Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1259311

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 #:

4/7/2015	4/15/2015	4/16/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-153-21124-00-00
Spot Description:
SW SE NW SW Sec. 7 Twp. 5 S. R. 35 ☐ East ☑ West
1380 Feet from ☐ North / ☑ South Line of Section
815 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 Well #: 1-7
Field Name:
Producing Formation: CHEROKEE
Elevation: Ground: 3231 Kelly Bushing: 3236
Total Vertical Depth: 4698 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 302 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: 1000 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: 07/28/2015
☑ **Confidential Release Date:** 07/27/2017
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 07/28/2015

1259311

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: FISHER Well #: 1-7

Sec. 7 Twp. 5 S. R. 35 ☐ 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	3944	-708
HEEBNER	4090	-854
LANSING	4137	-901

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	302	COMMON CLASS A	250	2% GEL, 3% CC
Production	7.875	5.5	15.5	4691	A-CON	425	N/A
Production	7.875	5.5	15.5	4691	AA-2	200	N/A

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	4584-4591	1000 GAL 20% MCA W/ 3% MAS	4584-4591

TUBING RECORD: Size: 2.875 Set At: 4623 Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 4/30/2015

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:
4584-4591

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	FISHER 1-7
Doc ID	1259311

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	302	COMMON CLASS A	250	2% GEL, 3% CC
Production	7.875	5.5	15.5	4691	A-CON	425	N/A
Production	7.875	5.5	15.5	4691	AA-2	200	N/A

ALLIED OIL & GAS SERVICES, LLC 064696

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley

Fisher 1-7

DATE 4-7-15	SEC. 6	TWP. 2	RANGE 36	CALLED OUT	ON LOCATION 7:00pm	JOB START 9:00pm	JOB FINISH 9:30pm
LEASE Krueger Trust	WELL # 2-6		LOCATION Colby 13N 14W 2¾N			COUNTY Rawlins	STATE KS
OLD OR NEW (Circle one)			E into				

CONTRACTOR Murfin 8
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 302'
CASING SIZE 8 5/8 DEPTH 302'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 18.28 BBL

OWNER Same

CEMENT

AMOUNT ORDERED 250 sks com 3%cc

COMMON	250 sks	@ 17.90	4475.00
POZMIX		@	
GEL		@	
CHLORIDE	205 #	@ 1.10	225.50
ASC		@	
		@	
Material Tote O		@	5.250.50
(2520.24/48)		@	
		@	
		@	
		@	
		@	
HANDLING	262.504/ET	@ 2.48	651.00
MILEAGE	2.25 ton/mile	12.10 Tons	1164.62
		TOTAL	

EQUIPMENT

PUMP TRUCK # 495-281 CEMENTER Andrew Forslund
HELPER Paul Beaver
BULK TRUCK # 818 DRIVER Brandon Wilkinson
BULK TRUCK # DRIVER

REMARKS:

Cement Did Circulate

Thank you

SERVICE

DEPTH OF JOB	302'		
PUMP TRUCK CHARGE			1512.25
EXTRA FOOTAGE		@	
MILEAGE	35 miles	@ 7.70	269.50
MANIFOLD	head	@	225.00
Light vehicle		@ 4.40	154.00
		@	
(1932.41/483)		TOTAL	4025.87

CHARGE TO: Samuel Gary
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	TOTAL	

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.

SALES TAX (If Any)	
TOTAL CHARGES	9,276.37
DISCOUNT	4,452.65 (48%) IF PAID IN 30 DAYS
	4,823.71 Net.

PRINTED NAME Travis Martin

SIGNATURE Travis Martin

Bid

BASIC ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer: Samuel Cary JR & Associates	Lease No.	Date: 4-16-15	
Lease: Fisher 1-7	Well #: 1-7	Service Receipt: 5428	
Casing: 5 1/2	Depth: 4691.28	County: Rawlings	State: KS
Job Type: 2-42	Formation	Legal Description: Sec 7 Twp 5-R-30	

Pipe Data

Casing size: 5 1/2	Tubing Size
Depth: 4691.28 - Shoe Joint 4647.85	Depth
Volume: 110.61	Volume
Max Press: 1500	Max Press
Well Connection: 5 1/2	Annulus Vol.
Plug Depth	Packer Depth

Perforating Data

Shots/Ft	From	To
	From	To
	From	To
	From	To
	From	To

Cement Data

Lead Den 11.6
475 sks
yield 2.78
gal/sk 16.75

Tail in Den 14.8
200 sks
yield 1.51
gal/sk 6.51

Time	Casing Pressure	Tubing Pressure	Bbls. Pumbed	Rate	Service Log
11:00					ON location
11:30					Safty Meeting & Rig up
2:15	50		10	3.0	Plug Mouse Hole
2:20	50		10	3.0	Plug Rat Hole
2:25	2000		1	—	Prime up Psi Test
2:27	50		12	5.0	Pump Mud Flush
2:31	100		236	8.0	Start Lead Cement
3:07	100		54	7.0	Start Tail Cement
3:10	0		—	—	Shut Down
3:11	0		—	—	Drop Plug
3:11	0		—	—	Wash up
3:15	100		1	8.0	Start Displacement
3:20	400		40	8.0	Lift Psi
3:29	500		88	8.0	Circulate Cement 30 bbls To Pit
3:30	400		100	3.0	Slowdown Rate
3:31	1500		110	—	Shut Down
3:36	0				Released Back
3:36					Float Held
3:45					Rig down

Service Units	89315	38750/14846	30463	19566	27808/37725		
Driver Names	Juan	Carlos	Rogelio		Victor		

Boomer
Customer Representative

Tyce Davis
Station Manager

Juan Ortiz
Cementer

DRILL STEM TEST REPORT

SGA

1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Mitchel

7-5S-35W Rawlins KS

Fisher #1-7

Job Ticket: 62319 **DST#: 1**

Test Start: 2015.04.13 @ 20:48:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:49:50
Time Test Ended: 06:21:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Nichols
Unit No: 78

Interval: 4486.00 ft (KB) To 4535.00 ft (KB) (TVD)
Total Depth: 4535.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

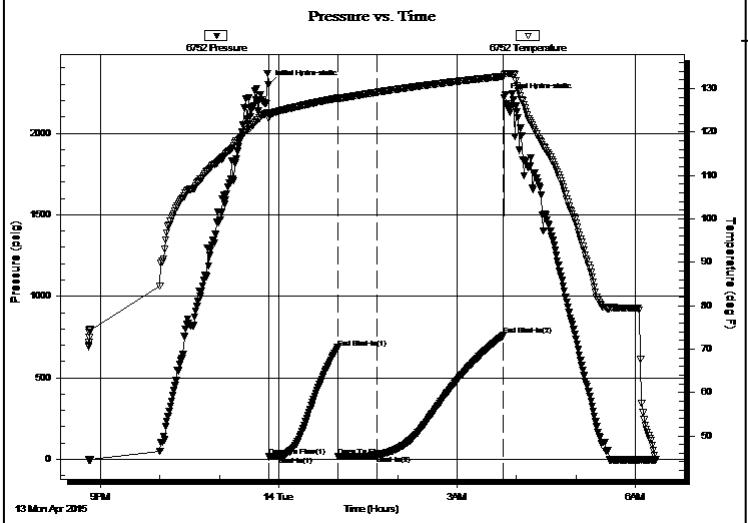
Reference Elevations: 3236.00 ft (KB)
3231.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: 26.98 psig @ 4487.00 ft (KB)
Start Date: 2015.04.13 End Date: 2015.04.14
Start Time: 20:48:01 End Time: 06:21:30

Capacity: 8000.00 psig
Last Calib.: 2015.04.14
Time On Btm: 2015.04.13 @ 23:49:30
Time Off Btm: 2015.04.14 @ 03:47:39

TEST COMMENT: 10 IF - 1/4" blow built to 1/2"
60 ISI - No return
30 FF - Surface blow died @ 5 mins
120 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2297.44	124.37	Initial Hydro-static
1	15.58	123.02	Open To Flow (1)
11	17.70	124.84	Shut-In(1)
70	684.75	127.82	End Shut-In(1)
70	17.30	127.39	Open To Flow (2)
110	26.98	129.17	Shut-In(2)
238	760.80	132.83	End Shut-In(2)
239	2219.90	133.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud w / oil spots	0.02

Gas Rates

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

DRILL STEM TEST REPORT

SGA

1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Mitchel

7-5S-35W Rawlins KS

Fisher #1-7

Job Ticket: 62319 **DST#: 1**

Test Start: 2015.04.13 @ 20:48:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:49:50
Time Test Ended: 06:21:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Nichols
Unit No: 78

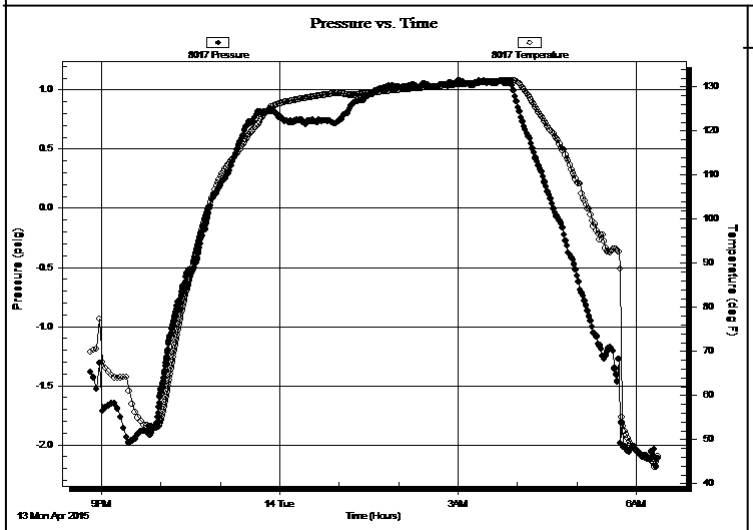
Interval: 4486.00 ft (KB) To 4535.00 ft (KB) (TVD)
Total Depth: 4535.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3236.00 ft (KB)
3231.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8017 **Fluid**
Press@RunDepth: psig @ 4455.00 ft (KB)
Start Date: 2015.04.13 End Date: 2015.04.14
Start Time: 20:49:00 End Time: 06:21:30

