KOLAR Document ID: 1785968

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34089
Name: Agricultural Energy Services
Address 1: PO BOX 31865
Address 2:
City: EDMOND State: OK Zip: 73003 + 0032
Contact Person: Montgomery Escue
Phone: (405) 208-2096
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Tom Williams
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 #:

06/15/2024 Spud Date or Recompletion Date
06/27/2024 Date Reached TD
09/30/2024 Completion Date or Recompletion Date

API No.: 15-175-22293-00-00
Spot Description:
SW - NW - SE - SE Sec. 15 Twp. 33 S. R. 31 ☐ East ☑ West
856 Feet from ☐ North / ☑ South Line of Section
1212 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: Seward
Lease Name: LELIA MAY GEORGE Well #: 1-15
Field Name:
Producing Formation: Marmaton
Elevation: Ground: 2737 Kelly Bushing: 2750
Total Vertical Depth: 6086 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1612 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: 11900 ppm Fluid volume: 350 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Max's Water Service
Lease Name: IB Regier 1 License #: 34021
Quarter NE Sec. 17 Twp. 27 S. R. 33 ☐ East ☑ West
County: Meade Permit #: D21232.0

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: 10/04/2024
☐ **Confidential Release Date:** 10/04/2026
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Kelsey Cox **Date:** 11/20/2024

Operator Name: Agricultural Energy Services Lease Name: LELIA MAY GEORGE Well #: 1-15

Sec. 15 Twp. 33 S. R. 31 ☐ East ☑ West County: Seward

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
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:
Attached

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

Name	Top	Datum
Herrington	2590	+160
Heebner	4270	-1520
Marmaton	5010	-2268
Morrow	5490	-2740
Mississippi	5566	-2816
Ste Genevieve	5655	-2905
St Louis	5725	-2976

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	10.75	8.62	24	1612	Pozmix	765	N/A
Production	4.50	7.875	10.5	5219	Class A	225	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	-			
	-			

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: Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	5038	5042

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)*
2	5038	5042			treatment: 2- bbl 15% MCA

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	Agricultural Energy Services
Well Name	LELIA MAY GEORGE 1-15
Doc ID	1785968

All Electric Logs Run

PE
DIL
BHV
MEL
Sonic
Comp Nue/Den

Form	ACO1 - Well Completion
Operator	Agricultural Energy Services
Well Name	LELIA MAY GEORGE 1-15
Doc ID	1785968

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	10.75	8.62	24	1612	Pozmix	765	N/A
Production	4.50	7.875	10.5	5219	Class A	225	N/A



DRILL STEM TEST REPORT

Prepared For: **Agricultural Energy Services**

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

15-33s-31w Seward,KS

Lelia May George #1-15

Start Date: 2024.06.21 @ 17:42:00

End Date: 2024.06.22 @ 02:06:30

Job Ticket #: 71839 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.07.03 @ 12:34:35

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71839 **DST#: 1**

Test Start: 2024.06.21 @ 17:42:00

GENERAL INFORMATION:

Formation: **Swope**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:14:15
Time Test Ended: 02:06:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 78

Interval: 4884.00 ft (KB) To 4900.00 ft (KB) (TVD)
Total Depth: 4900.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

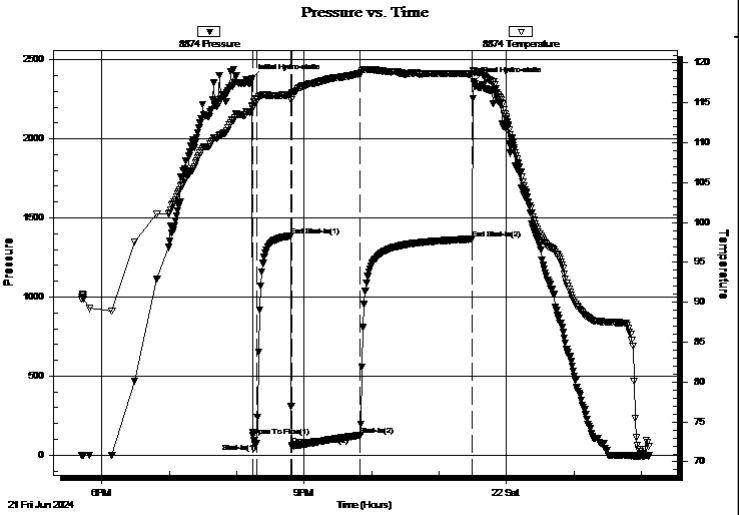
Reference Elevations: 2750.00 ft (KB)
2738.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8874 **Outside**

Press@RunDepth: 127.08 psig @ 4885.00 ft (KB)
Start Date: 2024.06.21 End Date: 2024.06.22
Start Time: 17:42:05 End Time: 02:06:29

Capacity: 8000.00 psig
Last Calib.: 2024.06.22
Time On Btm: 2024.06.21 @ 20:13:30
Time Off Btm: 2024.06.21 @ 23:31:00

TEST COMMENT: IF: BOB in 5 sec. 209"
ISI: No return.
FF: BOB @ open. Gas to surface @ 15 min.
FSI: 9" return. 5-30-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2377.76	114.67	Initial Hydro-static
1	121.79	114.25	Open To Flow (1)
5	73.07	115.51	Shut-In(1)
35	1386.24	116.02	End Shut-In(1)
36	63.44	116.18	Open To Flow (2)
97	127.08	118.70	Shut-In(2)
197	1366.21	118.66	End Shut-In(2)
198	2363.43	118.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gsomcw 15g 1o 39m 45w	1.68
120.00	mcw 3m 97w (oil spots)	1.68
0.00	Gas to surface	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71839 **DST#: 1**

Test Start: 2024.06.21 @ 17:42:00

GENERAL INFORMATION:

Formation: **Swope**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:14:15
Time Test Ended: 02:06:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 78

Interval: 4884.00 ft (KB) To 4900.00 ft (KB) (TVD)
Total Depth: 4900.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

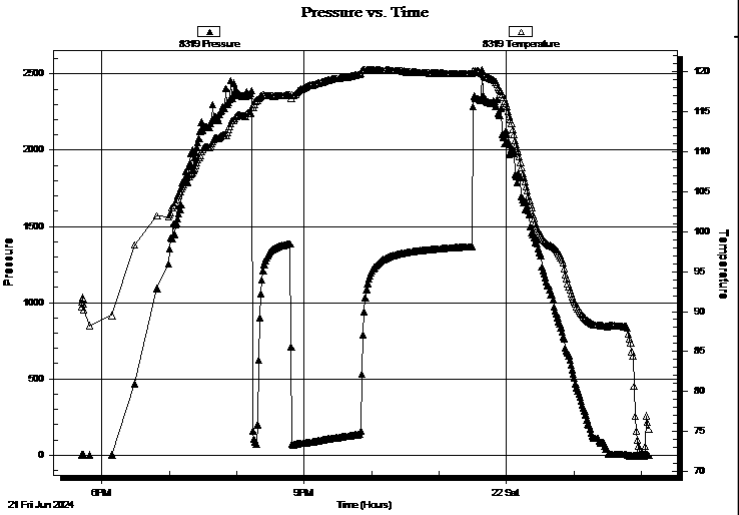
Reference Elevations: 2750.00 ft (KB)
2738.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8319 **Inside**

