Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1265713

Form ACO-1
November 2016
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: GABE D'ARTHENAY
Phone: (303) 831-4673
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: IAN BOSMEIJER
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ WSW ☐ SWD
☐ Gas ☑ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

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

6/10/2015 Spud Date or Recompletion Date
6/18/2015 Date Reached TD
6/19/2015 Completion Date or Recompletion Date

API No.: 15-153-21150-00-00
Spot Description:
S2 - NW - NW - NE Sec. 27 Twp. 5 S. R. 35 ☐ East ☑ West
600 Feet from ☑ North / ☐ South Line of Section
2310 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: CURRY Well #: 1-27
Field Name:
Producing Formation: N/A
Elevation: Ground: 3276 Kelly Bushing: 3281
Total Vertical Depth: 4751 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 388 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: 5000 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: 09/30/2015
☑ **Confidential Release Date:** 09/29/2017
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 10/01/2015

[redacted]

1265713

Operator Name: Samuel Gary Jr. & Associates, Inc. Lease Name: CURRY Well #: 1-27

Sec. 27 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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geolgist Report / Mud Logs	☐ Yes	☐ No

List All E. Logs Run:

DEN-NEUT
INDUCTION
MICRO

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

Name	Top	Datum
TOPEKA	3958	-677
HEEBNER	4114	-833
LANSING	4165	-884

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	388	COMMON CLASS A	250	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	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Samuel Gary Jr. & Associates, Inc.
Well Name	CURRY 1-27
Doc ID	1265713

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	388	COMMON CLASS A	250	2% GEL, 3% CC

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. 948

Date 6-10-15	Sec. 27	Twp. 5	Range 35	County Rawlins	State KS	On Location	Finish 12:15 AM

Location Levant 14 N to C.L. 2N 1½ W

Lease Curry Well No. 1-27

Contractor Murfin 24

Type Job Surface

Hole Size 12 1/4 T.D. 388'

Csg. 8 5/8 Depth 388'

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 20' Shoe Joint

Meas Line Displace 23 1/2 bbl

EQUIPMENT

Pumptrk 20 No. Cementer Helper Rick

Bulktrk 9 No. Driver Driver Chad

Bulktrk PU No. Driver Driver Brett

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Cement Circulated!!

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 Gary Jr & Associates

Street

City State

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

Cement Amount Ordered 250 com 3% cc 2% Gel

Common	250
Poz. Mix	
Gel.	5
Calcium	9
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	264
Mileage	9 6/4

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	-1
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface
Mileage	51
Tax	
Discount	
Total Charge	

X Signature Anthony Mart

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 **Home Office P.O. Box 32 Russell, KS 67665** **No.** 1164

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-18-15	27	5	35	Rawlins	KS		1030pm

Location Levant 14N to CL 2N 1½W Sinto

Lease Curry	Well No. 1-27	Owner	
Contractor Murfin	24	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job Plug		Charge To Samgary Jr & Associates	
Hole Size 7 7/8	T.D. 4750	Street	
Csg. D.P 4 1/2	Depth 2950	City	State
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Tool	Depth	Cement Amount Ordered 255 60/40 4% gel ¼ #flow	
Cement Left in Csg.	Shoe Joint		
Meas Line	Displace Mud/water		

EQUIPMENT

Pumptrk 5	No.	Cementer	Brett
		Helper	
Bulktrk 14	No.	Driver	Chad
		Driver	
Bulktrk 7 m	No.	Driver	Billy
		Driver	

JOB SERVICES & REMARKS

Remarks:	
Rat Hole	
Mouse Hole	
Centralizers	
Baskets	
D/V or Port Collar	
1st 2950' 50sk	
2nd 2200' 100sk	
3rd 440' 50sk	
4th 40' 100sk	
Rat 30sk	
mouse 15sks	

Common	153
Poz. Mix	102
Gel.	9
Calcium	
Hulls	
Salt	
Flowseal	60#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	264
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
wood Plug	
Pumptrk Charge	plug
Mileage 51	plug
Tax	
Discount	
Total Charge	

X Signature Anthony Martin

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates, Inc.

1515 Wynkoop STE 700
Denver, CO 80202

ATTN: Chris Mitchell

27/5s/35w Rawlins KS

Curry #1-27

Job Ticket: 62186 **DST#: 1**

Test Start: 2015.06.15 @ 00:03:00

GENERAL INFORMATION:

Formation: **Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:52:30
Time Test Ended: 09:30:45

Test Type: Conventional Bottom Hole (Initial)
Tester: James Winder
Unit No: 83

Interval: 4057.00 ft (KB) To 4097.00 ft (KB) (TVD)
Total Depth: 4097.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

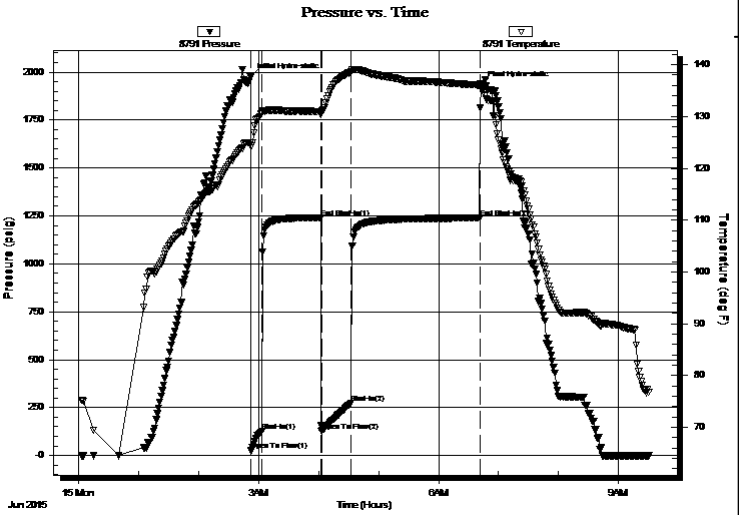
Reference Elevations: 3281.00 ft (KB)
3276.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8791 **Inside**

Press@RunDepth: 273.70 psig @ 4058.00 ft (KB)
Start Date: 2015.06.15 End Date: 2015.06.15
Start Time: 00:03:05 End Time: 09:30:45

Capacity: 8000.00 psig
Last Calib.: 2015.06.15
Time On Btm: 2015.06.15 @ 02:52:15
Time Off Btm: 2015.06.15 @ 06:42:00

TEST COMMENT: 10 - IF: Blow built to BOB (11") in 9 1/4 min.
60 - ISI: No blow back
30 - FF: Blow built to BOB at 11 min.
120 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1973.81	124.90	Initial Hydro-static
1	25.11	124.24	Open To Flow (1)
11	125.89	130.74	Shut-In(1)
70	1241.23	130.98	End Shut-In(1)
71	126.94	130.67	Open To Flow (2)
101	273.70	138.59	Shut-In(2)
229	1239.12	136.05	End Shut-In(2)
230	1930.93	135.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
425.00	MCW 86%w , 14%m	4.35
125.00	MW 50%w , 50%m	1.75
30.00	SWCM 98%m, 2%w	0.42

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates, Inc.

1515 Wynkoop STE 700
Denver, CO 80202

ATTN: Chris Mitchell

27/5s/35w Rawlins KS

Curry #1-27

Job Ticket: 62186 **DST#: 1**

Test Start: 2015.06.15 @ 00:03:00

GENERAL INFORMATION:

Formation: **Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:52:30
Time Test Ended: 09:30:45

Test Type: Conventional Bottom Hole (Initial)
Tester: James Winder
Unit No: 83

Interval: 4057.00 ft (KB) To 4097.00 ft (KB) (TVD)
Total Depth: 4097.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

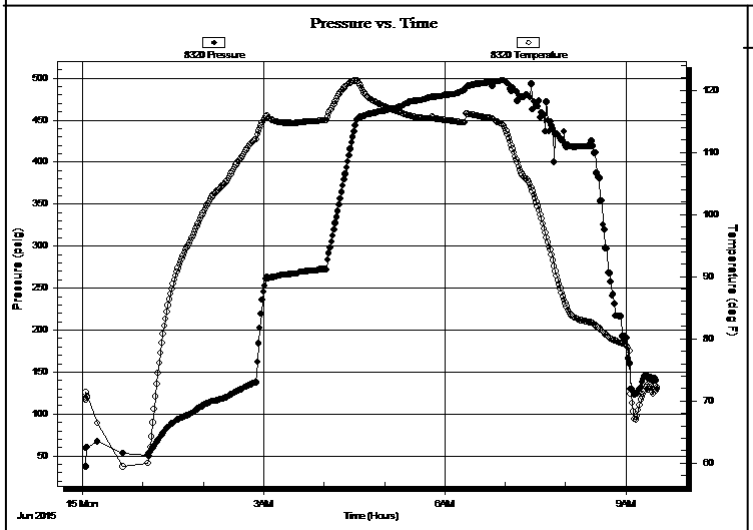
Reference Elevations: 3281.00 ft (KB)
3276.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8320 **Fluid**

Press@RunDepth: psig @ 4025.00 ft (KB)
Start Date: 2015.06.15 End Date: 2015.06.15
Start Time: 00:03:05 End Time: 09:31:15

Capacity: 8000.00 psig
Last Calib.: 2015.06.15
Time On Btm:
Time Off Btm:

TEST COMMENT: 10 - IF: Blow built to BOB (11") in 9 1/4 min.
60 - ISI: No blow back
30 - FF: Blow built to BOB at 11 min.
120 - FSI: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
425.00	MCW 86%w , 14%m	4.35
125.00	MW 50%w , 50%m	1.75
30.00	SWCM 98%m, 2%w	0.42

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates, Inc.

