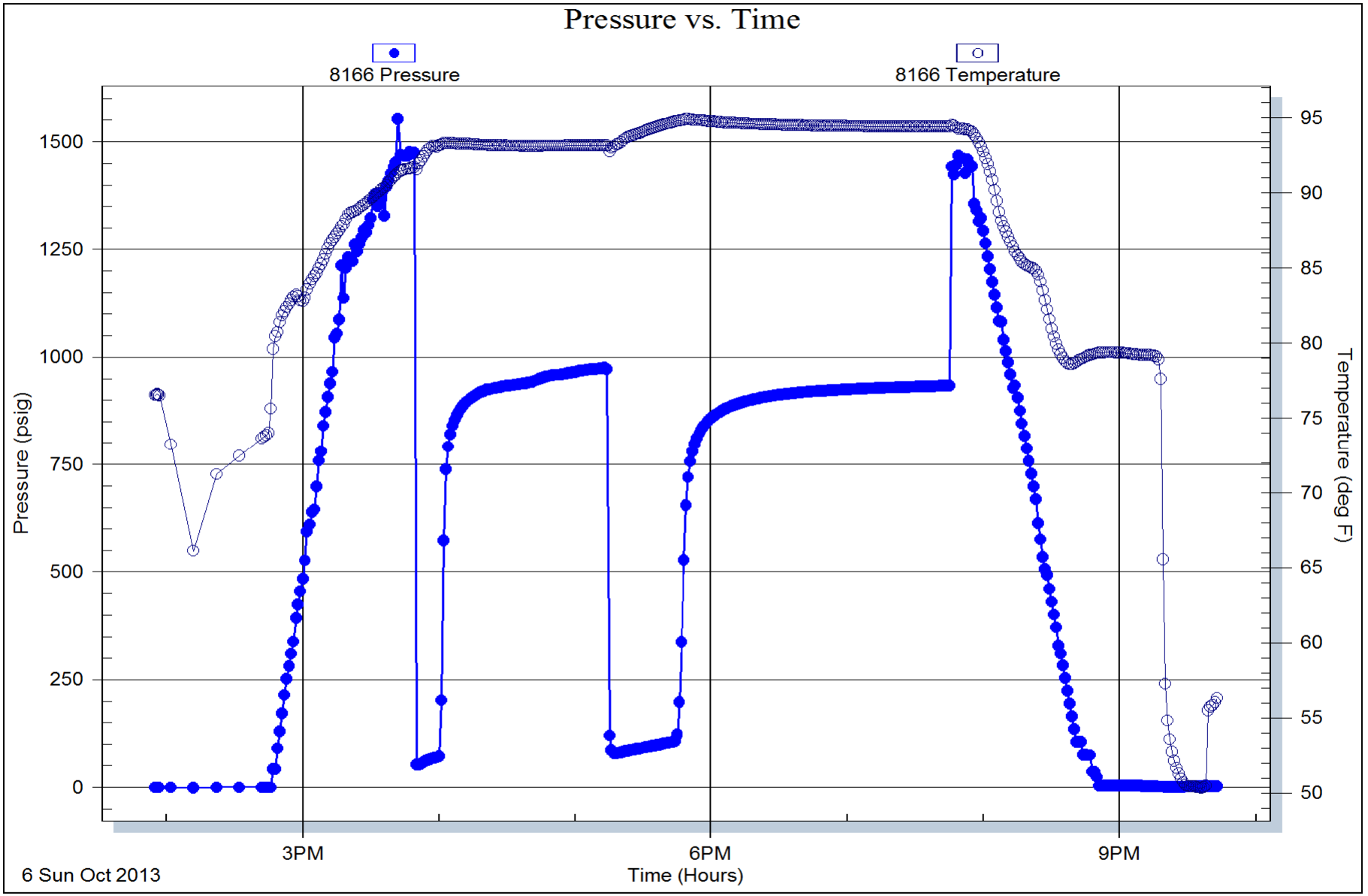
Trilobite Testing, Inc Ref. No: 54446 Printed: 2013.10.06 @ 22:51:58

Serial #: 8319 **Fluid** Samry Gary Jr. & Associate Inc. Witt #2-7 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 54446 Printed: 2013.10.06 @ 22:51:58

Serial #: 8166 **Outside** Samry Gary Jr. & Associate Inc. Witt #2-7 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 54446 Printed: 2013.10.06 @ 22:51:58

DRILL STEM TEST REPORT

Sam Gary Jr. & Associate Inc.

1515 Wynkoop
STE 700 Denver CO 80202

ATTN: Dan Pritchard

7-15-15,Russell,KS

Witt #2-7

Job Ticket: 54447 **DST#: 2**

Test Start: 2013.10.07 @ 12:33:46

GENERAL INFORMATION:

Formation: **KC F-U.G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:32:44
Time Test Ended: 20:22:44

Test Type: Conventional Bottom Hole (Reset)
Tester: Paul Simpson/Tim Phi
Unit No: 59

Interval: 3192.00 ft (KB) To 3225.00 ft (KB) (TVD)
Total Depth: 3295.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

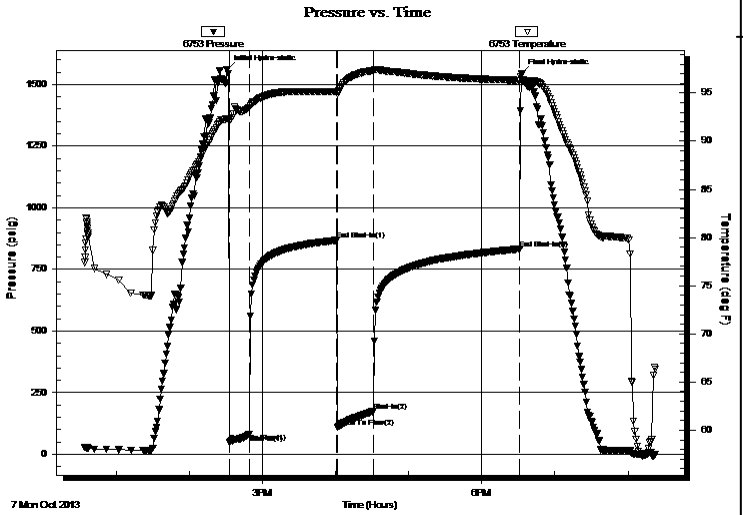
Reference Elevations: 1898.00 ft (KB)
1888.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6753 **Inside**