Press@RunDepth: psig @ 4885.00 ft (KB)
Start Date: 2024.06.21 End Date: 2024.06.22
Start Time: 17:42:05 End Time: 02:06:29

Capacity: 8000.00 psig
Last Calib.: 2024.06.22
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB in 5 sec. 209"
ISI: No return.
FF: BOB @ open. Gas to surface @ 15 min.
FSI: 9" return. 5-30-60-90



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gsomcw 15g 1o 39m 45w	1.68
120.00	mcw 3m 97w (oil spots)	1.68
0.00	Gas to surface	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71839 **DST#: 1**

Test Start: 2024.06.21 @ 17:42:00

Tool Information

Drill Pipe:	Length:	4878.00 ft	Diameter:	3.80	inches	Volume:	68.43	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	68.43	bbl	

Drill Pipe Above KB:	24.00 ft
Depth to Top Packer:	4884.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	16.00 ft
Tool Length:	46.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2500.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		75000.00 lb
Tool Chased		7.00 ft
String Weight:	Initial	62000.00 lb
	Final	63000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4855.00		
Shut In Tool	5.00			4860.00		
Hydraulic tool	5.00			4865.00		
Jars	5.00			4870.00		
EM Tool	3.00			4873.00		
Safety Joint	2.00			4875.00		
Packer	5.00			4880.00	30.00	Bottom Of Top Packer
Packer	4.00			4884.00		
Stubb	1.00			4885.00		
Recorder	0.00	8319	Inside	4885.00		
Recorder	0.00	8874	Outside	4885.00		
Perforations	12.00			4897.00		
Bullnose	3.00			4900.00	16.00	Bottom Packers & Anchor
Total Tool Length:	**46.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71839 **DST#: 1**

Test Start: 2024.06.21 @ 17:42:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	31000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gsomcw 15g 1o 39m 45w	1.683
120.00	mcw 3m 97w (oil spots)	1.683
0.00	Gas to surface	0.000

Total Length: 240.00 ft Total Volume: 3.366 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .202 @ 76F = 31000ppm

DRILL STEM TEST REPORT

GAS RATES

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71839 **DST#: 1**

Test Start: 2024.06.21 @ 17:42:00

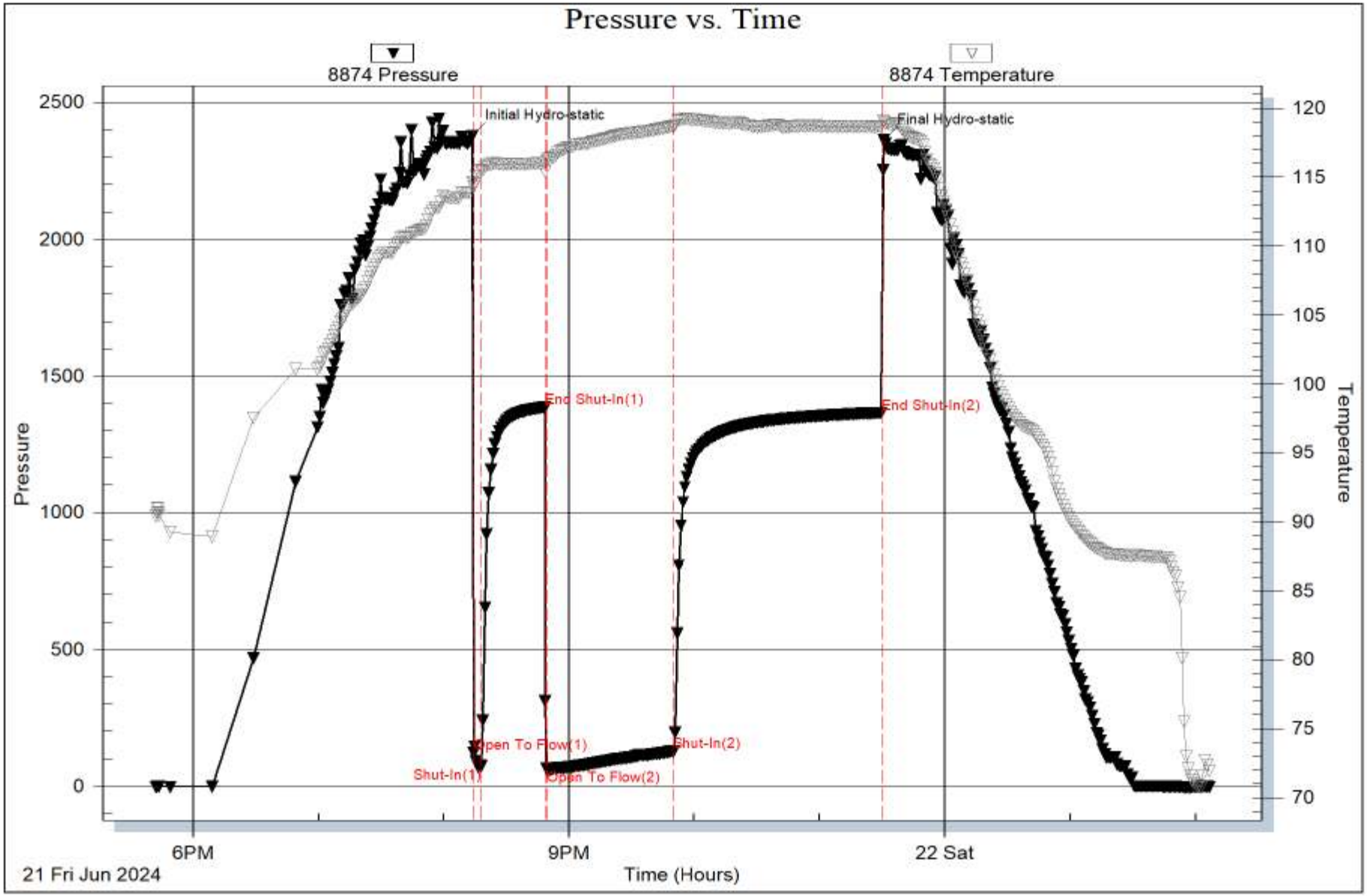
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