Capacity: 8000.00 psig
Last Calib.: 2015.04.14
Time On Btm:
Time Off Btm:

TEST COMMENT: 10 IF - 1/4" blow built to 1/2"
60 ISI - No return
30 FF - Surface blow died @ 5 mins
120 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud w / oil spots	0.02

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

SGA

1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Mitchel

7-5S-35W Rawlins KS

Fisher #1-7

Job Ticket: 62319 **DST#: 1**

Test Start: 2015.04.13 @ 20:48:00

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:	69.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.00 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

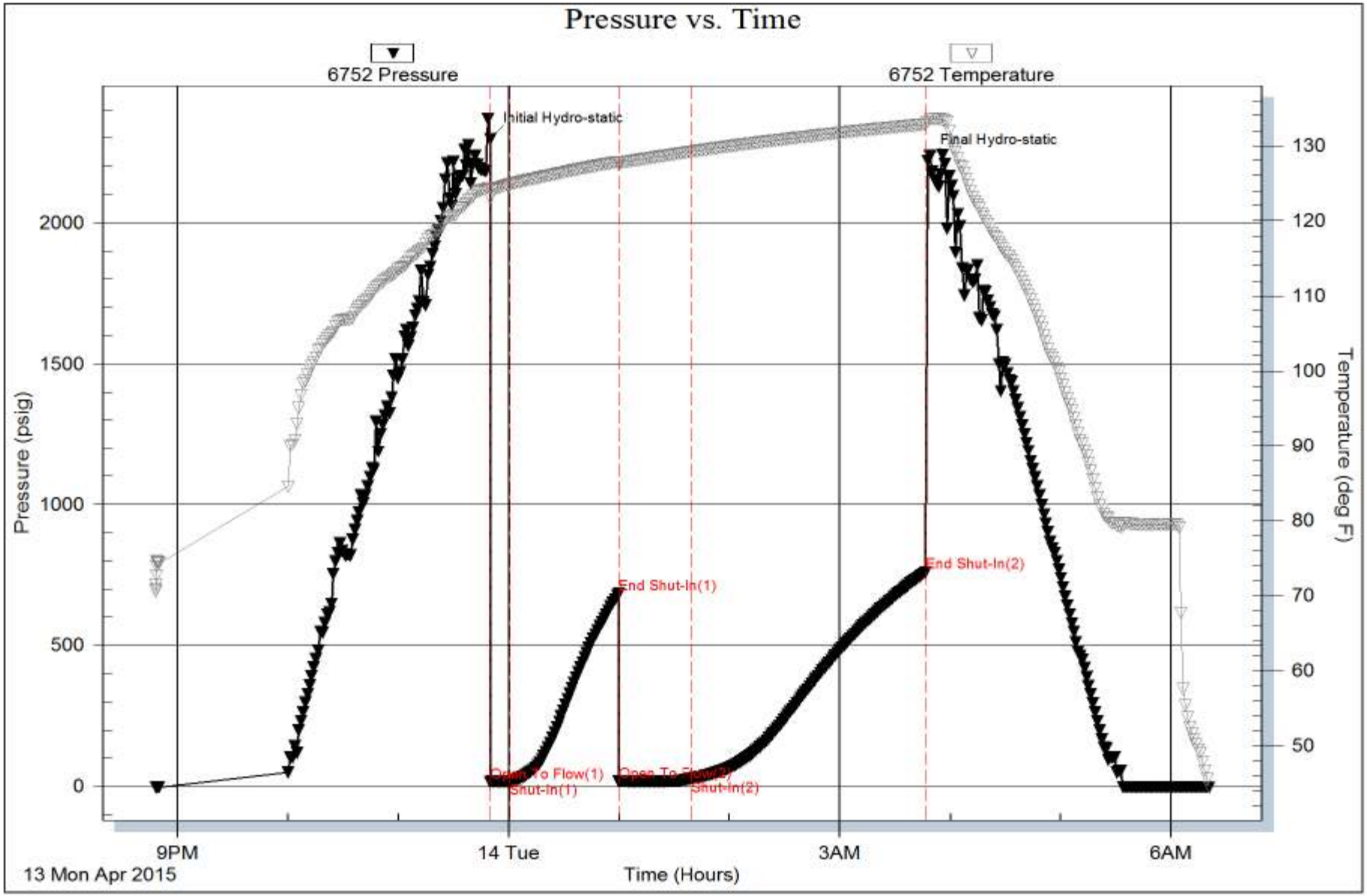
Recovery Table

Length ft	Description	Volume bbl
4.00	Mud w / oil spots	0.020

Total Length: 4.00 ft Total Volume: 0.020 bbl

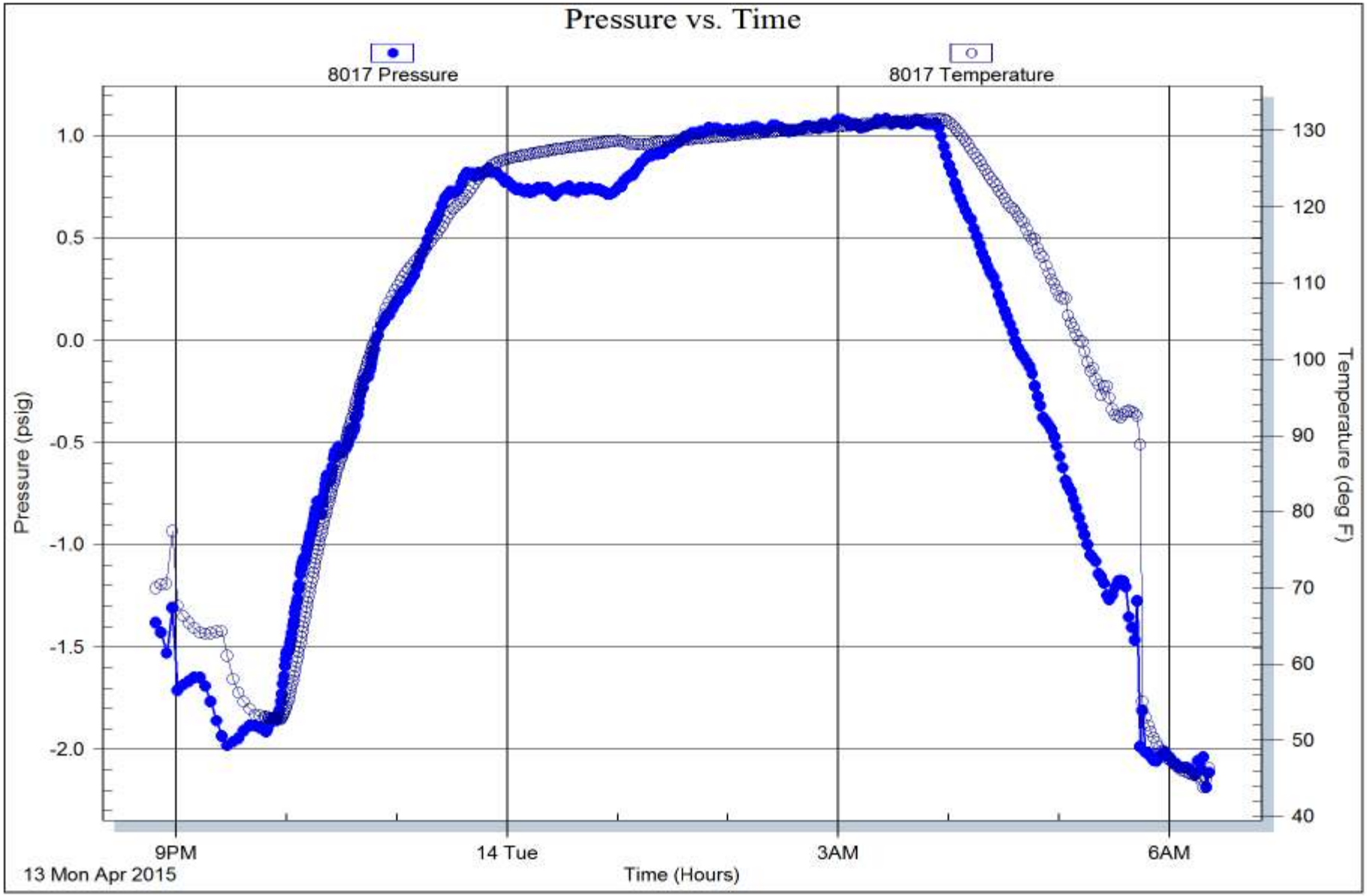
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6752 **Inside** SGA Fisher #1-7 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 62319 Printed: 2015.04.14 @ 08:33:31

Serial #: 8017 **Fluid** SGA Fisher #1-7 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 62319 Printed: 2015.04.14 @ 08:33:31

DRILL STEM TEST REPORT

SGA

1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Mitchel

7-5S-35W Rawlins KS

Fisher #1-7

Job Ticket: 62320 **DST#: 2**

Test Start: 2015.04.14 @ 21:18:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:24:00
Time Test Ended: 06:28:10

Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Nichols
Unit No: 78

Interval: 4578.00 ft (KB) To 4616.00 ft (KB) (TVD)
Total Depth: 4616.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