Press@RunDepth: 175.02 psig @ 3195.00 ft (KB)
Start Date: 2013.10.07 End Date: 2013.10.07
Start Time: 12:33:51 End Time: 20:22:44

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2013.10.07 @ 14:30:44
Time Off Btm: 2013.10.07 @ 18:32:44

TEST COMMENT: IFP-10-BOB in 8 min
ISI-75-No blow back
FF-30-Good surface blow built to 9 in.
FSI-120-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1561.10	92.32	Initial Hydro-static
2	50.28	92.04	Open To Flow (1)
18	80.61	93.47	Shut-In(1)
90	867.93	95.14	End Shut-In(1)
91	108.55	94.88	Open To Flow (2)
120	175.02	97.32	Shut-In(2)
241	832.87	96.31	End Shut-In(2)
242	1543.65	96.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
380.00	MW 90%Water 10%Mud	5.33
0.00	Rw .08 @ 68 = 110,000 ppm	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Sam Gary Jr. & Associate Inc.

1515 Wynkoop
STE 700 Denver CO 80202

ATTN: Dan Pritchard

7-15-15,Russell,KS

Witt #2-7

Job Ticket: 54447 **DST#: 2**

Test Start: 2013.10.07 @ 12:33:46

GENERAL INFORMATION:

Formation: **KC F-U.G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:32:44
Time Test Ended: 20:22:44

Test Type: Conventional Bottom Hole (Reset)
Tester: Paul Simpson/Tim Phi
Unit No: 59

Interval: 3192.00 ft (KB) To 3225.00 ft (KB) (TVD)
Total Depth: 3295.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

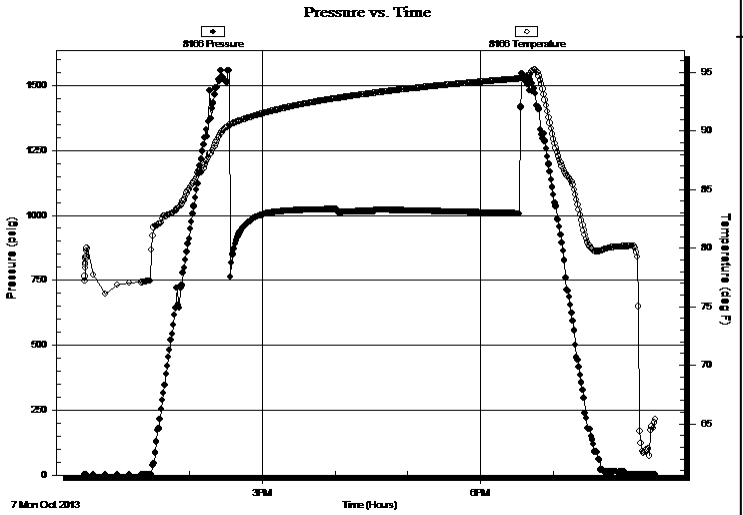
Reference Elevations: 1898.00 ft (KB)
1888.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8166 **Below (Straddle)**

Press@RunDepth: psig @ 3233.00 ft (KB)
Start Date: 2013.10.07 End Date: 2013.10.07
Start Time: 12:34:01 End Time: 20:23:55

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

TEST COMMENT: IFP-10-BOB in 8 min
ISI-75-No blow back
FF-30-Good surface blow built to 9 in.
FSI-120-No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
380.00	MW 90%Water 10%Mud	5.33
0.00	Rw .08 @ 68 = 110,000 ppm	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Sam Gary Jr. & Associate Inc.

1515 Wynkoop
STE 700 Denver CO 80202

ATTN: Dan Pritchard

7-15-15,Russell,KS

Witt #2-7

Job Ticket: 54447 **DST#: 2**

Test Start: 2013.10.07 @ 12:33:46

GENERAL INFORMATION:

Formation: **KC F-U.G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:32:44
Time Test Ended: 20:22:44

Test Type: Conventional Bottom Hole (Reset)
Tester: Paul Simpson/Tim Phi
Unit No: 59

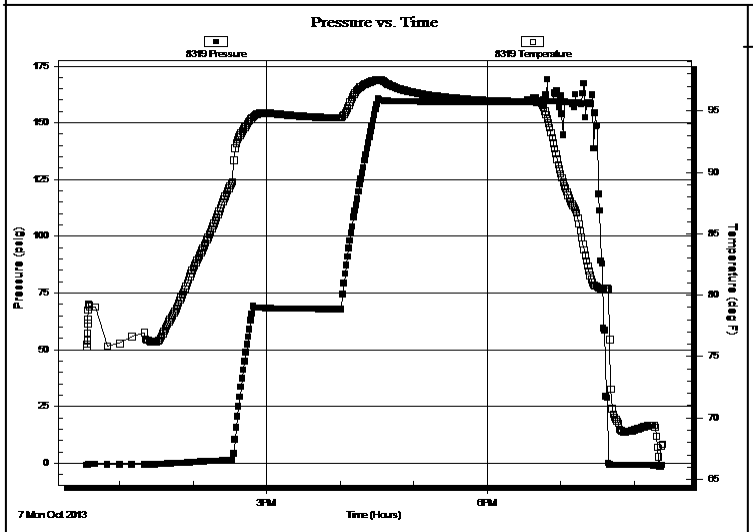
Interval: 3192.00 ft (KB) To 3225.00 ft (KB) (TVD)
Total Depth: 3295.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1898.00 ft (KB)
1888.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8319 **Fluid**
Press@RunDepth: psig @ 3163.00 ft (KB)
Start Date: 2013.10.07 End Date: 2013.10.07
Start Time: 12:33:15 End Time: 20:23:09

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

TEST COMMENT: IFP-10-BOB in 8 min
ISI-75-No blow back
FF-30-Good surface blow built to 9 in.
FSI-120-No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
380.00	MW 90%Water 10%Mud	5.33
0.00	Rw .08 @ 68 = 110,000 ppm	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary Jr. & Associate Inc.

