Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1251350

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3882
Name: Samuel Gary Jr. & Associates, Inc.
Address 1: 1515 WYNKOOP, STE 700
Address 2:
City: DENVER State: CO Zip: 80202 + __ __ __ __
Contact Person: CLAYTON CAMOZZI
Phone: (303) 831-4673
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: SCHUYLER HEDRICK
Purchaser:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

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

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

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

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

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

1/10/2015	1/17/2015	1/18/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-153-21091-00-00
Spot Description:
__ - SW - SW - SE Sec. 13 Twp. 5 S. R. 32 ☐ East ☑ West
330 Feet from ☐ North / ☑ South Line of Section
2290 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: Rawlins
Lease Name: RYAN TRUST Well #: 1-13
Field Name:
Producing Formation: N/A
Elevation: Ground: 2979 Kelly Bushing: 2984
Total Vertical Depth: 4486 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 344 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: 9600 ppm Fluid volume: 0 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

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: 05/01/2015
☑ **Confidential Release Date:** 04/30/2017
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 05/04/2015

[redacted]

1251350

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: RYAN TRUST Well #: 1-13

Sec. 13 Twp. 5 S. R. 32 ☐ East ☑ West County: Rawlins

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:

DIL
MICRO
POROSITY

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

Name	Top	Datum
TOPEKA	3792	-808
HEEBNER	3914	-930
LANSING	3960	-976

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	344	80/20 POZ	300	3% CC, 2% GEL

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:
_____
_____

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	RYAN TRUST 1-13
Doc ID	1251350

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	344	80/20 POZ	300	3% CC, 2% GEL

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. 997

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-10-15	13	5	32	Rawlins	KS		11:30 PM

Location GEM, KS 13 1/2 N to Rd 1 E 1 W 2 1/2 E into

Lease	Ryan Trust	Well No.	1-13
Contractor	Murfin #8		
Type Job	Surface		
Hole Size	12 1/4	T.D.	344
Csg.	8 5/8	Depth	343
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.	20'	Shoe Joint	
Meas Line		Displace	20 BBL

EQUIPMENT

Pumptrk 18	No.	Cementer	Craig
		Helper	
Bulktrk	No.	Driver	Glenn
		Driver	
Bulktrk 19	No.	Driver	
		Driver	Ryan

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

8 5/8 on bottom. Est Circulation. Mix 300sk & Displace. Cement CIRCULATED

THANK'S!

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 Carey / J. & Associates

Street

City State

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

Cement Amount Ordered 300 sk 60/40 3% CC 2% Gel 1/2# Flo

Common	240
Poz. Mix	60
Gel.	6
Calcium	10
Hulls	
Salt	
Flowseal	150#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	316
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	1 8 5/8
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	
Mileage	41
Tax	
Discount	
Total Charge	

X Signature Travis W. Murfin

ALLIED OIL & GAS SERVICES, LLC 064642

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley, KS

DATE 1-18-15	SEC. 13	TWP. 5	RANGE 32	CALLED OUT	ON LOCATION 7:00am	JOB START 10:30am	JOB FINISH 12:30pm
LEASE Ryan Trust	WELL # 1-13		LOCATION Gem N to Rd C, 4E, 1N, 1/2E			COUNTY Rawlins	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Murfin 8
TYPE OF JOB PTA
HOLE SIZE 7 7/8 T.D. 4490'
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE 4 1/2 DEPTH 2725'
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT 31.64 bbl

OWNER Same

EQUIPMENT

PUMP TRUCK # 422 CEMENTER LaRue E. Wentz
HELPER Wayne McGlaughlin
BULK TRUCK # 818/287 DRIVER Paul Beaver
BULK TRUCK # DRIVER

REMARKS:

Mix 50 sks 2725'
mix 100 sks 1525'
Mix 30 sks 400'
mix 10 sks 40' w/plug
Mix 15 sks M.H.
Mix 30 sks R.H.
Thanks 04

CHARGE TO: Sam Gory & Associates
STREET
CITY STATE ZIP

CEMENT

AMOUNT ORDERED 255 sks 60/40 4% gel 1/4 # flo-seal

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
60/40/4 255 sks	@	18.92	4824.60
Flo-seal 64#	@	2.97	190.08
Material Total	@		5014.68
(225.60/45%)	@		
	@		
	@		
	@		
HANDLING 273.87 ft	@	2.48	679.20
MILEAGE 11.44 tm x 40 x 2.75			1258.40
		TOTAL	

SERVICE

DEPTH OF JOB 2725'			
PUMP TRUCK CHARGE			2483.59
EXTRA FOOTAGE	@		
MILEAGE MIRU 40	@	7.70	308.00
MANIFOLD	@		
MIRU 40	@	4.40	176.00
	@		
(2207.33/45%)		TOTAL	4,905.19

PLUG & FLOAT EQUIPMENT

Wooden plug	@		110.00
	@		
	@		
	@		
	@		
		TOTAL	110.00

SALES TAX (If Any)
TOTAL CHARGES 10,029.87
DISCOUNT 4,463.93 (45%) IF PAID IN 30 DAYS

5,565.94 Net

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Travis Martin
SIGNATURE Travis W. Martin

DRILL STEM TEST REPORT

Samuel Gary & Assoc., Inc.

1515 Wynkoop, STE 700
Denver, Co. 80202

ATTN: Clayton Cammozzi

13/5s/32w

Ryan Trust #1-13

Job Ticket: 61059 **DST#: 1**

Test Start: 2015.01.16 @ 08:50:00

GENERAL INFORMATION:

Formation: **L. Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:20:30
Time Test Ended: 16:23:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Quintana
Unit No: 57

Interval: 4328.00 ft (KB) To 4368.00 ft (KB) (TVD)
Total Depth: 4368.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

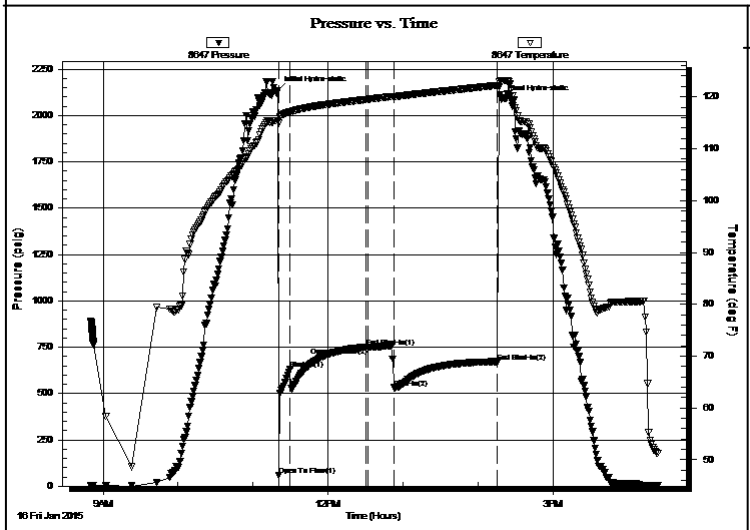
Reference Elevations: 2984.00 ft (KB)
2979.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8647 **Inside**

Press@RunDepth: 531.03 psig @ 4329.00 ft (KB)
Start Date: 2015.01.16 End Date: 2015.01.16
Start Time: 08:50:01 End Time: 16:23:30

Capacity: 8000.00 psig
Last Calib.: 2015.01.16
Time On Btm: 2015.01.16 @ 11:19:30
Time Off Btm: 2015.01.16 @ 14:18:30

TEST COMMENT: 10 - IF - Opened w / surface blow , built to 1"
60 - ISI - No Return
20 - FF - No Blow
90 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2135.35	115.34	Initial Hydro-static
1	58.77	114.93	Open To Flow (1)
10	631.91	117.12	Shut-In(1)
71	749.80	119.49	End Shut-In(1)
72	749.82	119.52	Open To Flow (2)
93	531.03	120.04	Shut-In(2)
176	671.97	122.21	End Shut-In(2)
179	2088.63	123.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
7.00	100%mud	0.03

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary & Assoc., Inc.

1515 Wynkoop, STE 700
Denver, Co. 80202

ATTN: Clayton Cammozzi

13/5s/32w

Ryan Trust #1-13

Job Ticket: 61059 **DST#: 1**

Test Start: 2015.01.16 @ 08:50:00

GENERAL INFORMATION:

Formation: **L. Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:20:30
Time Test Ended: 16:23:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Quintana
Unit No: 57

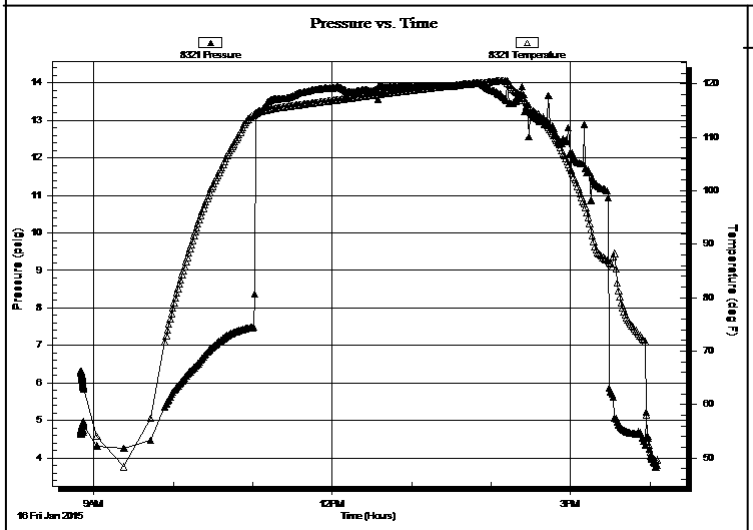
Interval: 4328.00 ft (KB) To 4368.00 ft (KB) (TVD)
Total Depth: 4368.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2984.00 ft (KB)
2979.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8321 **Fluid**
Press@RunDepth: psig @ 4295.00 ft (KB)
Start Date: 2015.01.16 End Date: 2015.01.16
Start Time: 08:50:01 End Time: 16:06:00

Capacity: 8000.00 psig
Last Calib.: 2015.01.16
Time On Btm:
Time Off Btm:

TEST COMMENT: 10 - IF - Opened w / surface blow , built to 1"
60 - ISI - No Return
20 - FF - No Blow
90 - FSI - No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
7.00	100%mud	0.03

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary & Assoc., Inc.