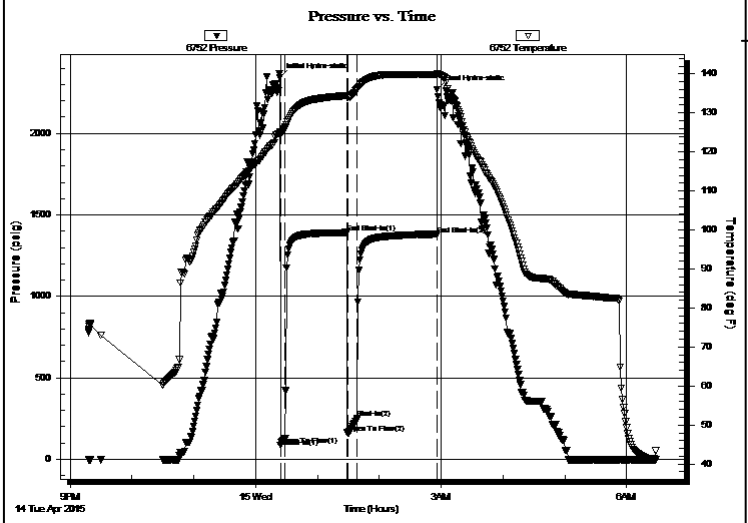
Reference Elevations: 3236.00 ft (KB)
3231.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: 250.71 psig @ 4579.00 ft (KB)
Start Date: 2015.04.14 End Date: 2015.04.15
Start Time: 21:18:01 End Time: 06:28:10

Capacity: 8000.00 psig
Last Calib.: 2015.04.15
Time On Btm: 2015.04.15 @ 00:23:40
Time Off Btm: 2015.04.15 @ 02:56:00

TEST COMMENT: 5 IF - 1" blow built to BoB @ 2 mins
60 ISI - Surface blow built to BoB @ 13 mins
10 FF - Surface blow built to BoB @ 2 mins
75 FSI - Surface blow built to BoB @ 15 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2343.20	125.03	Initial Hydro-static
1	85.93	124.72	Open To Flow (1)
5	130.63	126.18	Shut-In(1)
65	1391.73	134.41	End Shut-In(1)
66	160.83	133.99	Open To Flow (2)
75	250.71	136.12	Shut-In(2)
152	1378.95	139.84	End Shut-In(2)
153	2270.67	140.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GMCO - 15%G - 25%M - 60%o	0.20
600.00	GO - 40%G -60%o	7.09
0.00	320' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

SGA

1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Mitchel

7-5S-35W Rawlins KS

Fisher #1-7

Job Ticket: 62320 **DST#: 2**

Test Start: 2015.04.14 @ 21:18:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:24:00
Time Test Ended: 06:28:10

Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Nichols
Unit No: 78

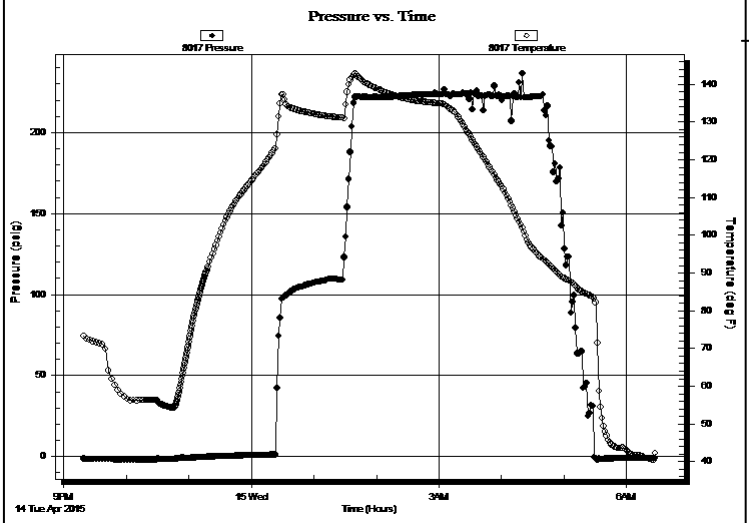
Interval: 4578.00 ft (KB) To 4616.00 ft (KB) (TVD)
Total Depth: 4616.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3236.00 ft (KB)
3231.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8017 **Fluid**
Press@RunDepth: psig @ 4547.00 ft (KB)
Start Date: 2015.04.14 End Date: 2015.04.15
Start Time: 21:19:00 End Time: 06:27:30

Capacity: 8000.00 psig
Last Calib.: 2015.04.15
Time On Btm:
Time Off Btm:

TEST COMMENT: 5 IF - 1" blow built to BoB @ 2 mins
60 ISI - Surface blow built to BoB @ 13 mins
10 FF - Surface blow built to BoB @ 2 mins
75 FSI - Surface blow built to BoB @ 15 mins



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GMCO - 15%G - 25%M - 60%o	0.20
600.00	GO - 40%G -60%o	7.09
0.00	320' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

SGA

1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Mitchel

7-5S-35W Rawlins KS

Fisher #1-7

Job Ticket: 62320 **DST#: 2**

Test Start: 2015.04.14 @ 21:18:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	27 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	67.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1200.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	GMCO - 15%G - 25%M - 60%o	0.197
600.00	GO - 40%G -60%o	7.086
0.00	320' GIP	0.000

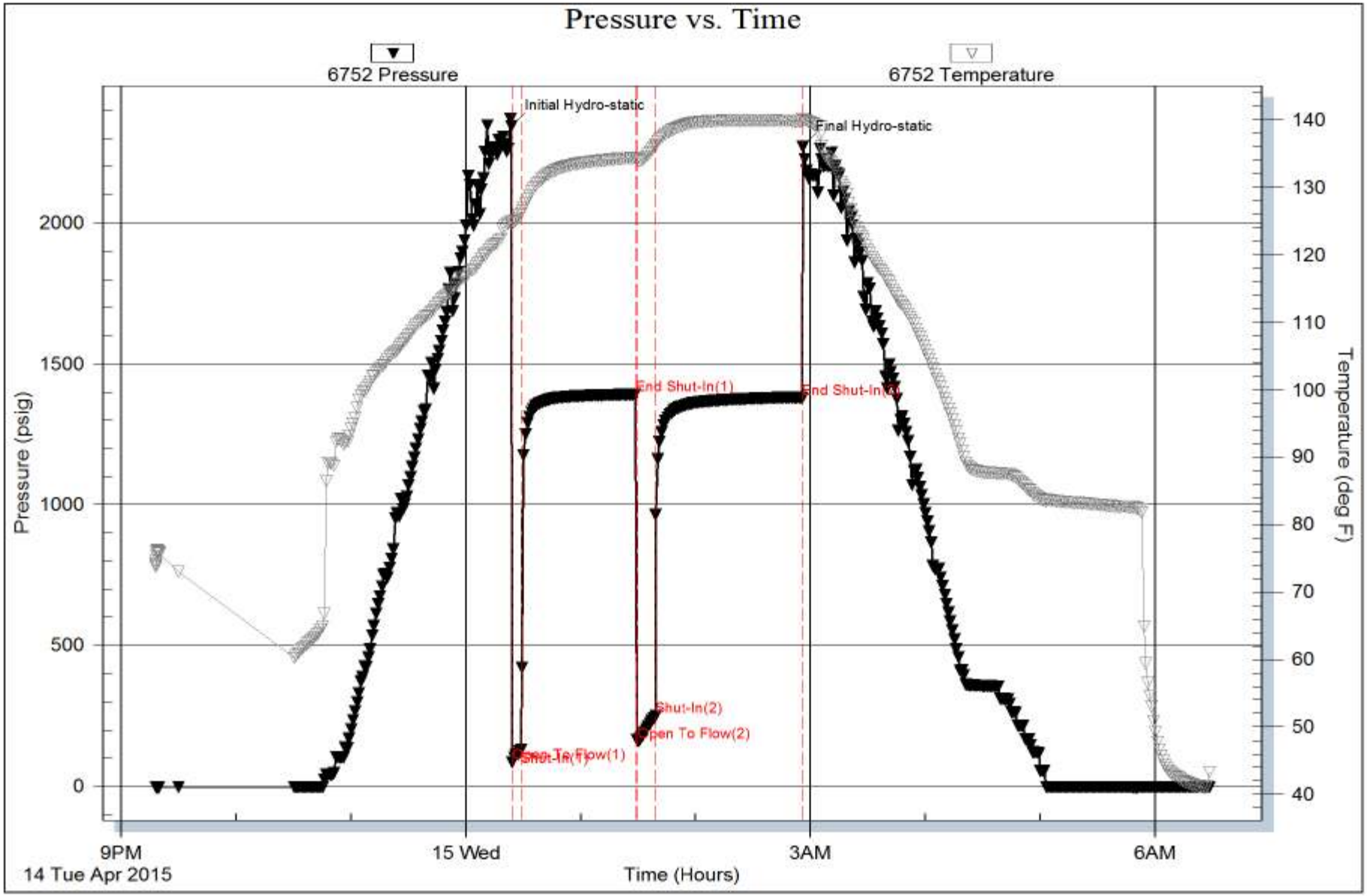
Total Length: 640.00 ft Total Volume: 7.283 bbl

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

Laboratory Name: Laboratory Location:

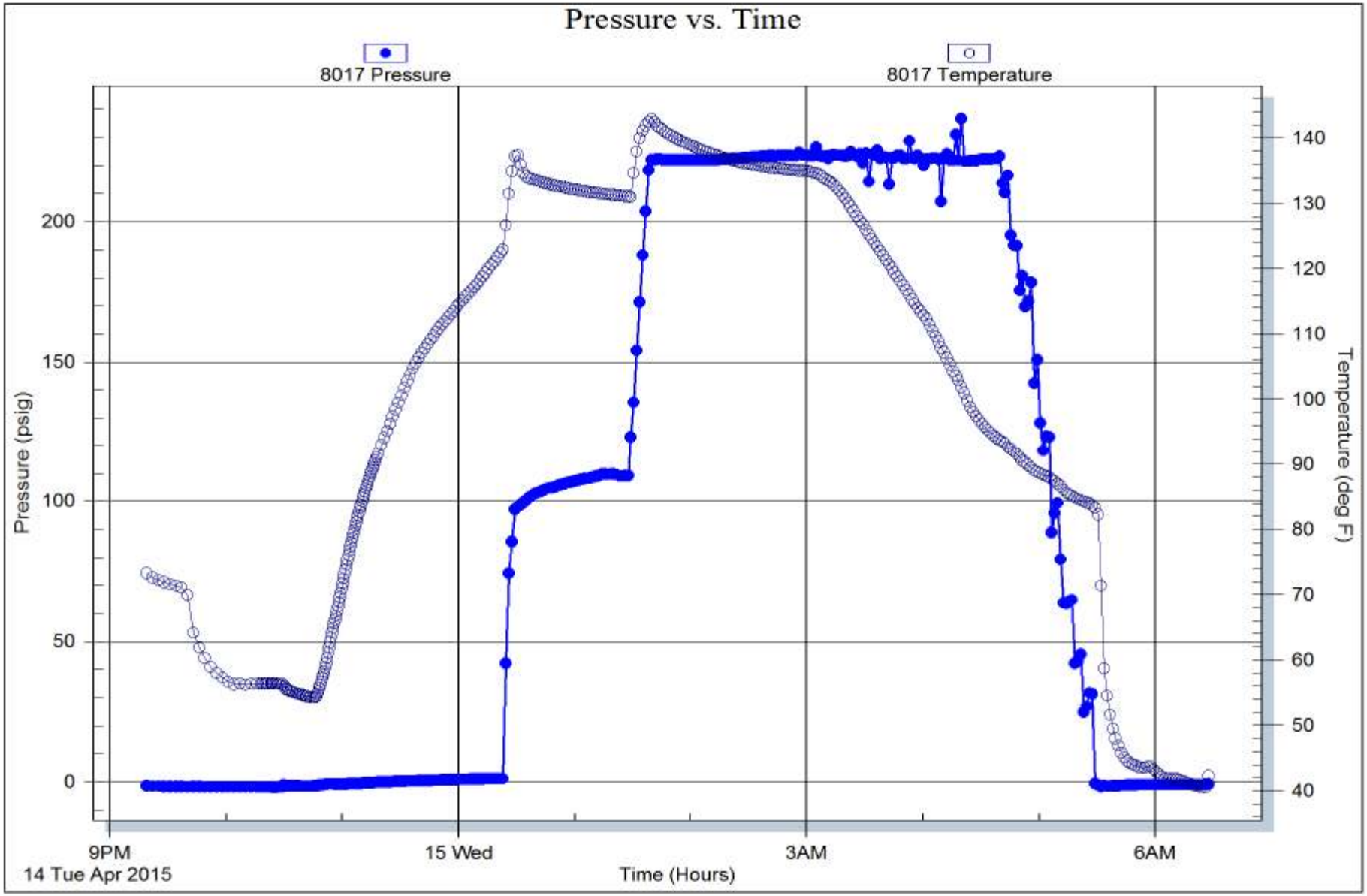
Recovery Comments: OIL API - 29 @ 80 DEG F = 27 COR 60 DEG F

Serial #: 6752 **Inside** SGA Fisher #1-7 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 62320 Printed: 2015.04.15 @ 14:58:02

Serial #: 8017 **Fluid** SGA Fisher #1-7 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 62320 Printed: 2015.04.15 @ 14:58:02

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

Well Name:	FISHER 1-7		
Well Id:			
Location:	SEC. 7-5S-35W	RAWLINS COUNTY, KANSAS	
License Number:	15-153-21124-0000	Region:	WILDCAT
Spud Date:	APR. 7, 2015	Drilling Completed:	APR. 15, 2015
Surface Coordinates:	1380 FSL/ 815 FWL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	3231'	K.B. Elevation (ft):	3236'
Logged Interval (ft):	3900' To: 4700'	Total Depth (ft):	4700'
Formation:	Lansing, Kansas City, Pawnee, Cherokee		
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: Chris Mitchell

GEOLOGIST

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

DRILL STEM TEST REPORT

SGA

1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Mitchel

7-5S-35W Rawlins KS

Fisher #1-7

Job Ticket: 62319 **DST#: 1**

Test Start: 2015.04.13 @ 20:48:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:49:50
Time Test Ended: 06:21:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Nichols
Unit No: 78

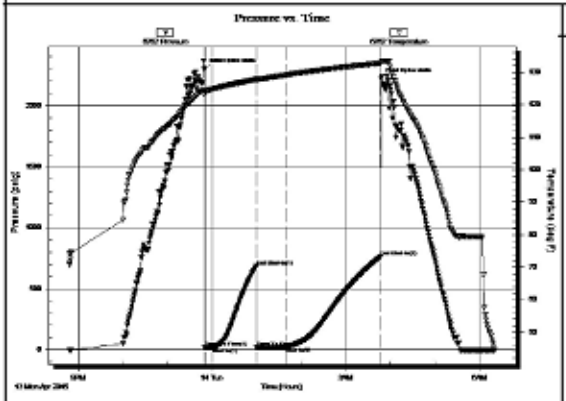
Interval: 4486.00 ft (KB) To 4535.00 ft (KB) (TVD)
Total Depth: 4535.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3236.00 ft (KB)
3231.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 **Inside**
Press@RunDepth: 26.98 psig @ 4487.00 ft (KB)
Start Date: 2015.04.13 End Date: 2015.04.14
Start Time: 20:48:01 End Time: 06:21:30

Capacity: 8000.00 psig
Last Calib.: 2015.04.14
Time On Btm: 2015.04.13 @ 23:49:30
Time Off Btm: 2015.04.14 @ 03:47:39

TEST COMMENT: 10 IF - 1/4" blow built to 1/2"
60 ISI - No return
30 FF - Surface blow died @ 5 mins
120 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2297.44	124.37	Initial Hydro-static
1	15.58	123.02	Open To Flow (1)
11	17.70	124.84	Shut-In(1)
70	684.75	127.82	End Shut-In(1)
70	17.30	127.39	Open To Flow (2)
110	26.98	129.17	Shut-In(2)
238	760.80	132.83	End Shut-In(2)
239	2219.90	133.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud w / oil spots	0.02

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

SGA

1515 Wykoop
STE 700
Denver Co 80202
ATTN: Chris Mitchel

7-5S-35W Rawlins KS

Fisher #1-7

Job Ticket: 62320 **DST#: 2**

Test Start: 2015.04.14 @ 21:18:00

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:24:00
Time Test Ended: 06:28:10

Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Nichols
Unit No: 78

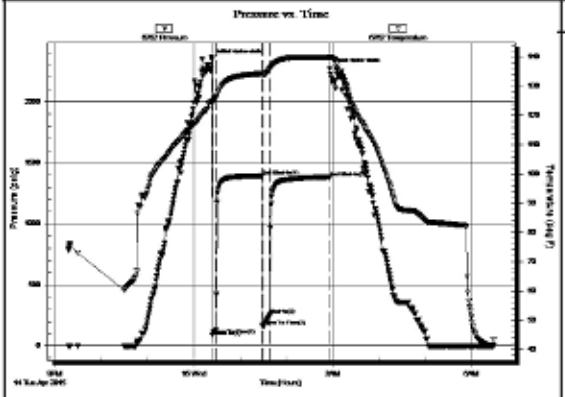
Interval: 4578.00 ft (KB) To 4616.00 ft (KB) (TVD)
Total Depth: 4616.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3236.00 ft (KB)
3231.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6752 **Inside**
Press@RunDepth: 250.71 psig @ 4579.00 ft (KB)
Start Date: 2015.04.14 End Date: 2015.04.15
Start Time: 21:18:01 End Time: 06:28:10

Capacity: 8000.00 psig
Last Calib.: 2015.04.15
Time On Btm: 2015.04.15 @ 00:23:40
Time Off Btm: 2015.04.15 @ 02:56:00

TEST COMMENT: 5 IF - 1" blow built to BoB @ 2 mins
60 ISI - Surface blow built to BoB @ 13 mins
10 FF - Surface blow built to BoB @ 2 mins
75 FSI - Surface blow built to BoB @ 15 mins



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2343.20	125.03	Initial Hydro-static
1	85.93	124.72	Open To Flow (1)
5	130.63	126.18	Shut-In(1)
65	1391.73	134.41	End Shut-In(1)
66	160.83	133.99	Open To Flow (2)
75	250.71	136.12	Shut-In(2)
152	1378.95	139.84	End Shut-In(2)
153	2270.67	140.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	GMCO - 15%G - 25%M - 60%o	0.20
600.00	GO - 40%G -60%o	7.09
0.00	320' GIP	0.00