1515 Wynkoop
STE 700 Denver CO 80202

ATTN: Dan Pritchard

7-15-15,Russell,KS

Witt #2-7

Job Ticket: 54447 **DST#: 2**

Test Start: 2013.10.07 @ 12:33:46

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:	110000 ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.58 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
380.00	MW 90%Water 10%Mud	5.330
0.00	Rw .08 @ 68 = 110,000 ppm	0.000

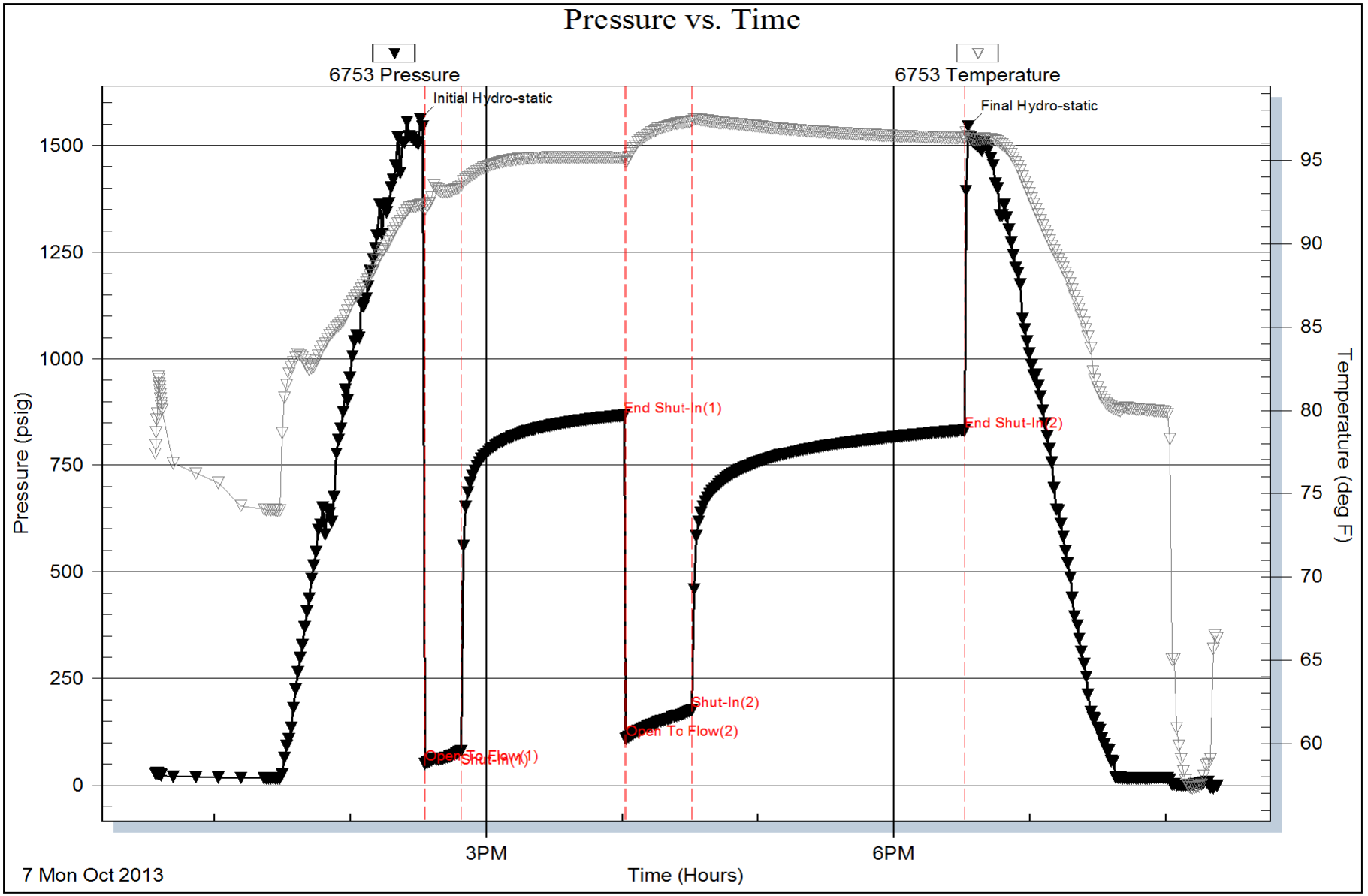
Total Length: 380.00 ft Total Volume: 5.330 bbl

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

Laboratory Name: Laboratory Location:

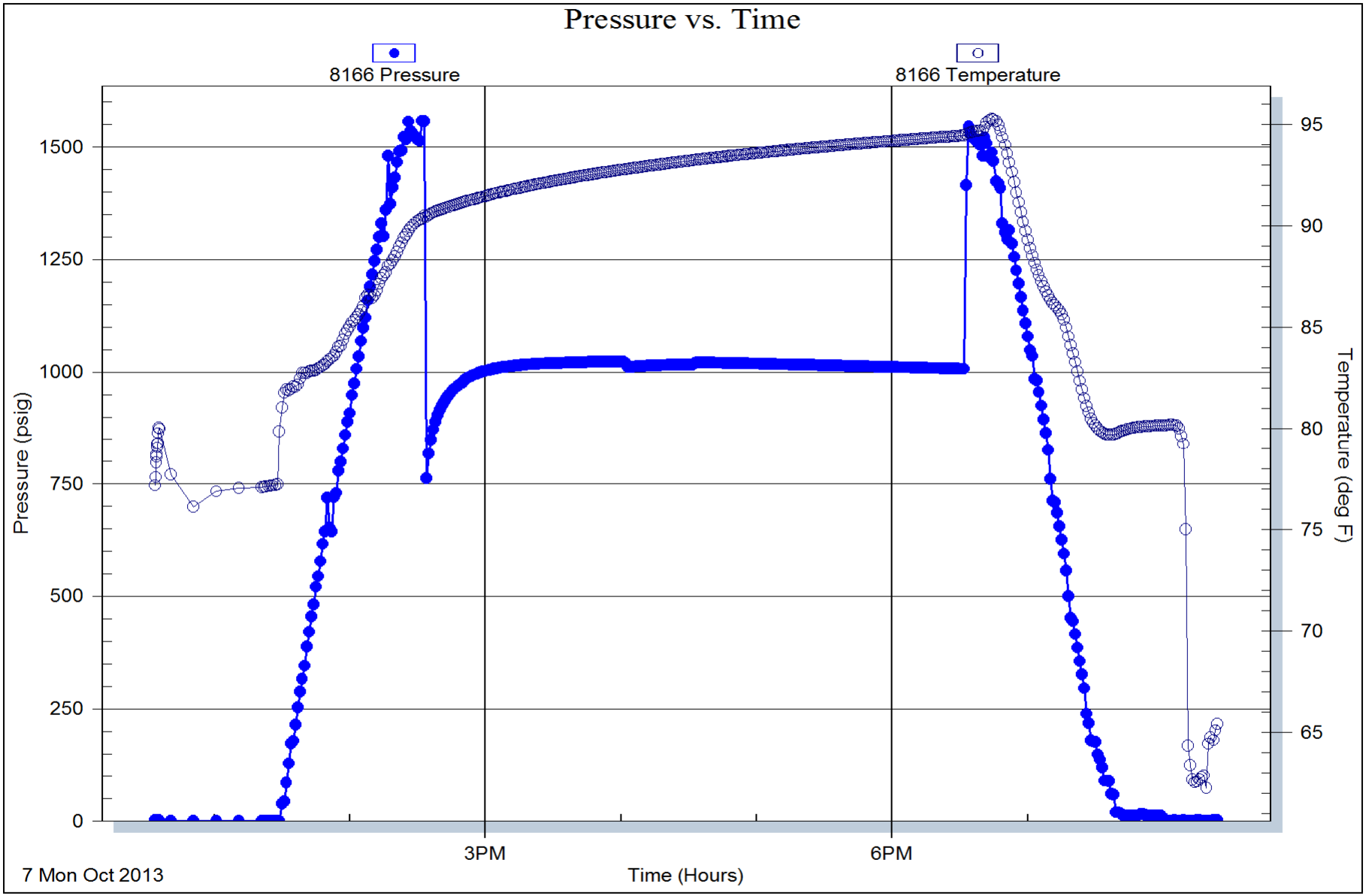
Recovery Comments: Sampler Data 2300 ml Water 700psi

Serial #: 6753 **Inside** Sam Gary Jr. & Associate Inc. Witt #2-7 DST Test Number: 2



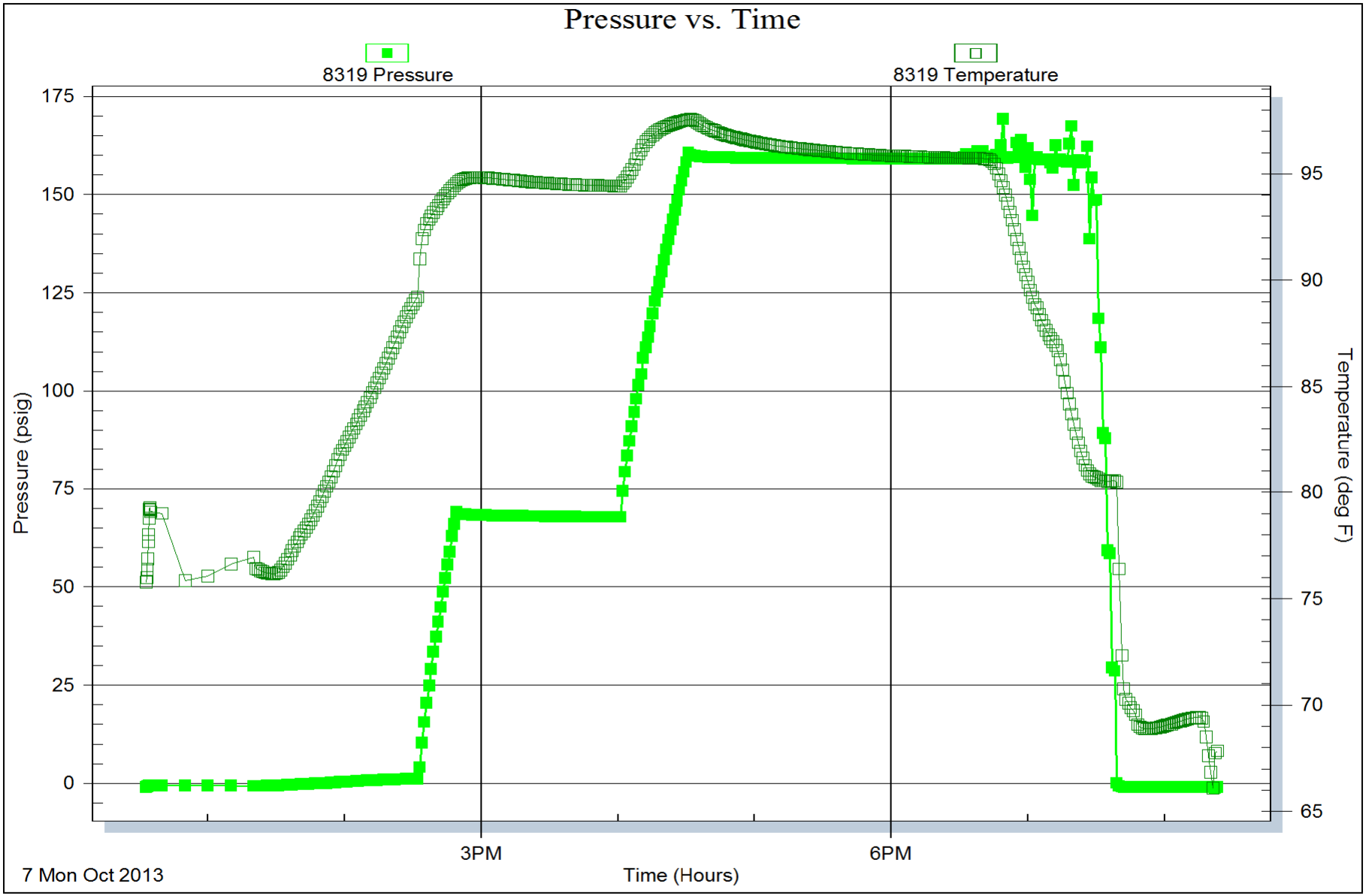
Trilobite Testing, Inc Ref. No: 54447 Printed: 2013.10.08 @ 04:24:55