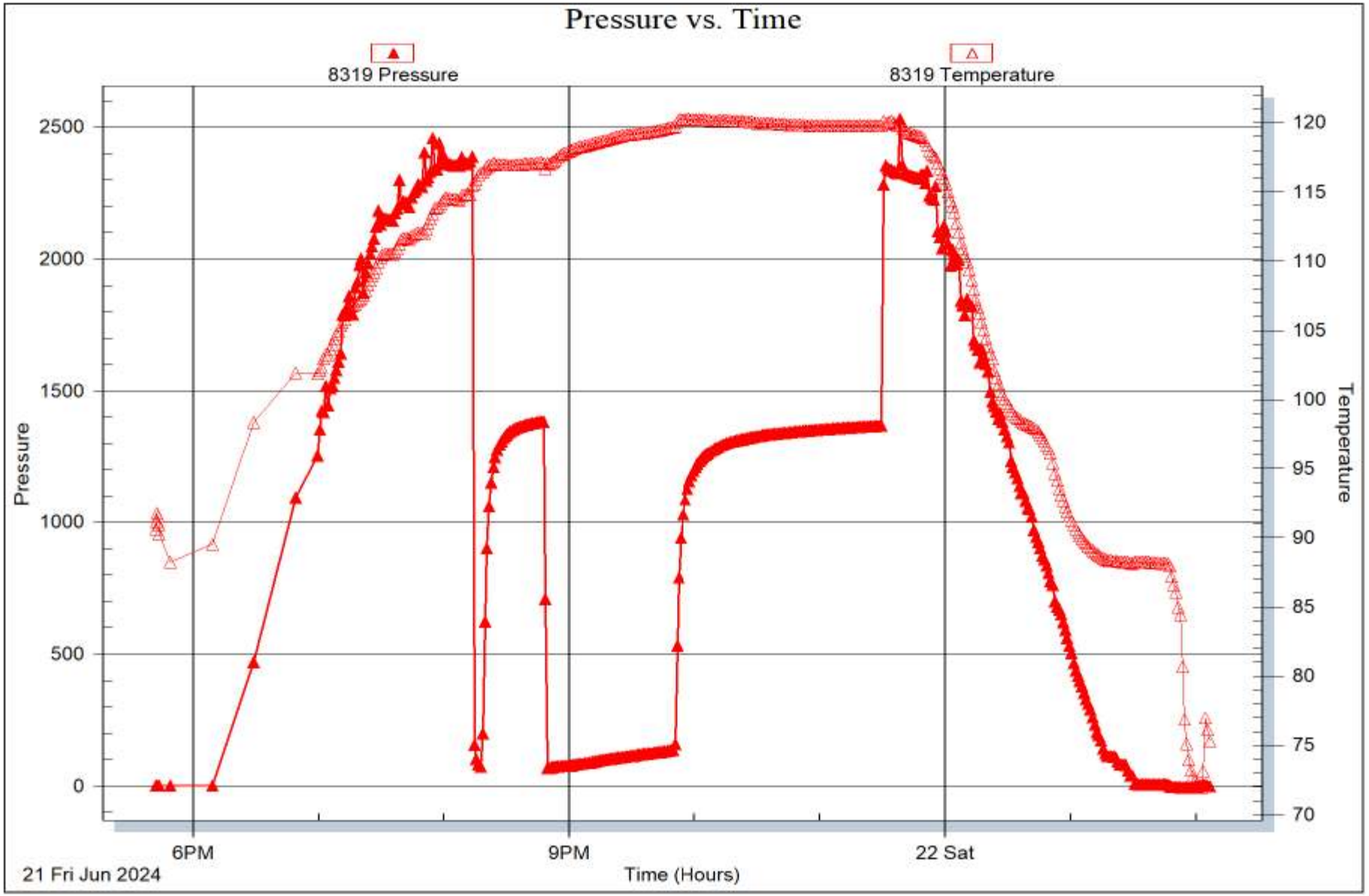
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
		0.00	0.00	0.00

Serial #: 8874 **Outside** Agricultural Energy Services 15-33s-31w Sew ard,KS DST Test Number: 1



Trilobite Testing, Inc Ref. No: 71839 Printed: 2024.07.03 @ 12:34:35

Serial #: 8319 **Inside** Agricultural Energy Services 15-33s-31w Sew ard,KS DST Test Number: 1



Trilobite Testing, Inc Ref. No: 71839 Printed: 2024.07.03 @ 12:34:36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Agricultural Energy Services**

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

15-33s-31w Seward,KS

Lelia May George #1-15

Start Date: 2024.06.22 @ 09:30:00
End Date: 2024.06.22 @ 17:22:30
Job Ticket #: 71840 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.07.03 @ 12:33:57

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71840 **DST#: 2**

Test Start: 2024.06.22 @ 09:30:00

GENERAL INFORMATION:

Formation: **Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:47:15
Time Test Ended: 17:22:30

Test Type: Conventional Straddle (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 4465.00 ft (KB) To 4485.00 ft (KB) (TVD)
Total Depth: 4900.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

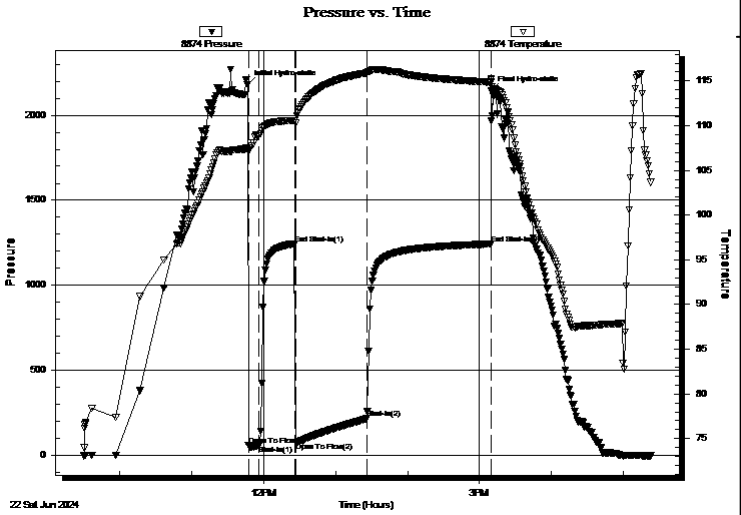
Reference Elevations: 2750.00 ft (KB)
2738.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8874 **Below (Straddle)**

Press@RunDepth: 215.09 psig @ 4486.00 ft (KB)
Start Date: 2024.06.22 End Date: 2024.06.22
Start Time: 09:30:05 End Time: 17:22:29

Capacity: 8000.00 psig
Last Calib.: 2024.06.22
Time On Btm: 2024.06.22 @ 11:46:30
Time Off Btm: 2024.06.22 @ 15:09:45

TEST COMMENT: IF: 32" blow .
ISI: 1/4" return.
FF: 74" blow .
FSI: 3 1/2" return. 5-30-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.56	107.56	Initial Hydro-static
1	59.61	107.06	Open To Flow (1)
10	60.24	108.88	Shut-In(1)
40	1244.40	110.56	End Shut-In(1)
40	75.35	110.27	Open To Flow (2)
100	215.09	115.90	Shut-In(2)
203	1242.50	114.87	End Shut-In(2)
204	2146.83	115.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	gocm 20g 25o 55m	2.10
260.00	mcw 3m 97w	3.65
0.00	4000' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71840 **DST#: 2**

Test Start: 2024.06.22 @ 09:30:00

GENERAL INFORMATION:

Formation: **Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:47:15
Time Test Ended: 17:22:30

Test Type: Conventional Straddle (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 4465.00 ft (KB) To 4485.00 ft (KB) (TVD)
Total Depth: 4900.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