1515 Wynkoop, STE 700
Denver, Co. 80202

ATTN: Clayton Cammozzi

13/5s/32w

Ryan Trust #1-13

Job Ticket: 61059 **DST#: 1**

Test Start: 2015.01.16 @ 08:50:00

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:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2400.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

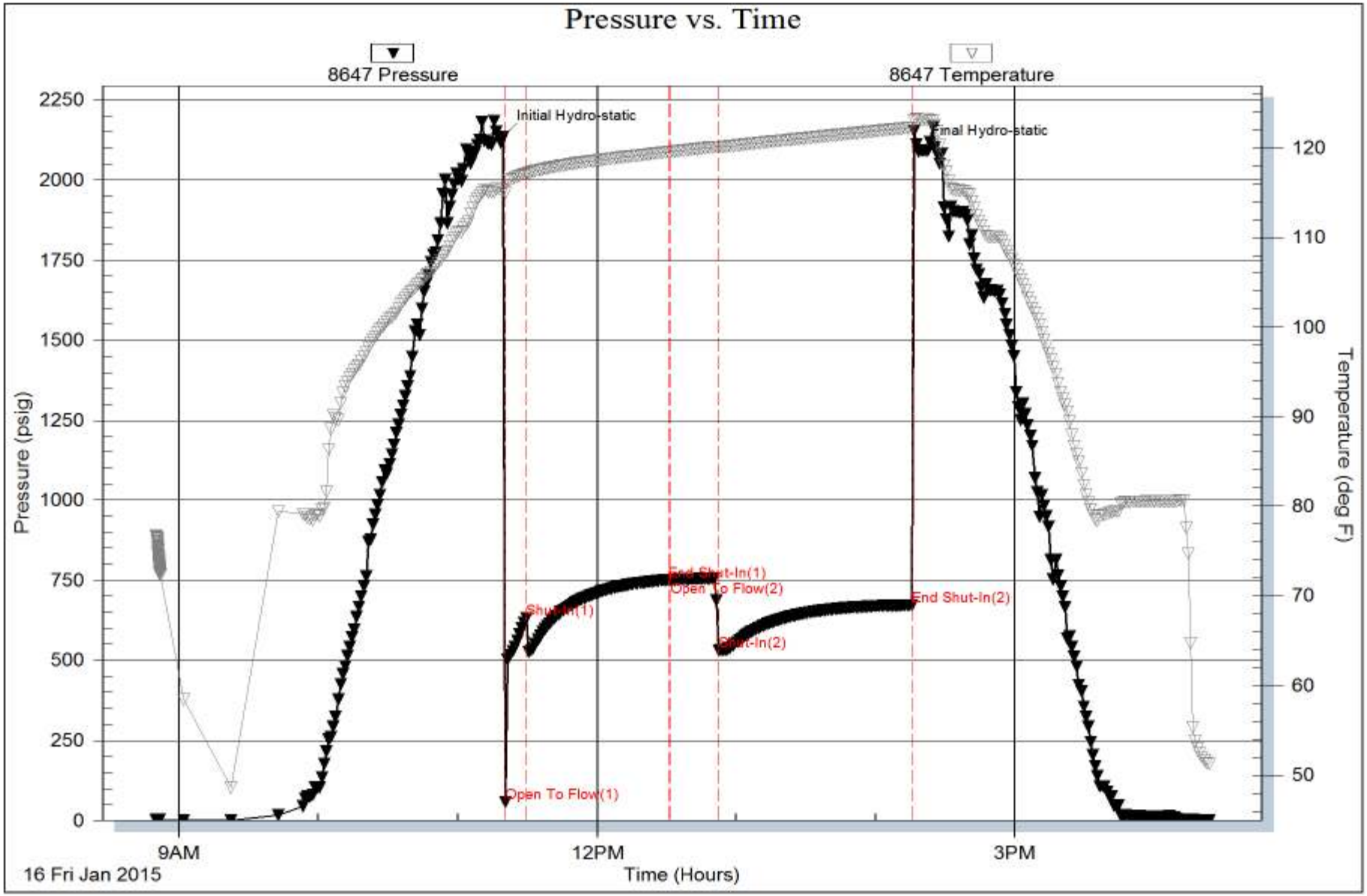
Recovery Table

Length ft	Description	Volume bbl
7.00	100%mud	0.034

Total Length: 7.00 ft Total Volume: 0.034 bbl

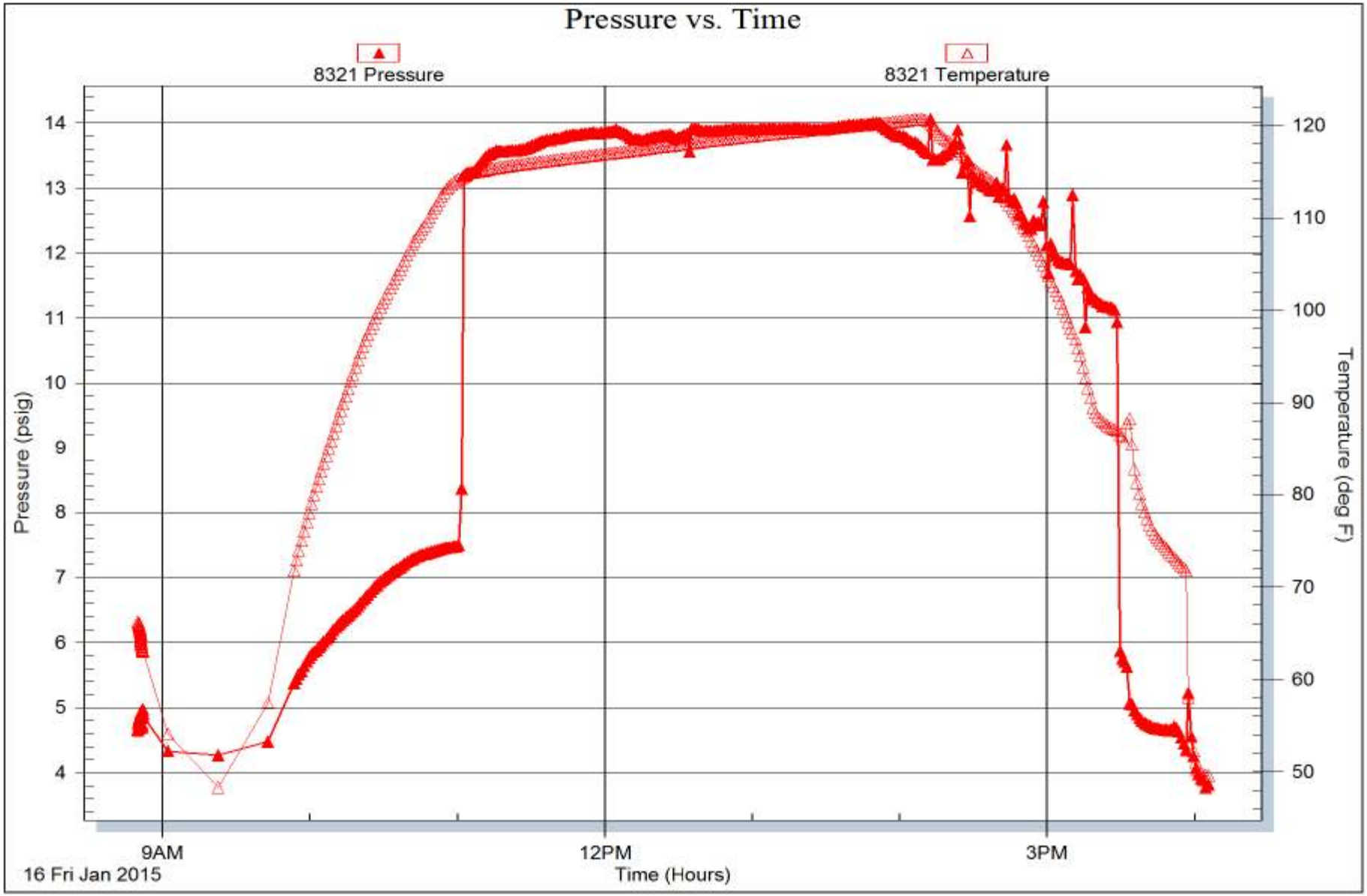
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8647 **Inside** Samuel Gary & Assoc., Inc. Ryan Trust #1-13 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 61059 Printed: 2015.01.16 @ 17:05:52

Serial #: 8321 **Fluid** Samuel Gary & Assoc., Inc. Ryan Trust #1-13 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 61059 Printed: 2015.01.16 @ 17:05:52

DRILL STEM TEST REPORT

Samuel Gary & Assoc., Inc.