Serial #: 8166 **Below (Straddle)** Gary Jr. & Associate Inc. Witt #2-7 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 54447 Printed: 2013.10.08 @ 04:24:55

Serial #: 8319 **Fluid** Sam Gary Jr. & Associate Inc. Witt #2-7 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 54447 Printed: 2013.10.08 @ 04:24:55

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

Well Name:	Witt 2-7		
Location:	Sec. 7-15S-15W Russell County, Kansas		
License Number:	15-167-23907-0000	Region:	WILDCAT
Spud Date:	Oct. 2, 2013	Drilling Completed:	Oct. 8, 2013
Surface Coordinates:	1320 FNL/ 520 FEL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	1886'	K.B. Elevation (ft):	1896'
Logged Interval (ft):	2825' To: 3515'	Total Depth (ft):	3515'
Formation:			
Type of Drilling Fluid:			

OPERATOR

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

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 3113'-3172' 10 75 30 120
IF- 1/4" BLOW/ ISI- NO BLOW/ FF- BOB IN 21 MINS/ FSI- 1 1/4" BLOW DIED IN 1 3/4 HOURS
IH- 1475, FH- 1411/ IF- 75 TO 97/ FF- 83 TO 122/ ISI- 940, FSI- 934
RECOVERY- 65' SGOWCM 10% GAS, 5% OIL, 15% WATER, 70% MUD/ 120' SGOWCM 5% GAS, 5% OIL, 40% WATER, 50% MUD/ 120' GIP
SAMPLER- 250 ML GAS, 250 ML OIL, 100 ML MUD, 1400 ML WATER, 2000 ML TOTAL

DST's Report

DST#2 3192'-3225' 10 75 30 120
IF- BOB IN 8 MIN/ ISI- NO BLOW/ FF- BUILT TO 9"/ FSI- BO BLOW
IH- 1561, FH- 1543/ IF- 50 TO 108/ FF- 81 TO 175/ ISI- 868, FSI- 833
RECOVERY- 380' MW 90% WATER, 10% MUD
SAMPLER- 2300 ML WATER, 2300 ML TOTAL

