Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1256528

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: TIM HEDRICK
Purchaser:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

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

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

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

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

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

3/11/2015	3/19/2015	3/20/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-153-21116-00-00
Spot Description:
NE - SW - NW - SE Sec. 3 Twp. 4 S. R. 36 ☐ East ☑ West
1975 Feet from ☐ North / ☑ South Line of Section
2210 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: FISHER CATTLE CO Well #: 2-3
Field Name:
Producing Formation: N/A
Elevation: Ground: 3194 Kelly Bushing: 3199
Total Vertical Depth: 4671 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 260 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: 1200 ppm Fluid volume: 320 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: BOW CREEK OIL COMPANY
Lease Name: DUNKER 1-0136 License #: 34530
Quarter SW Sec. 36 Twp. 1 S. R. 33 ☐ East ☑ West
County: RAWLINS Permit #: D26416

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: 07/01/2015
☑ **Confidential Release Date:** 06/30/2017
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 07/02/2015

[redacted]

1256528

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: FISHER CATTLE CO Well #: 2-3

Sec. 3 Twp. 4 S. R. 36 ☐ 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:

DEN-NEUT
INDUCTION
MICRO

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

Name	Top	Datum
TOPEKA	3909	-710
HEEBNER	4052	-853
LANSING	4100	-901
CHEROKEE	4556	-1357

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	260	COMMON CLASS A	220	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:
_____
_____

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	FISHER CATTLE CO 2-3
Doc ID	1256528

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	260	COMMON CLASS A	220	2% GEL, 3% CC

ALLIED OIL & GAS SERVICES, LLC 064667

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley, KS

DATE 3-11-15	SEC. 3	TWP. 4	RANGE 36	CALLED OUT	ON LOCATION 5:00 pm	JOB START 7:00 pm	JOB FINISH 7:30 pm
LEASE Fisher Trust	WELL # 2-3		LOCATION McDonald 5 to Rd L, S			COUNTY Rawlins	STATE KS
OLD OR NEW (Circle one)			2 1/2 E, N, E, S into				

CONTRACTOR Martin 8
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 360
CASING SIZE 8 5/8 DEPTH 361'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 15.74 661

OWNER Same

EQUIPMENT

PUMP TRUCK # 422 CEMENTER LaRane Edwards
HELPER Wayne McCoy
BULK TRUCK # 890/241 DRIVER George Grant
BULK TRUCK # DRIVER

REMARKS:

Mix 220 SK cement
Displace with water
Cement did circulate
365' to pit

Thank you

CHARGE TO: Sam Gary
STREET
CITY STATE ZIP

CEMENT

AMOUNT ORDERED 220 SK Com 3% CC 2% gel

COMMON	220 SK	@ 17.90	3938.00
POZMIX		@	
GEL	4 1/4 #	@ .50	202.00
CHLORIDE	6 20 #	@ 1.10	682.00
ASC		@	
		@	
Mileage Total		@	4,821.00
(8172.15 | 45%)		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	237.89 SK	@ 2.48	589.77
MILEAGE 18 Sx/mx 40		X 2.73	1194.60

TOTAL

SERVICE

DEPTH OF JOB 361'
PUMP TRUCK CHARGE 1512.25
EXTRA FOOTAGE @
MILEAGE MIRU 40 @ 2.70 108.00
MANIFOLD @ 275.00
MIRU 40 @ 4.40 176.00
@
(1825.11 \| 45%) TOTAL 4,655.82

PLUG & FLOAT EQUIPMENT

Centralizer 8 5/8 @ 75.00
@
@
@
@

TOTAL 75.00

SALES TAX (If Any)
TOTAL CHARGES 8,957.82
DISCOUNT 3,992.26 (45%) IF PAID IN 30 DAYS
4,968.55 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 Martin

ALLIED OIL & GAS SERVICES, LLC 063853

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley, KS

DATE 3/20/15	SEC 3	TWP 9	RANGE 31	CALLED OUT	ON LOCATION	JOB START 9:00p	JOB FINISH 9:00p
LEASE Fisher Cattle	WELL # 2-3		LOCATION McDonald 5 TO L .5 2E Sita			COUNTY Lincoln	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR Murfin 8
TYPE OF JOB PTA
HOLE SIZE 7 7/8 T.D. 4650'
CASING SIZE 8 5/8 DEPTH 261
TUBING SIZE DEPTH
DRILL PIPE 4 1/2 DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER Same

CEMENT
AMOUNT ORDERED 255 60/40 4%gel 1/4 Flo

EQUIPMENT

PUMP TRUCK CEMENTER Alan Ryan
485-281 HELPER Kevin Ryan
BULK TRUCK
373 DRIVER George Grant
BULK TRUCK
DRIVER

REMARKS:

50SK @ 2975'
100SK @ 2200'
50SK @ 310'
40SK @ 40'
15SK - RH
30SK - MH

COMMON	255	@ 18.25	4823.75
POZMIX		@	
GEL		@	
CHLORIDE		@	
ASC		@	
Flo Seal	64lb	@ 2.25	190.00
		@	
Material Total		@	5014.68
(2256.60/45%)		@	
		@	
		@	
		@	
HANDLING	283	@ 2.40	679.20
MILEAGE 25¢ per/mile 11	45		1237.50
		TOTAL	

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			2483.75
EXTRA FOOTAGE		@	
MILEAGE	40	@ 2.00	308.00
MANIFOLD		@	
	40	@ 4.40	176.00
		@	
(2207.05/45%)		TOTAL	4,904.56

PLUG & FLOAT EQUIPMENT

8 5/8 Wooden Plug		@ 1	110.00
		@	
		@	
		@	
		@	
		TOTAL	110.00

CHARGE TO: Sam Gary
STREET
CITY STATE ZIP

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

SALES TAX (If Any)
TOTAL CHARGES 10,029.24
DISCOUNT 4,463.65 (45%) IF PAID IN 30 DAYS
5,565.58 Net.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Clayton Camozzi

3-4S-36W Rawlins, KS

Fisher Cattle Co#2-3

Job Ticket: 60897 **DST#: 1**

Test Start: 2015.03.16 @ 02:04:00

GENERAL INFORMATION:

Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:47:00
Time Test Ended: 10:11:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 82

Interval: 4108.00 ft (KB) To 4123.00 ft (KB) (TVD)
Total Depth: 4123.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

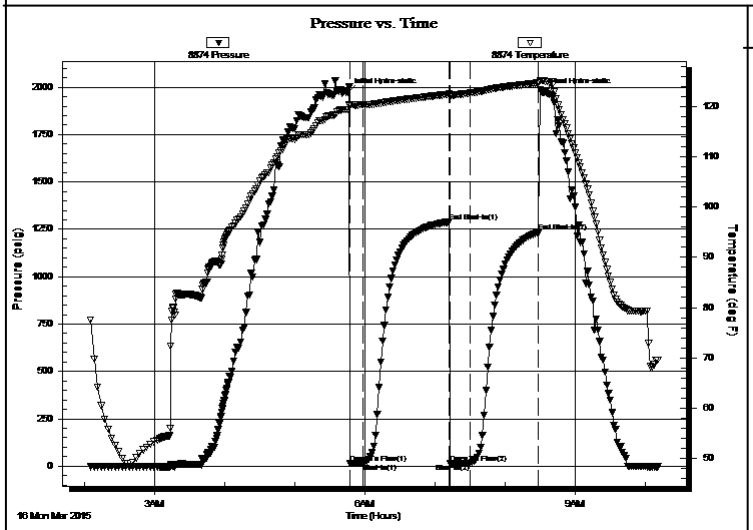
Reference Elevations: 3206.00 ft (KB)
3201.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 15.97 psig @ 4109.00 ft (KB)
Start Date: 2015.03.16 End Date: 2015.03.16
Start Time: 02:05:00 End Time: 10:11:30

Capacity: 8000.00 psig
Last Calib.: 2015.03.16
Time On Btm: 2015.03.16 @ 05:45:00
Time Off Btm: 2015.03.16 @ 08:32:30

TEST COMMENT: 10 - IF- Weak Surface Blow did not build or die.
75 - ISI- No Return
15 - FF- Surface blow died in 15 min.
60 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1971.75	119.40	Initial Hydro-static
2	14.16	120.07	Open To Flow (1)
13	15.99	120.31	Shut-In(1)
87	1288.98	122.45	End Shut-In(1)
88	16.15	122.10	Open To Flow (2)
105	15.97	122.66	Shut-In(2)
164	1234.42	124.64	End Shut-In(2)
168	1970.37	125.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100M	0.01

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: Clayton Camozzi

3-4S-36W Rawlins, KS

Fisher Cattle Co#2-3

Job Ticket: 60897 **DST#: 1**

Test Start: 2015.03.16 @ 02:04:00

GENERAL INFORMATION:

Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:47:00
Time Test Ended: 10:11:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 82

Interval: 4108.00 ft (KB) To 4123.00 ft (KB) (TVD)
Total Depth: 4123.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

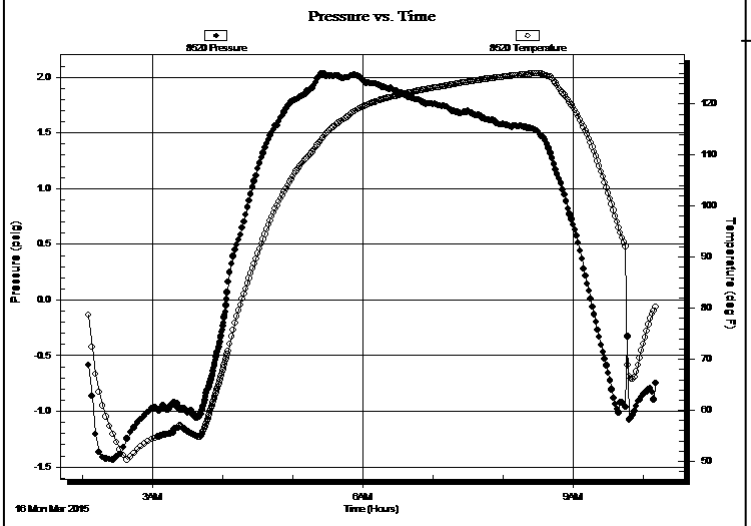
Reference Elevations: 3206.00 ft (KB)
3201.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8520 **Fluid**

Press@RunDepth: psig @ 4075.00 ft (KB)
Start Date: 2015.03.16 End Date: 2015.03.16
Start Time: 02:05:00 End Time: 10:11:30

Capacity: 8000.00 psig
Last Calib.: 2015.03.16
Time On Btm:
Time Off Btm:

TEST COMMENT: 10 - IF- Weak Surface Blow did not build or die.
75 - ISI- No Return
15 - FF- Surface blow died in 15 min.
60 - FSI- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100M	0.01

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: Clayton Camozzi

3-4S-36W Rawlins, KS

Fisher Cattle Co#2-3

Job Ticket: 60897 **DST#: 1**

Test Start: 2015.03.16 @ 02:04:00

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:	5.60 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