1515 Wynkoop, STE 700
Denver, Co. 80202

ATTN: Clayton Cammozzi

13/5s/32w

Ryan Trust #1-13

Job Ticket: 61060 **DST#: 2**

Test Start: 2015.01.16 @ 18:08:00

GENERAL INFORMATION:

Formation: **L. Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:04:00
Time Test Ended: 04:11:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Quintana
Unit No: 57

Interval: 4332.00 ft (KB) To 4368.00 ft (KB) (TVD)
Total Depth: 4368.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

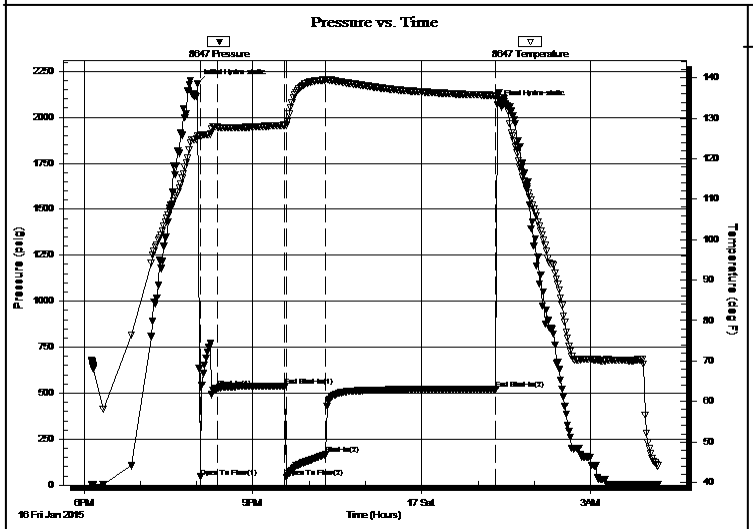
Reference Elevations: 2984.00 ft (KB)
2979.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8647 **Inside**

Press@RunDepth: 165.66 psig @ 4333.00 ft (KB)
Start Date: 2015.01.16 End Date: 2015.01.17
Start Time: 18:08:01 End Time: 04:11:30

Capacity: 8000.00 psig
Last Calib.: 2015.01.17
Time On Btm: 2015.01.16 @ 20:01:00
Time Off Btm: 2015.01.17 @ 01:20:30

TEST COMMENT: 20 - IF - Opened w / surface blow , built to 1/2"
75 - ISI - No Return
45 - FF - Blow built to B.o.B in 35 min.
180 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2180.65	125.58	Initial Hydro-static
3	45.30	125.31	Open To Flow (1)
21	526.25	127.81	Shut-In(1)
93	538.51	128.31	End Shut-In(1)
95	44.22	128.28	Open To Flow (2)
137	165.66	139.51	Shut-In(2)
318	523.03	135.65	End Shut-In(2)
320	2070.78	135.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
285.00	MW 80%w ,20%m	2.31
42.00	100%oil	0.59

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary & Assoc., Inc.

1515 Wynkoop, STE 700
Denver, Co. 80202

ATTN: Clayton Cammozzi

13/5s/32w

Ryan Trust #1-13

Job Ticket: 61060 **DST#: 2**

Test Start: 2015.01.16 @ 18:08:00

GENERAL INFORMATION:

Formation: **L. Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:04:00
Time Test Ended: 04:11:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Quintana
Unit No: 57

Interval: 4332.00 ft (KB) To 4368.00 ft (KB) (TVD)
Total Depth: 4368.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

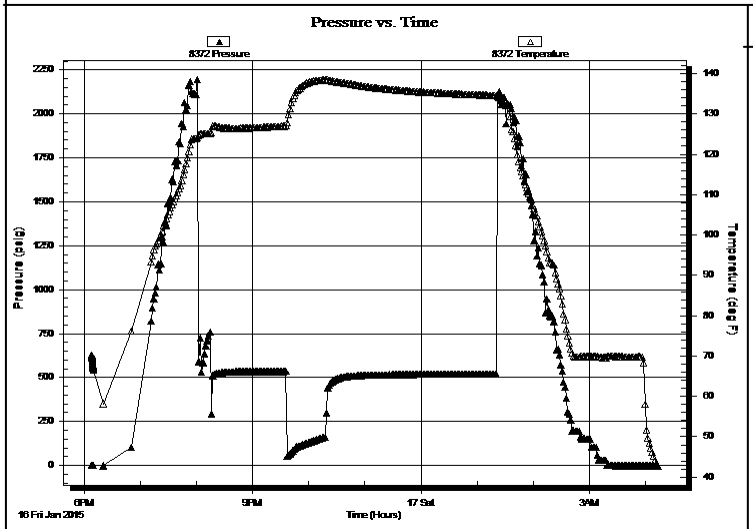
Reference Elevations: 2984.00 ft (KB)
2979.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8372 **Outside**

Press@RunDepth: psig @ 4333.00 ft (KB)
Start Date: 2015.01.16 End Date: 2015.01.17
Start Time: 18:08:01 End Time: 04:13:30

Capacity: 8000.00 psig
Last Calib.: 2015.01.17
Time On Btm:
Time Off Btm:

TEST COMMENT: 20 - IF - Opened w / surface blow , built to 1/2"
75 - ISI - No Return
45 - FF - Blow built to B.o.B in 35 min.
180 - FSI - No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
285.00	MW 80%w ,20%m	2.31
42.00	100%oil	0.59

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary & Assoc., Inc.

1515 Wynkoop, STE 700
Denver, Co. 80202

ATTN: Clayton Cammozzi

13/5s/32w

Ryan Trust #1-13

Job Ticket: 61060 **DST#: 2**

Test Start: 2015.01.16 @ 18:08:00

GENERAL INFORMATION:

Formation: **L. Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:04:00
Time Test Ended: 04:11:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Quintana
Unit No: 57

Interval: 4332.00 ft (KB) To 4368.00 ft (KB) (TVD)
Total Depth: 4368.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

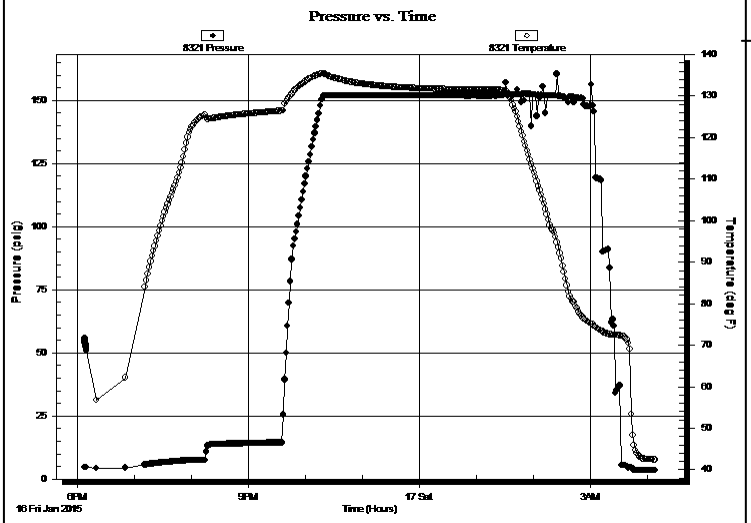
Reference Elevations: 2984.00 ft (KB)
2979.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8321

Press@RunDepth: psig @ ft (KB)
Start Date: 2015.01.16 End Date: 2015.01.17
Start Time: 18:08:01 End Time: 04:08:30

Capacity: 8000.00 psig
Last Calib.: 2015.01.17
Time On Btm:
Time Off Btm:

TEST COMMENT: 20 - IF - Opened w / surface blow , built to 1/2"
75 - ISI - No Return
45 - FF - Blow built to B.o.B in 35 min.
180 - FSI - No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
285.00	MW 80%w ,20%m	2.31
42.00	100%oil	0.59

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary & Assoc., Inc.

1515 Wynkoop, STE 700
Denver, Co. 80202

ATTN: Clayton Cammozzi

13/5s/32w

Ryan Trust #1-13

Job Ticket: 61060 **DST#: 2**

Test Start: 2015.01.16 @ 18:08:00

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:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2400.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
285.00	MW 80%w ,20%m	2.307
42.00	100%oil	0.589