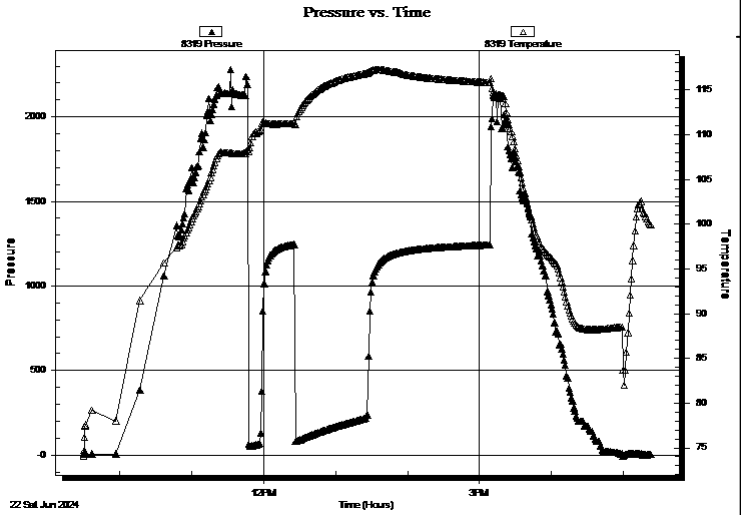
Reference Elevations: 2750.00 ft (KB)
2738.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8319 **Inside**

Press@RunDepth: psig @ 4481.00 ft (KB)
Start Date: 2024.06.22 End Date: 2024.06.22
Start Time: 09:30:05 End Time: 17:22:29

Capacity: 8000.00 psig
Last Calib.: 2024.06.22
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 32" blow .
ISI: 1/4" return.
FF: 74" blow .
FSI: 3 1/2" return. 5-30-60-90



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
150.00	gocm 20g 25o 55m	2.10
260.00	mcw 3m 97w	3.65
0.00	4000' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71840 **DST#: 2**

Test Start: 2024.06.22 @ 09:30:00

GENERAL INFORMATION:

Formation: **Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:47:15
Time Test Ended: 17:22:30

Test Type: Conventional Straddle (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 4465.00 ft (KB) To 4485.00 ft (KB) (TVD)
Total Depth: 4900.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

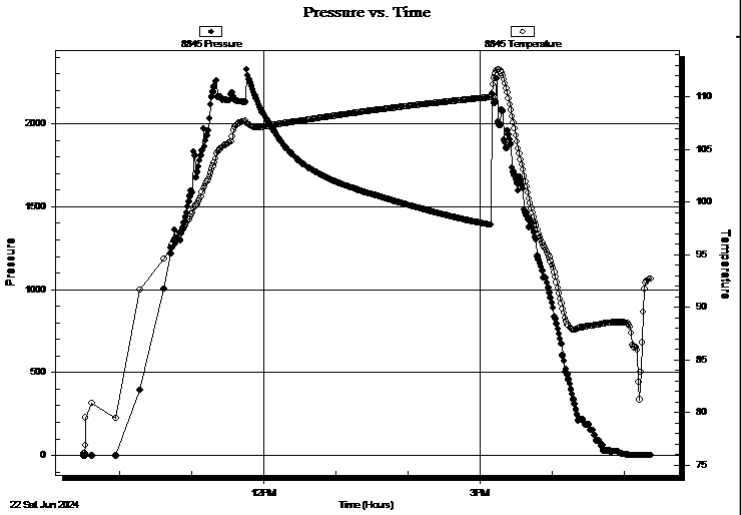
Reference Elevations: 2750.00 ft (KB)
2738.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8845 **Outside**

Press@RunDepth: psig @ 4481.00 ft (KB)
Start Date: 2024.06.22 End Date: 2024.06.22
Start Time: 09:30:05 End Time: 17:22:29

Capacity: 8000.00 psig
Last Calib.: 2024.06.22
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 32" blow .
ISI: 1/4" return.
FF: 74" blow .
FSI: 3 1/2" return. 5-30-60-90



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
150.00	gocm 20g 25o 55m	2.10
260.00	mcw 3m 97w	3.65
0.00	4000' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71840 **DST#: 2**

Test Start: 2024.06.22 @ 09:30:00

Tool Information

Drill Pipe:	Length:	4470.00 ft	Diameter:	3.80	inches	Volume:	62.70	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	62.70	bbl	

Drill Pipe Above KB:	35.00 ft
Depth to Top Packer:	4465.00 ft
Depth to Bottom Packer:	4482.00 ft
Interval betw een Packers:	17.00 ft
Tool Length:	465.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2500.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		80000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	62000.00 lb
	Final	64000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4436.00		
Shut In Tool	5.00			4441.00		
Hydraulic tool	5.00			4446.00		
Jars	5.00			4451.00		
EM Tool	3.00			4454.00		
Safety Joint	2.00			4456.00		
Packer	5.00			4461.00	30.00	Bottom Of Top Packer
Packer	4.00			4465.00		
Stubb	1.00			4466.00		
Perforations	15.00			4481.00		
Recorder	0.00	8319	Inside	4481.00		
Recorder	0.00	8845	Outside	4481.00		
Blank Off Sub	1.00			4482.00	17.00	Tool Interval
Packer	3.00			4485.00		
Blank Spacing	1.00			4486.00		
Recorder	0.00	8874	Below	4486.00		
Perforations	2.00			4488.00		
Change Over Sub	1.00			4489.00		
Drill Pipe	411.00			4900.00	418.00	Bottom Packers & Anchor
Total Tool Length:	**465.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71840 **DST#: 2**

Test Start: 2024.06.22 @ 09:30:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	54000 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