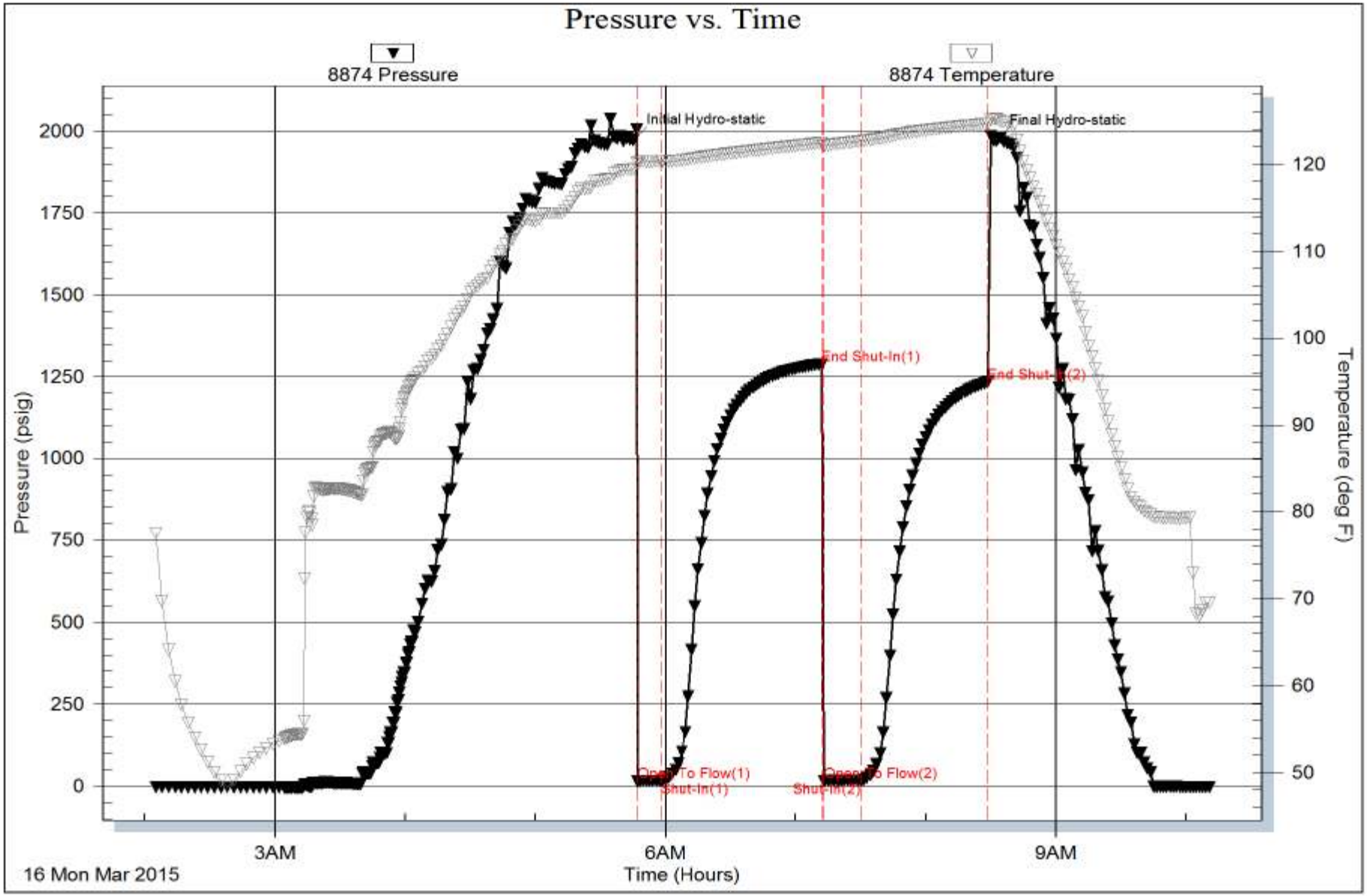
Recovery Table

Length ft	Description	Volume bbl
3.00	Mud 100M	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

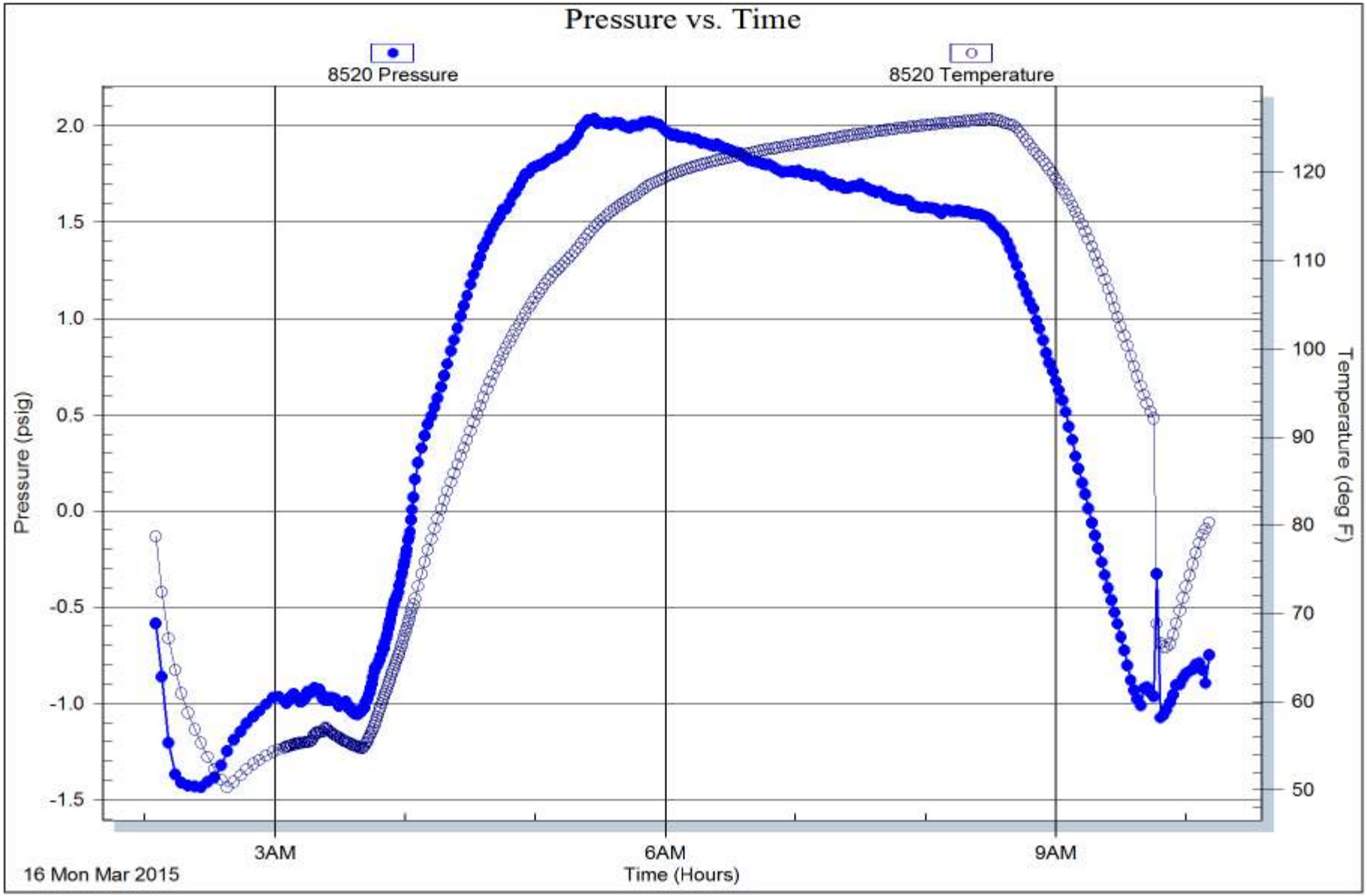
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8874 **Inside** Samuel Gary Jr. & Associates, Inc. Fisher Cattle Co#2-3 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 60897 Printed: 2015.03.16 @ 11:54:15

Serial #: 8520 **Fluid** Samuel Gary Jr. & Associates, Inc. Fisher Cattle Co#2-3 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 60897 Printed: 2015.03.16 @ 11:54:15

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Clayton Camozzi

3-4S-36W Rawlins, KS

Fisher Cattle Co#2-3

Job Ticket: 60898 **DST#: 2**

Test Start: 2015.03.18 @ 03:44:00

GENERAL INFORMATION:

Formation: **Upper Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:22:00
Time Test Ended: 11:09:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 82

Interval: 4465.00 ft (KB) To 4500.00 ft (KB) (TVD)
Total Depth: 4500.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

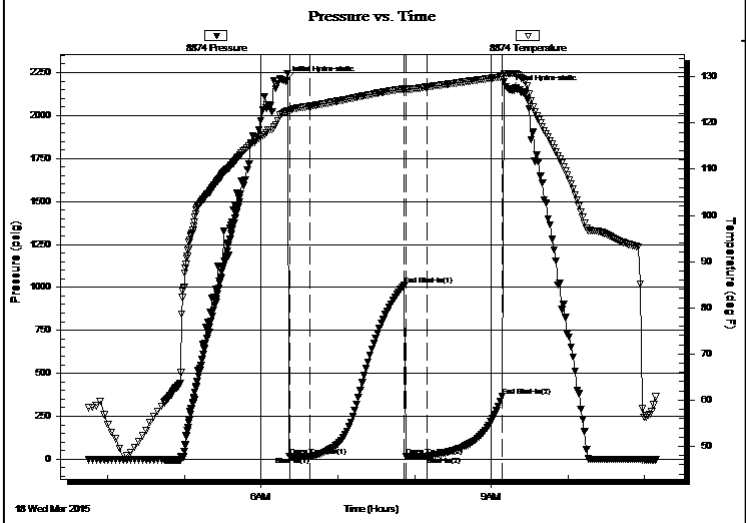
Reference Elevations: 3206.00 ft (KB)
3201.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 17.69 psig @ 4466.00 ft (KB)
Start Date: 2015.03.18 End Date: 2015.03.18
Start Time: 03:45:00 End Time: 11:09:30

Capacity: 8000.00 psig
Last Calib.: 2015.03.18
Time On Btm: 2015.03.18 @ 06:19:30
Time Off Btm: 2015.03.18 @ 09:14:00

TEST COMMENT: 15 - IF- 1/4" Blow built to 1"
75 - ISI- No Return
15 - FF- Weak Suface Blow did not build or die
60 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.90	122.38	Initial Hydro-static
3	16.91	122.76	Open To Flow (1)
19	16.24	123.62	Shut-In(1)
93	1015.82	127.44	End Shut-In(1)
94	16.15	127.19	Open To Flow (2)
110	17.69	127.79	Shut-In(2)
169	364.82	130.02	End Shut-In(2)
175	2153.10	130.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 30o 70M	0.02

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: Clayton Camozzi

3-4S-36W Rawlins, KS

Fisher Cattle Co#2-3

Job Ticket: 60898 **DST#: 2**

Test Start: 2015.03.18 @ 03:44:00

GENERAL INFORMATION:

Formation: **Upper Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:22:00
Time Test Ended: 11:09:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 82

Interval: 4465.00 ft (KB) To 4500.00 ft (KB) (TVD)
Total Depth: 4500.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

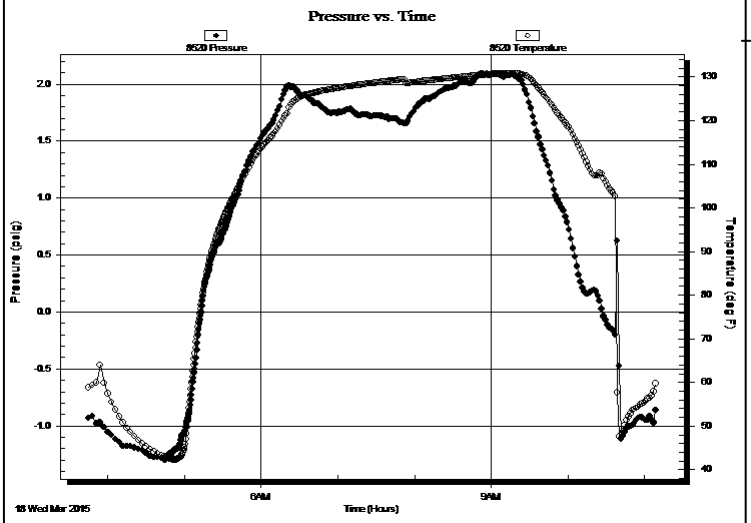
Reference Elevations: 3206.00 ft (KB)
3201.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8520 **Fluid**

Press@RunDepth: psig @ 4432.00 ft (KB)
Start Date: 2015.03.18 End Date: 2015.03.18
Start Time: 03:45:00 End Time: 11:09:30

Capacity: 8000.00 psig
Last Calib.: 2015.03.18
Time On Btm:
Time Off Btm:

TEST COMMENT: 15 - IF- 1/4" Blow built to 1"
75 - ISI- No Return
15 - FF- Weak Suface Blow did not build or die
60 - FSI- No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 30o 70M	0.02

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: Clayton Camozzi

3-4S-36W Rawlins, KS

Fisher Cattle Co#2-3

Job Ticket: 60898 **DST#: 2**

Test Start: 2015.03.18 @ 03:44:00

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:	6.40 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