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

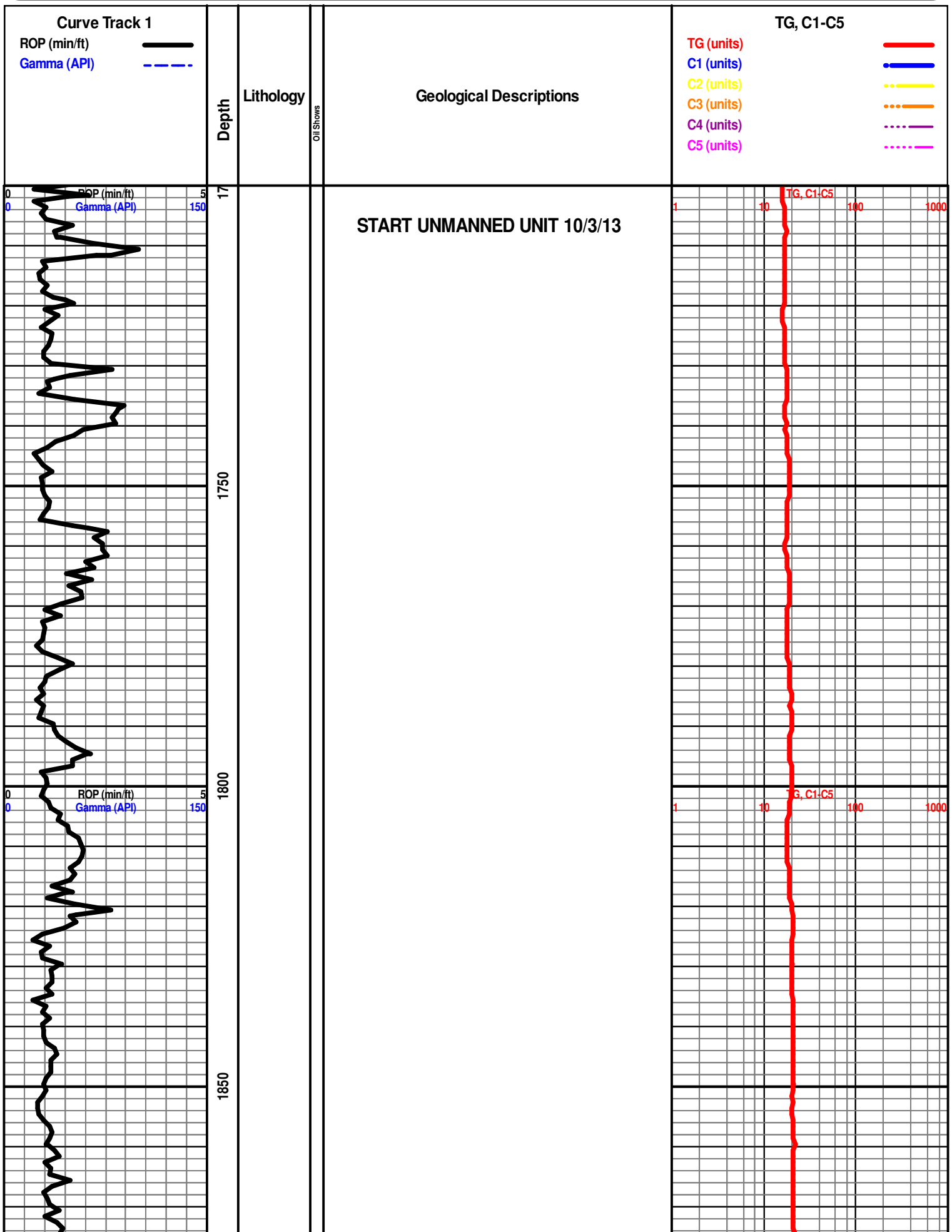
SORTING
- Well
- Moderate
- Poor

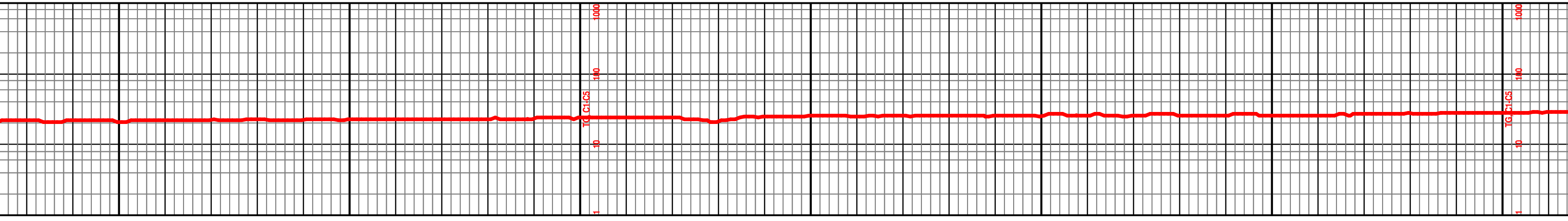
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

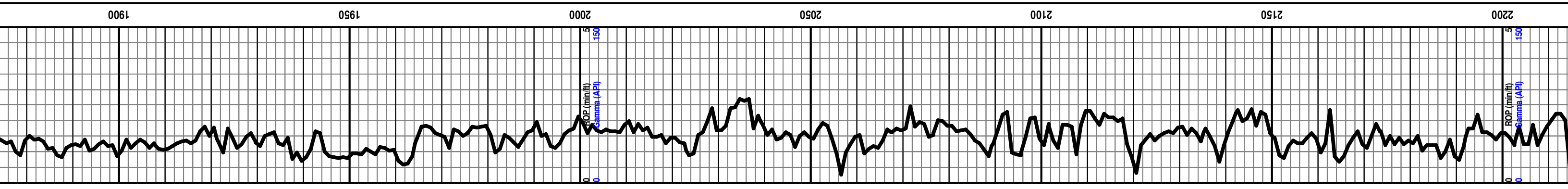
OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