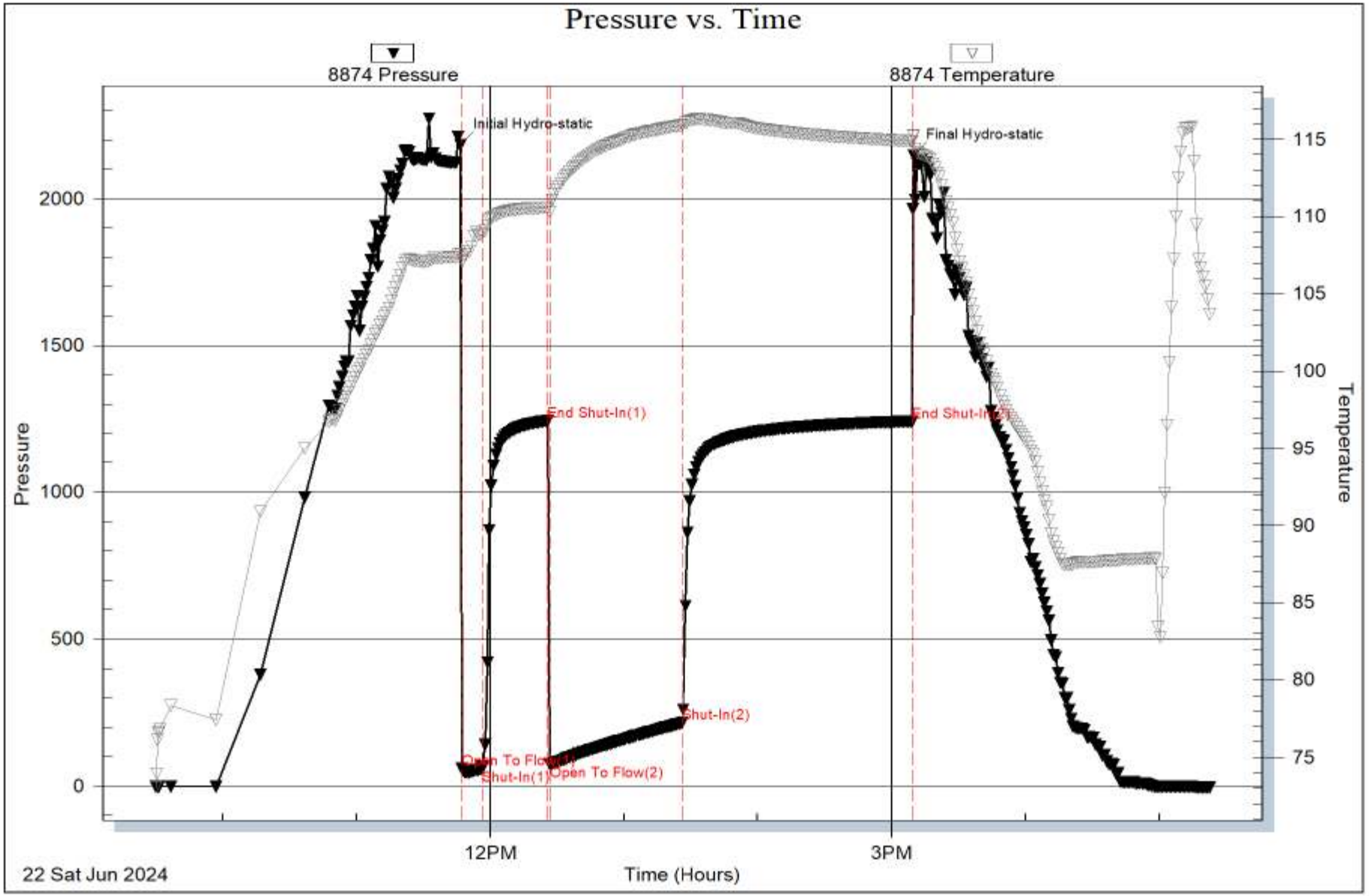
Length ft	Description	Volume bbl
150.00	gocm 20g 25o 55m	2.104
260.00	mcw 3m 97w	3.647
0.00	4000' GIP	0.000

Total Length: 410.00 ft Total Volume: 5.751 bbl

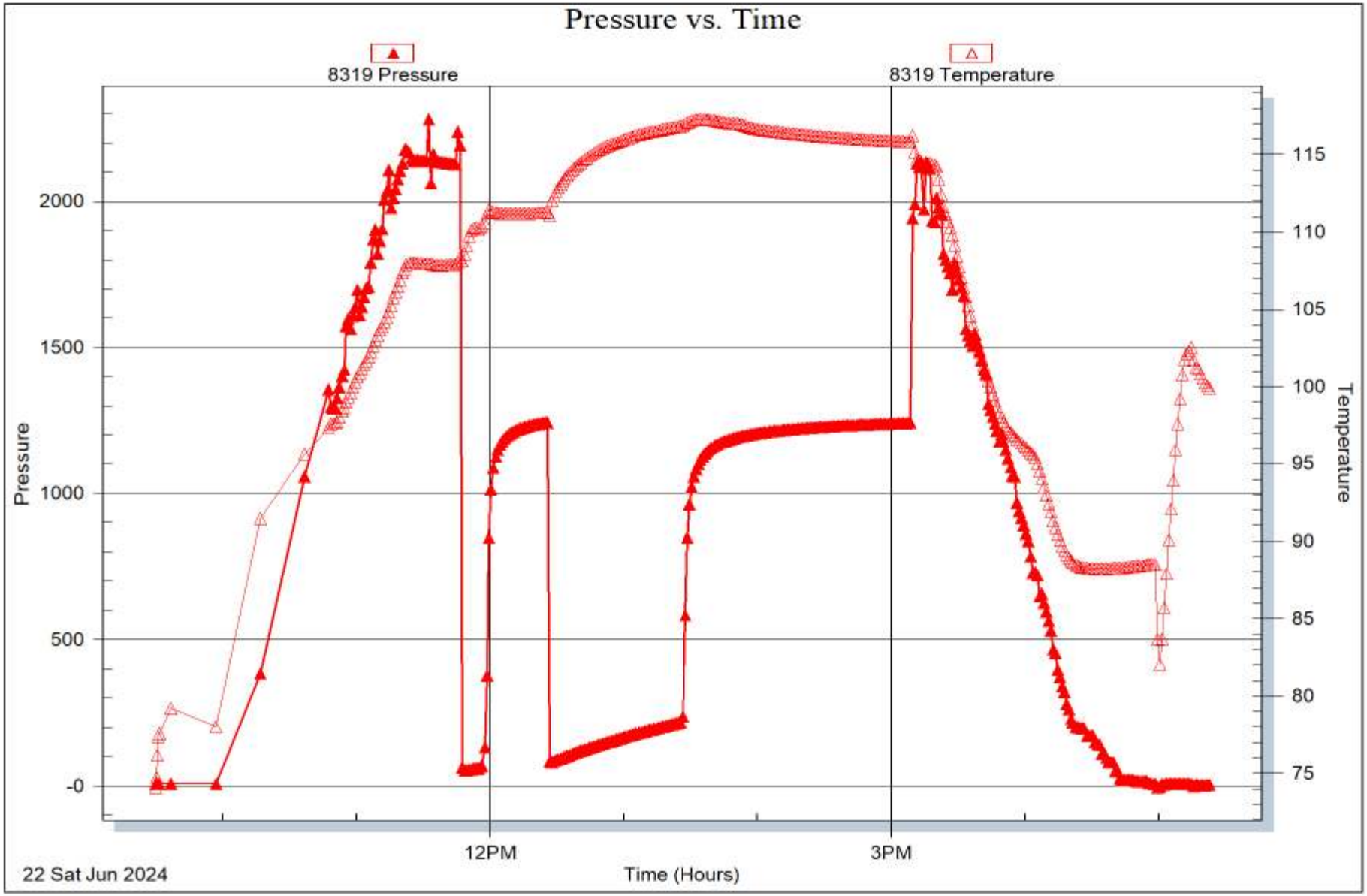
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .115 @ 86f = 54000ppm