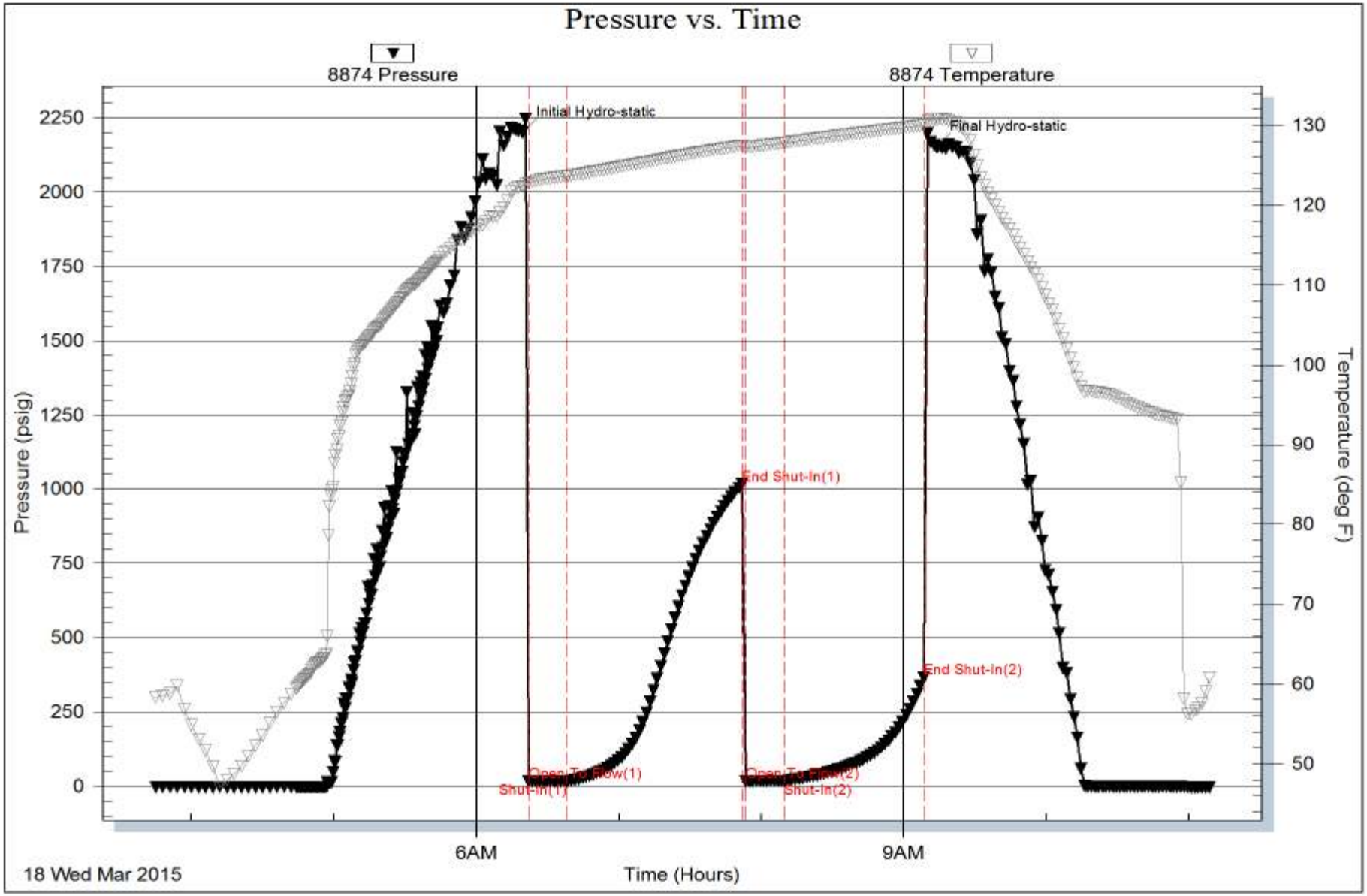
Recovery Table

Length ft	Description	Volume bbl
5.00	OCM 30o 70M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

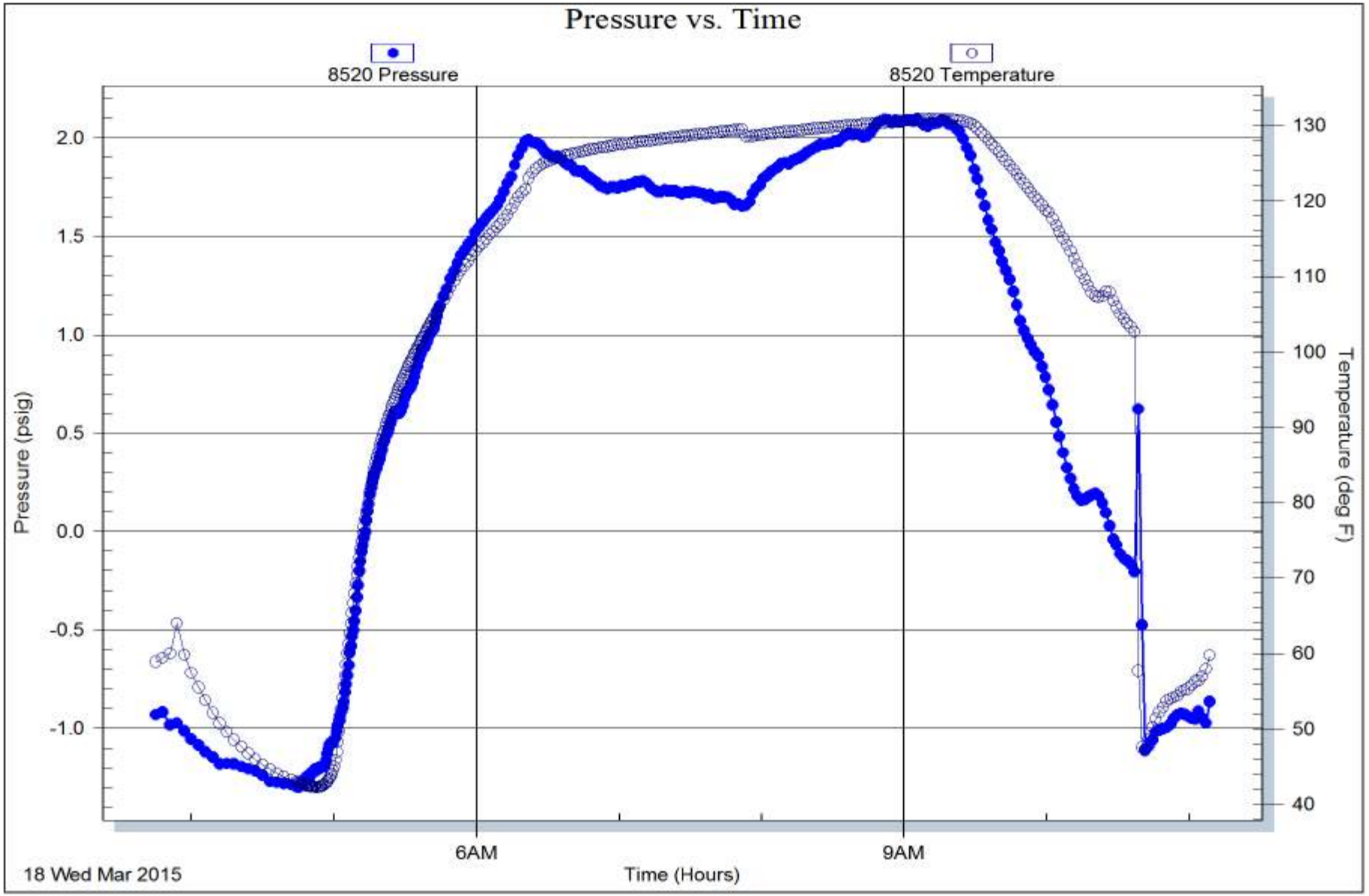
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8874 **Inside** Samuel Gary Jr. & Associates, Inc. Fisher Cattle Co#2-3 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 60898 Printed: 2015.03.18 @ 11:47:29

Serial #: 8520 **Fluid** Samuel Gary Jr. & Associates, Inc. Fisher Cattle Co#2-3 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 60898 Printed: 2015.03.18 @ 11:47:29

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Clayton Camozzi

3-4S-36W Rawlins, KS

Fisher Cattle Co#2-3

Job Ticket: 60899 **DST#: 3**

Test Start: 2015.03.19 @ 02:41:00

GENERAL INFORMATION:

Formation: **Cheorkee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:07:30
Time Test Ended: 11:20:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Donovan Baumann
Unit No: 82

Interval: 4544.00 ft (KB) To 4584.00 ft (KB) (TVD)
Total Depth: 4584.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

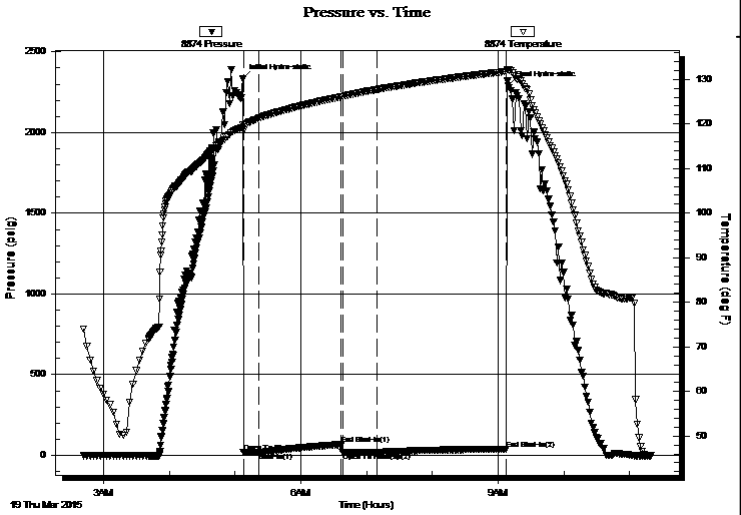
Reference Elevations: 3206.00 ft (KB)
3201.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 20.11 psig @ 4545.00 ft (KB)
Start Date: 2015.03.19 End Date: 2015.03.19
Start Time: 02:42:00 End Time: 11:20:00

Capacity: 8000.00 psig
Last Calib.: 2015.03.19
Time On Btm: 2015.03.19 @ 05:07:00
Time Off Btm: 2015.03.19 @ 09:09:00

TEST COMMENT: 15 - IF - Weak surface blow built to 3/4 in. in 15 min.
75 - ISI - No return
30 - FF - No surface blow
120 - FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2332.28	119.70	Initial Hydro-static
1	16.56	118.60	Open To Flow (1)
15	17.67	121.33	Shut-In(1)
90	66.42	126.11	End Shut-In(1)
91	18.55	126.17	Open To Flow (2)
122	20.11	127.70	Shut-In(2)
240	38.53	131.75	End Shut-In(2)
242	2289.80	132.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100M	0.02

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: Clayton Camozzi

3-4S-36W Rawlins, KS

Fisher Cattle Co#2-3

Job Ticket: 60899 **DST#: 3**

Test Start: 2015.03.19 @ 02:41:00

GENERAL INFORMATION:

Formation: **Cheorkee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:07:30
Time Test Ended: 11:20:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Donovan Baumann
Unit No: 82

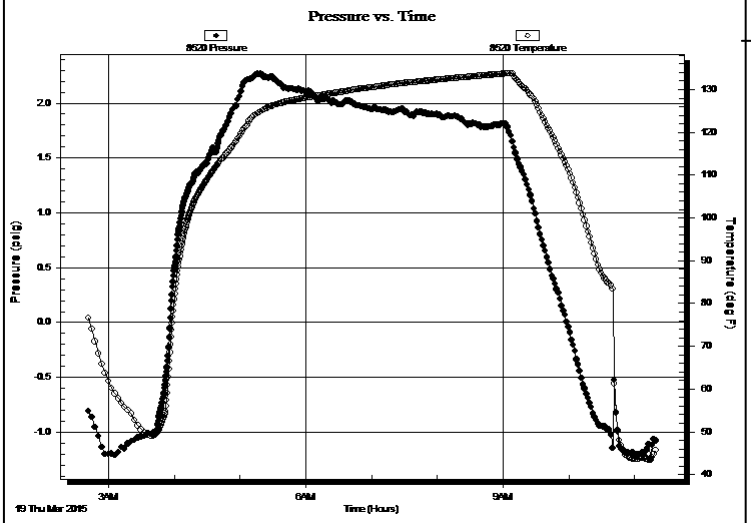
Interval: 4544.00 ft (KB) To 4584.00 ft (KB) (TVD)
Total Depth: 4584.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3206.00 ft (KB)
3201.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8520 **Fluid**
Press@RunDepth: psig @ 4519.00 ft (KB)
Start Date: 2015.03.19 End Date: 2015.03.19
Start Time: 02:42:00 End Time: 11:20:00