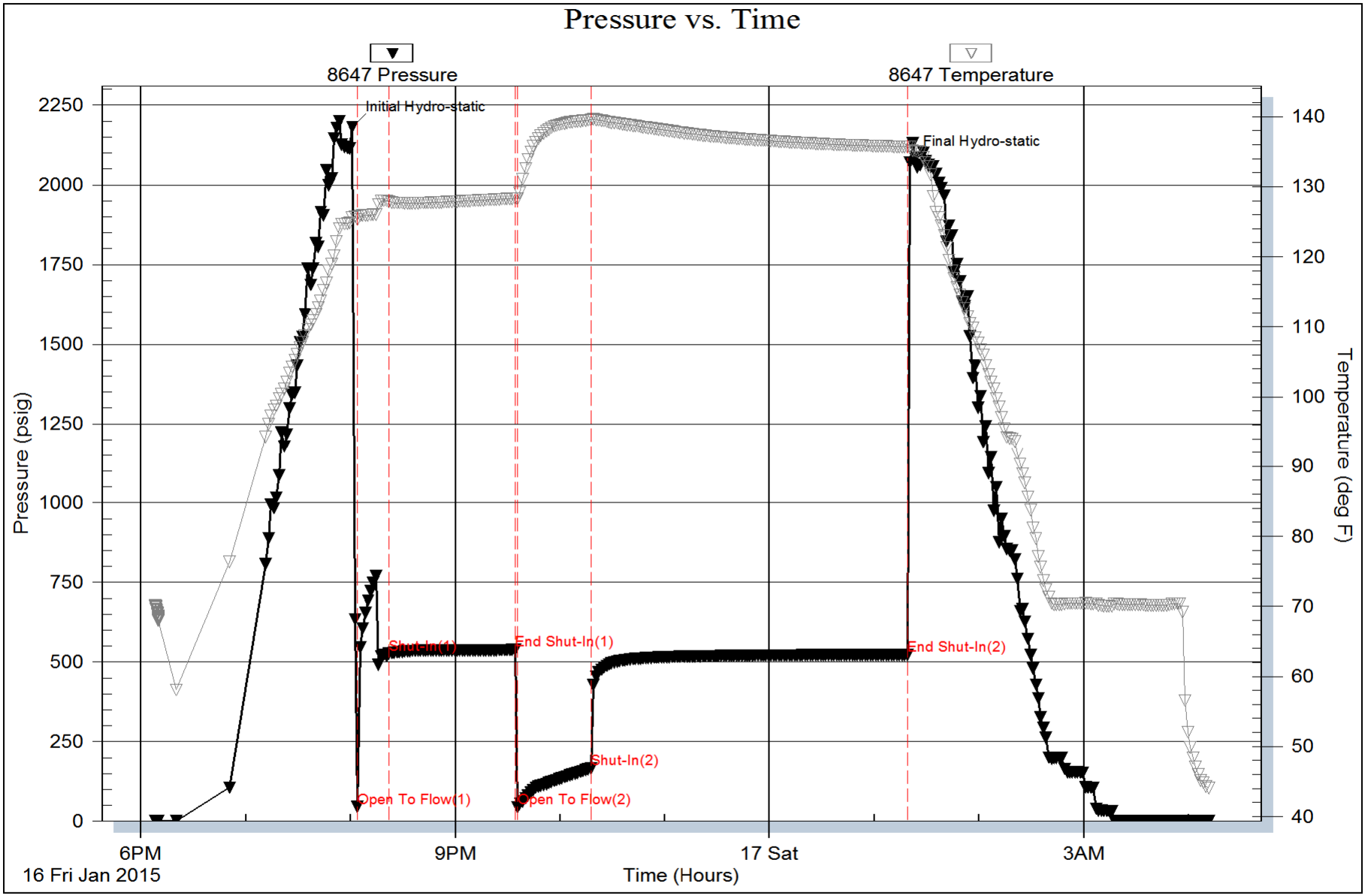
Total Length: 327.00 ft Total Volume: 2.896 bbl

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

Laboratory Name: Laboratory Location:

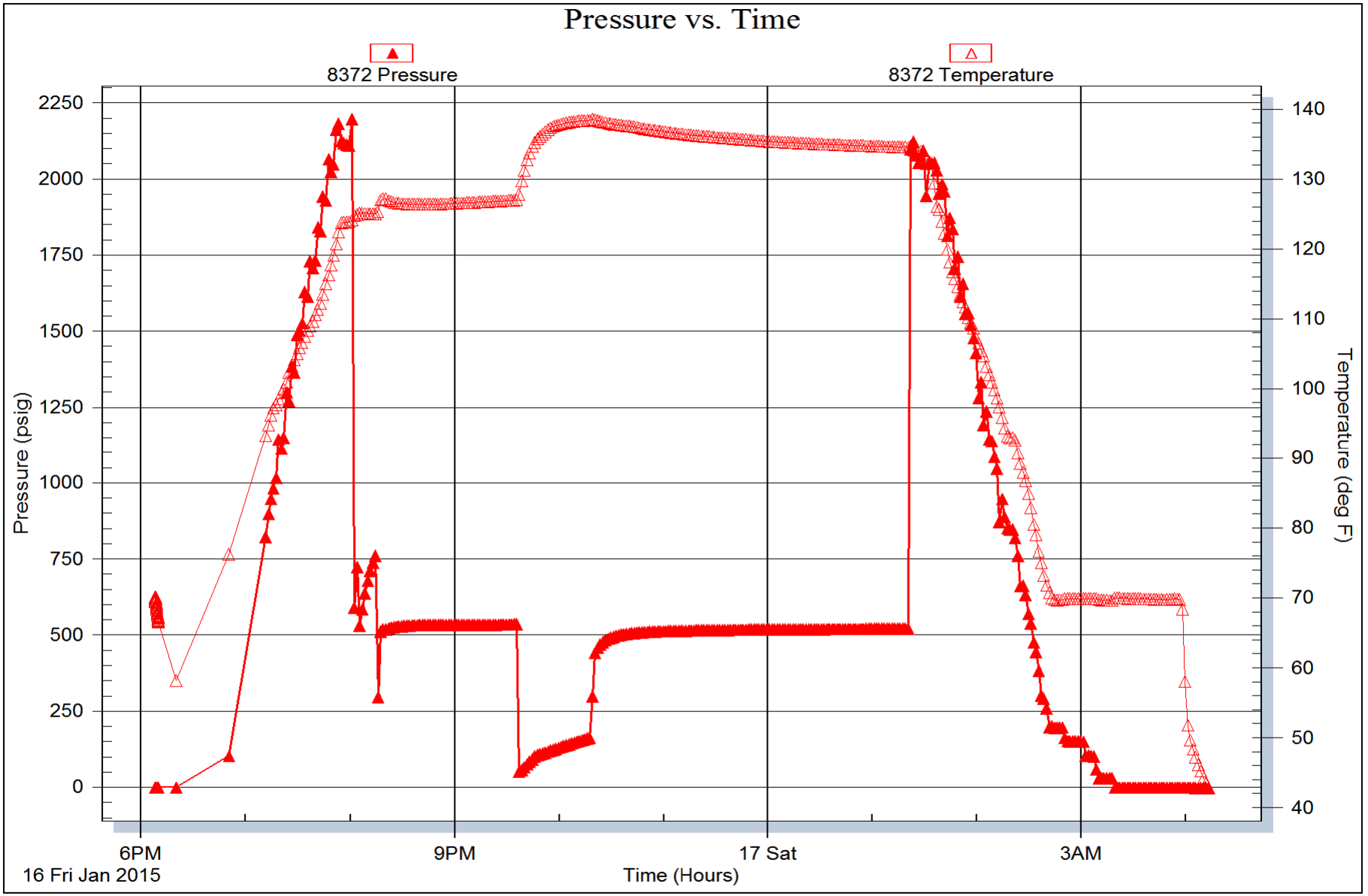
Recovery Comments: Gravity 28 @ 60
RW .14 @ 36 Chlorides 120,000ppm

Serial #: 8647 **Inside** Samuel Gary & Assoc., Inc. Ryan Trust #1-13 DST Test Number: 2



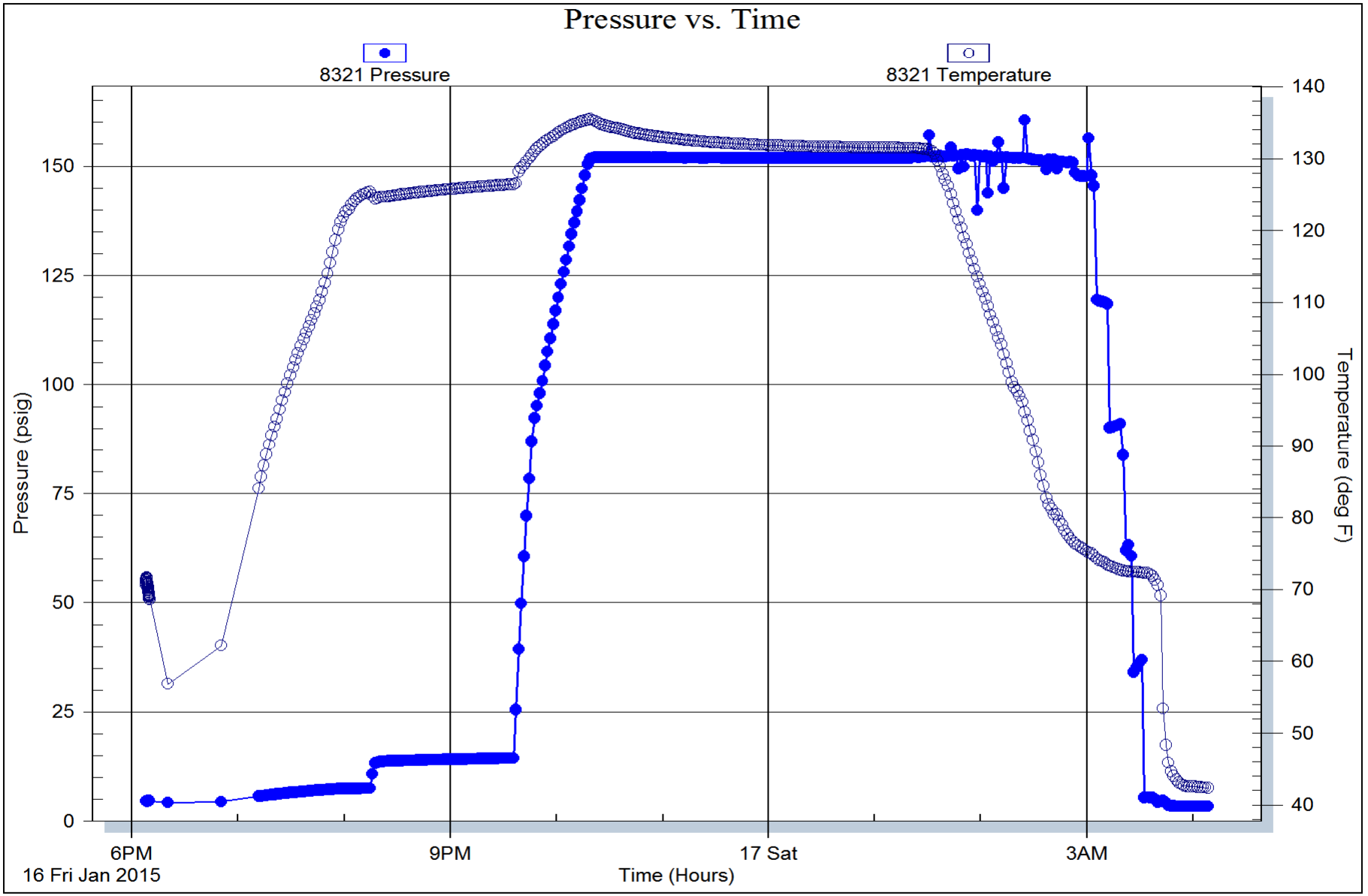
Trilobite Testing, Inc Ref. No: 61060 Printed: 2015.01.17 @ 07:05:34