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

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

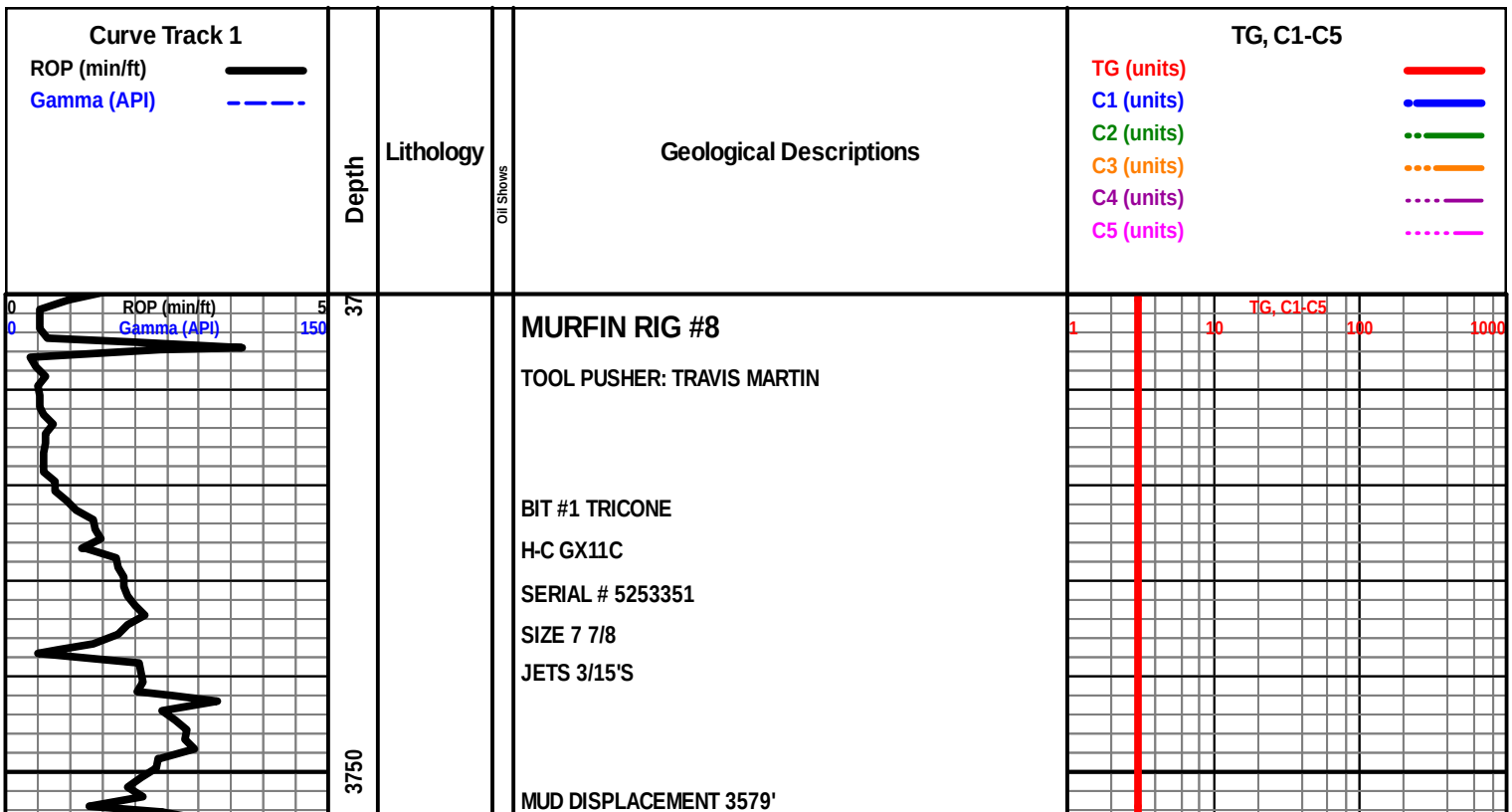
SORTING
- Well
- Moderate
- Poor

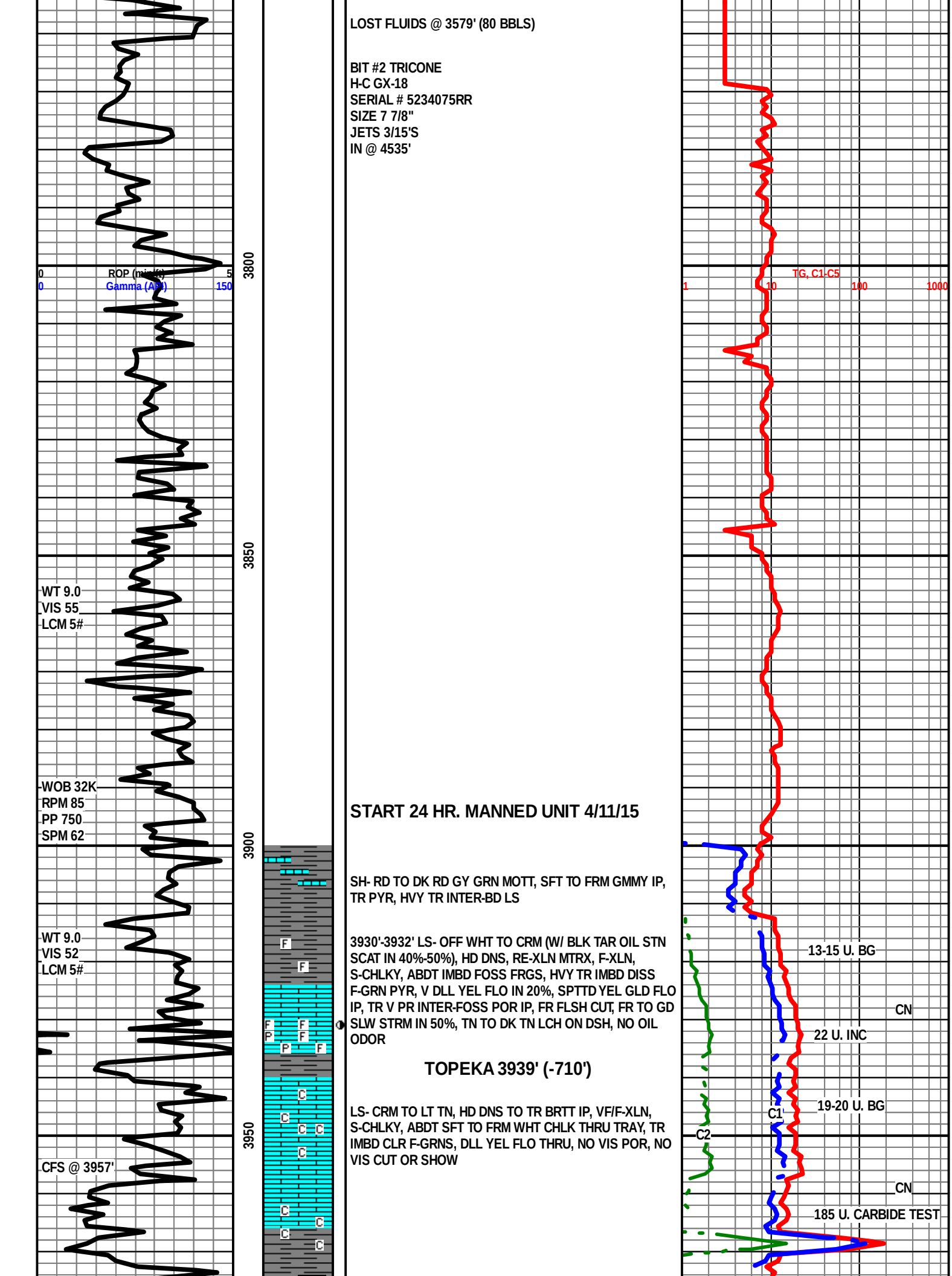
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

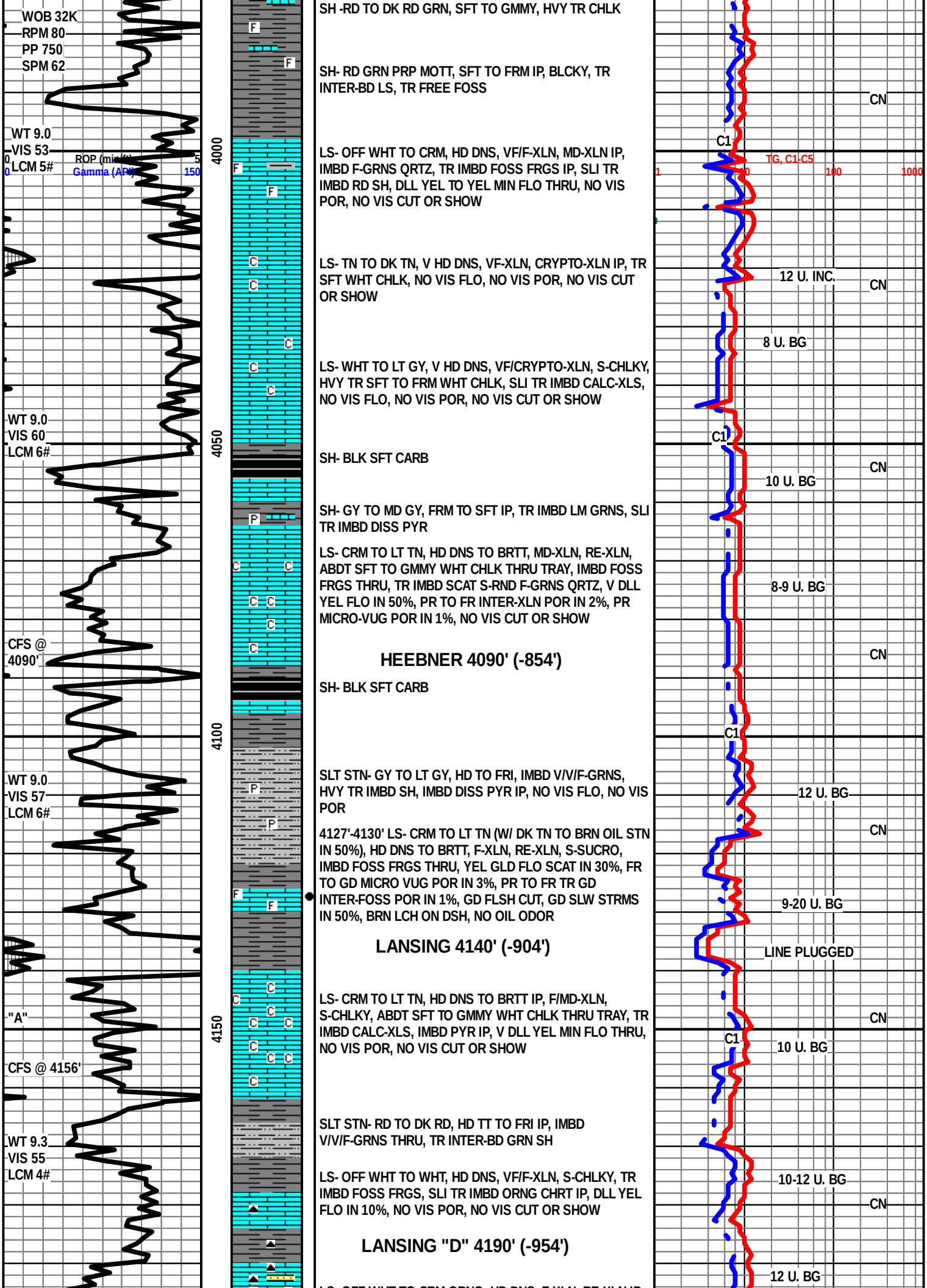
OIL SHOWS
- Even
- Spotted
- Ques
- Dead
- Gas show