Capacity: 8000.00 psig
Last Calib.: 2015.03.19
Time On Btm:
Time Off Btm:

TEST COMMENT: 15 - IF - Weak surface blow built to 3/4 in. in 15 min.
75 - ISI - No return
30 - FF - No surface blow
120 - FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100M	0.02

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: Clayton Camozzi

3-4S-36W Rawlins, KS

Fisher Cattle Co#2-3

Job Ticket: 60899 **DST#: 3**

Test Start: 2015.03.19 @ 02:41:00

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:	7.20 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

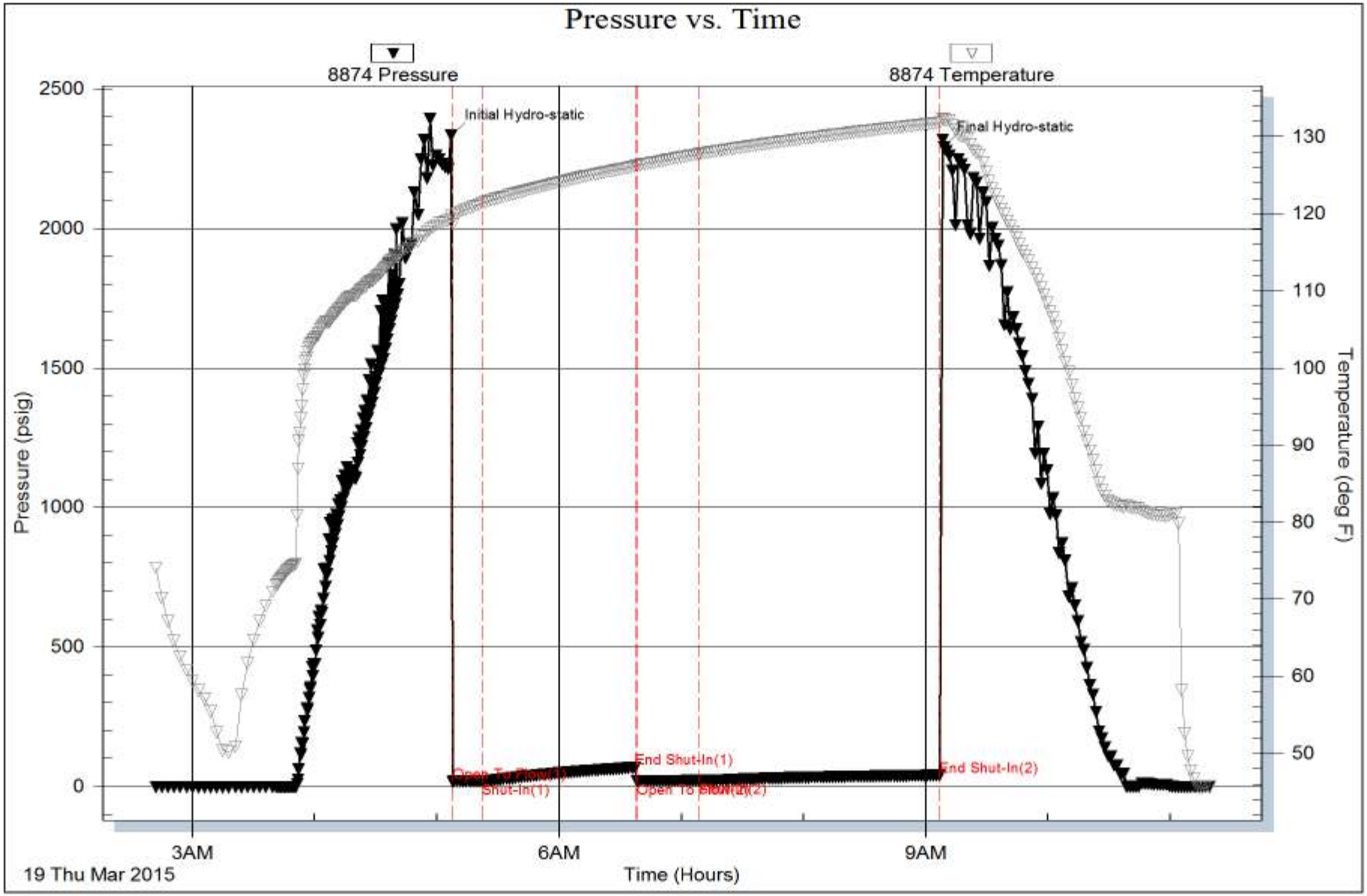
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud - 100M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

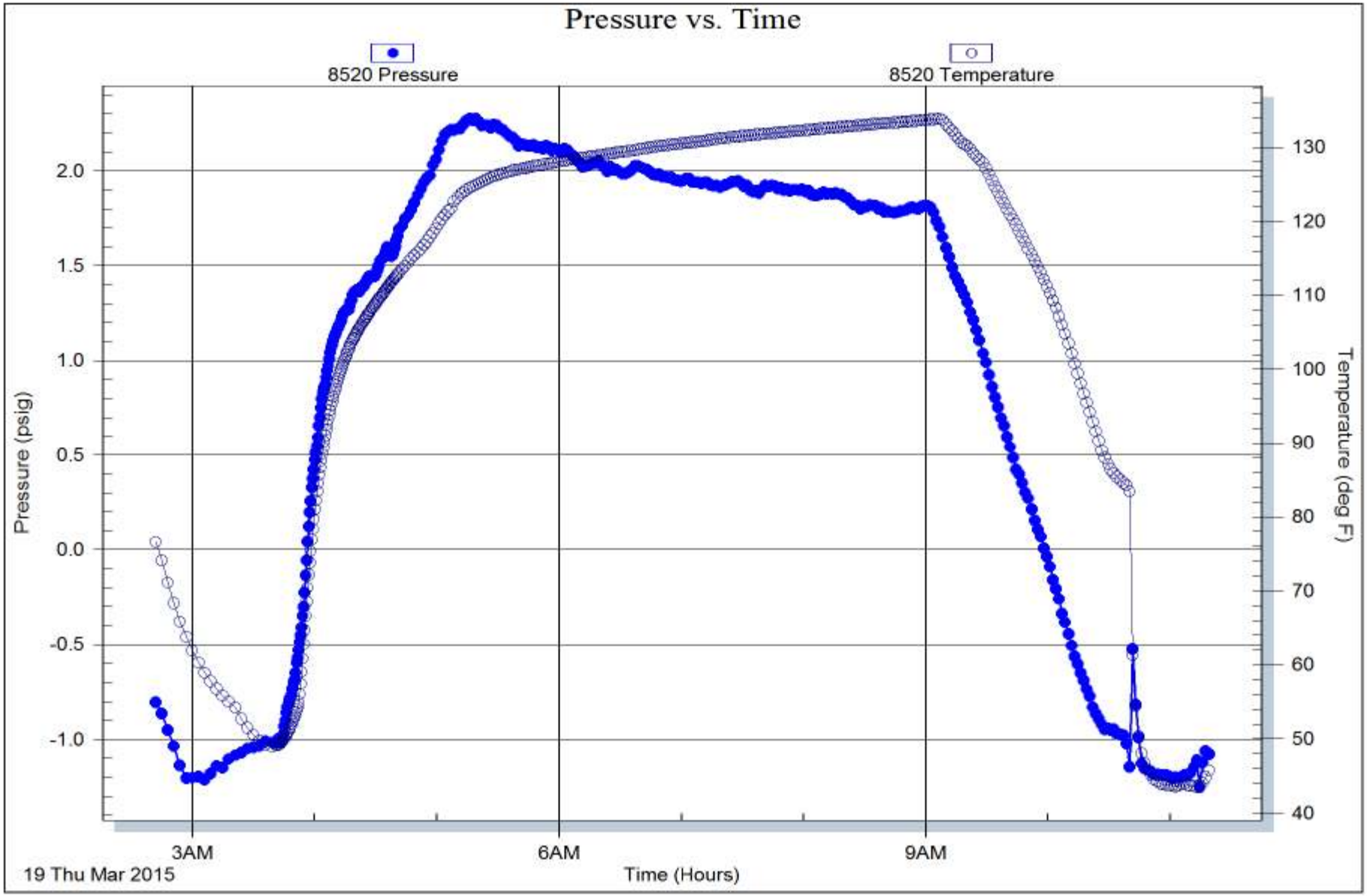
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8874 **Inside** Samuel Gary Jr. & Associates, Inc. Fisher Cattle Co#2-3 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 60899 Printed: 2015.03.19 @ 12:00:35

Serial #: 8520 **Fluid** Samuel Gary Jr. & Associates, Inc. Fisher Cattle Co#2-3 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 60899 Printed: 2015.03.19 @ 12:00:36

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

Well Name:	FISHER CATTLE 2-3		
Well Id:			
Location:	Sec 3 T4S R36W Rawlins County, Kansas		
License Number:	15-153-21116-0000	Region:	Wildcat
Spud Date:	March 11, 2015	Drilling Completed:	March 19, 2015
Surface Coordinates:	1975' FSL & 2210 FEL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	3194'	K.B. Elevation (ft):	3199'
Logged Interval (ft):	3850' To: 4680'	Total Depth (ft):	4680'
Formation:	Lansing, Arbuckle		
Type of Drilling Fluid:	Natural Chemical		

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

OPERATOR

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

GEOLOGIST

Name: Tim Hedrick / Schuyler Hedrick
Company: Earth Tech OGL, Inc
Address: PO Box 683
Hooker, Okla. 73945
1-888-543-8378 Cell 580-754-0062

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Clayton Camozzi

3-4S-36W Rawlins, KS

Fisher Cattle Co#2-3

Job Ticket: 60897 **DST#: 1**

Test Start: 2015.03.16 @ 02:04:00

GENERAL INFORMATION:

Formation: **LKC "A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:47:00
Time Test Ended: 10:11:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 82

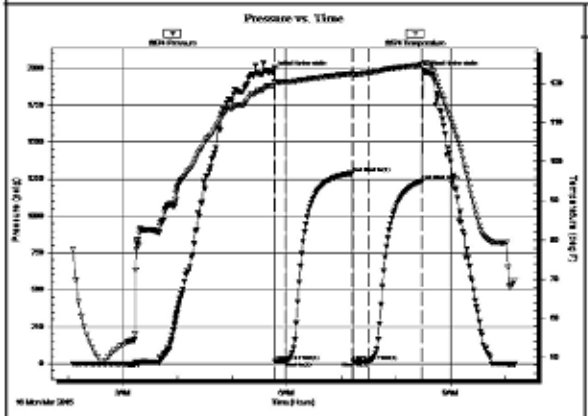
Interval: 4108.00 ft (KB) To 4123.00 ft (KB) (TVD)
Total Depth: 4123.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3206.00 ft (KB)
3201.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8874 **Inside**
Press@RunDepth: 15.97 psig @ 4109.00 ft (KB)
Start Date: 2015.03.16 End Date: 2015.03.16
Start Time: 02:05:00 End Time: 10:11:30

Capacity: 8000.00 psig
Last Calib.: 2015.03.16
Time On Btm: 2015.03.16 @ 05:45:00
Time Off Btm: 2015.03.16 @ 08:32:30

TEST COMMENT: 10 - IF- Weak Surface Blow did not build or die.
75 - ISI- No Return
15 - FF- Surface blow died in 15 min.
60 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1971.75	119.40	Initial Hydro-static
2	14.16	120.07	Open To Flow (1)
13	15.99	120.31	Shut-In(1)
87	1288.98	122.45	End Shut-In(1)
88	16.15	122.10	Open To Flow (2)
105	15.97	122.66	Shut-In(2)
164	1234.42	124.64	End Shut-In(2)
168	1970.37	125.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Mud 100M	0.01

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: Clayton Camozzi

3-4S-36W Rawlins, KS

Fisher Cattle Co#2-3

Job Ticket: 60898 **DST#: 2**

Test Start: 2015.03.18 @ 03:44:00

GENERAL INFORMATION:

Formation: **Upper Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:22:00
Time Test Ended: 11:09:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 82

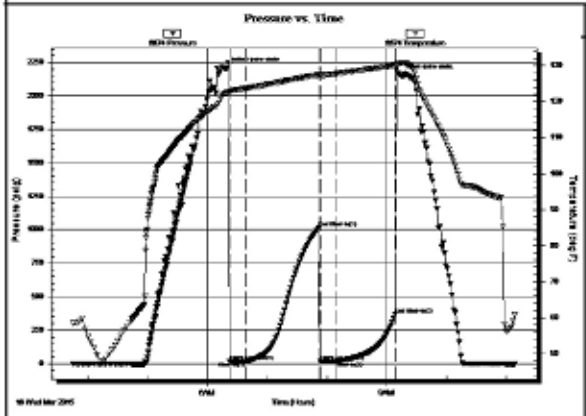
Interval: 4465.00 ft (KB) To 4500.00 ft (KB) (TVD)
Total Depth: 4500.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3206.00 ft (KB)
3201.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8874 **Inside**
Press@RunDepth: 17.69 psig @ 4466.00 ft (KB)
Start Date: 2015.03.18 End Date: 2015.03.18
Start Time: 03:45:00 End Time: 11:09:30

Capacity: 8000.00 psig
Last Calib.: 2015.03.18
Time On Btm: 2015.03.18 @ 06:19:30
Time Off Btm: 2015.03.18 @ 09:14:00

TEST COMMENT: 15 - IF- 1/4" Blow built to 1"
75 - ISI- No Return
15 - FF- Weak Suface Blow did not build or die
60 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.90	122.38	Initial Hydro-static
3	16.91	122.76	Open To Flow (1)
19	16.24	123.62	Shut-In(1)
93	1015.82	127.44	End Shut-In(1)
94	16.15	127.19	Open To Flow (2)
110	17.69	127.79	Shut-In(2)
169	364.82	130.02	End Shut-In(2)
175	2153.10	130.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OCM 30o 70M	0.02

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Samuel Gary Jr. & Associates, Inc.