Serial #: 8372 **Outside** Samuel Gary & Assoc., Inc. Ryan Trust #1-13 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 61060 Printed: 2015.01.17 @ 07:05:34

Serial #: 8321 Samuel Gary & Assoc., Inc. Ryan Trust #1-13 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 61060 Printed: 2015.01.17 @ 07:05:34

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

Well Name:	RYAN TRUST 1-13		
Well Id:			
Location:	SEC. 13 5S 32W	RAWLINS COUNTY, KANSAS	
License Number:	15-153-21091-0000	Region:	WILDCAT
Spud Date:	JAN. 10, 2015	Drilling Completed:	JAN. 17, 2015
Surface Coordinates:	330 FSL/ 2260 FEL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2979'	K.B. Elevation (ft):	2984'
Logged Interval (ft):	3780' To: 4490'	Total Depth (ft):	4490'
Formation:	Lansing, Kansas City		
Type of Drilling Fluid:	Natural Chemical		

Printed by WellSight Log Manager 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: Dan Pritchard

GEOLOGIST

Name: Schuyler Hedrick
Company: Earth Tech OGL, Inc.
Address: PO Box 683
Hooker, Okla . 73945
Off. 888-543-8378 Cell: 580-754-0231

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Samuel Gary & Assoc., Inc.

1515 Wynkoop, STE 700
Denver, Co. 80202

ATTN: Clayton Cammozzi

13/5s/32w

Ryan Trust #1-13

Job Ticket: 61059 **DST#: 1**

Test Start: 2015.01.16 @ 08:50:00

GENERAL INFORMATION:

Formation: **L. Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:20:30
Time Test Ended: 16:23:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Quintana
Unit No: 57

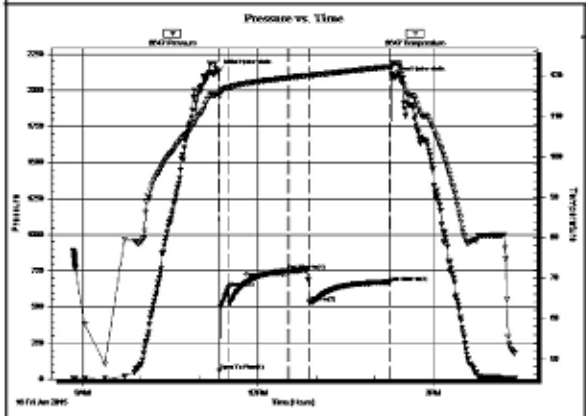
Interval: 4328.00 ft (KB) To 4368.00 ft (KB) (TVD)
Total Depth: 4368.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2984.00 ft (KB)
2979.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8647 **Inside**
Press@RunDepth: 531.03 psig @ 4329.00 ft (KB)
Start Date: 2015.01.16 End Date: 2015.01.16
Start Time: 08:50:01 End Time: 16:23:30

Capacity: 8000.00 psig
Last Calib.: 2015.01.16
Time On Btm: 2015.01.16 @ 11:19:30
Time Off Btm: 2015.01.16 @ 14:18:30

TEST COMMENT: 10 - IF - Opened w / surface blow , built to 1"
60 - ISI - No Return
20 - FF - No Blow
90 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2135.35	115.34	Initial Hydro-static
1	58.77	114.93	Open To Flow (1)
10	631.91	117.12	Shut-In(1)
71	749.80	119.49	End Shut-In(1)
72	749.82	119.52	Open To Flow (2)
93	531.03	120.04	Shut-In(2)
176	671.97	122.21	End Shut-In(2)
179	2088.63	123.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
7.00	100%mud	0.03

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Samuel Gary & Assoc., Inc.

1515 Wynkoop, STE 700
Denver, Co. 80202

ATTN: Clayton Cammozzi

13/5s/32w

Ryan Trust #1-13

Job Ticket: 61060 **DST#: 2**

Test Start: 2015.01.16 @ 18:08:00

GENERAL INFORMATION:

Formation: **L. Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:04:00
Time Test Ended: 04:11:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Quintana
Unit No: 57

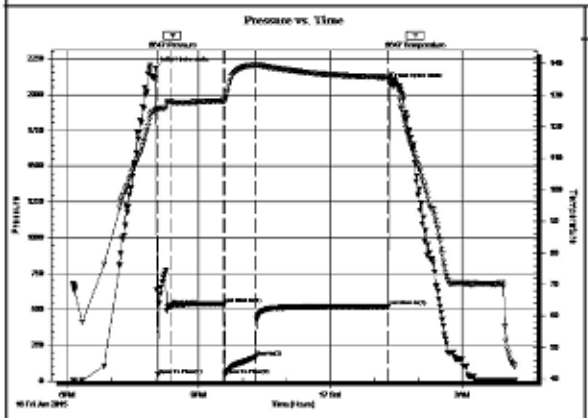
Interval: 4332.00 ft (KB) To 4368.00 ft (KB) (TVD)
Total Depth: 4368.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2984.00 ft (KB)
2979.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8647 **Inside**
Press@RunDepth: 165.66 psig @ 4333.00 ft (KB)
Start Date: 2015.01.16 End Date: 2015.01.17
Start Time: 18:08:01 End Time: 04:11:30

Capacity: 8000.00 psig
Last Calib.: 2015.01.17
Time On Btm: 2015.01.16 @ 20:01:00
Time Off Btm: 2015.01.17 @ 01:20:30

TEST COMMENT: 20 - IF - Opened w / surface blow , built to 1/2"
75 - ISI - No Return
45 - FF - Blow built to B.o.B in 35 min.
180 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2180.65	125.58	Initial Hydro-static
3	45.30	125.31	Open To Flow (1)
21	526.25	127.81	Shut-In(1)
93	538.51	128.31	End Shut-In(1)
95	44.22	128.28	Open To Flow (2)
137	165.66	139.51	Shut-In(2)
318	523.03	135.65	End Shut-In(2)
320	2070.78	135.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
285.00	MW 80%w ,20%m	2.31
42.00	100%oil	0.59

* Recovery from multiple tests

Gas Rates

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

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

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

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

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

INTERVALS
- Core
- Dst
- Dst

EVENTS
- Rft
- Sidewall

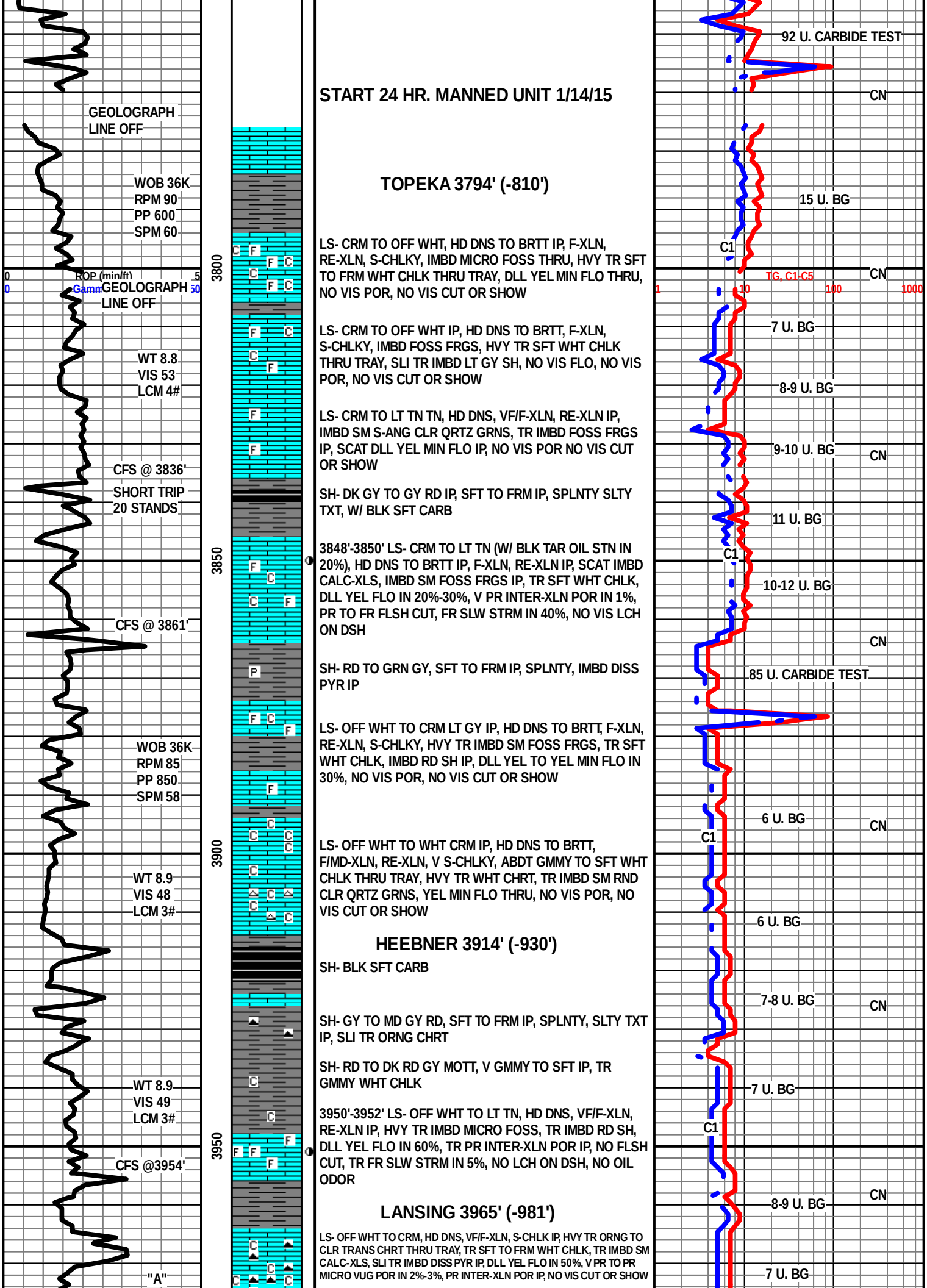
POROSITY TYPE
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