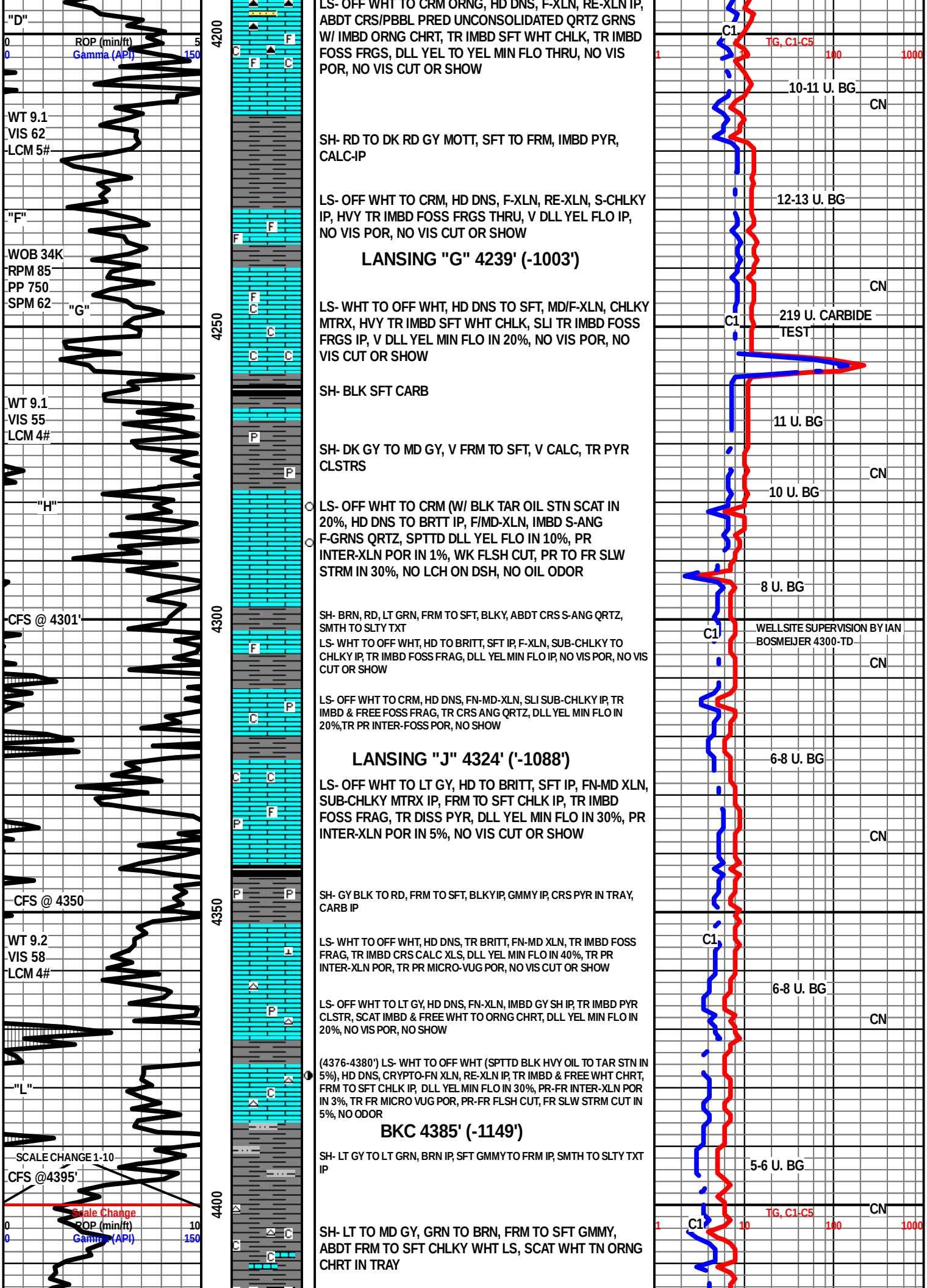
INTERVALS
- Core
- Dst
- Dst

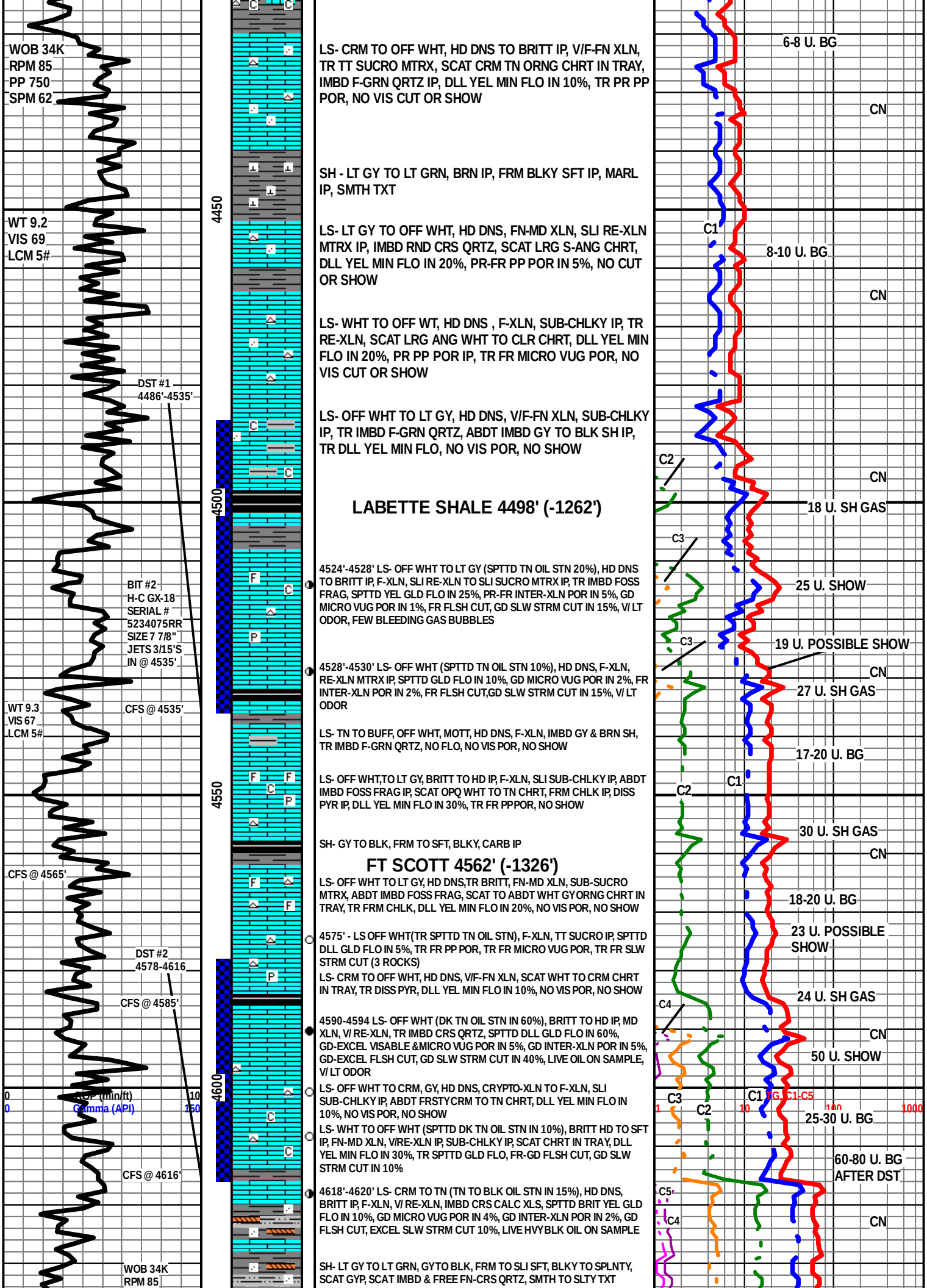
EVENTS
- Rft
- Sidewall

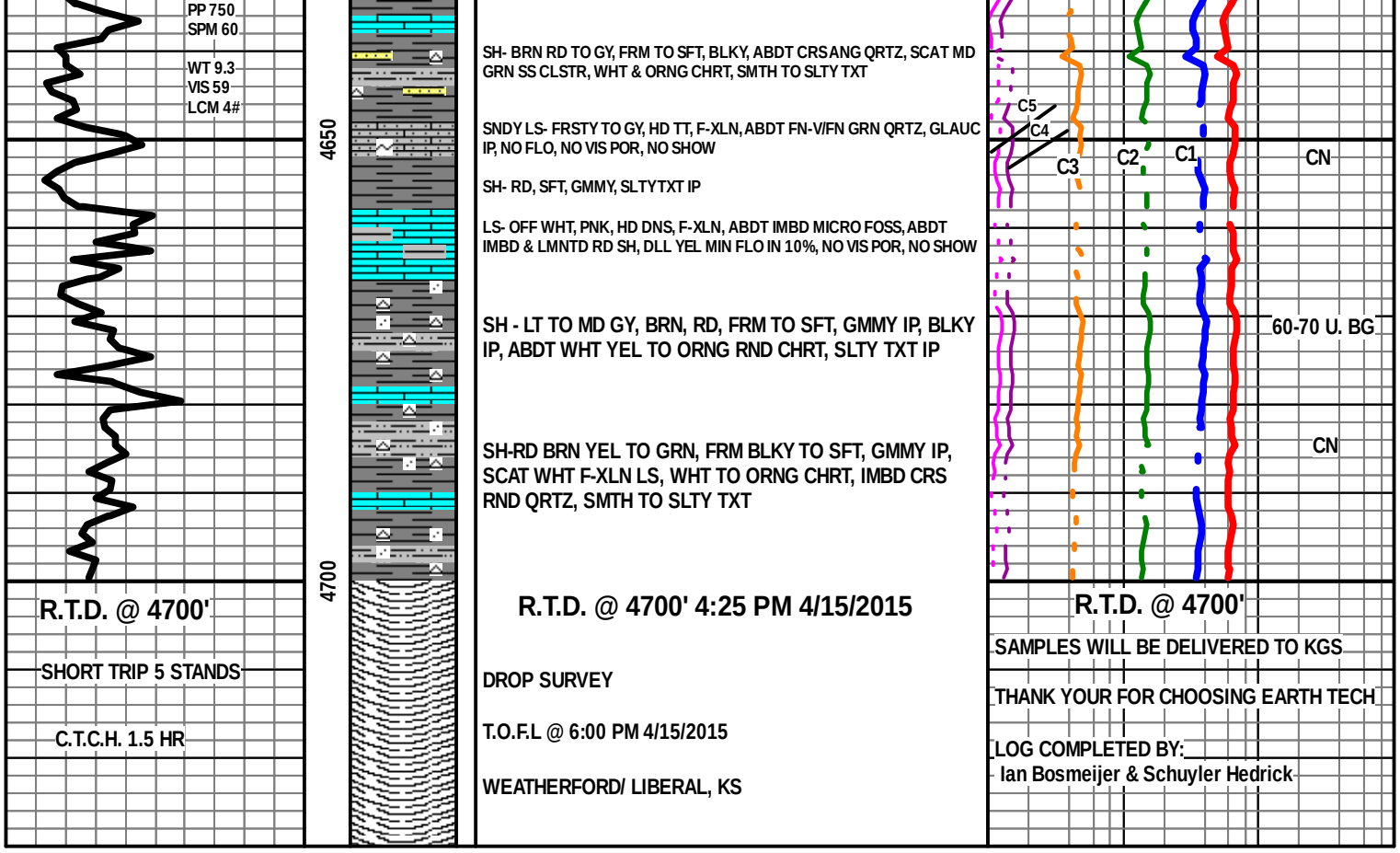



LOST FLUIDS @ 3579' (80 BBLS)
BIT #2 TRICONE
H-C GX-18
SERIAL # 5234075RR
SIZE 7 7/8"
JETS 3/15'S
IN @ 4535'
0
ROP (min/ft)
5
0
Gamma (API)
150
TG, C1-C5
1
10
100
1000
3800
3850
3900
3950
WT 9.0
VIS 55
LCM 5#
WOB 32K
RPM 85
PP 750
SPM 62
WT 9.0
VIS 52
LCM 5#
CFS @ 3957'
START 24 HR. MANNED UNIT 4/11/15
SH- RD TO DK RD GY GRN MOTT, SFT TO FRM GMMY IP, TR PYR, HVY TR INTER-BD LS
3930'-3932' LS- OFF WHT TO CRM (W/ BLK TAR OIL STN SCAT IN 40%-50%), HD DNS, RE-XLN MTRX, F-XLN, S-CHLKY, ABDT IMBD FOSS FRGS, HVY TR IMBD DISS F-GRN PYR, V DLL YEL FLO IN 20%, SPTTD YEL GLD FLO IP, TR V PR INTER-FOSS POR IP, FR FLSH CUT, FR TO GD SLW STRM IN 50%, TN TO DK TN LCH ON DSH, NO OIL ODOR
TOPEKA 3939' (-710')
LS- CRM TO LT TN, HD DNS TO TR BRTT IP, VF/F-XLN, S-CHLKY, ABDT SFT TO FRM WHT CHLK THRU TRAY, TR IMBD CLR F-GRNS, DLL YEL FLO THRU, NO VIS POR, NO VIS CUT OR SHOW
13-15 U. BG
CN
22 U. INC
C1
C2
19-20 U. BG
CN
185 U. CARBIDE TEST


WOB 32K
RPM 80
PP 750
SPM 62
WT 9.0
VIS 53
LCM 5#
ROP (min/ft)
0
5
Gamma (API)
0
150
4000
WT 9.0
VIS 60
LCM 6#
4050
CFS @ 4090'
WT 9.0
VIS 57
LCM 6#
4100
"A"
CFS @ 4156'
WT 9.3
VIS 55
LCM 4#
4150
SH -RD TO DK RD GRN, SFT TO GMMY, HVY TR CHLK
SH- RD GRN PRP MOTT, SFT TO FRM IP, BLCKY, TR INTER-BD LS, TR FREE FOSS
LS- OFF WHT TO CRM, HD DNS, VF/F-XLN, MD-XLN IP, IMBD F-GRNS QRTZ, TR IMBD FOSS FRGS IP, SLI TR IMBD RD SH, DLL YEL TO YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW
LS- TN TO DK TN, V HD DNS, VF-XLN, CRYPTO-XLN IP, TR SFT WHT CHLK, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
LS- WHT TO LT GY, V HD DNS, VF/CRYPTO-XLN, S-CHLKY, HVY TR SFT TO FRM WHT CHLK, SLI TR IMBD CALC-XLS, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW
SH- BLK SFT CARB
SH- GY TO MD GY, FRM TO SFT IP, TR IMBD LM GRNS, SLI TR IMBD DISS PYR
LS- CRM TO LT TN, HD DNS TO BRTT, MD-XLN, RE-XLN, ABDT SFT TO GMMY WHT CHLK THRU TRAY, IMBD FOSS FRGS THRU, TR IMBD SCAT S-RND F-GRNS QRTZ, V DLL YEL FLO IN 50%, PR TO FR INTER-XLN POR IN 2%, PR MICRO-VUG POR IN 1%, NO VIS CUT OR SHOW
HEEBNER 4090' (-854')
SH- BLK SFT CARB
SLT STN- GY TO LT GY, HD TO FRI, IMBD V/V/F-GRNS, HVY TR IMBD SH, IMBD DISS PYR IP, NO VIS FLO, NO VIS POR
4127'-4130' LS- CRM TO LT TN (W/ DK TN TO BRN OIL STN IN 50%), HD DNS TO BRTT, F-XLN, RE-XLN, S-SUCRO, IMBD FOSS FRGS THRU, YEL GLD FLO SCAT IN 30%, FR TO GD MICRO VUG POR IN 3%, PR TO FR TR GD INTER-FOSS POR IN 1%, GD FLSH CUT, GD SLW STRMS IN 50%, BRN LCH ON DSH, NO OIL ODOR
LANSING 4140' (-904')
LS- CRM TO LT TN, HD DNS TO BRTT IP, F/MD-XLN, S-CHLKY, ABDT SFT TO GMMY WHT CHLK THRU TRAY, TR IMBD CALC-XLS, IMBD PYR IP, V DLL YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW
SLT STN- RD TO DK RD, HD TT TO FRI IP, IMBD V/V/F-GRNS THRU, TR INTER-BD GRN SH
LS- OFF WHT TO WHT, HD DNS, VF/F-XLN, S-CHLKY, TR IMBD FOSS FRGS, SLI TR IMBD ORNG CHRT IP, DLL YEL FLO IN 10%, NO VIS POR, NO VIS CUT OR SHOW