1515 Wynkoop STE #700
Denver, CO 80202

ATTN: Clayton Camozzi

3-4S-36W Rawlins, KS

Fisher Cattle Co#2-3

Job Ticket: 60899 **DST#: 3**

Test Start: 2015.03.19 @ 02:41:00

GENERAL INFORMATION:

Formation: **Cheorkee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:07:30
Time Test Ended: 11:20:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Donovan Baumann
Unit No: 82

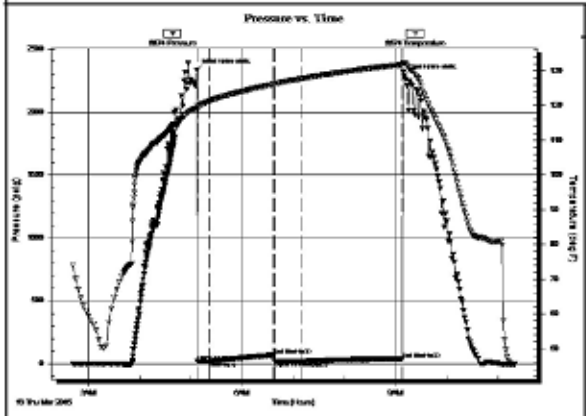
Interval: 4544.00 ft (KB) To 4584.00 ft (KB) (TVD)
Total Depth: 4584.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3206.00 ft (KB)
3201.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8874 **Inside**
Press@RunDepth: 20.11 psig @ 4545.00 ft (KB)
Start Date: 2015.03.19 End Date: 2015.03.19
Start Time: 02:42:00 End Time: 11:20:00

Capacity: 8000.00 psig
Last Calib.: 2015.03.19
Time On Btm: 2015.03.19 @ 05:07:00
Time Off Btm: 2015.03.19 @ 09:09:00

TEST COMMENT: 15 - IF - Weak surface blow built to 3/4 in. in 15 min.
75 - ISI - No return
30 - FF - No surface blow
120 - FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2332.28	119.70	Initial Hydro-static
1	16.56	118.60	Open To Flow (1)
15	17.67	121.33	Shut-In(1)
90	66.42	126.11	End Shut-In(1)
91	18.55	126.17	Open To Flow (2)
122	20.11	127.70	Shut-In(2)
240	38.53	131.75	End Shut-In(2)
242	2289.80	132.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud - 100M	0.02

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

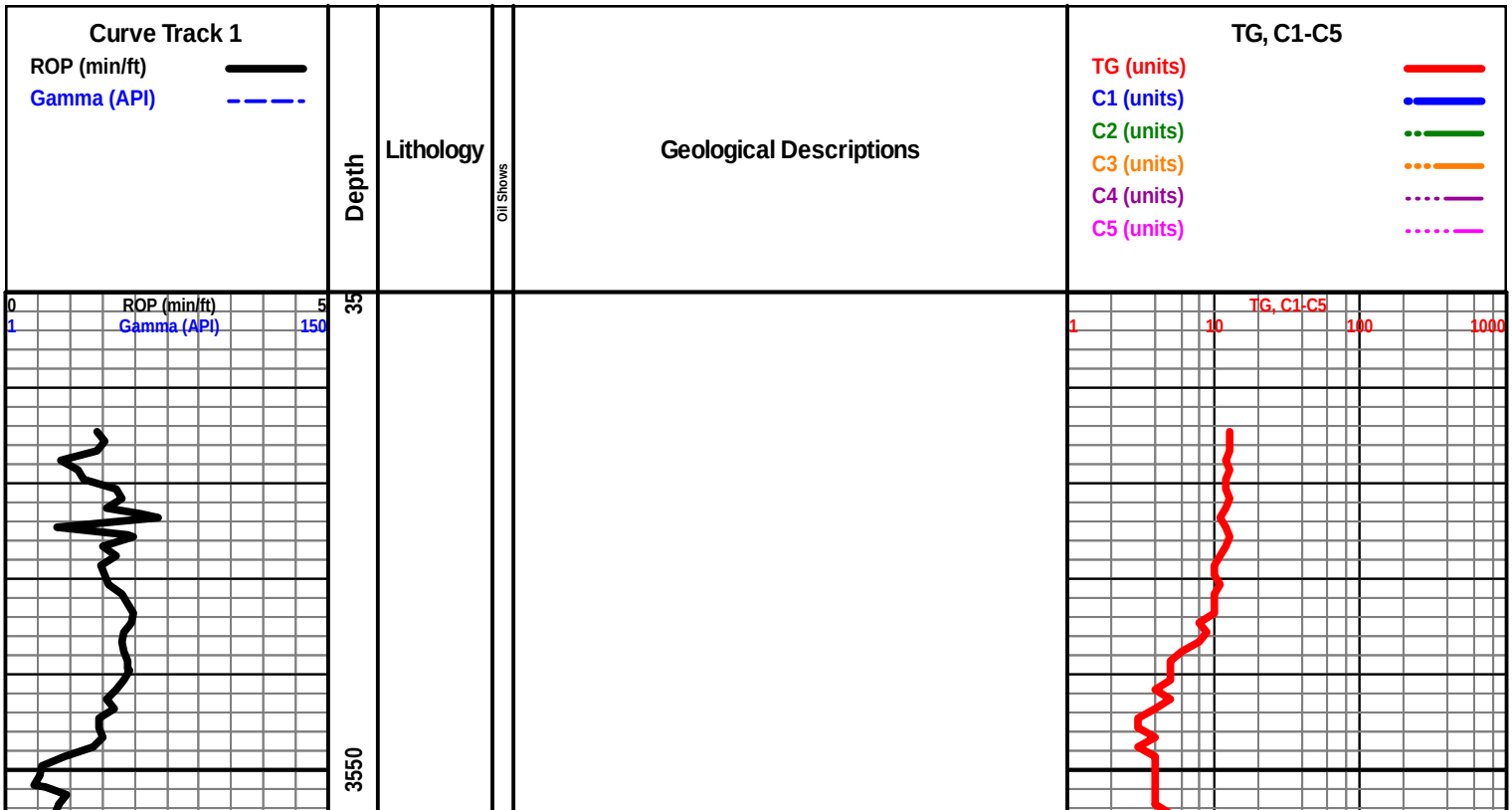
EVENTS
- Rft
- Sidewall

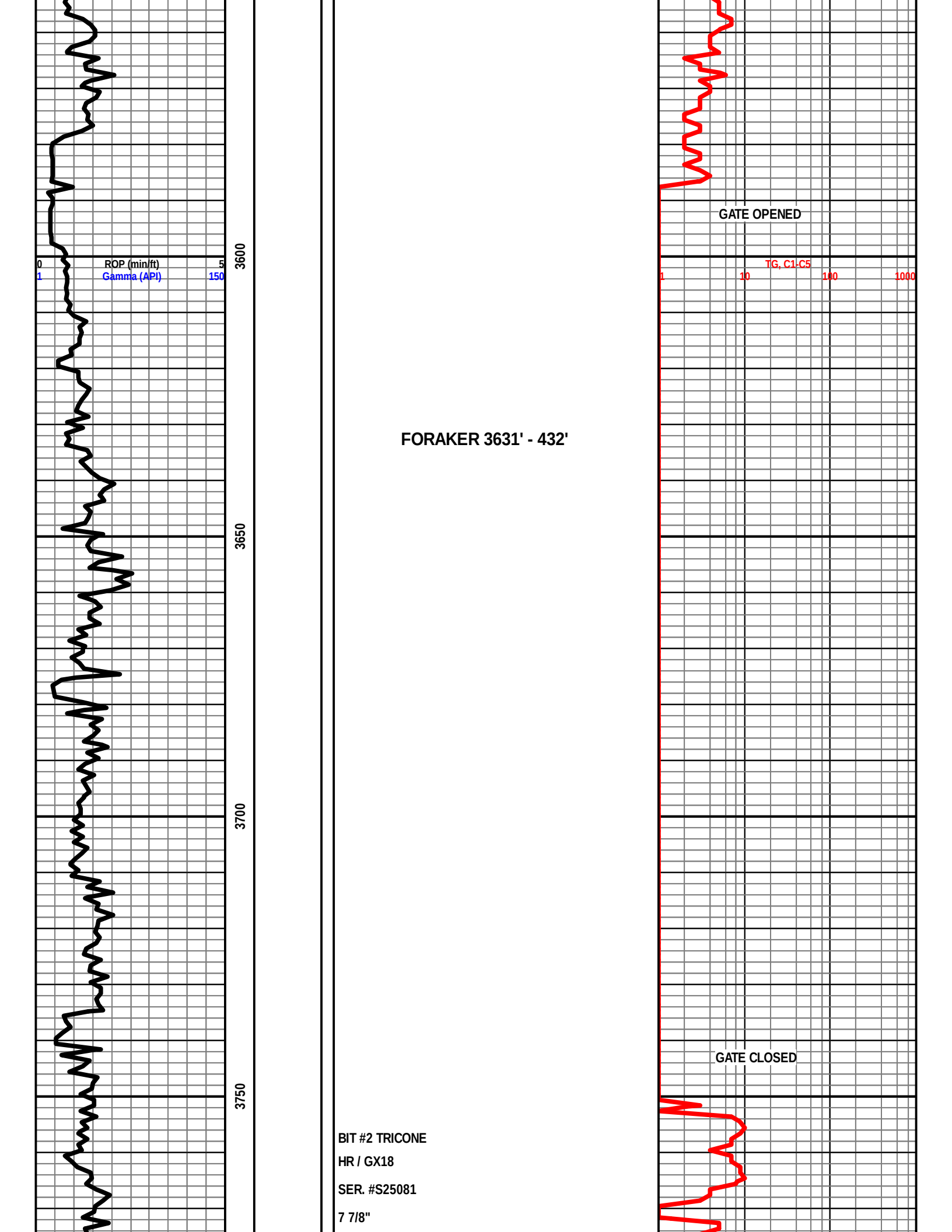
POROSITY TYPE
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