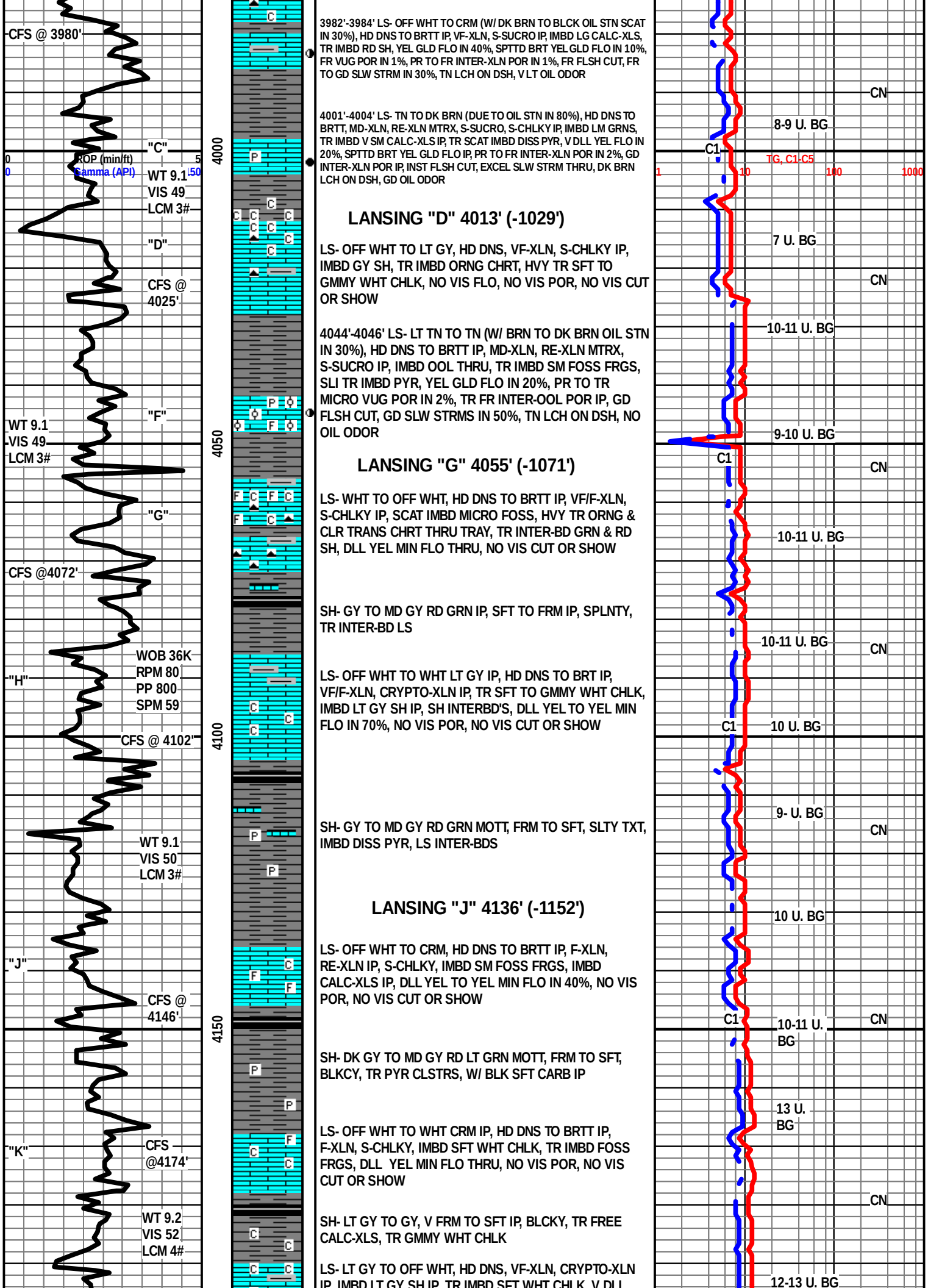
SORTING
- Well
- Moderate
- Poor

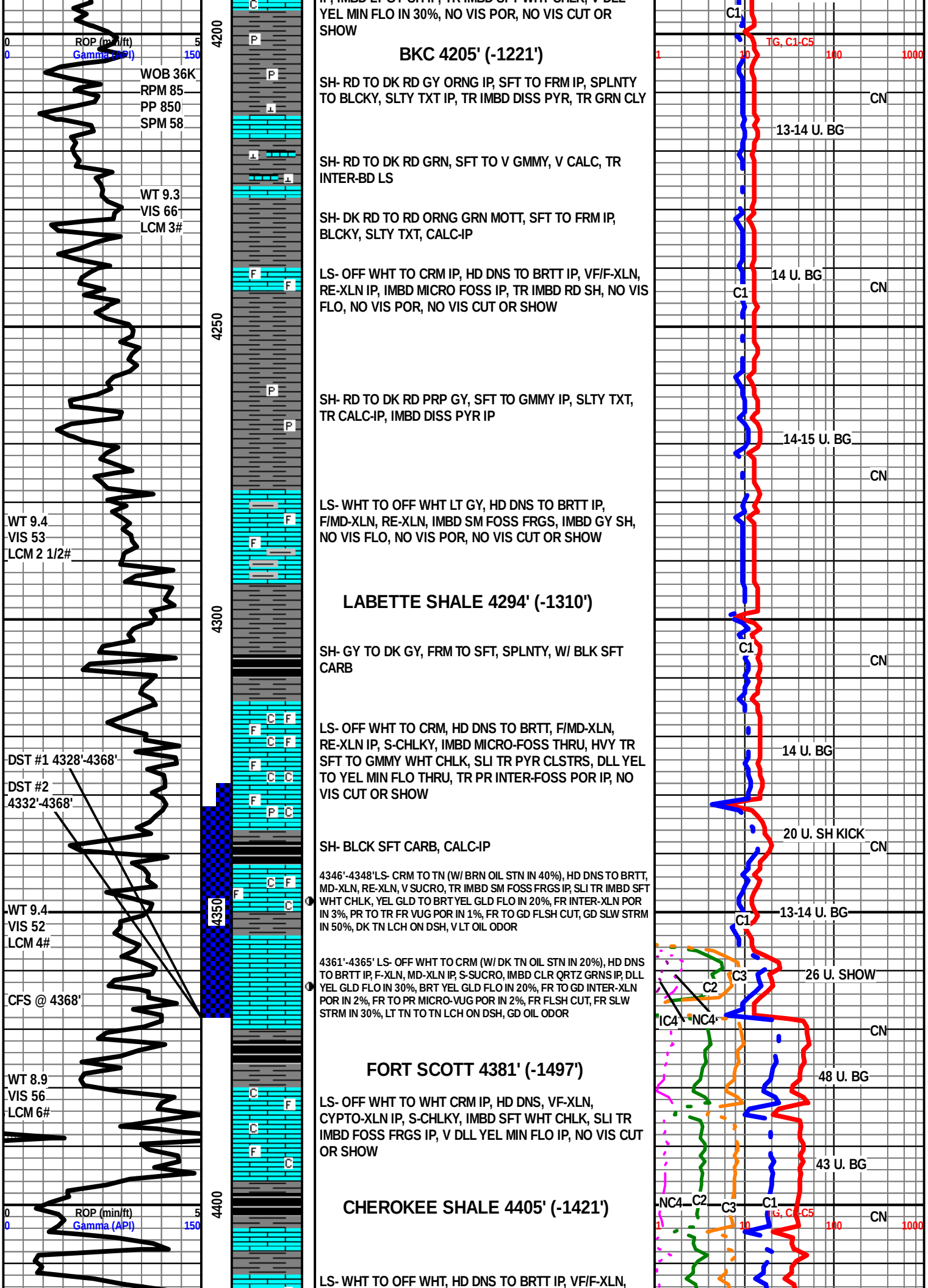
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