1515 Wynkoop STE 700
Denver, CO 80202

ATTN: Chris Mitchell

27/5s/35w Rawlins KS

Curry #1-27

Job Ticket: 62186 **DST#: 1**

Test Start: 2015.06.15 @ 00:03:00

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:	27000 ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
425.00	MCW 86%w , 14%m	4.349
125.00	MW 50%w , 50%m	1.753
30.00	SWCM 98%m, 2%w	0.421

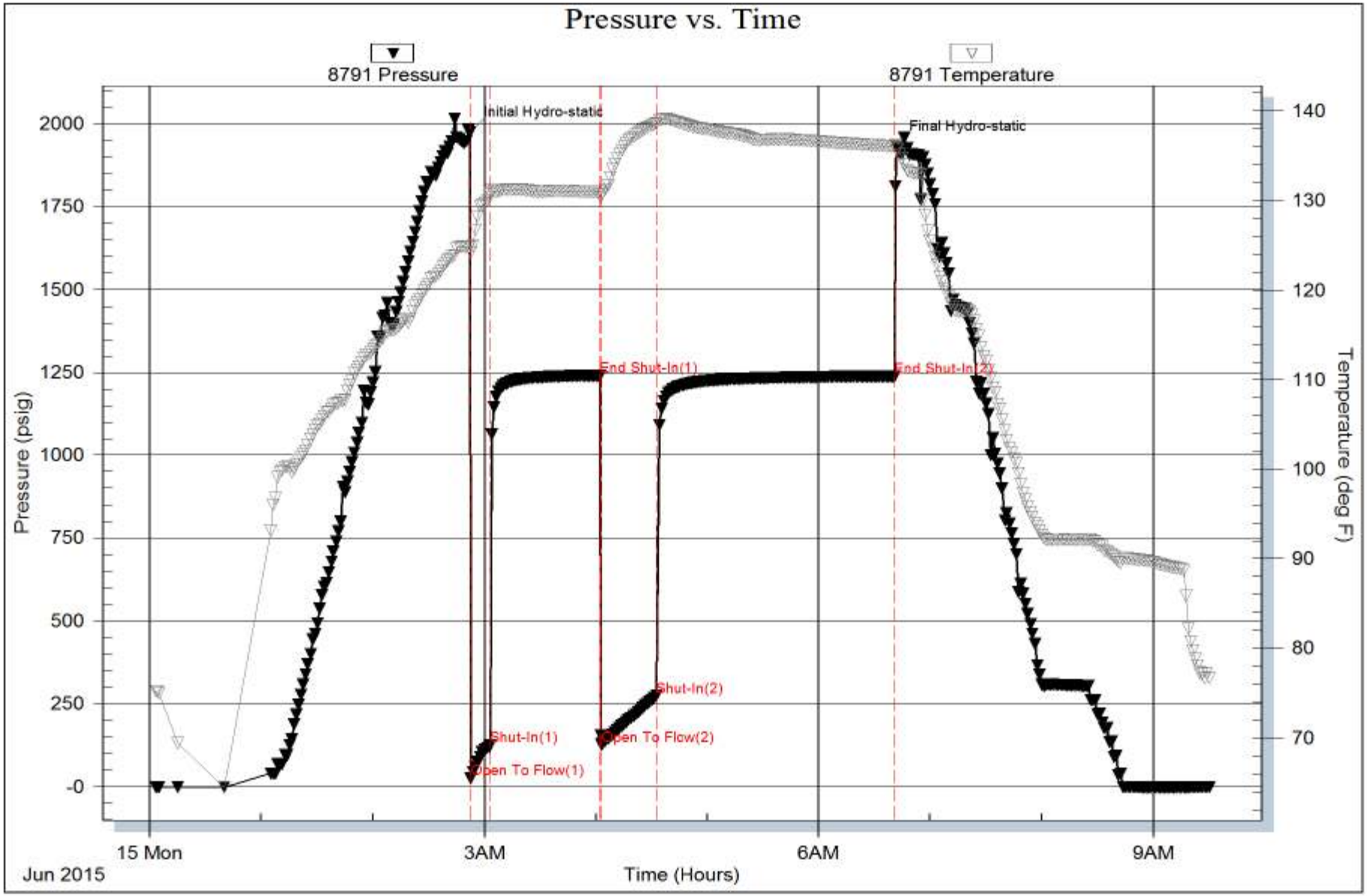
Total Length: 580.00 ft Total Volume: 6.523 bbl

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

Laboratory Name: Laboratory Location:

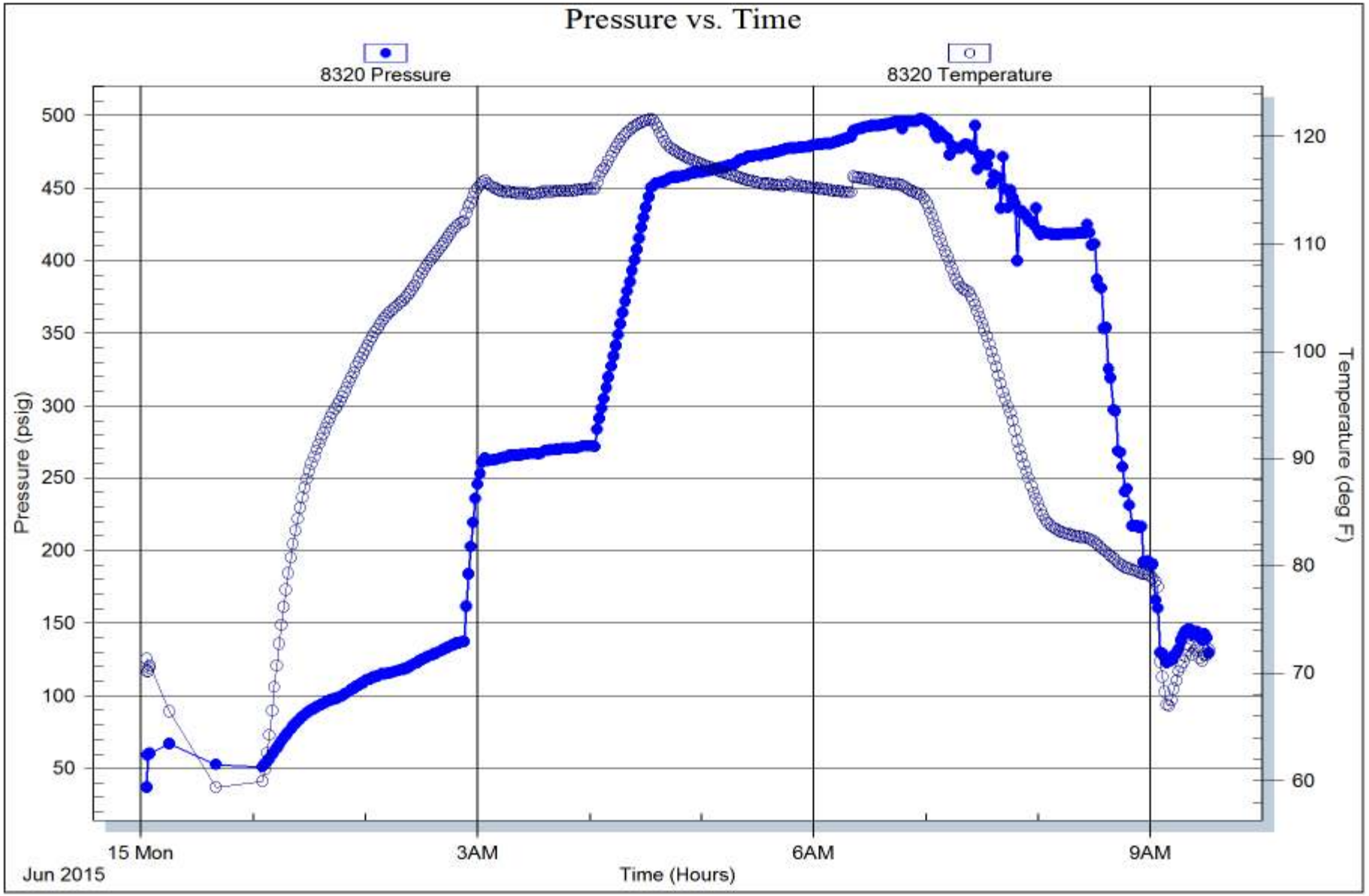
Recovery Comments: RW = .242 ohms @ 76.3 deg F
Chlorides = 27000 ppm

Serial #: 8791 **Inside** Samuel Gary Jr & Associates, Inc. Curry #1-27 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 62186 Printed: 2015.06.15 @ 10:26:37

Serial #: 8320 **Fluid** Samuel Gary Jr & Associates, Inc. Curry #1-27 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 62186 Printed: 2015.06.15 @ 10:26:37

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates, Inc.