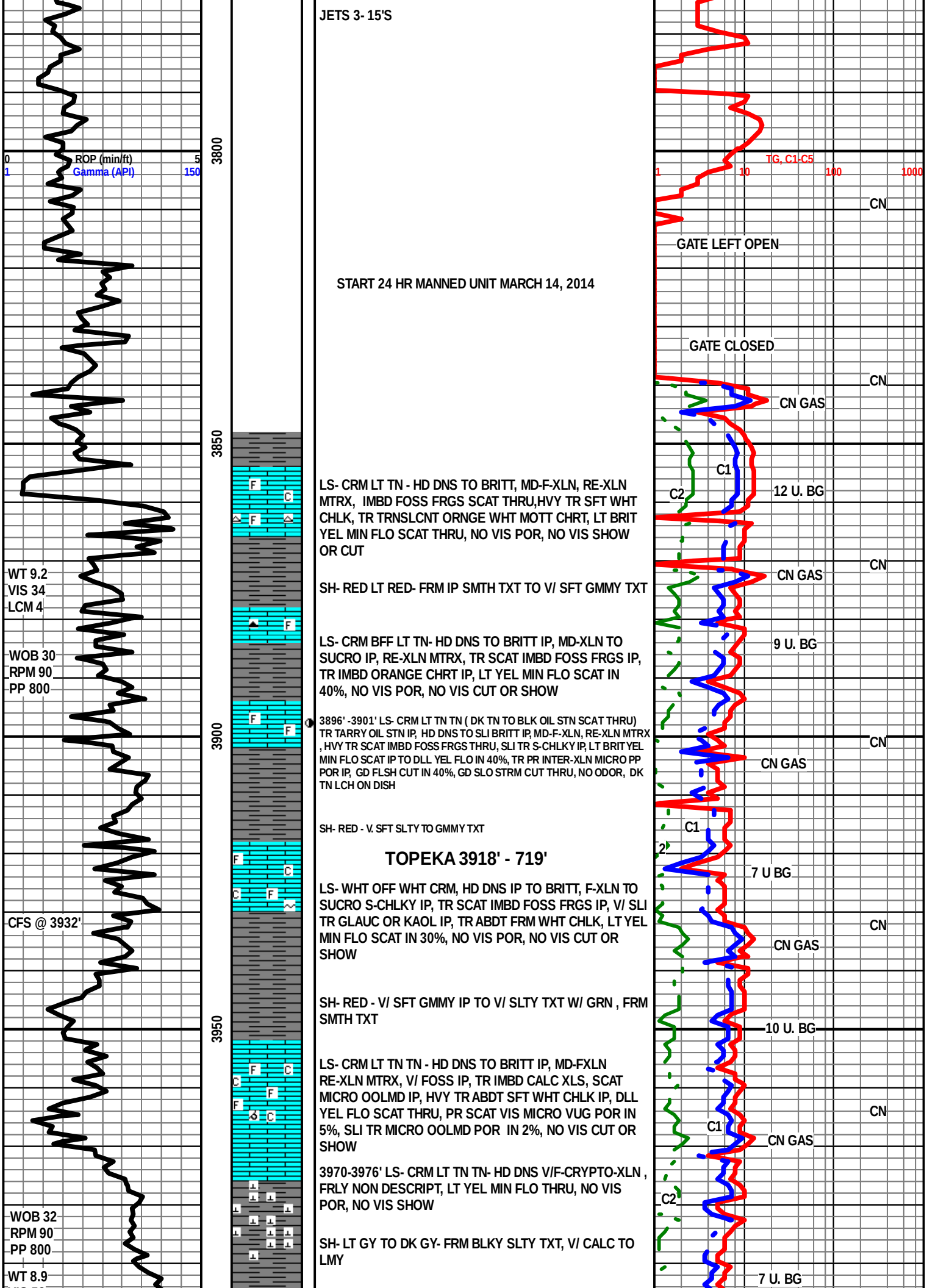
SORTING
- Well
- Moderate
- Poor

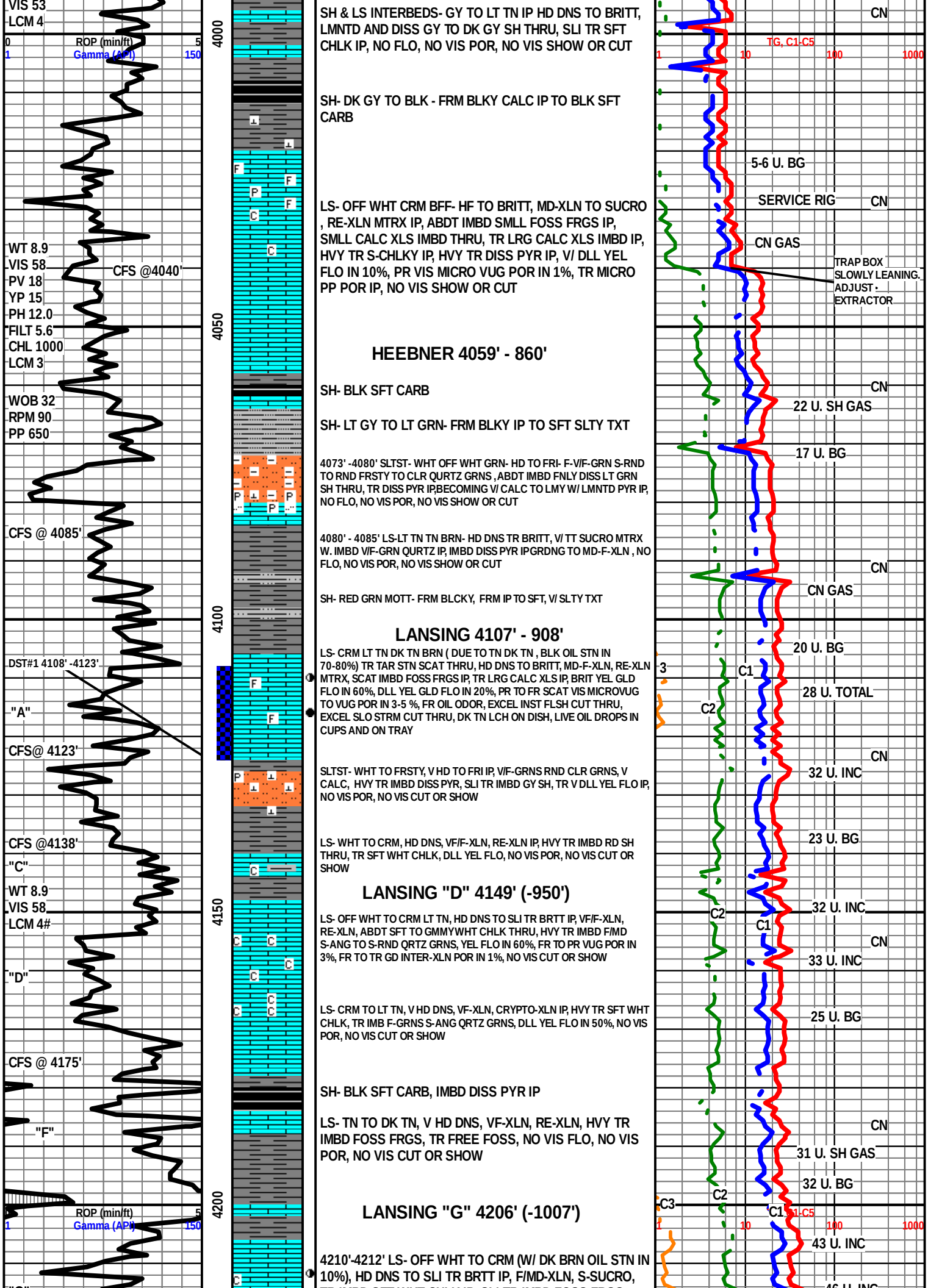
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

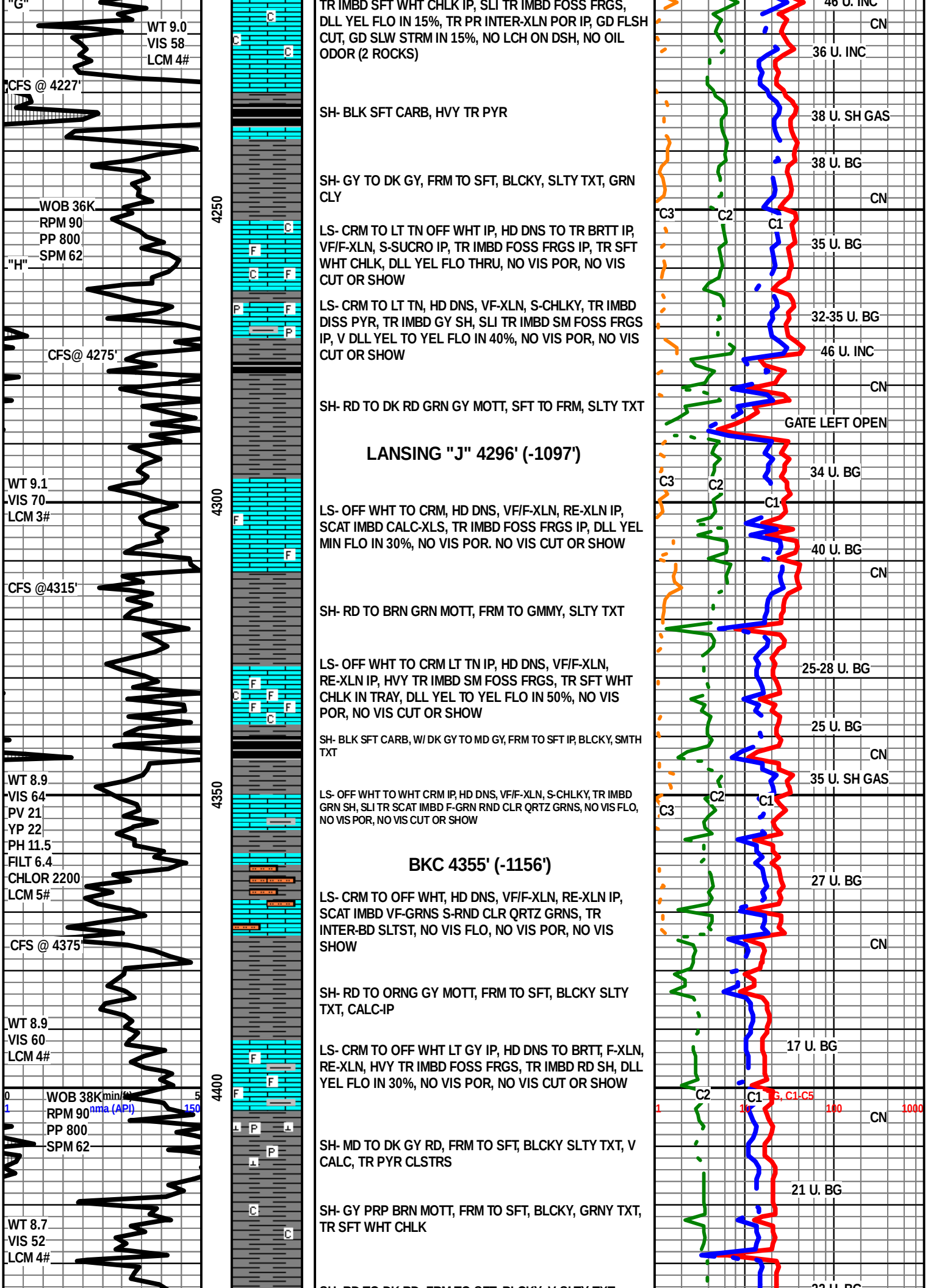
OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