LANSING "D" 4190' (-954')
TG, C1-C5
1
10
100
1000
C1
CN
12 U. INC.
8 U. BG
10 U. BG
8-9 U. BG
12 U. BG
9-20 U. BG
LINE PLUGGED
12 U. BG


"D"
0 ROP (min/ft) 5
0 Gamma (API) 150
WT 9.1
VIS 62
LCM 5#
"F"
WOB 34K
RPM 85
PP 750
SPM 62
"G"
WT 9.1
VIS 55
LCM 4#
"H"
CFS @ 4301'
CFS @ 4350
WT 9.2
VIS 58
LCM 4#
"L"
SCALE CHANGE 1-10
CFS @4395'
Scale Change
0 ROP (min/ft) 10
0 Gamma (API) 150
4200
4250
4300
4350
4400
LS- OFF WHT TO CRM ORNG, HD DNS, F-XLN, RE-XLN IP, ABDT CRS/PBBL PRED UNCONSOLIDATED QRTZ GRNS W/ IMBD ORNG CHRT, TR IMBD SFT WHT CHLK, TR IMBD FOSS FRGS, DLL YEL TO YEL MIN FLO THRU, NO VIS POR, NO VIS CUT OR SHOW
SH- RD TO DK RD GY MOTT, SFT TO FRM, IMBD PYR, CALC-IP
LS- OFF WHT TO CRM, HD DNS, F-XLN, RE-XLN, S-CHLKY IP, HVY TR IMBD FOSS FRGS THRU, V DLL YEL FLO IP, NO VIS POR, NO VIS CUT OR SHOW
LANSING "G" 4239' (-1003')
LS- WHT TO OFF WHT, HD DNS TO SFT, MD/F-XLN, CHLKY MTRX, HVY TR IMBD SFT WHT CHLK, SLI TR IMBD FOSS FRGS IP, V DLL YEL MIN FLO IN 20%, NO VIS POR, NO VIS CUT OR SHOW
SH- BLK SFT CARB
SH- DK GY TO MD GY, V FRM TO SFT, V CALC, TR PYR CLSTRS
LS- OFF WHT TO CRM (W/ BLK TAR OIL STN SCAT IN 20%, HD DNS TO BRTT IP, F/MD-XLN, IMBD S-ANG F-GRNS QRTZ, SPTTD DLL YEL FLO IN 10%, PR INTER-XLN POR IN 1%, WK FLSH CUT, PR TO FR SLW STRM IN 30%, NO LCH ON DSH, NO OIL ODOR
SH- BRN, RD, LT GRN, FRM TO SFT, BLKY, ABDT CRS S-ANG QRTZ, SMTH TO SLTY TXT
LS- WHT TO OFF WHT, HD TO BRITT, SFT IP, F-XLN, SUB-CHLKY TO CHLKY IP, TR IMBD FOSS FRAG, DLL YEL MIN FLO IP, NO VIS POR, NO VIS CUT OR SHOW
LS- OFF WHT TO CRM, HD DNS, FN-MD-XLN, SLI SUB-CHLKY IP, TR IMBD & FREE FOSS FRAG, TR CRS ANG QRTZ, DLL YEL MIN FLO IN 20%,TR PR INTER-FOSS POR, NO SHOW
LANSING "J" 4324' ('-1088')
LS- OFF WHT TO LT GY, HD TO BRITT, SFT IP, FN-MD XLN, SUB-CHLKY MTRX IP, FRM TO SFT CHLK IP, TR IMBD FOSS FRAG, TR DISS PYR, DLL YEL MIN FLO IN 30%, PR INTER-XLN POR IN 5%, NO VIS CUT OR SHOW
SH- GY BLK TO RD, FRM TO SFT, BLKY IP, GMMY IP, CRS PYR IN TRAY, CARB IP
LS- WHT TO OFF WHT, HD DNS, TR BRITT, FN-MD XLN, TR IMBD FOSS FRAG, TR IMBD CRS CALC XLS, DLL YEL MIN FLO IN 40%, TR PR INTER-XLN POR, TR PR MICRO-VUG POR, NO VIS CUT OR SHOW
LS- OFF WHT TO LT GY, HD DNS, FN-XLN, IMBD GY SH IP, TR IMBD PYR CLSTR, SCAT IMBD & FREE WHT TO ORNG CHRT, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW
(4376-4380') LS- WHT TO OFF WHT (SPTTD BLK HVY OIL TO TAR STN IN 5%), HD DNS, CRYPTO-FN XLN, RE-XLN IP, TR IMBD & FREE WHT CHRT, FRM TO SFT CHLK IP, DLL YEL MIN FLO IN 30%, PR-FR INTER-XLN POR IN 3%, TR FR MICRO VUG POR, PR-FR FLSH CUT, FR SLW STRM CUT IN 5%, NO ODOR
BKC 4385' (-1149')
SH- LT GY TO LT GRN, BRN IP, SFT GMMY TO FRM IP, SMTH TO SLTY TXT IP
SH- LT TO MD GY, GRN TO BRN, FRM TO SFT GMMY, ABDT FRM TO SFT CHLKY WHT LS, SCAT WHT TN ORNG CHRT IN TRAY
C1
TG, C1-C5
1 10 100 1000
10-11 U. BG
CN
12-13 U. BG
CN
C1
219 U. CARBIDE TEST
11 U. BG
CN
10 U. BG
8 U. BG
C1
WELLSITE SUPERVISION BY IAN BOSMEIJER 4300-TD
CN
6-8 U. BG
CN
C1
6-8 U. BG
CN
5-6 U. BG
CN
TG, C1-C5
1 10 100 1000
C1