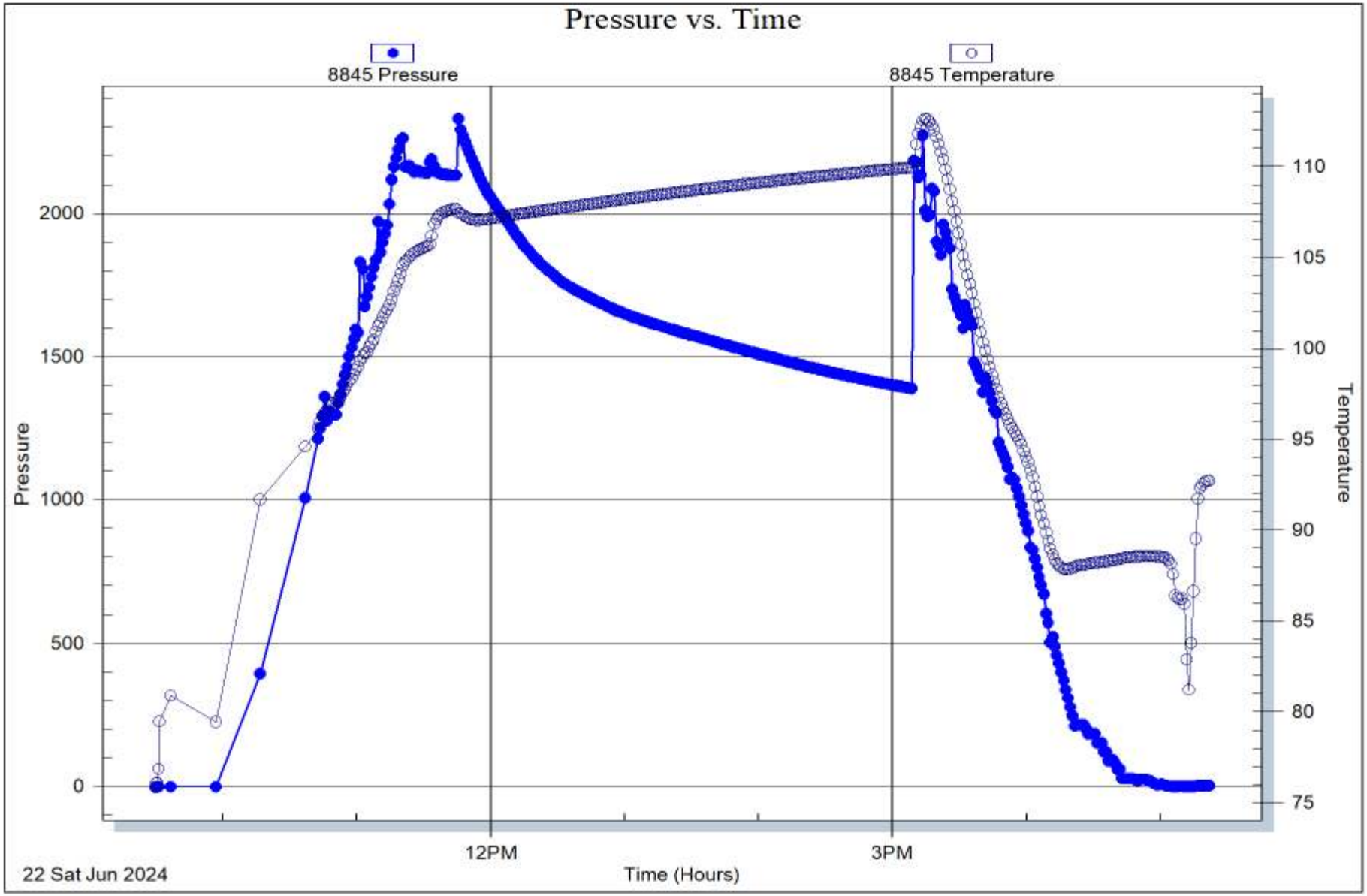

Pressure vs. Time
8874 Pressure
8874 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
2000
1500
1000
500
0
Pressure
115
110
105
100
95
90
85
80
75
Temperature
12PM
3PM
Time (Hours)
22 Sat Jun 2024

Serial #: 8319 **Inside** Agricultural Energy Services 15-33s-31w Sew ard,KS DST Test Number: 2



Trilobite Testing, Inc Ref. No: 71840 Printed: 2024.07.03 @ 12:33:58

Serial #: 8845 **Outside** Agricultural Energy Services 15-33s-31w Sew ard,KS DST Test Number: 2



Trilobite Testing, Inc Ref. No: 71840 Printed: 2024.07.03 @ 12:33:58



DRILL STEM TEST REPORT

Prepared For: **Agricultural Energy Services**

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

15-33s-31w Seward,KS

Lelia May George #1-15

Start Date: 2024.06.23 @ 05:29:00

End Date: 2024.06.23 @ 13:48:30

Job Ticket #: 71841 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.07.03 @ 12:33:23

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71841 **DST#: 3**

Test Start: 2024.06.23 @ 05:29:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:52:00
Time Test Ended: 13:48:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 4094.00 ft (KB) To 5060.00 ft (KB) (TVD)
Total Depth: 4900.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

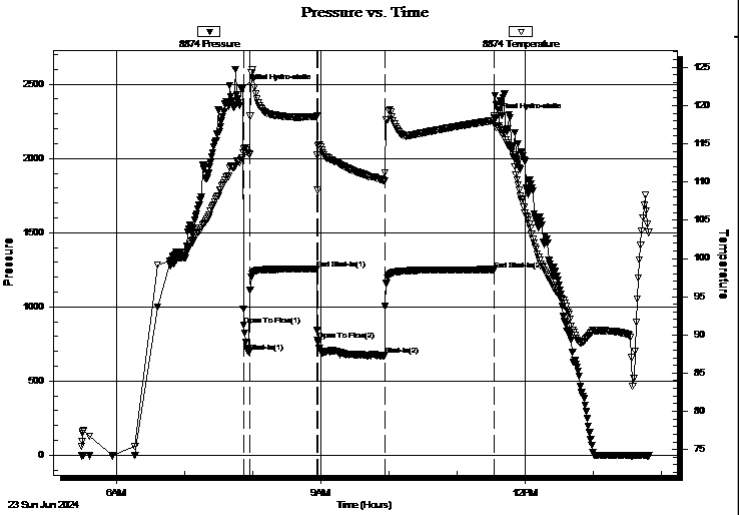
Reference Elevations: 2750.00 ft (KB)
2738.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8874 **Outside**

Press@RunDepth: 675.76 psig @ 4995.00 ft (KB)
Start Date: 2024.06.23 End Date: 2024.06.23
Start Time: 05:29:05 End Time: 13:48:29

Capacity: 8000.00 psig
Last Calib.: 2024.06.23
Time On Btm: 2024.06.23 @ 07:51:00
Time Off Btm: 2024.06.23 @ 11:32:30

TEST COMMENT: IF: Gas to surface choke open 1"
ISI: No return.
FF: gauged gas
FSI: No return. 5-60-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2470.27	113.20	Initial Hydro-static
1	877.65	114.37	Open To Flow (1)
6	697.00	113.58	Shut-In(1)
66	1254.92	118.60	End Shut-In(1)
66	773.78	108.90	Open To Flow (2)
126	675.76	110.19	Shut-In(2)
222	1251.32	118.03	End Shut-In(2)
222	2273.00	118.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	gmco 50g 25m 25o	1.82

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	108.00	3518.86
Last Gas Rate	1.00	111.00	3251.99
Max. Gas Rate	1.00	112.00	3277.92

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71841 **DST#: 3**

Test Start: 2024.06.23 @ 05:29:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:52:00
Time Test Ended: 13:48:30

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 4094.00 ft (KB) To 5060.00 ft (KB) (TVD)
Total Depth: 4900.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