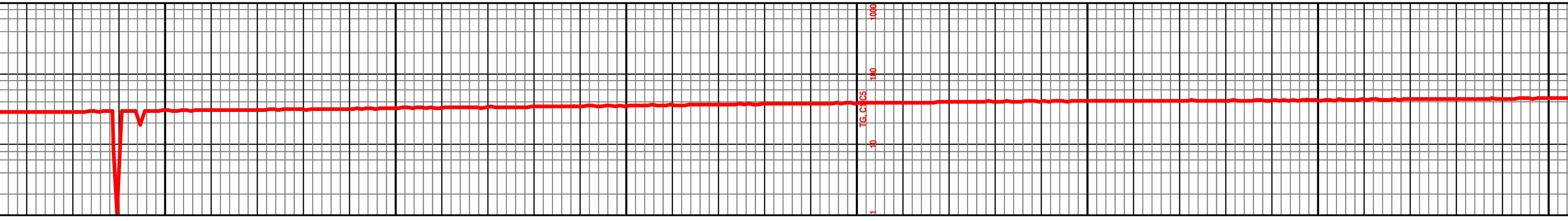
INTERVALS
- Core
- Dst
- Dst

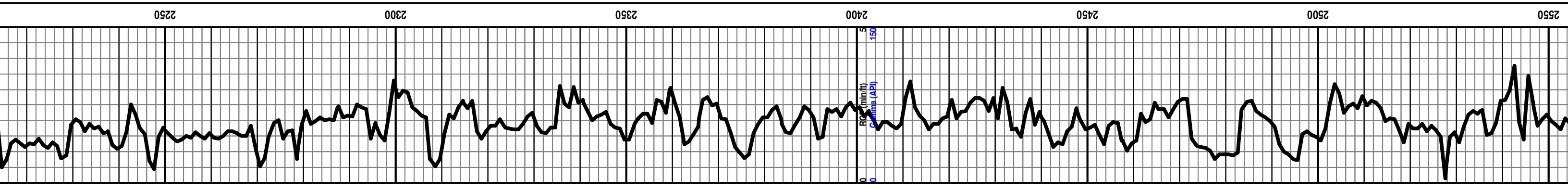
EVENTS
- Rft
- Sidewall

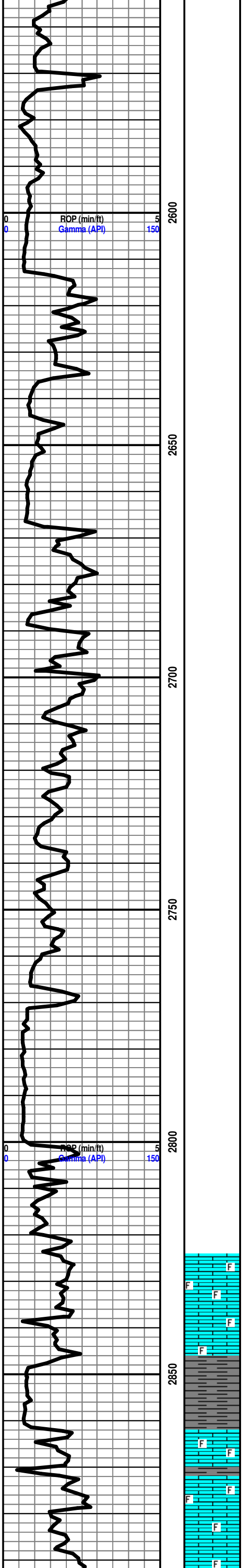



1000
100
10
1
TG_C1-C5
1000
100
10
1
TG_C1-C5

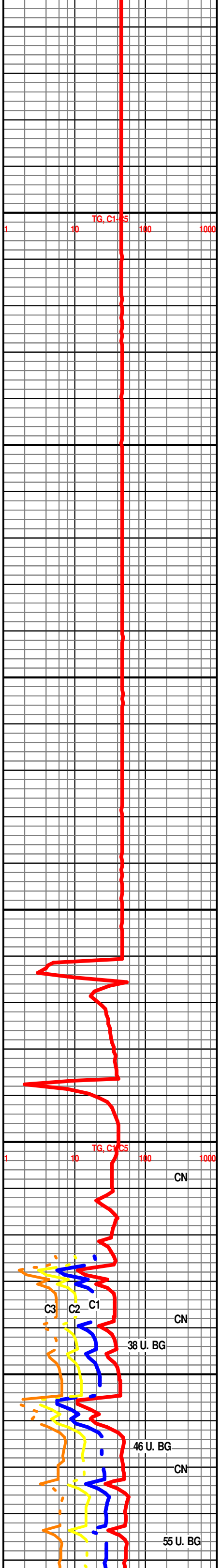

1900
1950
2000
2050
2100
2150
2200
5
0
ROP (min/ft)
150
0
Gamma (API)
5
0
ROP (min/ft)
150
0
Gamma (API)


1000
100
10
1
TG. C1/C5


2250
2300
2350
2400
2450
2500
2550
150
0
0
ROP (min/ft)
Gamma (API)



BRS 2613' -717'



HOWARD 2801' -905'

START 24 HOUR MANNED UNIT 10/5/13

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

SEVERY 2846' -950'

SH- BRWN TO GY, FRM BLKY, SLTY TXT

TOPEKA 2862' -966'

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

LS- CRM LT TN TO TN, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-SUCRO, SCAT IMBD FOSS FRG THRU,

NO VIS FLO, NO VIS POR, NO VIS SHOW

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

LS- GY LT TN TO TN, HD DNS TO BRIT, F TO MD XLN RE-XLN MTRX, S-SUCRO IP, IMBD FOSS FRG THRU, NO VIS POR, NO VIS SHOW

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

SH- BRWN TO GY, FRM BLKY, SMTH TXT

LE COMPTON 2954' -1058'

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

LS- CRM LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, RE-XLN IP, SCAT IMBD FOSS FRG IP, SLI TR IMBD CALC XLS IP, SLI TR KAOL OR GLAUC IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

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

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

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

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

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

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

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

HEEBNER 3084' -1188'

SH- BLCK, SFT, CARB

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

3110'-3111' LS- CRM TO LT TN W/ TN OIL STN IN 30%, HD DNS TO BRIT IP, F TO MD XLN RE-XLN MTRX, S-SUCRO, SCAT IMBD FOSS FRG THRU, DUL YEL GLD FLO IN 30%, PR INTR XLN POR IN 3%, WK FLSH CUT IN 10%, PR TO FR SLW STRM IN 30%, NO LCH ON DISH

DOUGLAS 3116' -1220'

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

LANSING 3140' -1244'

3142'-3144' LS- CRM TO LT TN W/ TN OIL STN IN 60%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD FOSS FRG IP, DUL YEL GLD FLO IN 60%, FR TO GD INTR FOSS POR IN 3%, FR TO GD VUG POR IN 3%, GD FLSH CUT IN 45%, FR TO GD SLW STRM IN 60%, TN LCH ON DISH, FR OIL ODOR

LANSING "C" 3159' -1263'

3165'-3168' LS- CRM TO LT TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD OOL THRU, IMBD CALC XLS IP, DUL YEL GLD FLO IN 70%, FR TO GD INTR OOL POR IN 4%, GD FLSH CUT IN 70%, GD SLW STRM IN 70%, LT TN LCH ON DISH

3177'-3178' LS- OFF WHT CRM TO LT TN W/ TN OIL STN IN 10%, HD DNS TO BRIT, V/F TO F XLN CHLKY MTRX, S-SUCRO, IMBD OOL IP, SFT WTH CHLK IN TRAY, NO VIS FLO, PR INTR OOL POR IN 1%, POSS FRACT POR, NO FLSH CUT, PR SLW STRM IN 10%, NO LCH ON DISH