WOB 34K
RPM 85
PP 750
SPM 62
WT 9.2
VIS 69
LCM 5#
DST #1
4486'-4535'
BIT #2
H-C GX-18
SERIAL #
5234075RR
SIZE 7 7/8"
JETS 3/15'S
IN @ 4535'
WT 9.3
VIS 67
LCM 5#
CFS @ 4535'
CFS @ 4565'
DST #2
4578-4616'
CFS @ 4585'
CFS @ 4616'
WOB 34K
RPM 85
0
ROP (min/ft)
10
0
Gamma (API)
150
4450
4500
4550
4600
LS- CRM TO OFF WHT, HD DNS TO BRITT IP, V/F-FN XLN, TR TT SUCRO MTRX, SCAT CRM TN ORNG CHRT IN TRAY, IMBD F-GRN QRTZ IP, DLL YEL MIN FLO IN 10%, TR PR PP POR, NO VIS CUT OR SHOW
SH - LT GY TO LT GRN, BRN IP, FRM BLKY SFT IP, MARL IP, SMTH TXT
LS- LT GY TO OFF WHT, HD DNS, FN-MD XLN, SLI RE-XLN MTRX IP, IMBD RND CRS QRTZ, SCAT LRG S-ANG CHRT, DLL YEL MIN FLO IN 20%, PR-FR PP POR IN 5%, NO CUT OR SHOW
LS- WHT TO OFF WT, HD DNS , F-XLN, SUB-CHLKY IP, TR RE-XLN, SCAT LRG ANG WHT TO CLR CHRT, DLL YEL MIN FLO IN 20%, PR PP POR IP, TR FR MICRO VUG POR, NO VIS CUT OR SHOW
LS- OFF WHT TO LT GY, HD DNS, V/F-FN XLN, SUB-CHLKY IP, TR IMBD F-GRN QRTZ, ABDT IMBD GY TO BLK SH IP, TR DLL YEL MIN FLO, NO VIS POR, NO SHOW
LABETTE SHALE 4498' (-1262')
4524'-4528' LS- OFF WHT TO LT GY (SPTTD TN OIL STN 20%), HD DNS TO BRITT IP, F-XLN, SLI RE-XLN TO SLI SUCRO MTRX IP, TR IMBD FOSS FRAG, SPTTD YEL GLD FLO IN 25%, PR-FR INTER-XLN POR IN 5%, GD MICRO VUG POR IN 1%, FR FLSH CUT, GD SLW STRM CUT IN 15%, V/ LT ODOR, FEW BLEEDING GAS BUBBLES
4528'-4530' LS- OFF WHT (SPTTD TN OIL STN 10%), HD DNS, F-XLN, RE-XLN MTRX IP, SPTTD GLD FLO IN 10%, GD MICRO VUG POR IN 2%, FR INTER-XLN POR IN 2%, FR FLSH CUT,GD SLW STRM CUT IN 15%, V/ LT ODOR
LS- TN TO BUFF, OFF WHT, MOTT, HD DNS, F-XLN, IMBD GY & BRN SH, TR IMBD F-GRN QRTZ, NO FLO, NO VIS POR, NO SHOW
LS- OFF WHT,TO LT GY, BRITT TO HD IP, F-XLN, SLI SUB-CHLKY IP, ABDT IMBD FOSS FRAG IP, SCAT OPQ WHT TO TN CHRT, FRM CHLK IP, DISS PYR IP, DLL YEL MIN FLO IN 30%, TR FR PPPOR, NO SHOW
SH- GY TO BLK, FRM TO SFT, BLKY, CARB IP
FT SCOTT 4562' (-1326')
LS- OFF WHT TO LT GY, HD DNS,TR BRITT, FN-MD XLN, SUB-SUCRO MTRX, ABDT IMBD FOSS FRAG, SCAT TO ABDT WHT GYORNG CHRT IN TRAY, TR FRM CHLK, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW
4575' - LS OFF WHT(TR SPTTD TN OIL STN), F-XLN, TT SUCRO IP, SPTTD DLL GLD FLO IN 5%, TR FR PP POR, TR FR MICRO VUG POR, TR FR SLW STRM CUT (3 ROCKS)
LS- CRM TO OFF WHT, HD DNS, V/F-FN XLN, SCAT WHT TO CRM CHRT IN TRAY, TR DISS PYR, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
4590-4594 LS- OFF WHT (DK TN OIL STN IN 60%), BRITT TO HD IP, MD XLN, V/ RE-XLN, TR IMBD CRS QRTZ, SPTTD DLL GLD FLO IN 60%, GD-EXCEL VISABLE &MICRO VUG POR IN 5%, GD INTER-XLN POR IN 5%, GD-EXCEL FLSH CUT, GD SLW STRM CUT IN 40%, LIVE OIL ON SAMPLE, V/ LT ODOR
LS- OFF WHT TO CRM, GY, HD DNS, CRYPTO-XLN TO F-XLN, SLI SUB-CHLKY IP, ABDT FRSTYCRM TO TN CHRT, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
LS- WHT TO OFF WHT (SPTTD DK TN OIL STN IN 10%), BRITT HD TO SFT IP, FN-MD XLN, V/RE-XLN IP, SUB-CHLKY IP, SCAT CHRT IN TRAY, DLL YEL MIN FLO IN 30%, TR SPTTD GLD FLO, FR-GD FLSH CUT, GD SLW STRM CUT IN 10%
4618'-4620' LS- CRM TO TN (TN TO BLK OIL STN IN 15%), HD DNS, BRITT IP, F-XLN, V/ RE-XLN, IMBD CRS CALC XLS, SPTTD BRIT YEL GLD FLO IN 10%, GD MICRO VUG POR IN 4%, GD INTER-XLN POR IN 2%, GD FLSH CUT, EXCEL SLW STRM CUT 10%, LIVE HVY BLK OIL ON SAMPLE
SH- LT GY TO LT GRN, GYTO BLK, FRM TO SLI SFT, BLKY TO SPLNTY, SCAT GYP, SCAT IMBD & FREE FN-CRS QRTZ, SMTH TO SLTY TXT
6-8 U. BG
CN
C1
8-10 U. BG
CN
C2
CN
18 U. SH GAS
C3
25 U. SHOW
C3
19 U. POSSIBLE SHOW
CN
27 U. SH GAS
17-20 U. BG
C1
C2
30 U. SH GAS
CN
18-20 U. BG
23 U. POSSIBLE SHOW
24 U. SH GAS
C4
CN
50 U. SHOW
C3
C1
C2
1
10
100
1000
25-30 U. BG
60-80 U. BG
AFTER DST
C5
C4
CN


PP 750
SPM 60
WT 9.3
VIS 59
LCM 4#
4650
4700
SH- BRN RD TO GY, FRM TO SFT, BLKY, ABDT CRS ANG QRTZ, SCAT MD GRN SS CLSTR, WHT & ORNG CHRT, SMTH TO SLTY TXT
SNDY LS- FRSTY TO GY, HD TT, F-XLN, ABDT FN-V/FN GRN QRTZ, GLAUC IP, NO FLO, NO VIS POR, NO SHOW
SH- RD, SFT, GMMY, SLTY TXT IP
LS- OFF WHT, PNK, HD DNS, F-XLN, ABDT IMBD MICRO FOSS, ABDT IMBD & LMNTD RD SH, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
SH - LT TO MD GY, BRN, RD, FRM TO SFT, GMMY IP, BLKY IP, ABDT WHT YEL TO ORNG RND CHRT, SLTY TXT IP
SH-RD BRN YEL TO GRN, FRM BLKY TO SFT, GMMY IP, SCAT WHT F-XLN LS, WHT TO ORNG CHRT, IMBD CRS RND QRTZ, SMTH TO SLTY TXT
C5
C4
C3
C2
C1
CN
60-70 U. BG
CN
R.T.D. @ 4700'
SHORT TRIP 5 STANDS
C.T.C.H. 1.5 HR
R.T.D. @ 4700' 4:25 PM 4/15/2015
DROP SURVEY
T.O.F.L @ 6:00 PM 4/15/2015
WEATHERFORD/ LIBERAL, KS
R.T.D. @ 4700'
SAMPLES WILL BE DELIVERED TO KGS
THANK YOUR FOR CHOOSING EARTH TECH
LOG COMPLETED BY:
Ian Bosmeijer & Schuyler Hedrick