1515 Wynkoop STE 700
Denver, CO 80202

ATTN: Chris Mitchell

27/5s/35w Rawlins KS

Curry #1-27

Job Ticket: 62187 **DST#: 2**

Test Start: 2015.06.17 @ 01:30:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:16:30
Time Test Ended: 09:53:45

Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder
Unit No: 83

Interval: 4464.00 ft (KB) To 4490.00 ft (KB) (TVD)
Total Depth: 4490.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

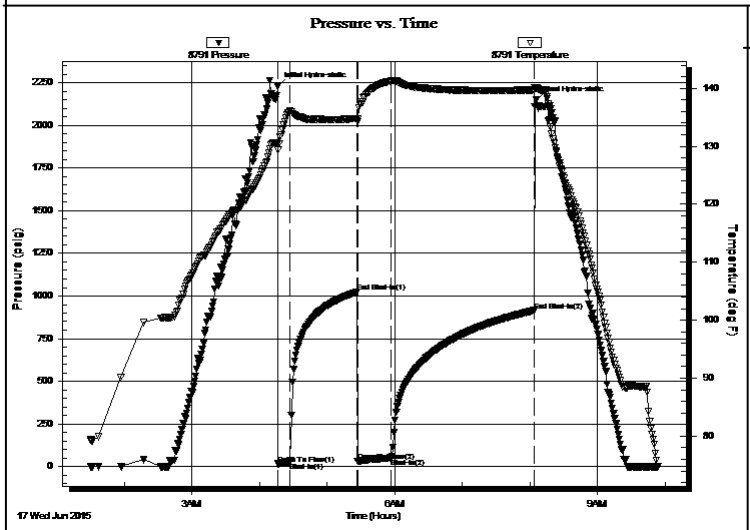
Reference Elevations: 3281.00 ft (KB)
3276.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8791 **Inside**

Press@RunDepth: 51.01 psig @ 4465.00 ft (KB)
Start Date: 2015.06.17 End Date: 2015.06.17
Start Time: 01:30:05 End Time: 09:53:44

Capacity: 8000.00 psig
Last Calib.: 2015.06.17
Time On Btm: 2015.06.17 @ 04:16:15
Time Off Btm: 2015.06.17 @ 08:05:15

TEST COMMENT: 10 - IF: Blow built to just under 2"
60 - ISI: No blow back
30 - FF: Blow started at 3 min., built to 1"
120 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2228.08	130.45	Initial Hydro-static
1	16.14	129.38	Open To Flow (1)
11	27.32	136.04	Shut-In(1)
71	1023.89	134.78	End Shut-In(1)
71	30.14	134.26	Open To Flow (2)
101	51.01	141.26	Shut-In(2)
228	914.88	139.71	End Shut-In(2)
229	2148.07	140.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	MCW w/trace oil 65%w , 35%m	0.39

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates, Inc.

1515 Wynkoop STE 700
Denver, CO 80202

ATTN: Chris Mitchell

27/5s/35w Rawlins KS

Curry #1-27

Job Ticket: 62187 **DST#: 2**

Test Start: 2015.06.17 @ 01:30:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:16:30
Time Test Ended: 09:53:45

Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder
Unit No: 83

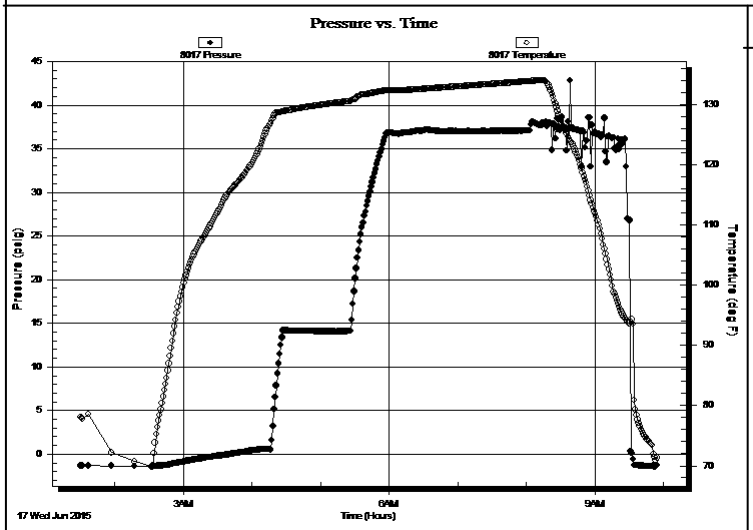
Interval: 4464.00 ft (KB) To 4490.00 ft (KB) (TVD)
Total Depth: 4490.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3281.00 ft (KB)
3276.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8017 **Fluid**
Press@RunDepth: psig @ 4432.00 ft (KB)
Start Date: 2015.06.17 End Date: 2015.06.17
Start Time: 01:30:05 End Time: 09:54:14

Capacity: 8000.00 psig
Last Calib.: 2015.06.17
Time On Btm:
Time Off Btm:

TEST COMMENT: 10 - IF: Blow built to just under 2"
60 - ISI: No blow back
30 - FF: Blow started at 3 min., built to 1"
120 - FSI: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
80.00	MCW w/trace oil 65%w , 35%m	0.39

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates, Inc.

1515 Wynkoop STE 700
Denver, CO 80202

ATTN: Chris Mitchell

27/5s/35w Rawlins KS

Curry #1-27

Job Ticket: 62187 **DST#: 2**

Test Start: 2015.06.17 @ 01:30:00

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:	20000 ppm
Viscosity:	63.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	MCW w/trace oil 65%w, 35%m	0.393

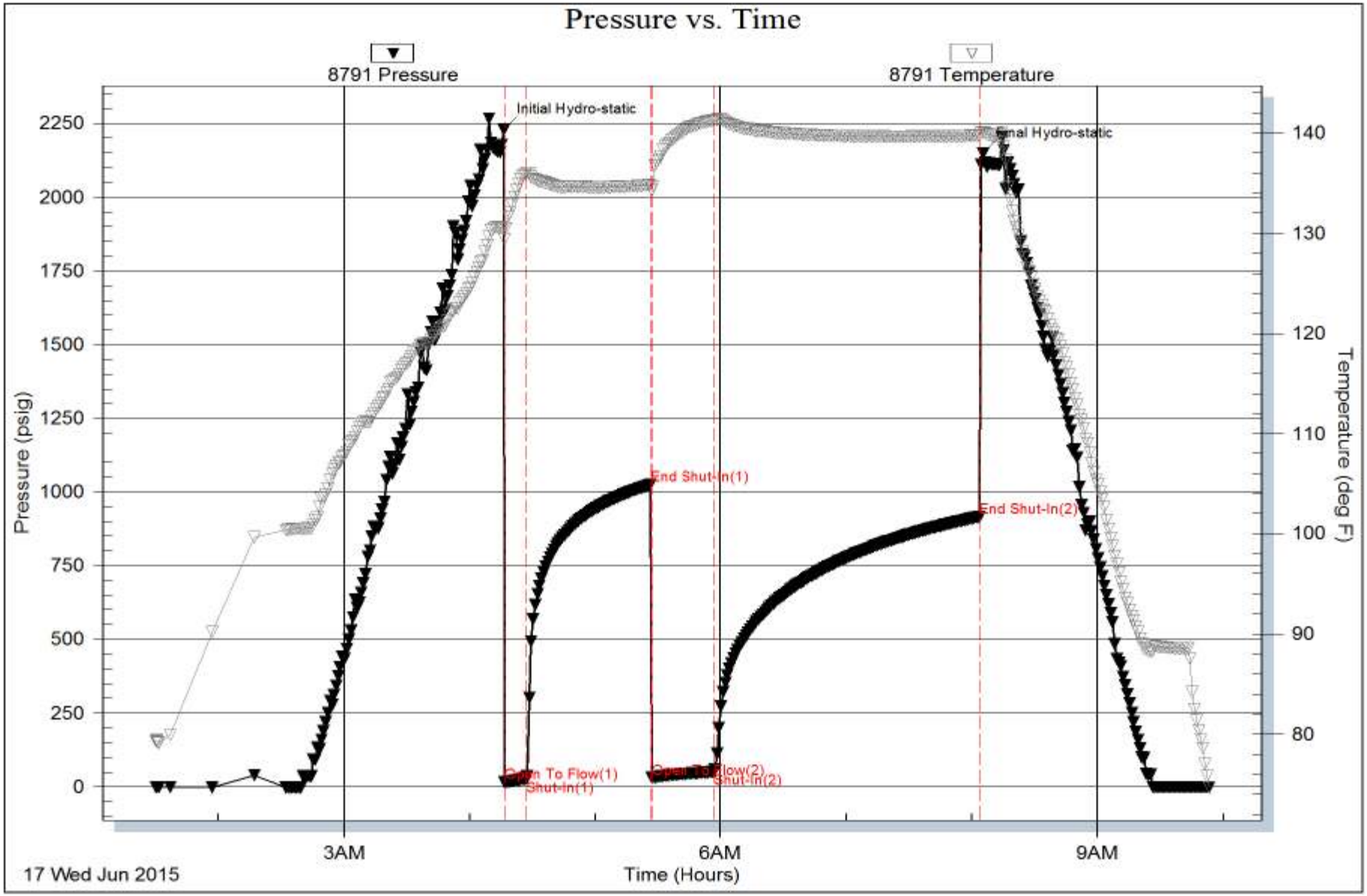
Total Length: 80.00 ft Total Volume: 0.393 bbl

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

Laboratory Name: Laboratory Location:

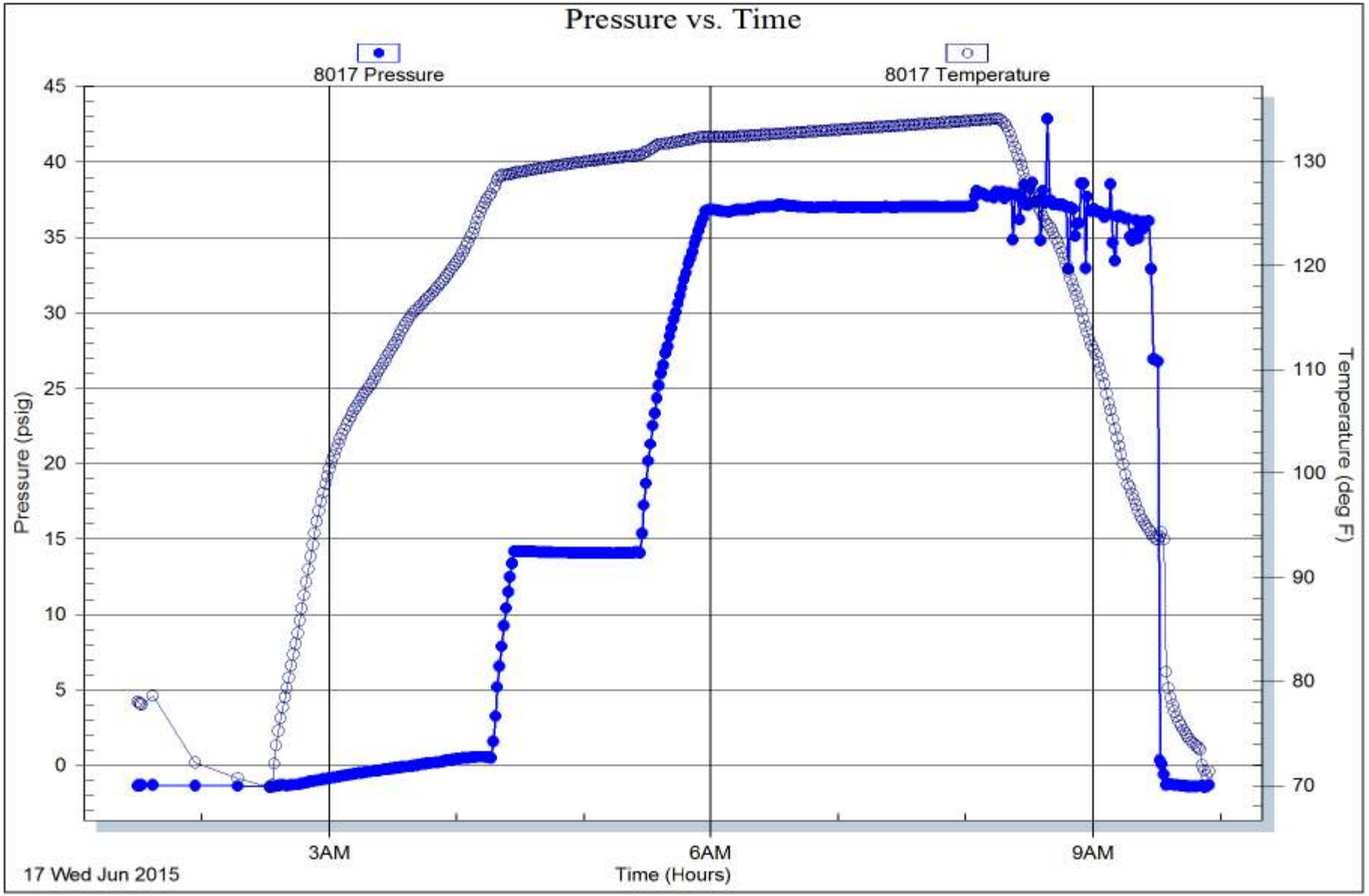
Recovery Comments: RW = .355 ohms @ 66.8 deg F
Chlorides = 20,000 ppm

Serial #: 8791 **Inside** Samuel Gary Jr & Associates, Inc. Curry #1-27 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 62187 Printed: 2015.06.17 @ 10:54:57

Serial #: 8017 **Fluid** Samuel Gary Jr & Associates, Inc. Curry #1-27 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 62187 Printed: 2015.06.17 @ 10:54:58

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

Well Name:	Curry 1-27		
Well Id:			
Location:	SEC. 27-5S-35W	RAWLINS COUNTY, KANSAS	
License Number:	15-153-21150-0000	Region:	WILDCAT
Spud Date:	6/10/2015	Drilling Completed:	6/18/2015
Surface Coordinates:	600' FNL/ 2310' FEL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	3276'	K.B. Elevation (ft):	3281'
Logged Interval (ft):	3950' To: 4750'	Total Depth (ft):	4750'
Formation:	Lansing, Kansas City, Pawnee, Cherokee		
Type of Drilling Fluid:	Natural Chemical		

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OPERATOR

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Geo: Chris Mitchell

GEOLOGIST

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Company: Earth Tech OGL, Inc.
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Hooker, Okla . 73945
Off. 888-543-8378 Cell: 580-754-0221

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Samuel Gary Jr & Associates, Inc.

1515 Wynkoop STE 700
Denver, CO 80202

ATTN: Chris Mitchell

27/5s/35w Rawlins KS

Curry #1-27

Job Ticket: 62186 **DST#: 1**

Test Start: 2015.06.15 @ 00:03:00

GENERAL INFORMATION:

Formation: **Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:52:30
Time Test Ended: 09:30:45

Test Type: Conventional Bottom Hole (Initial)
Tester: James Winder
Unit No: 83

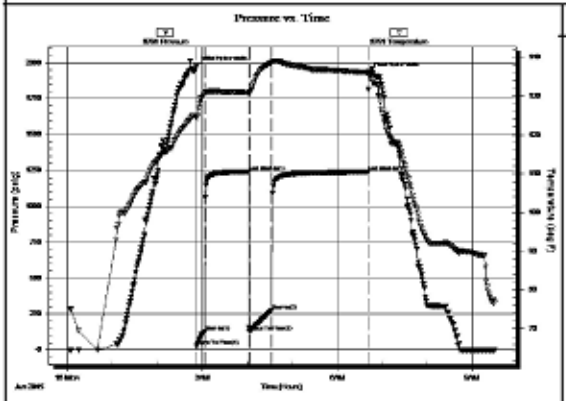
Interval: 4057.00 ft (KB) To 4097.00 ft (KB) (TVD)
Total Depth: 4097.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3281.00 ft (KB)
3276.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8791 **Inside**
Press@RunDepth: 273.70 psig @ 4058.00 ft (KB)
Start Date: 2015.06.15 End Date: 2015.06.15
Start Time: 00:03:05 End Time: 09:30:45

Capacity: 8000.00 psig
Last Calib.: 2015.06.15
Time On Btm: 2015.06.15 @ 02:52:15
Time Off Btm: 2015.06.15 @ 06:42:00

TEST COMMENT: 10 - IF: Blow built to BOB (11") in 9 1/4 min.
60 - ISI: No blow back
30 - FF: Blow built to BOB at 11 min.
120 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1973.81	124.90	Initial Hydro-static
1	25.11	124.24	Open To Flow (1)
11	125.89	130.74	Shut-In(1)
70	1241.23	130.98	End Shut-In(1)
71	126.94	130.67	Open To Flow (2)
101	273.70	138.59	Shut-In(2)
229	1239.12	136.05	End Shut-In(2)
230	1930.93	135.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
425.00	MCW 86%w , 14%m	4.35
125.00	MW 50%w , 50%m	1.75
30.00	SWCM 98%m, 2%w	0.42

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates, Inc.

1515 Wynkoop STE 700
Denver, CO 80202

ATTN: Chris Mitchell

27/5s/35w Rawlins KS

Curry #1-27

Job Ticket: 62187 **DST#: 2**

Test Start: 2015.06.17 @ 01:30:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:16:30
Time Test Ended: 09:53:45

Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder
Unit No: 83

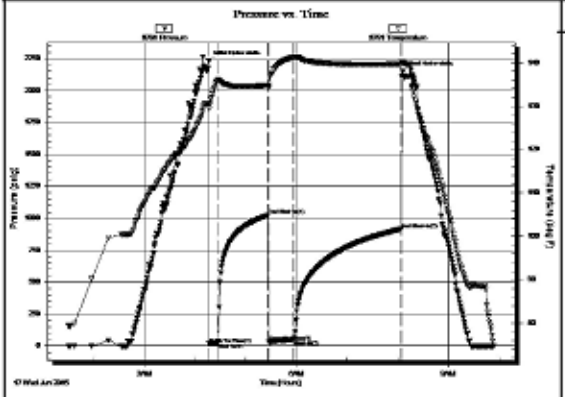
Interval: 4464.00 ft (KB) To 4490.00 ft (KB) (TVD)
Total Depth: 4490.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3281.00 ft (KB)
3276.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8791 **Inside**
Press@RunDepth: 51.01 psig @ 4465.00 ft (KB)
Start Date: 2015.06.17 End Date: 2015.06.17
Start Time: 01:30:05 End Time: 09:53:44

Capacity: 8000.00 psig
Last Calib.: 2015.06.17
Time On Btm: 2015.06.17 @ 04:16:15
Time Off Btm: 2015.06.17 @ 08:05:15

TEST COMMENT: 10 - IF: Blow built to just under 2"
60 - ISI: No blow back
30 - FF: Blow started at 3 min., built to 1"
120 - FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2228.08	130.45	Initial Hydro-static
1	16.14	129.38	Open To Flow (1)
11	27.32	136.04	Shut-In(1)
71	1023.89	134.78	End Shut-In(1)
71	30.14	134.26	Open To Flow (2)
101	51.01	141.26	Shut-In(2)
228	914.88	139.71	End Shut-In(2)
229	2148.07	140.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	MCW w /trace oil 65%w , 35%m	0.39