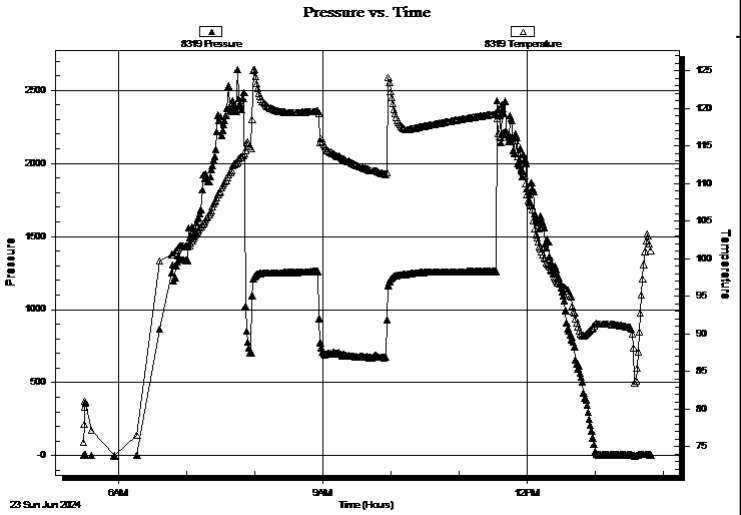
Reference Elevations: 2750.00 ft (KB)
2738.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8319 **Inside**

Press@RunDepth: psig @ 4995.00 ft (KB)
Start Date: 2024.06.23 End Date: 2024.06.23
Start Time: 05:29:05 End Time: 13:48:29

Capacity: 8000.00 psig
Last Calib.: 2024.06.23
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Gas to surface choke open 1"
ISI: No return.
FF: gauged gas
FSI: No return. 5-60-60-90



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
130.00	gmco 50g 25m 25o	1.82

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	108.00	3518.86
Last Gas Rate	1.00	111.00	3251.99
Max. Gas Rate	1.00	112.00	3277.92

DRILL STEM TEST REPORT

TOOL DIAGRAM

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71841 **DST#: 3**

Test Start: 2024.06.23 @ 05:29:00

Tool Information

Drill Pipe:	Length:	4973.00 ft	Diameter:	3.80	inches	Volume:	69.76	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	69.76	bbl	

Drill Pipe Above KB:	9.00 ft
Depth to Top Packer:	4994.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	66.00 ft
Tool Length:	96.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2500.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		80000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	64000.00 lb
	Final	64000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4965.00		
Shut In Tool	5.00			4970.00		
Hydraulic tool	5.00			4975.00		
Jars	5.00			4980.00		
EM Tool	3.00			4983.00		
Safety Joint	2.00			4985.00		
Packer	5.00			4990.00	30.00	Bottom Of Top Packer
Packer	4.00			4994.00		
Stubb	1.00			4995.00		
Recorder	0.00	8319	Inside	4995.00		
Recorder	0.00	8874	Outside	4995.00		
Perforations	29.00			5024.00		
Change Over Sub	1.00			5025.00		
Drill Pipe	31.00			5056.00		
Change Over Sub	1.00			5057.00		
Bullnose	3.00			5060.00	66.00	Bottom Packers & Anchor
Total Tool Length:	**96.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71841 **DST#: 3**

Test Start: 2024.06.23 @ 05:29:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	gmco 50g 25m 25o	1.824

Total Length: 130.00 ft Total Volume: 1.824 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