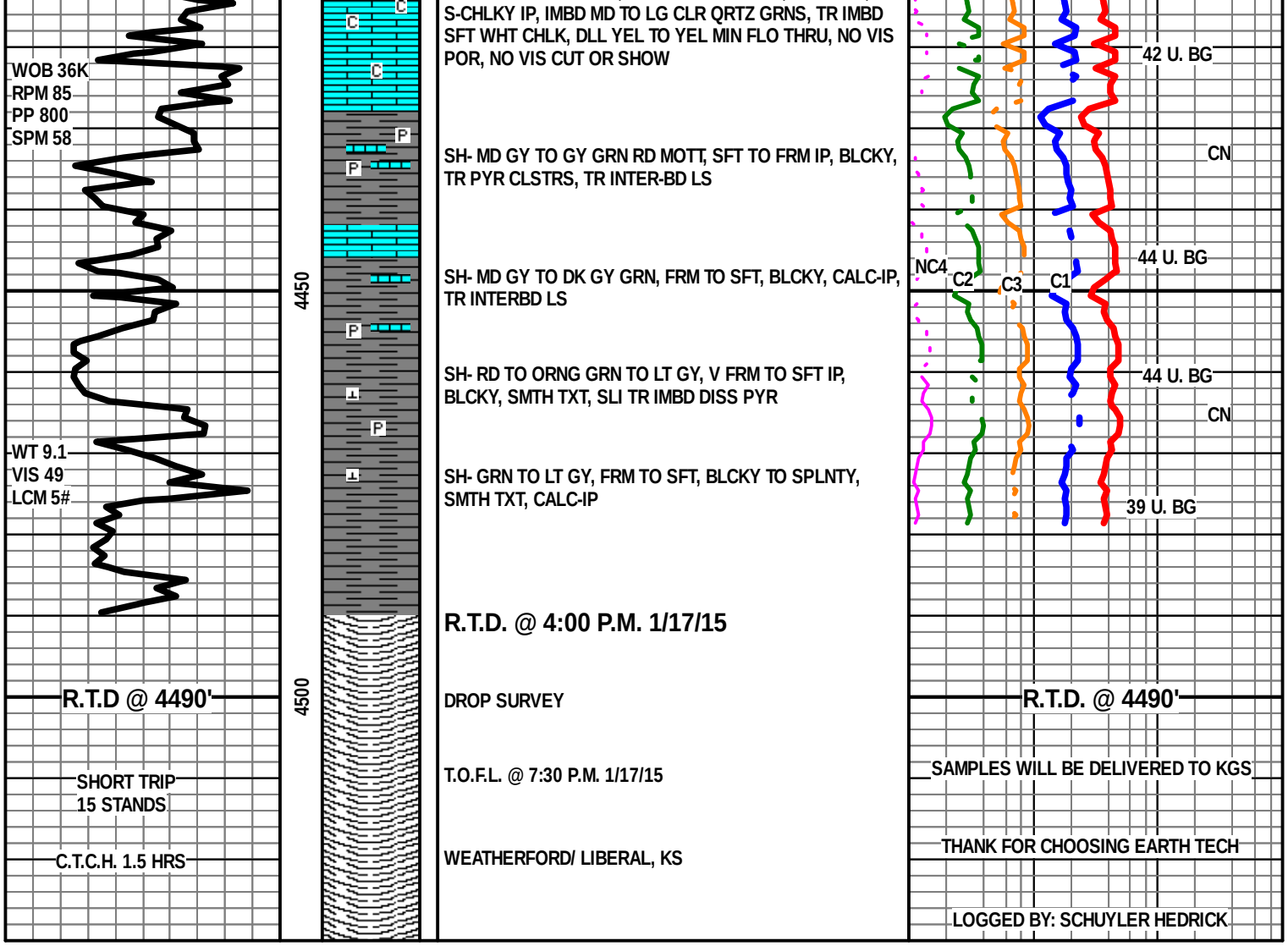
OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

Curve Track 1 ROP (min/ft) Gamma (API)	Depth	Lithology	Oil Shows	Geological Descriptions	TG, C1-C5 TG (units) C1 (units) C2 (units) C3 (units) C4 (units) C5 (units)
0 ROP (min/ft) 5 0 Gamma (API) 150	37			**MURFIN RIG #8** TOOL PUSHER: TRAVIS MARTIN BIT #1 TRI-CONE H-C GX11C SERIAL # 5241309 JETS 3 15'S SURVEY'S 344'- 1 1/4 DEG. MUD DISPLACEMENT @ 3481'	TG, C1-C5 1 10 100 1000
	3750				


GEOLOGRAPH
LINE OFF
WOB 36K
RPM 90
PP 600
SPM 60
ROP (min/ft)
0
5
Gamma
0
50
GEOLOGRAPH
LINE OFF
WT 8.8
VIS 53
LCM 4#
CFS @ 3836'
SHORT TRIP
20 STANDS
CFS @ 3861'
WOB 36K
RPM 85
PP 850
SPM 58
WT 8.9
VIS 48
LCM 3#
WT 8.9
VIS 49
LCM 3#
CFS @3954'
"A"
3800
3850
3900
3950
START 24 HR. MANNED UNIT 1/14/15
TOPEKA 3794' (-810')
LS- CRM TO OFF WHT, HD DNS TO BRTT IP, F-XLN, RE-XLN, S-CHLKY, IMBD MICRO FOSS THRU, HVY TR SFT TO FRM WHT CHLK THRU TRAY, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW
LS- CRM TO OFF WHT IP, HD DNS TO BRTT, F-XLN, S-CHLKY, IMBD FOSS FRGS, HVY TR SFT WHT CHLK THRU TRAY, SLI TR IMBD LT GY SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
LS- CRM TO LT TN TN, HD DNS, VF/F-XLN, RE-XLN IP, IMBD SM S-ANG CLR QRTZ GRNS, TR IMBD FOSS FRGS IP, SCAT DLL YEL MIN FLO IP, NO VIS POR NO VIS CUT OR SHOW
SH- DK GY TO GY RD IP, SFT TO FRM IP, SPLNTY SLTY TXT, W/ BLK SFT CARB
3848'-3850' LS- CRM TO LT TN (W/ BLK TAR OIL STN IN 20%), HD DNS TO BRTT IP, F-XLN, RE-XLN IP, SCAT IMBD CALC-XLS, IMBD SM FOSS FRGS IP, TR SFT WHT CHLK, DLL YEL FLO IN 20%-30%, V PR INTER-XLN POR IN 1%, PR TO FR FLSH CUT, FR SLW STRM IN 40%, NO VIS LCH ON DSH
SH- RD TO GRN GY, SFT TO FRM IP, SPLNTY, IMBD DISS PYR IP
LS- OFF WHT TO CRM LT GY IP, HD DNS TO BRTT, F-XLN, RE-XLN, S-CHLKY, HVY TR IMBD SM FOSS FRGS, TR SFT WHT CHLK, IMBD RD SH IP, DLL YEL TO YEL MIN FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW
LS- OFF WHT TO WHT CRM IP, HD DNS TO BRTT, F/MD-XLN, RE-XLN, V S-CHLKY, ABDT GMMY TO SFT WHT CHLK THRU TRAY, HVY TR WHT CHRT, TR IMBD SM RND CLR QRTZ GRNS, YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW
HEEBNER 3914' (-930')
SH- BLK SFT CARB
SH- GY TO MD GY RD, SFT TO FRM IP, SPLNTY, SLTY TXT IP, SLI TR ORNG CHRT
SH- RD TO DK RD GY MOTT, V GMMY TO SFT IP, TR GMMY WHT CHLK
3950'-3952' LS- OFF WHT TO LT TN, HD DNS, VF/F-XLN, RE-XLN IP, HVY TR IMBD MICRO FOSS, TR IMBD RD SH, DLL YEL FLO IN 60%, TR PR INTER-XLN POR IP, NO FLSH CUT, TR FR SLW STRM IN 5%, NO LCH ON DSH, NO OIL ODOR
LANSING 3965' (-981')
LS- OFF WHT TO CRM, HD DNS, VF/F-XLN, S-CHLK IP, HVY TR ORNG TO CLR TRANS CHRT THRU TRAY, TR SFT TO FRM WHT CHLK, TR IMBD SM CALC-XLS, SLI TR IMBD DISS PYR IP, DLL YEL FLO IN 50%, V PR TO PR MICRO VUG POR IN 2%-3%, PR INTER-XLN POR IP, NO VIS CUT OR SHOW
92 U. CARBIDE TEST
CN
15 U. BG
C1
TG, C1-C5
1
10
100
1000
7 U. BG
8-9 U. BG
9-10 U. BG
11 U. BG
10-12 U. BG
85 U. CARBIDE TEST
6 U. BG
7-8 U. BG
7 U. BG
8-9 U. BG
7 U. BG