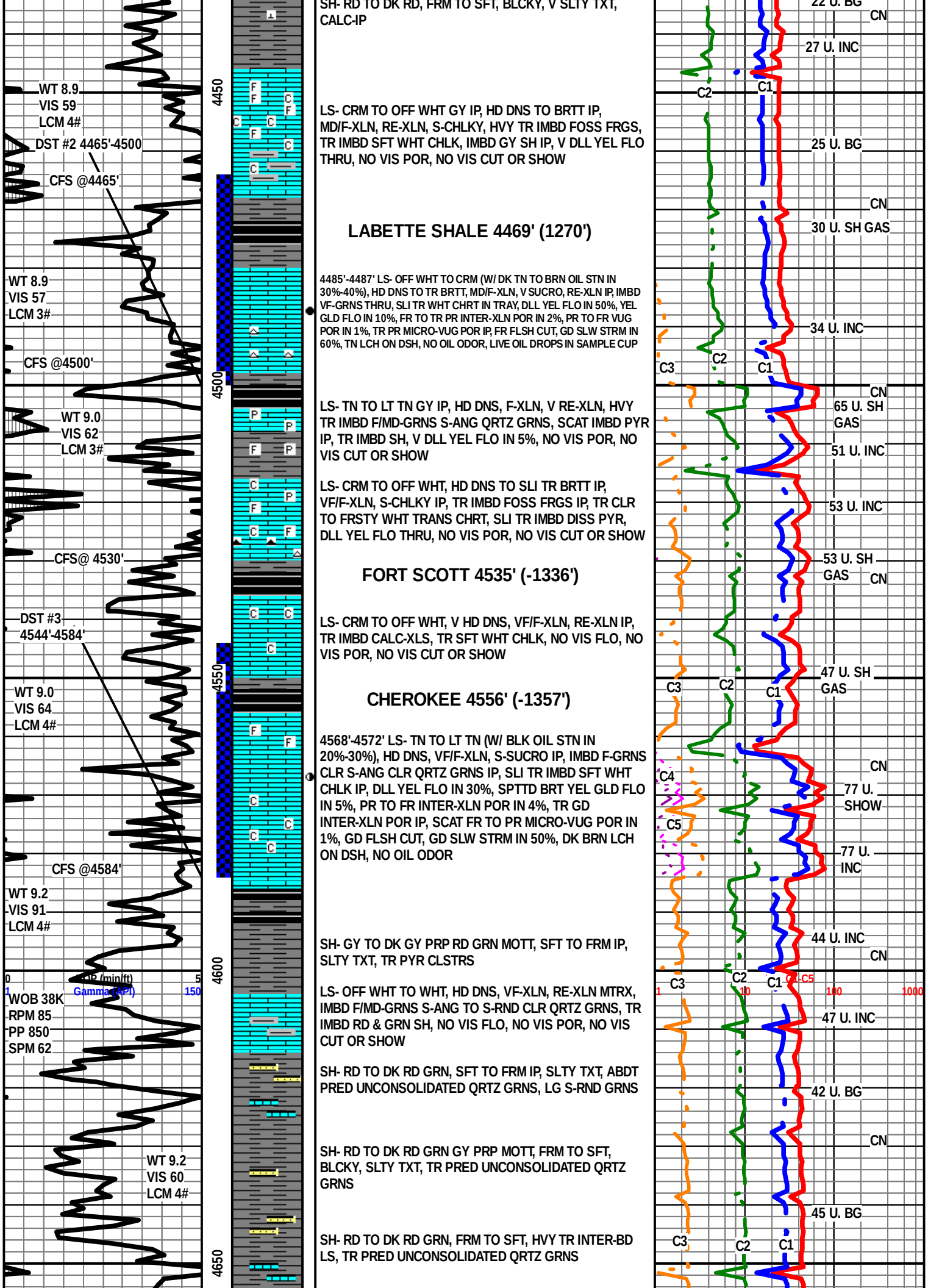


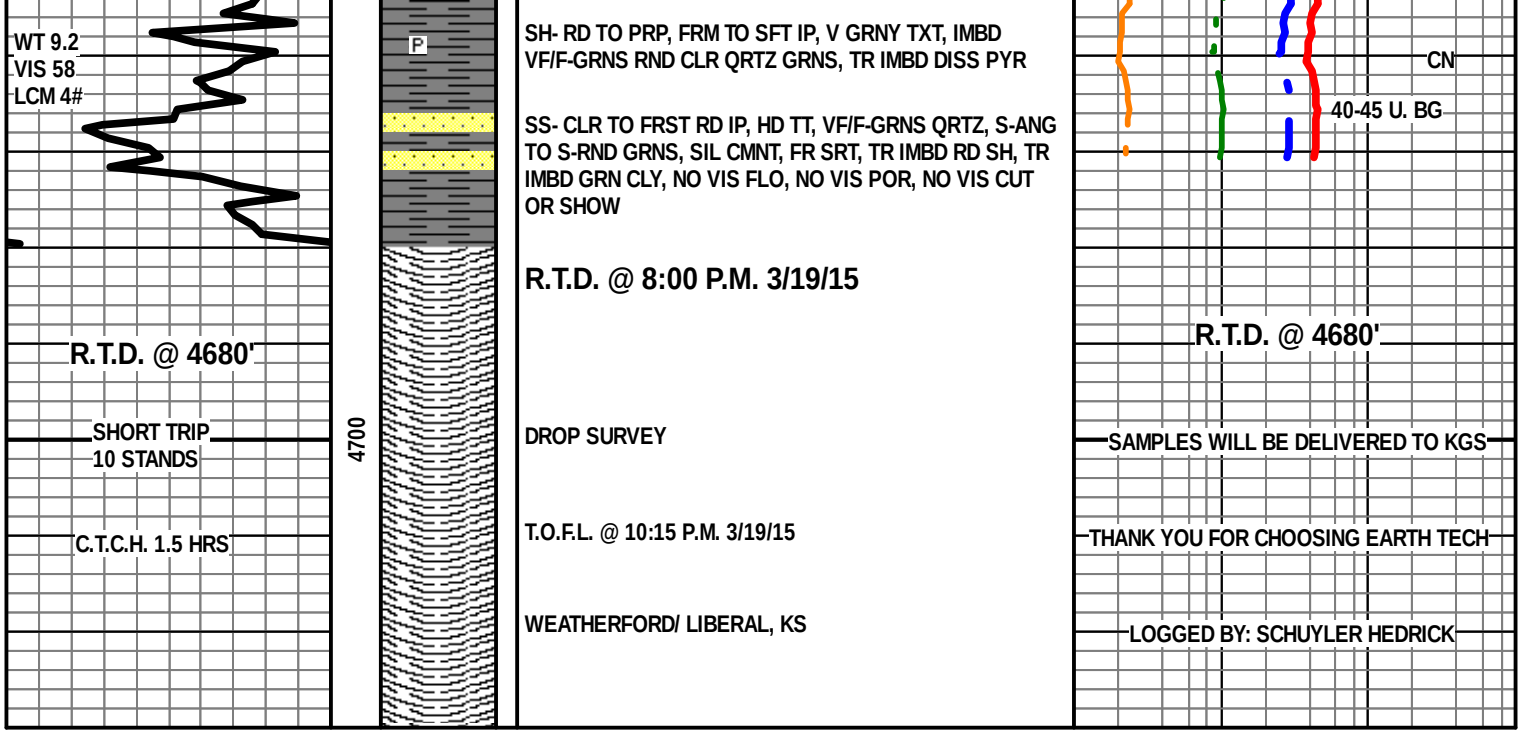

0
ROP (min/ft)
5
1
Gamma (API)
150
3600
3650
3700
3750
FORAKER 3631' - 432'
GATE OPENED
TG, C1-C5
1
10
100
1000
GATE CLOSED
BIT #2 TRICONE
HR / GX18
SER. #S25081
7 7/8"


0
ROP (min/ft)
5
1
Gamma (API)
150
3800
3850
3900
3950
JETS 3- 15'S
TG, C1-C5
1
10
100
1000
CN
GATE LEFT OPEN
START 24 HR MANNED UNIT MARCH 14, 2014
GATE CLOSED
CN
CN GAS
C1
C2
12 U. BG
LS- CRM LT TN - HD DNS TO BRITT, MD-F-XLN, RE-XLN MTRX, IMBD FOSS FRGS SCAT THRU,HVY TR SFT WHT CHLK, TR TRNSLCNT ORNGE WHT MOTT CHRT, LT BRIT YEL MIN FLO SCAT THRU, NO VIS POR, NO VIS SHOW OR CUT
WT 9.2
VIS 34
LCM 4
SH- RED LT RED- FRM IP SMTH TXT TO V/ SFT GMMY TXT
CN GAS
9 U. BG
WOB 30
RPM 90
PP 800
LS- CRM BFF LT TN- HD DNS TO BRITT IP, MD-XLN TO SUCRO IP, RE-XLN MTRX, TR SCAT IMBD FOSS FRGS IP, TR IMBD ORANGE CHRT IP, LT YEL MIN FLO SCAT IN 40%, NO VIS POR, NO VIS CUT OR SHOW
3896' -3901' LS- CRM LT TN TN (DK TN TO BLK OIL STN SCAT THRU) TR TARRY OIL STN IP, HD DNS TO SLI BRITT IP, MD-F-XLN, RE-XLN MTRX , HVY TR SCAT IMBD FOSS FRGS THRU, SLI TR S-CHLKY IP, LT BRIT YEL MIN FLO SCAT IP TO DLL YEL FLO IN 40%, TR PR INTER-XLN MICRO PP POR IP, GD FLSH CUT IN 40%, GD SLO STRM CUT THRU, NO ODOR, DK TN LCH ON DISH
CN GAS
SH- RED - V. SFT SLTY TO GMMY TXT
C1
2'
TOPEKA 3918' - 719'
7 U BG
LS- WHT OFF WHT CRM, HD DNS IP TO BRITT, F-XLN TO SUCRO S-CHLKY IP, TR SCAT IMBD FOSS FRGS IP, V/ SLI TR GLAUC OR KAOL IP, TR ABDT FRM WHT CHLK, LT YEL MIN FLO SCAT IN 30%, NO VIS POR, NO VIS CUT OR SHOW
CFS @ 3932'
CN GAS
SH- RED - V/ SFT GMMY IP TO V/ SLTY TXT W/ GRN , FRM SMTH TXT
10 U. BG
LS- CRM LT TN TN - HD DNS TO BRITT IP, MD-FXLN RE-XLN MTRX, V/ FOSS IP, TR IMBD CALC XLS, SCAT MICRO OOLMD IP, HVY TR ABDT SFT WHT CHLK IP, DLL YEL FLO SCAT THRU, PR SCAT VIS MICRO VUG POR IN 5%, SLI TR MICRO OOLMD POR IN 2%, NO VIS CUT OR SHOW
C1
CN GAS
3970-3976' LS- CRM LT TN TN- HD DNS V/F-CRYPTO-XLN , FRLY NON DESCRIPT, LT YEL MIN FLO THRU, NO VIS POR, NO VIS SHOW
C2
WOB 32
RPM 90
PP 800
SH- LT GY TO DK GY- FRM BLKY SLTY TXT, V/ CALC TO LMY
WT 8.9
7 U. BG


VIS 53
LCM 4
0
ROP (min/ft)
5
1
Gamma (API)
150
WT 8.9
VIS 58
PV 18
YP 15
PH 12.0
FILT 5.6
CHL 1000
LCM 3
WOB 32
RPM 90
PP 650
CFS @4040'
CFS @ 4085'
DST#1 4108' -4123'
"A"
CFS@ 4123'
CFS @4138'
"C"
WT 8.9
VIS 58
LCM 4#
"D"
CFS @ 4175'
"F"
ROP (min/ft)
5
1
Gamma (API)
150
4000
4050
4100
4150
4200
SH & LS INTERBEDS- GY TO LT TN IP HD DNS TO BRITT, LMNTD AND DISS GY TO DK GY SH THRU, SLI TR SFT CHLK IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT
SH- DK GY TO BLK - FRM BLKY CALC IP TO BLK SFT CARB
LS- OFF WHT CRM BFF- HF TO BRITT, MD-XLN TO SUCRO , RE-XLN MTRX IP, ABDT IMBD SMLL FOSS FRGS IP, SMLL CALC XLS IMBD THRU, TR LRG CALC XLS IMBD IP, HVY TR S-CHLKY IP, HVY TR DISS PYR IP, V/ DLL YEL FLO IN 10%, PR VIS MICRO VUG POR IN 1%, TR MICRO PP POR IP, NO VIS SHOW OR CUT
HEEBNER 4059' - 860'
SH- BLK SFT CARB
SH- LT GY TO LT GRN- FRM BLKY IP TO SFT SLTY TXT
4073' -4080' SLTST- WHT OFF WHT GRN- HD TO FRI- F-V/F-GRN S-RND TO RND FRSTY TO CLR QURTZ GRNS , ABDT IMBD FNLY DISS LT GRN SH THRU, TR DISS PYR IP,BECOMING V/ CALC TO LMY W/ LMNTD PYR IP, NO FLO, NO VIS POR, NO VIS SHOW OR CUT
4080' - 4085' LS-LT TN TN BRN- HD DNS TR BRITT, V/ TT SUCRO MTRX W. IMBD V/F-GRN QURTZ IP, IMBD DISS PYR IPGRDNG TO MD-F-XLN , NO FLO, NO VIS POR, NO VIS SHOW OR CUT
SH- RED GRN MOTT- FRM BLCKY, FRM IP TO SFT, V/ SLTY TXT
LANSING 4107' - 908'
LS- CRM LT TN DK TN BRN (DUE TO TN DK TN , BLK OIL STN IN 70-80%) TR TAR STN SCAT THRU, HD DNS TO BRITT, MD-F-XLN, RE-XLN MTRX, SCAT IMBD FOSS FRGS IP, TR LRG CALC XLS IP, BRIT YEL GLD FLO IN 60%, DLL YEL GLD FLO IN 20%, PR TO FR SCAT VIS MICROVUG TO VUG POR IN 3-5 %, FR OIL ODOR, EXCEL INST FLSH CUT THRU, EXCEL SLO STRM CUT THRU, DK TN LCH ON DISH, LIVE OIL DROPS IN CUPS AND ON TRAY
SLTST- WHT TO FRSTY, V HD TO FRI IP, V/F-GRNS RND CLR GRNS, V CALC, HVY TR IMBD DISS PYR, SLI TR IMBD GY SH, TR V DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW
LS- WHT TO CRM, HD DNS, VF/F-XLN, RE-XLN IP, HVY TR IMBD RD SH THRU, TR SFT WHT CHLK, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW
LANSING "D" 4149' (-950')
LS- OFF WHT TO CRM LT TN, HD DNS TO SLI TR BRTT IP, VF/F-XLN, RE-XLN, ABDT SFT TO GMMYWHT CHLK THRU, HVY TR IMBD F/MD S-ANG TO S-RND QRTZ GRNS, YEL FLO IN 60%, FR TO PR VUG POR IN 3%, FR TO TR GD INTER-XLN POR IN 1%, NO VIS CUT OR SHOW
LS- CRM TO LT TN, V HD DNS, VF-XLN, CRYPTO-XLN IP, HVY TR SFT WHT CHLK, TR IMB F-GRNS S-ANG QRTZ GRNS, DLL YEL FLO IN 50%, NO VIS POR, NO VIS CUT OR SHOW
SH- BLK SFT CARB, IMBD DISS PYR IP
LS- TN TO DK TN, V HD DNS, VF-XLN, RE-XLN, HVY TR IMBD FOSS FRGS, TR FREE FOSS, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
LANSING "G" 4206' (-1007')
4210'-4212' LS- OFF WHT TO CRM (W/ DK BRN OIL STN IN 10%), HD DNS TO SLI TR BRTT IP, F/MD-XLN, S-SUCRO,
CN
TG, C1-C5
1
10
100
1000
5-6 U. BG
SERVICE RIG
CN
CN GAS
TRAP BOX SLOWLY LEANING. ADJUST EXTRACTOR
CN
22 U. SH GAS
17 U. BG
CN
CN GAS
20 U. BG
3
C1
28 U. TOTAL
C2
CN
32 U. INC
23 U. BG
C2
32 U. INC
C1
CN
33 U. INC
25 U. BG
CN
31 U. SH GAS
32 U. BG
C2
C3
C1
C1-C5
1
10
100
1000
43 U. INC