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

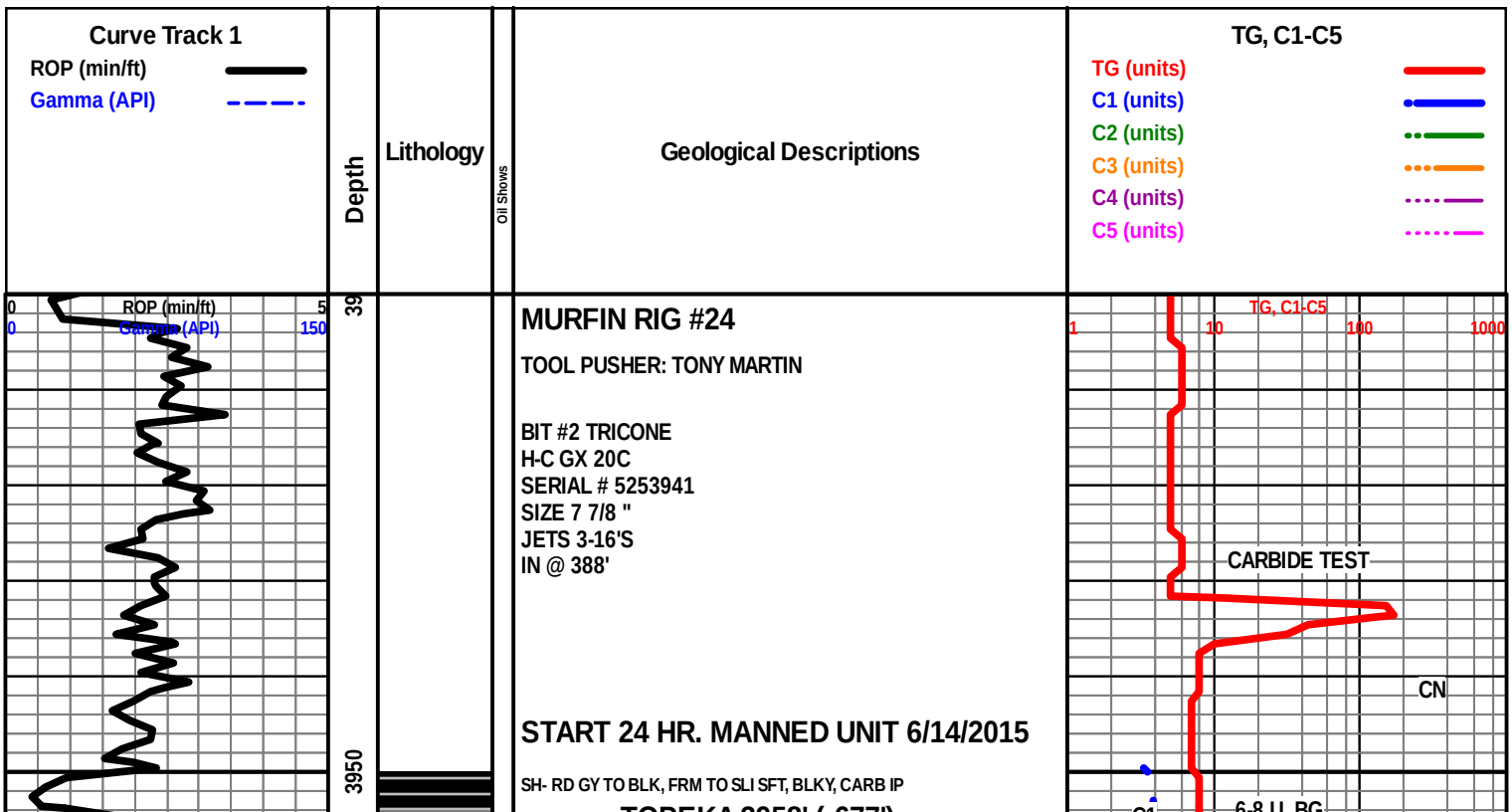
SORTING
- Well
- Moderate
- Poor

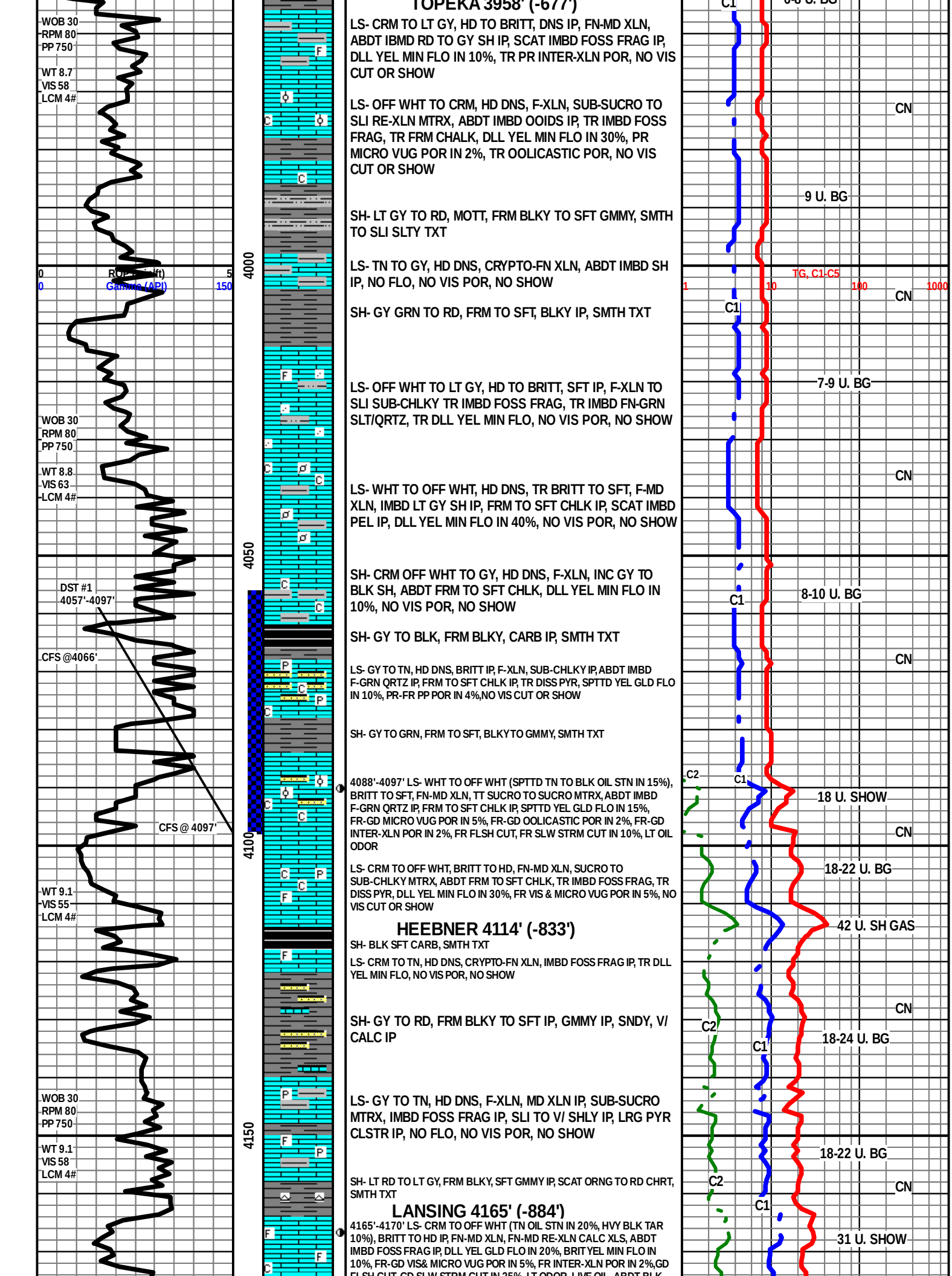
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