LANSING "F" 3205' -1309'

3206'-3208' LS- CRM TO LT TN W/ TN OIL STN IN 70%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD OOL THRU, BRT YEL GLD FLO IN 40%, DUL YEL GLD FLO IN 30%, FR TO GD INTR OOL POR IN 4%, FR FLSH CUT IN 60%, FR TO GD SLW STRM IN 70%, NO LCH ON DISH

3219'-3221' LS- CRM TO LT TN W/ TN OIL STN IN 65%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD OOL THRU, BRT YEL GLD FLO IN 65%, FR TO GD INTR OOL POR IN 5%, PR FLSH CUT IN 65%, PR SLW STRM IN 65%, NO LCH ON DISH

2900 2950 3000 3050 3100 3150 3200

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

DST#1
3113'-3172'
WOB 40
RPM 80
PP 1000
WT 9.1
VIS 51
CFS@3150'
WT 9.0
VIS 56
CFS@3172'
WOB 40
RPM 80
PP 1000
WT 8.9
VIS 56
CFS@3224'

C3 C2 C1
TG, C1-C5
1 10 100 1000
C4 C5

CN
70 U. BG
CN
90 U. BG
CN
90 U. BG
CN
90 U. BG
100 U. BG
CN
100 U. BG
CN
115 U. BG
120 U. BG
CN
170 U. SH
KICK
135 U. BG
CN
125 U. BG
152 U.
SHOW
CN
83 U. BG
C3
C4 C5 C2 C1
100 U.
SHOW
CN
120 U. BG
TG, C1-C5
1 10 100 1000
110 U.
BG
CN
155 U. BG
160 U.
BG

3250

WT 9.0
VIS 52

WOB 40
ROM 80
PP 1000

CFS@3289'

3300

WOB 40
RPM 80
PP 1000

WT 9.1
VIS 60

CFS@3350'

3350

WT 9.0
VIS 56

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

CFS@3406'

3400

3450

3500

CFS@3515'
30,60

TD@3515'

CTCH 1.5 HOURS

SHORT TRIP 8 STANDS
CTCH 1 HOUR

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD OOL THRU, TR OOLMD IP, NO VIS FLO, PR INTR OOL POR IN 1%, PR OOLMLD POR IN 3%, NO VIS CUT OR SHOW

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

SH- LT GY TO DK GY, FRM BLKY TO SFT GMMY, SMTH TO SLTY TXT

LANSING "H" 3278' -1382'

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

3300'-3301' LS- LT TN TO TN W/ TN OIL STN IN 30%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, SCAT IMBD OOL THRU, DUL YEL GLD FLO IN 30%, PR INTR OOL POR IN 2%, NO FLSH CUT, WK SLW STRM IN 25%, NO LCH ON DISH

3314'-3317' LS- OFF WHT TO CRM W/ TN OIL STN IN 50%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, ABDT IMBD OOL THRU, TR SFT WHT CHLK IN TRAY, BRT YEL GLD FLO IN 50%, PR TO FR INTR OOL POR IN 3%, WK FLSH CUT IN 50%, PR TO FR SLW STRM IN 50%, LT TN LCH ON DISH

3343'-3344' LS- CRM TO LT TN W/ TN OIL STN IN 1%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SCAT IMBD OOL IP, SCAT IMBD CALC XLS IP, NO VIS FLO, PR PR INTR OOL POR IN 2%, NO FLSH CUT, WK SLW STRM IN 10%, NO LCH ON DISH

BKC 3361' -1465'

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

SH- BRWN RED TO GY, SFT GMMDY, SMTH TXT

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

ARBUCKLE 3411' -1515'

3412'-3414' DOLO- CRM TO LT TN W/ TN OIL STN IN 60%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO AND DOLO GRNS THRU, DUL YEL GLD FLO IN 60%, PR TO FR INTR GRN POR IN 10%, WK FLSH CUT IN 60%, PR TO FR SLW STRM IN 60%, LT TN LCH ON DISH

3422'-3424' DOLO- CRM TO LT TN W/ TN OIL STN IN 50%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO ANG DOLO GRNS THRU, DUL YEL GLD FLO IN 50%, PR TO FR INTR GRN POR IN 10%, PR FLSH CUT IN 60%, PR TO FR SLW STRM IN 60%, TN LCH ON DISH

3433'-3434' DOLO- OFF WHT TO CRM W/ TN OIL STN IN 40%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, DUL YEL GLD FLO IN 40%, PR INTR GR POR IN 10%, WK FLSH CUT IN 40%, PR SLW STRM IN 40%, LT TN LCH ON DISH

3442"-3443' DOLO- OFF WHT TO CRM W/ TN OIL STN IN 50%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-RND TO ANG DOLO GRNS THRU, DUL YEL GLD FLO IN 50%, PR INTR GRN POR IN 5%, FR TO GD INTR GRN POR IN 5%, PR FLSH CUT IN 50%, PR TO FR SLW STRM IN 50%, TN LCH ON DISH

3454'-3455' DOLO- CRM TO LT TN W/ TN OIL STN IN 30%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, SLI TR IMBD GLAUC OR KAOL, DUL YEL GLD FLO IN 30%, FR INTR GRN POR IN 10%, WK FLSH CUT IN 30%, PR SLW STRM IN 30%, NO LCH ON DISH

R.T.D. @ 11:30 AM 10/8/13

DROP SURVEY

TOFL

WEATHERFORD LIBERAL

CN
150 U. BG
CN
135 U. BG
90 U. BG
CN
CN
100 U. BG
C3 C2 C1
CN
140 U. BG
140 U. BG
CN
140 U. BG
CN
TG, C1-C5
1 10 100 1000
CN
CN
C3 C2 C1
TD@3515'

SAMPLES WILL BE DELIVERED TO KGS

THANK YOU FOR CHOOSING EARTH TECH

AARON SUELTER