"G"
WT 9.0
VIS 58
LCM 4#
CFS @ 4227'
WOB 36K
RPM 90
PP 800
SPM 62
"H"
CFS@ 4275'
WT 9.1
VIS 70
LCM 3#
CFS @4315'
WT 8.9
VIS 64
PV 21
YP 22
PH 11.5
FILT 6.4
CHLOR 2200
LCM 5#
CFS @ 4375'
WT 8.9
VIS 60
LCM 4#
WOB 38K
RPM 90
PP 800
SPM 62
WT 8.7
VIS 52
LCM 4#
4250
4300
4350
4400
TR IMBD SFT WHT CHLK IP, SLI TR IMBD FOSS FRGS, DLL YEL FLO IN 15%, TR PR INTER-XLN POR IP, GD FLSH CUT, GD SLW STRM IN 15%, NO LCH ON DSH, NO OIL ODOR (2 ROCKS)
SH- BLK SFT CARB, HVY TR PYR
SH- GY TO DK GY, FRM TO SFT, BLCKY, SLTY TXT, GRN CLY
LS- CRM TO LT TN OFF WHT IP, HD DNS TO TR BRTT IP, VF/F-XLN, S-SUCRO IP, TR IMBD FOSS FRGS IP, TR SFT WHT CHLK, DLL YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW
LS- CRM TO LT TN, HD DNS, VF-XLN, S-CHLKY, TR IMBD DISS PYR, TR IMBD GY SH, SLI TR IMBD SM FOSS FRGS IP, V DLL YEL TO YEL FLO IN 40%, NO VIS POR, NO VIS CUT OR SHOW
SH- RD TO DK RD GRN GY MOTT, SFT TO FRM, SLTY TXT
LANSING "J" 4296' (-1097')
LS- OFF WHT TO CRM, HD DNS, VF/F-XLN, RE-XLN IP, SCAT IMBD CALC-XLS, TR IMBD FOSS FRGS IP, DLL YEL MIN FLO IN 30%, NO VIS POR. NO VIS CUT OR SHOW
SH- RD TO BRN GRN MOTT, FRM TO GMMY, SLTY TXT
LS- OFF WHT TO CRM LT TN IP, HD DNS, VF/F-XLN, RE-XLN IP, HVY TR IMBD SM FOSS FRGS, TR SFT WHT CHLK IN TRAY, DLL YEL TO YEL FLO IN 50%, NO VIS POR, NO VIS CUT OR SHOW
SH- BLK SFT CARB, W/ DK GY TO MD GY, FRM TO SFT IP, BLCKY, SMTH TXT
LS- OFF WHT TO WHT CRM IP, HD DNS, VF/F-XLN, S-CHLKY, TR IMBD GRN SH, SLI TR SCAT IMBD F-GRN RND CLR QRTZ GRNS, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
BKC 4355' (-1156')
LS- CRM TO OFF WHT, HD DNS, VF/F-XLN, RE-XLN IP, SCAT IMBD VF-GRNS S-RND CLR QRTZ GRNS, TR INTER-BD SLTST, NO VIS FLO, NO VIS POR, NO VIS SHOW
SH- RD TO ORNG GY MOTT, FRM TO SFT, BLCKY SLTY TXT, CALC-IP
LS- CRM TO OFF WHT LT GY IP, HD DNS TO BRTT, F-XLN, RE-XLN, HVY TR IMBD FOSS FRGS, TR IMBD RD SH, DLL YEL FLO IN 30%, NO VIS POR, NO VIS CUT OR SHOW
SH- MD TO DK GY RD, FRM TO SFT, BLCKY SLTY TXT, V CALC, TR PYR CLSTRS
SH- GY PRP BRN MOTT, FRM TO SFT, BLCKY, GRNY TXT, TR SFT WHT CHLK
46 U. INC
CN
36 U. INC
38 U. SH GAS
38 U. BG
CN
C3
C2
C1
35 U. BG
32-35 U. BG
46 U. INC
CN
GATE LEFT OPEN
34 U. BG
C3
C2
C1
40 U. BG
CN
25-28 U. BG
25 U. BG
CN
35 U. SH GAS
C2
C1
C3
27 U. BG
CN
17 U. BG
C2
C1
CN
21 U. BG


SH- RD TO DK RD, FRM TO SFT, BLCKY, V SLTY TXT, CALC-IP
LS- CRM TO OFF WHT GY IP, HD DNS TO BRTT IP, MD/F-XLN, RE-XLN, S-CHLKY, HVY TR IMBD FOSS FRGS, TR IMBD SFT WHT CHLK, IMBD GY SH IP, V DLL YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW
LABETTE SHALE 4469' (1270')
4485'-4487' LS- OFF WHT TO CRM (W/ DK TN TO BRN OIL STN IN 30%-40%), HD DNS TO TR BRTT, MD/F-XLN, V SUCRO, RE-XLN IP, IMBD VF-GRNS THRU, SLI TR WHT CHRT IN TRAY, DLL YEL FLO IN 50%, YEL GLD FLO IN 10%, FR TO TR PR INTER-XLN POR IN 2%, PR TO FR VUG POR IN 1%, TR PR MICRO-VUG POR IP, FR FLSH CUT, GD SLW STRM IN 60%, TN LCH ON DSH, NO OIL ODOR, LIVE OIL DROPS IN SAMPLE CUP
LS- TN TO LT TN GY IP, HD DNS, F-XLN, V RE-XLN, HVY TR IMBD F/MD-GRNS S-ANG QRTZ GRNS, SCAT IMBD PYR IP, TR IMBD SH, V DLL YEL FLO IN 5%, NO VIS POR, NO VIS CUT OR SHOW
LS- CRM TO OFF WHT, HD DNS TO SLI TR BRTT IP, VF/F-XLN, S-CHLKY IP, TR IMBD FOSS FRGS IP, TR CLR TO FRSTY WHT TRANS CHRT, SLI TR IMBD DISS PYR, DLL YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW
FORT SCOTT 4535' (-1336')
LS- CRM TO OFF WHT, V HD DNS, VF/F-XLN, RE-XLN IP, TR IMBD CALC-XLS, TR SFT WHT CHLK, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
CHEROKEE 4556' (-1357')
4568'-4572' LS- TN TO LT TN (W/ BLK OIL STN IN 20%-30%), HD DNS, VF/F-XLN, S-SUCRO IP, IMBD F-GRNS CLR S-ANG CLR QRTZ GRNS IP, SLI TR IMBD SFT WHT CHLK IP, DLL YEL FLO IN 30%, SPTTD BRT YEL GLD FLO IN 5%, PR TO FR INTER-XLN POR IN 4%, TR GD INTER-XLN POR IP, SCAT FR TO PR MICRO-VUG POR IN 1%, GD FLSH CUT, GD SLW STRM IN 50%, DK BRN LCH ON DSH, NO OIL ODOR
SH- GY TO DK GY PRP RD GRN MOTT, SFT TO FRM IP, SLTY TXT, TR PYR CLSTRS
LS- OFF WHT TO WHT, HD DNS, VF-XLN, RE-XLN MTRX, IMBD F/MD-GRNS S-ANG TO S-RND CLR QRTZ GRNS, TR IMBD RD & GRN SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
SH- RD TO DK RD GRN, SFT TO FRM IP, SLTY TXT, ABDT PRED UNCONSOLIDATED QRTZ GRNS, LG S-RND GRNS
SH- RD TO DK RD GRN GY PRP MOTT, FRM TO SFT, BLCKY, SLTY TXT, TR PRED UNCONSOLIDATED QRTZ GRNS
SH- RD TO DK RD GRN, FRM TO SFT, HVY TR INTER-BD LS, TR PRED UNCONSOLIDATED QRTZ GRNS
WT 8.9
VIS 59
LCM 4#
DST #2 4465'-4500
CFS @4465'
WT 8.9
VIS 57
LCM 3#
CFS @4500'
WT 9.0
VIS 62
LCM 3#
CFS@ 4530'
DST #3
4544'-4584'
WT 9.0
VIS 64
LCM 4#
CFS @4584'
WT 9.2
VIS 91
LCM 4#
WOB 38K
RPM 85
PP 850
SPM 62
WT 9.2
VIS 60
LCM 4#
4450
4500
4550
4600
4650
0
ROP (min/ft)
5
1
Gamma (API)
150
22 U. BG
CN
27 U. INC
C2
C1
25 U. BG
CN
30 U. SH GAS
34 U. INC
C3
C2
C1
CN
65 U. SH GAS
51 U. INC
53 U. INC
53 U. SH GAS
CN
47 U. SH GAS
C3
C2
C1
CN
C4
77 U. SHOW
C5
77 U. INC
44 U. INC
CN
C3
C2
C1
C1-C5
1
10
100
1000
47 U. INC
42 U. BG
CN
45 U. BG
C3
C2
C1


WT 9.2
VIS 58
LCM 4#
R.T.D. @ 4680'
SHORT TRIP
10 STANDS
C.T.C.H. 1.5 HRS
4700
P
SH- RD TO PRP, FRM TO SFT IP, V GRNY TXT, IMBD VF/F-GRNS RND CLR QRTZ GRNS, TR IMBD DISS PYR
SS- CLR TO FRST RD IP, HD TT, VF/F-GRNS QRTZ, S-ANG TO S-RND GRNS, SIL CMNT, FR SRT, TR IMBD RD SH, TR IMBD GRN CLY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
R.T.D. @ 8:00 P.M. 3/19/15
DROP SURVEY
T.O.F.L. @ 10:15 P.M. 3/19/15
WEATHERFORD/ LIBERAL, KS
CN
40-45 U. BG
R.T.D. @ 4680'
SAMPLES WILL BE DELIVERED TO KGS
THANK YOU FOR CHOOSING EARTH TECH
LOGGED BY: SCHUYLER HEDRICK