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

INTERVALS
- Core
- Dst
- Dst

EVENTS
- Rft
- Sidewall

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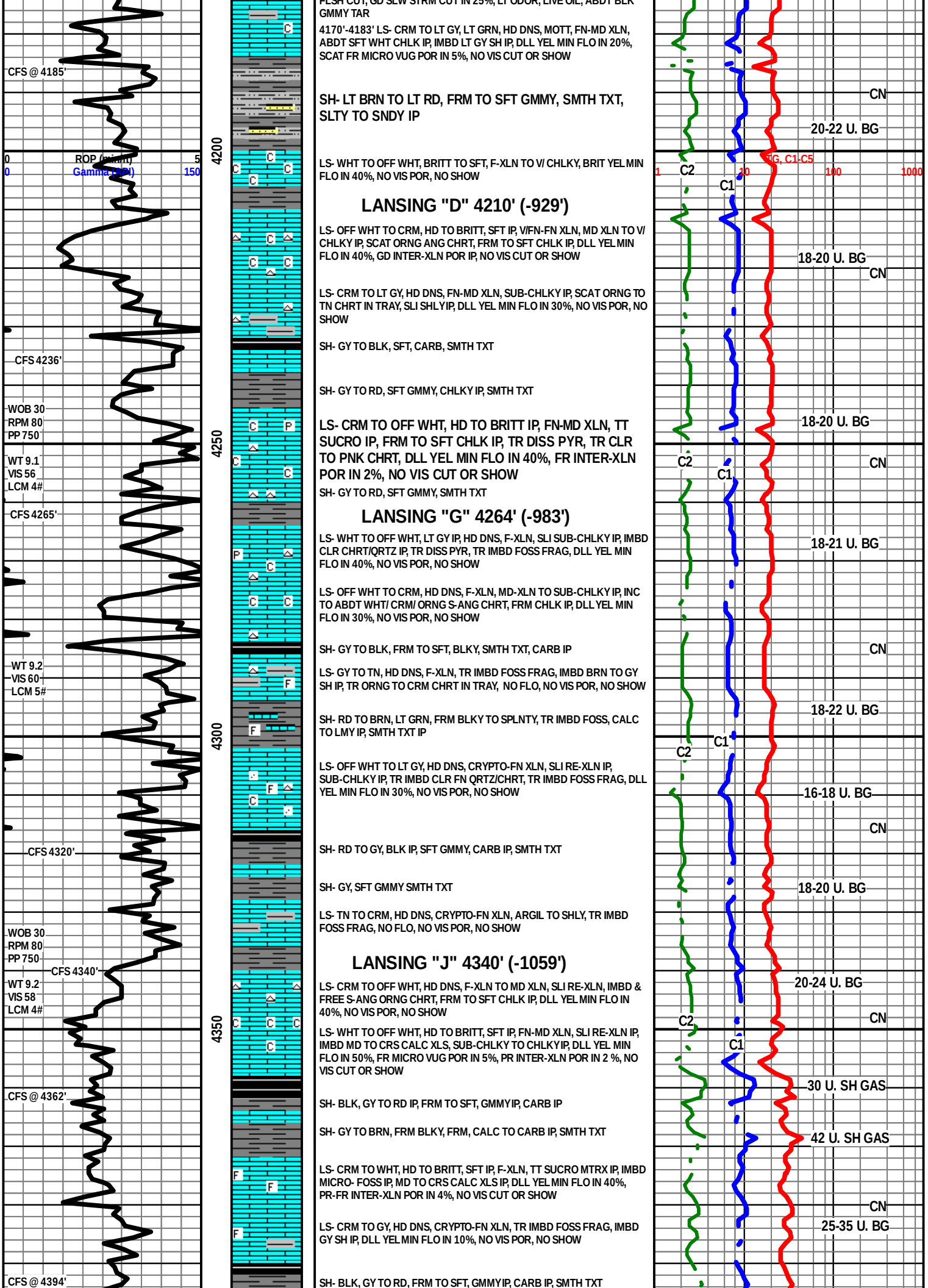
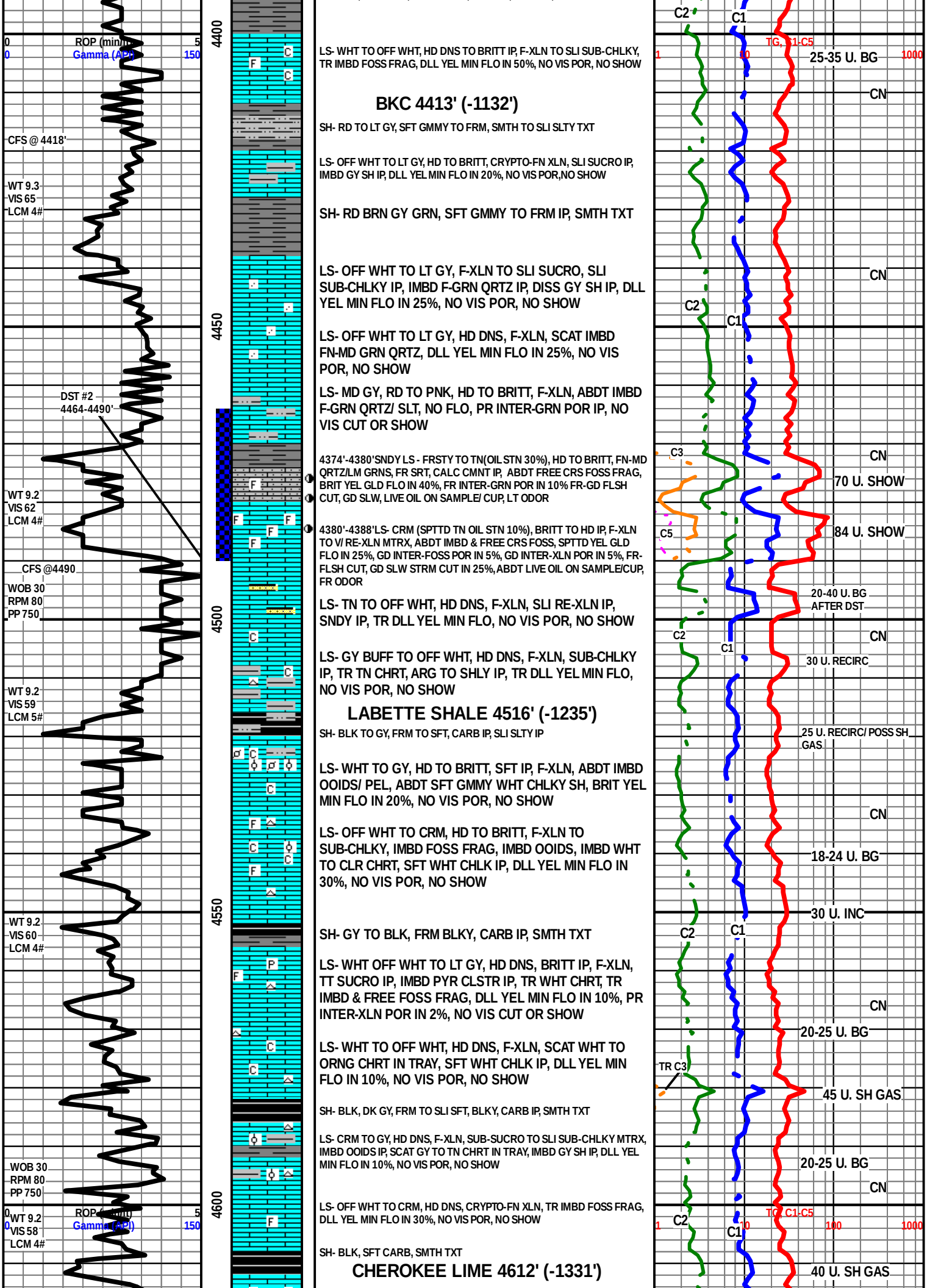
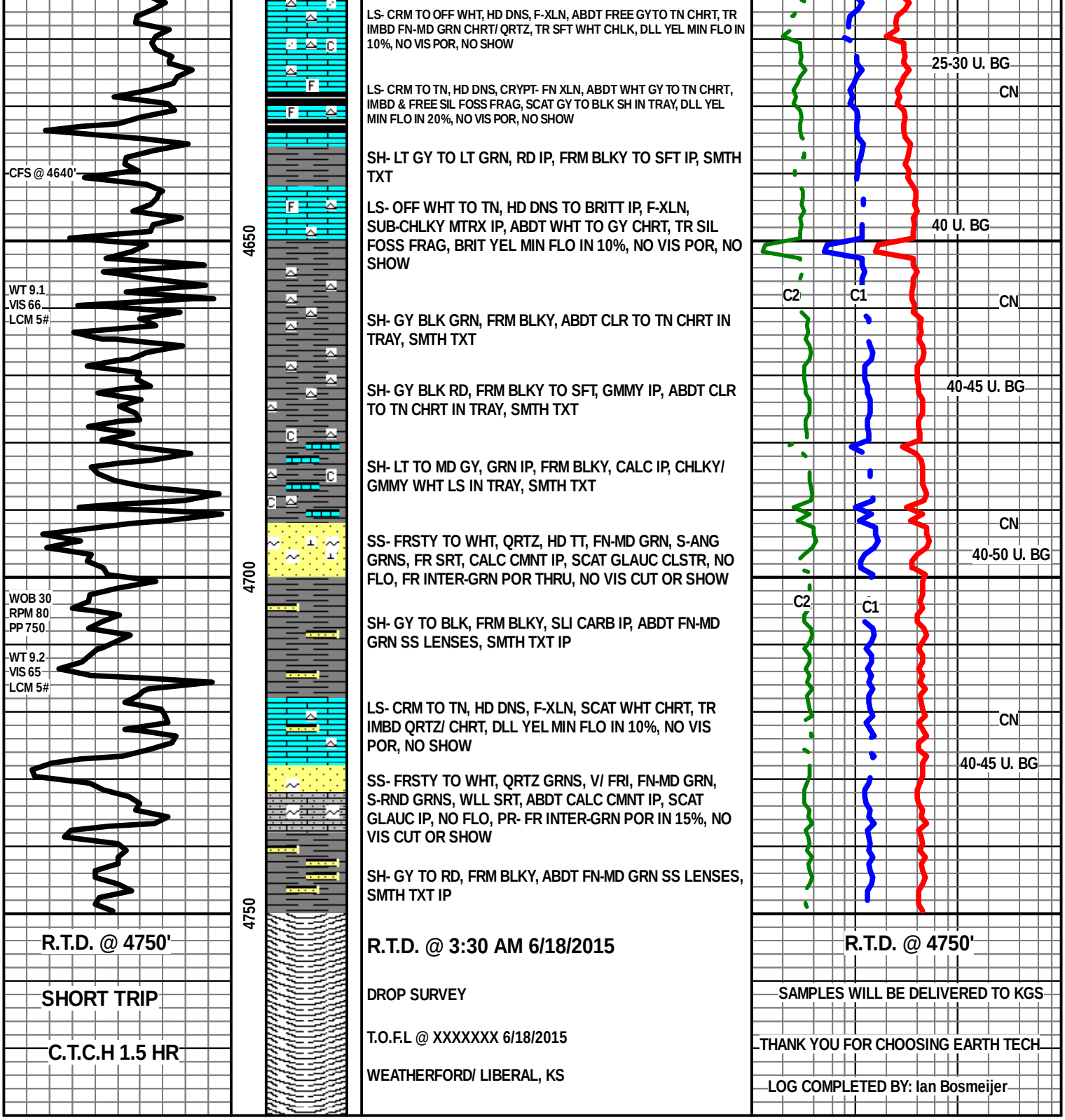
RPM 80
PP 750
WT 8.7
VIS 58
LCM 4#
0
Gamma (API)
150
4000
WOB 30
RPM 80
PP 750
WT 8.8
VIS 63
LCM 4#
4050
DST #1
4057'-4097'
CFS @4066'
CFS @ 4097'
4100
WT 9.1
VIS 55
LCM 4#
WOB 30
RPM 80
PP 750
WT 9.1
VIS 58
LCM 4#
4150
TOPEKA 3958' (-677')
LS- CRM TO LT GY, HD TO BRITT, DNS IP, FN-MD XLN, ABDT IBMD RD TO GY SH IP, SCAT IMBD FOSS FRAG IP, DLL YEL MIN FLO IN 10%, TR PR INTER-XLN POR, NO VIS CUT OR SHOW
LS- OFF WHT TO CRM, HD DNS, F-XLN, SUB-SUCRO TO SLI RE-XLN MTRX, ABDT IMBD OOIDS IP, TR IMBD FOSS FRAG, TR FRM CHALK, DLL YEL MIN FLO IN 30%, PR MICRO VUG POR IN 2%, TR OOLICASTIC POR, NO VIS CUT OR SHOW
SH- LT GY TO RD, MOTT, FRM BLKY TO SFT GMMY, SMTH TO SLI SLTY TXT
LS- TN TO GY, HD DNS, CRYPTO-FN XLN, ABDT IMBD SH IP, NO FLO, NO VIS POR, NO SHOW
SH- GY GRN TO RD, FRM TO SFT, BLKY IP, SMTH TXT
LS- OFF WHT TO LT GY, HD TO BRITT, SFT IP, F-XLN TO SLI SUB-CHLKY TR IMBD FOSS FRAG, TR IMBD FN-GRN SLT/QRTZ, TR DLL YEL MIN FLO, NO VIS POR, NO SHOW
LS- WHT TO OFF WHT, HD DNS, TR BRITT TO SFT, F-MD XLN, IMBD LT GY SH IP, FRM TO SFT CHLK IP, SCAT IMBD PEL IP, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW
SH- CRM OFF WHT TO GY, HD DNS, F-XLN, INC GY TO BLK SH, ABDT FRM TO SFT CHLK, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
SH- GY TO BLK, FRM BLKY, CARB IP, SMTH TXT
LS- GY TO TN, HD DNS, BRITT IP, F-XLN, SUB-CHLKY IP, ABDT IMBD F-GRN QRTZ IP, FRM TO SFT CHLK IP, TR DISS PYR, SPTTD YEL GLD FLO IN 10%, PR-FR PP POR IN 4%,NO VIS CUT OR SHOW
SH- GY TO GRN, FRM TO SFT, BLKY TO GMMY, SMTH TXT
4088'-4097' LS- WHT TO OFF WHT (SPTTD TN TO BLK OIL STN IN 15%), BRITT TO SFT, FN-MD XLN, TT SUCRO TO SUCRO MTRX, ABDT IMBD F-GRN QRTZ IP, FRM TO SFT CHLK IP, SPTTD YEL GLD FLO IN 15%, FR-GD MICRO VUG POR IN 5%, FR-GD OOLICASTIC POR IN 2%, FR-GD INTER-XLN POR IN 2%, FR FLSH CUT, FR SLW STRM CUT IN 10%, LT OIL ODOR
LS- CRM TO OFF WHT, BRITT TO HD, FN-MD XLN, SUCRO TO SUB-CHLKY MTRX, ABDT FRM TO SFT CHLK, TR IMBD FOSS FRAG, TR DISS PYR, DLL YEL MIN FLO IN 30%, FR VIS & MICRO VUG POR IN 5%, NO VIS CUT OR SHOW
HEEBNER 4114' (-833')
SH- BLK SFT CARB, SMTH TXT
LS- CRM TO TN, HD DNS, CRYPTO-FN XLN, IMBD FOSS FRAG IP, TR DLL YEL MIN FLO, NO VIS POR, NO SHOW
SH- GY TO RD, FRM BLKY TO SFT IP, GMMY IP, SNDY, V/ CALC IP
LS- GY TO TN, HD DNS, F-XLN, MD XLN IP, SUB-SUCRO MTRX, IMBD FOSS FRAG IP, SLI TO V/ SHLY IP, LRG PYR CLSTR IP, NO FLO, NO VIS POR, NO SHOW
SH- LT RD TO LT GY, FRM BLKY, SFT GMMY IP, SCAT ORNG TO RD CHRT, SMTH TXT
LANSING 4165' (-884')
4165'-4170' LS- CRM TO OFF WHT (TN OIL STN IN 20%, HVY BLK TAR 10%), BRITT TO HD IP, FN-MD XLN, FN-MD RE-XLN CALC XLS, ABDT IMBD FOSS FRAG IP, DLL YEL GLD FLO IN 20%, BRIT YEL MIN FLO IN 10%, FR-GD VIS& MICRO VUG POR IN 5%, FR INTER-XLN POR IN 2%,GD
C1
6-8 U. BG
CN
9 U. BG
TG, C1-C5
1
10
100
1000
CN
C1
7-9 U. BG
CN
C1
8-10 U. BG
CN
C2
C1
18 U. SHOW
CN
18-22 U. BG
42 U. SH GAS
CN
C2
C1
18-24 U. BG
18-22 U. BG
C2
CN
C1
31 U. SHOW