CFS @ 3980'
"C"
ROP (min/ft)
0
5
Gamma (API)
0
150
WT 9.1
VIS 49
LCM 3#
"D"
CFS @ 4025'
"F"
WT 9.1
VIS 49
LCM 3#
"G"
CFS @4072'
WOB 36K
RPM 80
PP 800
SPM 59
"H"
CFS @ 4102'
WT 9.1
VIS 50
LCM 3#
"J"
CFS @ 4146'
"K"
CFS @4174'
WT 9.2
VIS 52
LCM 4#
4000
4050
4100
4150
3982'-3984' LS- OFF WHT TO CRM (W/ DK BRN TO BLCK OIL STN SCAT IN 30%), HD DNS TO BRTT IP, VF-XLN, S-SUCRO IP, IMBD LG CALC-XLS, TR IMBD RD SH, YEL GLD FLO IN 40%, SPTTD BRT YEL GLD FLO IN 10%, FR VUG POR IN 1%, PR TO FR INTER-XLN POR IN 1%, FR FLSH CUT, FR TO GD SLW STRM IN 30%, TN LCH ON DSH, V LT OIL ODOR
4001'-4004' LS- TN TO DK BRN (DUE TO OIL STN IN 80%), HD DNS TO BRTT, MD-XLN, RE-XLN MTRX, S-SUCRO, S-CHLKY IP, IMBD LM GRNS, TR IMBD V SM CALC-XLS IP, TR SCAT IMBD DISS PYR, V DLL YEL FLO IN 20%, SPTTD BRT YEL GLD FLO IP, PR TO FR INTER-XLN POR IN 2%, GD INTER-XLN POR IP, INST FLSH CUT, EXCEL SLW STRM THRU, DK BRN LCH ON DSH, GD OIL ODOR
LANSING "D" 4013' (-1029')
LS- OFF WHT TO LT GY, HD DNS, VF-XLN, S-CHLKY IP, IMBD GY SH, TR IMBD ORNG CHRT, HVY TR SFT TO GMMY WHT CHLK, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
4044'-4046' LS- LT TN TO TN (W/ BRN TO DK BRN OIL STN IN 30%), HD DNS TO BRTT IP, MD-XLN, RE-XLN MTRX, S-SUCRO IP, IMBD OOL THRU, TR IMBD SM FOSS FRGS, SLI TR IMBD PYR, YEL GLD FLO IN 20%, PR TO TR MICRO VUG POR IN 2%, TR FR INTER-OOL POR IP, GD FLSH CUT, GD SLW STRMS IN 50%, TN LCH ON DSH, NO OIL ODOR
LANSING "G" 4055' (-1071')
LS- WHT TO OFF WHT, HD DNS TO BRTT IP, VF/F-XLN, S-CHLKY IP, SCAT IMBD MICRO FOSS, HVY TR ORNG & CLR TRANS CHRT THRU TRAY, TR INTER-BD GRN & RD SH, DLL YEL MIN FLO THRU, NO VIS CUT OR SHOW
SH- GY TO MD GY RD GRN IP, SFT TO FRM IP, SPLNTY, TR INTER-BD LS
LS- OFF WHT TO WHT LT GY IP, HD DNS TO BRT IP, VF/F-XLN, CRYPTO-XLN IP, TR SFT TO GMMY WHT CHLK, IMBD LT GY SH IP, SH INTERBD'S, DLL YEL TO YEL MIN FLO IN 70%, NO VIS POR, NO VIS CUT OR SHOW
SH- GY TO MD GY RD GRN MOTT, FRM TO SFT, SLTY TXT, IMBD DISS PYR, LS INTER-BDS
LANSING "J" 4136' (-1152')
LS- OFF WHT TO CRM, HD DNS TO BRTT IP, F-XLN, RE-XLN IP, S-CHLKY, IMBD SM FOSS FRGS, IMBD CALC-XLS IP, DLL YEL TO YEL MIN FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW
SH- DK GY TO MD GY RD LT GRN MOTT, FRM TO SFT, BLKCY, TR PYR CLSTRS, W/ BLK SFT CARB IP
LS- OFF WHT TO WHT CRM IP, HD DNS TO BRTT IP, F-XLN, S-CHLKY, IMBD SFT WHT CHLK, TR IMBD FOSS FRGS, DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW
SH- LT GY TO GY, V FRM TO SFT IP, BLCKY, TR FREE CALC-XLS, TR GMMY WHT CHLK
LS- LT GY TO OFF WHT, HD DNS, VF-XLN, CRYPTO-XLN
C1
TG, C1-C5
1
10
100
1000
CN
8-9 U. BG
7 U. BG
10-11 U. BG
9-10 U. BG
10-11 U. BG
10 U. BG
9- U. BG
10 U. BG
10-11 U. BG
13 U. BG
12-13 U. BG


0
ROP (min/ft)
5
0
Gamma (API)
150
WOB 36K
RPM 85
PP 850
SPM 58
WT 9.3
VIS 66
LCM 3#
WT 9.4
VIS 53
LCM 2 1/2#
DST #1 4328'-4368'
DST #2
4332'-4368'
WT 9.4
VIS 52
LCM 4#
CFS @ 4368'
WT 8.9
VIS 56
LCM 6#
4200
4250
4300
4350
4400
YEL MIN FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW
BKC 4205' (-1221')
SH- RD TO DK RD GY ORNG IP, SFT TO FRM IP, SPLNTY TO BLCKY, SLTY TXT IP, TR IMBD DISS PYR, TR GRN CLY
SH- RD TO DK RD GRN, SFT TO V GMMY, V CALC, TR INTER-BD LS
SH- DK RD TO RD ORNG GRN MOTT, SFT TO FRM IP, BLCKY, SLTY TXT, CALC-IP
LS- OFF WHT TO CRM IP, HD DNS TO BRTT IP, VF/F-XLN, RE-XLN IP, IMBD MICRO FOSS IP, TR IMBD RD SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
SH- RD TO DK RD PRP GY, SFT TO GMMY IP, SLTY TXT, TR CALC-IP, IMBD DISS PYR IP
LS- WHT TO OFF WHT LT GY, HD DNS TO BRTT IP, F/MD-XLN, RE-XLN, IMBD SM FOSS FRGS, IMBD GY SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
LABETTE SHALE 4294' (-1310')
SH- GY TO DK GY, FRM TO SFT, SPLNTY, W/ BLK SFT CARB
LS- OFF WHT TO CRM, HD DNS TO BRTT, F/MD-XLN, RE-XLN IP, S-CHLKY, IMBD MICRO-FOSS THRU, HVY TR SFT TO GMMY WHT CHLK, SLI TR PYR CLSTRS, DLL YEL TO YEL MIN FLO THRU, TR PR INTER-FOSS POR IP, NO VIS CUT OR SHOW
SH- BLCK SFT CARB, CALC-IP
4346'-4348'LS- CRM TO TN (W/ BRN OIL STN IN 40%), HD DNS TO BRTT, MD-XLN, RE-XLN, V SUCRO, TR IMBD SM FOSS FRGS IP, SLI TR IMBD SFT WHT CHLK, YEL GLD TO BRT YEL GLD FLO IN 20%, FR INTER-XLN POR IN 3%, PR TO TR FR VUG POR IN 1%, FR TO GD FLSH CUT, GD SLW STRM IN 50%, DK TN LCH ON DSH, V LT OIL ODOR
4361'-4365' LS- OFF WHT TO CRM (W/ DK TN OIL STN IN 20%), HD DNS TO BRTT IP, F-XLN, MD-XLN IP, S-SUCRO, IMBD CLR QRTZ GRNS IP, DLL YEL GLD FLO IN 30%, BRT YEL GLD FLO IN 20%, FR TO GD INTER-XLN POR IN 2%, FR TO PR MICRO-VUG POR IN 2%, FR FLSH CUT, FR SLW STRM IN 30%, LT TN TO TN LCH ON DSH, GD OIL ODOR
FORT SCOTT 4381' (-1497')
LS- OFF WHT TO WHT CRM IP, HD DNS, VF-XLN, CYPTO-XLN IP, S-CHLKY, IMBD SFT WHT CHLK, SLI TR IMBD FOSS FRGS IP, V DLL YEL MIN FLO IP, NO VIS CUT OR SHOW
CHEROKEE SHALE 4405' (-1421')
LS- WHT TO OFF WHT, HD DNS TO BRTT IP, VF/F-XLN,
C1
TG, C1-C5
1
10
100
1000
CN
13-14 U. BG
14 U. BG
14-15 U. BG
20 U. SH KICK
26 U. SHOW
48 U. BG
43 U. BG
C2
C3
IC4
NC4


WOB 36K
RPM 85
PP 800
SPM 58
WT 9.1
VIS 49
LCM 5#
R.T.D @ 4490'
SHORT TRIP
15 STANDS
C.T.C.H. 1.5 HRS
4450
4500
C
P
S-CHLKY IP, IMBD MD TO LG CLR QRTZ GRNS, TR IMBD SFT WHT CHLK, DLL YEL TO YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW
SH- MD GY TO GY GRN RD MOTT, SFT TO FRM IP, BLCKY, TR PYR CLSTRS, TR INTER-BD LS
SH- MD GY TO DK GY GRN, FRM TO SFT, BLCKY, CALC-IP, TR INTERBD LS
SH- RD TO ORNG GRN TO LT GY, V FRM TO SFT IP, BLCKY, SMTH TXT, SLI TR IMBD DISS PYR
SH- GRN TO LT GY, FRM TO SFT, BLCKY TO SPLNTY, SMTH TXT, CALC-IP
R.T.D. @ 4:00 P.M. 1/17/15
DROP SURVEY
T.O.F.L. @ 7:30 P.M. 1/17/15
WEATHERFORD/ LIBERAL, KS
42 U. BG
CN
44 U. BG
NC4
C2
C3
C1
44 U. BG
CN
39 U. BG
R.T.D. @ 4490'
SAMPLES WILL BE DELIVERED TO KGS
THANK FOR CHOOSING EARTH TECH
LOGGED BY: SCHUYLER HEDRICK