CFS @ 4185'
0
ROP (min/ft)
5
0
Gamma (API)
150
4200
CFS 4236'
WOB 30
RPM 80
PP 750
WT 9.1
VIS 56
LCM 4#
4250
CFS 4265'
WT 9.2
VIS 60
LCM 5#
4300
CFS 4320'
WOB 30
RPM 80
PP 750
CFS 4340'
WT 9.2
VIS 58
LCM 4#
4350
CFS @ 4362'
CFS @ 4394'
FLSH CUT, GD SLW STRM CUT IN 25%, LT ODOR, LIVE OIL, ABDT BLK GMMY TAR
4170'-4183' LS- CRM TO LT GY, LT GRN, HD DNS, MOTT, FN-MD XLN, ABDT SFT WHT CHLK IP, IMBD LT GY SH IP, DLL YEL MIN FLO IN 20%, SCAT FR MICRO VUG POR IN 5%, NO VIS CUT OR SHOW
SH- LT BRN TO LT RD, FRM TO SFT GMMY, SMTH TXT, SLTY TO SNDY IP
LS- WHT TO OFF WHT, BRITT TO SFT, F-XLN TO V/ CHLKY, BRIT YEL MIN FLO IN 40%, NO VIS POR, NO SHOW
LANSING "D" 4210' (-929')
LS- OFF WHT TO CRM, HD TO BRITT, SFT IP, V/FN-FN XLN, MD XLN TO V/ CHLKY IP, SCAT ORNG ANG CHRT, FRM TO SFT CHLK IP, DLL YEL MIN FLO IN 40%, GD INTER-XLN POR IP, NO VIS CUT OR SHOW
LS- CRM TO LT GY, HD DNS, FN-MD XLN, SUB-CHLKY IP, SCAT ORNG TO TN CHRT IN TRAY, SLI SHLY IP, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW
SH- GY TO BLK, SFT, CARB, SMTH TXT
SH- GY TO RD, SFT GMMY, CHLKY IP, SMTH TXT
LS- CRM TO OFF WHT, HD TO BRITT IP, FN-MD XLN, TT SUCRO IP, FRM TO SFT CHLK IP, TR DISS PYR, TR CLR TO PNK CHRT, DLL YEL MIN FLO IN 40%, FR INTER-XLN POR IN 2%, NO VIS CUT OR SHOW
SH- GY TO RD, SFT GMMY, SMTH TXT
LANSING "G" 4264' (-983')
LS- WHT TO OFF WHT, LT GY IP, HD DNS, F-XLN, SLI SUB-CHLKY IP, IMBD CLR CHRT/QRTZ IP, TR DISS PYR, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW
LS- OFF WHT TO CRM, HD DNS, F-XLN, MD-XLN TO SUB-CHLKY IP, INC TO ABDT WHT/ CRM/ ORNG S-ANG CHRT, FRM CHLK IP, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW
SH- GY TO BLK, FRM TO SFT, BLKY, SMTH TXT, CARB IP
LS- GY TO TN, HD DNS, F-XLN, TR IMBD FOSS FRAG, IMBD BRN TO GY SH IP, TR ORNG TO CRM CHRT IN TRAY, NO FLO, NO VIS POR, NO SHOW
SH- RD TO BRN, LT GRN, FRM BLKY TO SPLNTY, TR IMBD FOSS, CALC TO LMY IP, SMTH TXT IP
LS- OFF WHT TO LT GY, HD DNS, CRYPTO-FN XLN, SLI RE-XLN IP, SUB-CHLKY IP, TR IMBD CLR FN QRTZ/CHRT, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW
SH- RD TO GY, BLK IP, SFT GMMY, CARB IP, SMTH TXT
SH- GY, SFT GMMY SMTH TXT
LS- TN TO CRM, HD DNS, CRYPTO-FN XLN, ARGIL TO SHLY, TR IMBD FOSS FRAG, NO FLO, NO VIS POR, NO SHOW
LANSING "J" 4340' (-1059')
LS- CRM TO OFF WHT, HD DNS, F-XLN TO MD XLN, SLI RE-XLN, IMBD & FREE S-ANG ORNG CHRT, FRM TO SFT CHLK IP, DLL YEL MIN FLO IN 40%, NO VIS POR, NO SHOW
LS- WHT TO OFF WHT, HD TO BRITT, SFT IP, FN-MD XLN, SLI RE-XLN IP, IMBD MD TO CRS CALC XLS, SUB-CHLKY TO CHLKY IP, DLL YEL MIN FLO IN 50%, FR MICRO VUG POR IN 5%, PR INTER-XLN POR IN 2 %, NO VIS CUT OR SHOW
SH- BLK, GY TO RD IP, FRM TO SFT, GMMY IP, CARB IP
SH- GY TO BRN, FRM BLKY, FRM, CALC TO CARB IP, SMTH TXT
LS- CRM TO WHT, HD TO BRITT, SFT IP, F-XLN, TT SUCRO MTRX IP, IMBD MICRO- FOSS IP, MD TO CRS CALC XLS IP, DLL YEL MIN FLO IN 40%, PR-FR INTER-XLN POR IN 4%, NO VIS CUT OR SHOW
LS- CRM TO GY, HD DNS, CRYPTO-FN XLN, TR IMBD FOSS FRAG, IMBD GY SH IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
SH- BLK, GY TO RD, FRM TO SFT, GMMY IP, CARB IP, SMTH TXT
TG, C1-C5
1
10
100
1000
C2
C1
CN
20-22 U. BG
18-20 U. BG
18-21 U. BG
18-22 U. BG
16-18 U. BG
20-24 U. BG
30 U. SH GAS
42 U. SH GAS
25-35 U. BG


0
ROP (min/ft)
5
0
Gamma (API)
150
CFS @ 4418'
WT 9.3
VIS 65
LCM 4#
DST #2
4464-4490'
WT 9.2
VIS 62
LCM 4#
CFS @4490
WOB 30
RPM 80
PP 750
WT 9.2
VIS 59
LCM 5#
WT 9.2
VIS 60
LCM 4#
WOB 30
RPM 80
PP 750
WT 9.2
VIS 58
LCM 4#
4400
4450
4500
4550
4600
LS- WHT TO OFF WHT, HD DNS TO BRITT IP, F-XLN TO SLI SUB-CHLKY, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 50%, NO VIS POR, NO SHOW
BKC 4413' (-1132')
SH- RD TO LT GY, SFT GMMY TO FRM, SMTH TO SLI SLTY TXT
LS- OFF WHT TO LT GY, HD TO BRITT, CRYPTO-FN XLN, SLI SUCRO IP, IMBD GY SH IP, DLL YEL MIN FLO IN 20%, NO VIS POR,NO SHOW
SH- RD BRN GY GRN, SFT GMMY TO FRM IP, SMTH TXT
LS- OFF WHT TO LT GY, F-XLN TO SLI SUCRO, SLI SUB-CHLKY IP, IMBD F-GRN QRTZ IP, DISS GY SH IP, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW
LS- OFF WHT TO LT GY, HD DNS, F-XLN, SCAT IMBD FN-MD GRN QRTZ, DLL YEL MIN FLO IN 25%, NO VIS POR, NO SHOW
LS- MD GY, RD TO PNK, HD TO BRITT, F-XLN, ABDT IMBD F-GRN QRTZ/ SLT, NO FLO, PR INTER-GRN POR IP, NO VIS CUT OR SHOW
4374'-4380'SNDY LS - FRSTY TO TN(OIL STN 30%), HD TO BRITT, FN-MD QRTZ/LM GRNS, FR SRT, CALC CMNT IP, ABDT FREE CRS FOSS FRAG, BRIT YEL GLD FLO IN 40%, FR INTER-GRN POR IN 10% FR-GD FLSH CUT, GD SLW, LIVE OIL ON SAMPLE/ CUP, LT ODOR
4380'-4388'LS- CRM (SPTTD TN OIL STN 10%), BRITT TO HD IP, F-XLN TO V/ RE-XLN MTRX, ABDT IMBD & FREE CRS FOSS, SPTTD YEL GLD FLO IN 25%, GD INTER-FOSS POR IN 5%, GD INTER-XLN POR IN 5%, FR-FLSH CUT, GD SLW STRM CUT IN 25%, ABDT LIVE OIL ON SAMPLE/CUP, FR ODOR
LS- TN TO OFF WHT, HD DNS, F-XLN, SLI RE-XLN IP, SNDY IP, TR DLL YEL MIN FLO, NO VIS POR, NO SHOW
LS- GY BUFF TO OFF WHT, HD DNS, F-XLN, SUB-CHLKY IP, TR TN CHRT, ARG TO SHLY IP, TR DLL YEL MIN FLO, NO VIS POR, NO SHOW
LABETTE SHALE 4516' (-1235')
SH- BLK TO GY, FRM TO SFT, CARB IP, SLI SLTY IP
LS- WHT TO GY, HD TO BRITT, SFT IP, F-XLN, ABDT IMBD OOIDS/ PEL, ABDT SFT GMMY WHT CHLKY SH, BRIT YEL MIN FLO IN 20%, NO VIS POR, NO SHOW
LS- OFF WHT TO CRM, HD TO BRITT, F-XLN TO SUB-CHLKY, IMBD FOSS FRAG, IMBD OOIDS, IMBD WHT TO CLR CHRT, SFT WHT CHLK IP, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW
SH- GY TO BLK, FRM BLKY, CARB IP, SMTH TXT
LS- WHT OFF WHT TO LT GY, HD DNS, BRITT IP, F-XLN, TT SUCRO IP, IMBD PYR CLSTR IP, TR WHT CHRT, TR IMBD & FREE FOSS FRAG, DLL YEL MIN FLO IN 10%, PR INTER-XLN POR IN 2%, NO VIS CUT OR SHOW
LS- WHT TO OFF WHT, HD DNS, F-XLN, SCAT WHT TO ORNG CHRT IN TRAY, SFT WHT CHLK IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
SH- BLK, DK GY, FRM TO SLI SFT, BLKY, CARB IP, SMTH TXT
LS- CRM TO GY, HD DNS, F-XLN, SUB-SUCRO TO SLI SUB-CHLKY MTRX, IMBD OOIDS IP, SCAT GY TO TN CHRT IN TRAY, IMBD GY SH IP, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
LS- OFF WHT TO CRM, HD DNS, CRYPTO-FN XLN, TR IMBD FOSS FRAG, DLL YEL MIN FLO IN 30%, NO VIS POR, NO SHOW
SH- BLK, SFT CARB, SMTH TXT
CHEROKEE LIME 4612' (-1331')
C2
C1
TG, C1-C5
1
10
100
1000
25-35 U. BG
CN
C3
70 U. SHOW
C5
84 U. SHOW
20-40 U. BG
AFTER DST
30 U. RECIRC
25 U. RECIRC/ POSS SH GAS
18-24 U. BG
30 U. INC
20-25 U. BG
TR C3
45 U. SH GAS
40 U. SH GAS


CFS @ 4640'
WT 9.1
VIS 66
LCM 5#
WOB 30
RPM 80
PP 750
WT 9.2
VIS 65
LCM 5#
4650
4700
4750
C
F
LS- CRM TO OFF WHT, HD DNS, F-XLN, ABDT FREE GYTO TN CHRT, TR IMBD FN-MD GRN CHRT/ QRTZ, TR SFT WHT CHLK, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
LS- CRM TO TN, HD DNS, CRYPT- FN XLN, ABDT WHT GY TO TN CHRT, IMBD & FREE SIL FOSS FRAG, SCAT GY TO BLK SH IN TRAY, DLL YEL MIN FLO IN 20%, NO VIS POR, NO SHOW
SH- LT GY TO LT GRN, RD IP, FRM BLKY TO SFT IP, SMTH TXT
LS- OFF WHT TO TN, HD DNS TO BRITT IP, F-XLN, SUB-CHLKY MTRX IP, ABDT WHT TO GY CHRT, TR SIL FOSS FRAG, BRIT YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
SH- GY BLK GRN, FRM BLKY, ABDT CLR TO TN CHRT IN TRAY, SMTH TXT
SH- GY BLK RD, FRM BLKY TO SFT, GMMY IP, ABDT CLR TO TN CHRT IN TRAY, SMTH TXT
SH- LT TO MD GY, GRN IP, FRM BLKY, CALC IP, CHLKY/ GMMY WHT LS IN TRAY, SMTH TXT
SS- FRSTY TO WHT, QRTZ, HD TT, FN-MD GRN, S-ANG GRNS, FR SRT, CALC CMNT IP, SCAT GLAUC CLSTR, NO FLO, FR INTER-GRN POR THRU, NO VIS CUT OR SHOW
SH- GY TO BLK, FRM BLKY, SLI CARB IP, ABDT FN-MD GRN SS LENSES, SMTH TXT IP
LS- CRM TO TN, HD DNS, F-XLN, SCAT WHT CHRT, TR IMBD QRTZ/ CHRT, DLL YEL MIN FLO IN 10%, NO VIS POR, NO SHOW
SS- FRSTY TO WHT, QRTZ GRNS, V/ FRI, FN-MD GRN, S-RND GRNS, WLL SRT, ABDT CALC CMNT IP, SCAT GLAUC IP, NO FLO, PR- FR INTER-GRN POR IN 15%, NO VIS CUT OR SHOW
SH- GY TO RD, FRM BLKY, ABDT FN-MD GRN SS LENSES, SMTH TXT IP
25-30 U. BG
CN
40 U. BG
C2
C1
CN
40-45 U. BG
CN
40-50 U. BG
C2
C1
CN
40-45 U. BG
R.T.D. @ 4750'
R.T.D. @ 3:30 AM 6/18/2015
R.T.D. @ 4750'
SHORT TRIP
C.T.C.H 1.5 HR
DROP SURVEY
T.O.F.L @ XXXXXXX 6/18/2015
WEATHERFORD/ LIBERAL, KS
SAMPLES WILL BE DELIVERED TO KGS
THANK YOU FOR CHOOSING EARTH TECH
LOG COMPLETED BY: Ian Bosmeijer