DRILL STEM TEST REPORT

GAS RATES

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71841 **DST#: 3**

Test Start: 2024.06.23 @ 05:29:00

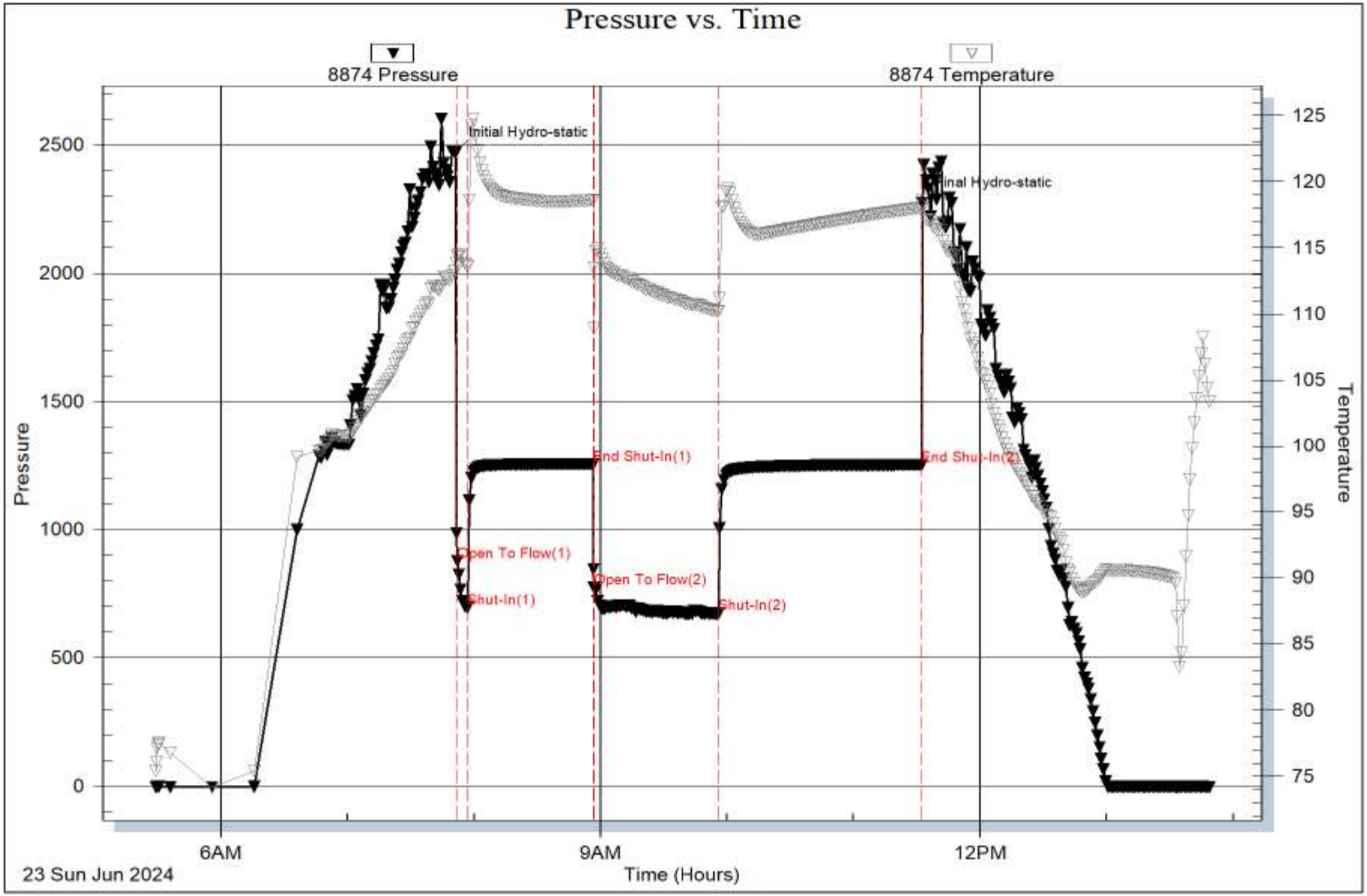
Gas Rates Information

Temperature: 90 (deg F)
Relative Density: 0.67
Z Factor: 0.9

Gas Rates Table

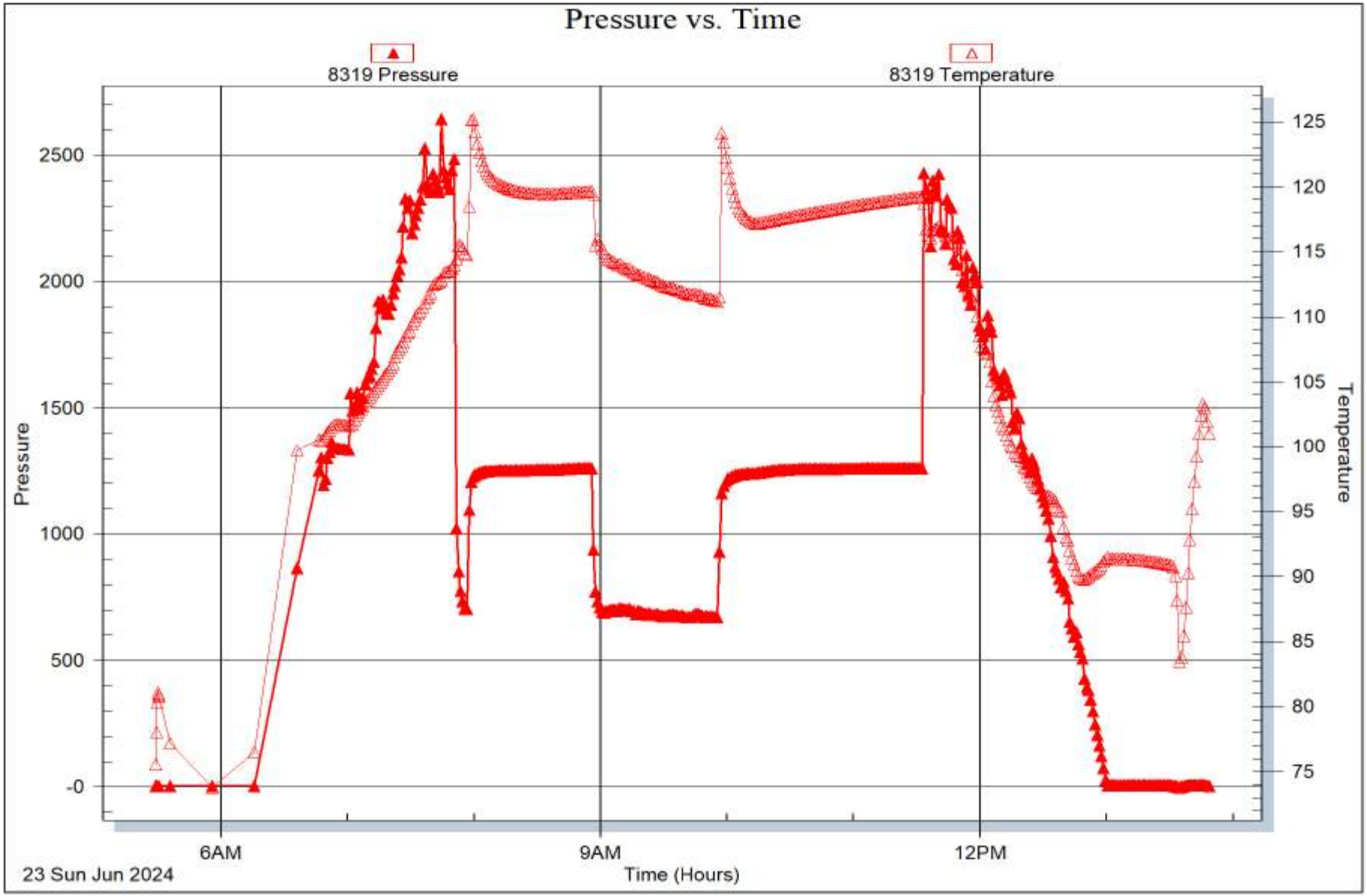
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	1.00	108.00	3518.86
2	20	1.00	112.00	3277.92
2	30	1.00	112.00	3277.92
2	40	1.00	112.00	3277.92
2	50	1.00	111.00	3251.99
2	60	1.00	111.00	3251.99

Serial #: 8874 **Outside** Agricultural Energy Services 15-33s-31w Sew ard,KS DST Test Number: 3



Trilobite Testing, Inc Ref. No: 71841 Printed: 2024.07.03 @ 12:33:24

Serial #: 8319 **Inside** Agricultural Energy Services 15-33s-31w Sew ard,KS DST Test Number: 3



Trilobite Testing, Inc Ref. No: 71841 Printed: 2024.07.03 @ 12:33:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Agricultural Energy Services**

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

15-33s-31w Seward,KS

Lelia May George #1-15

Start Date: 2024.06.25 @ 00:39:00
End Date: 2024.06.25 @ 08:45:00
Job Ticket #: 71842 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.07.03 @ 12:32:35

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71842 **DST#: 4**

Test Start: 2024.06.25 @ 00:39:00

GENERAL INFORMATION:

Formation: **Morrow - Chester**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:15:00
Time Test Ended: 08:45:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 5472.00 ft (KB) To 5565.00 ft (KB) (TVD)
Total Depth: 5565.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

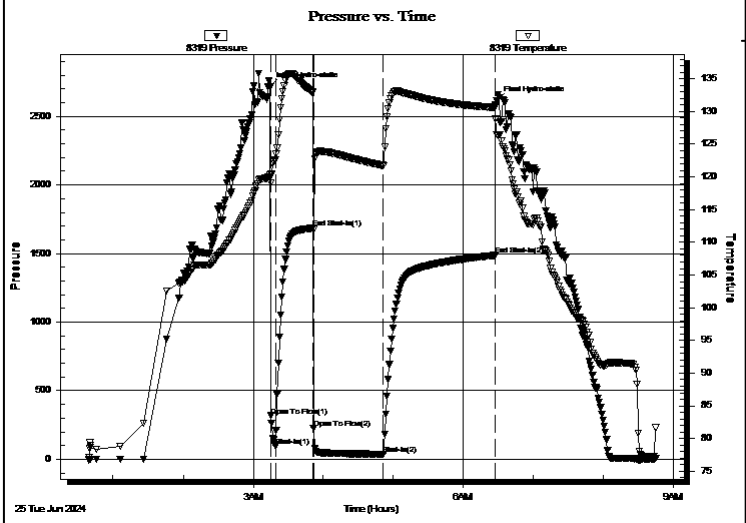
Reference Elevations: 2750.00 ft (KB)
2738.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8319 **Inside**

Press@RunDepth: 36.15 psig @ 5473.00 ft (KB)
Start Date: 2024.06.25 End Date: 2024.06.25
Start Time: 00:39:05 End Time: 08:44:59

Capacity: 8000.00 psig
Last Calib.: 2024.06.25
Time On Btm: 2024.06.25 @ 03:14:30
Time Off Btm: 2024.06.25 @ 06:28:30

TEST COMMENT: IF: 348" blow .
ISI: No return.
FF: Gas to surface, attempted to gauge, receding presures, not gaugeable.
FSI: No return. 5-30-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2714.18	120.25	Initial Hydro-static
1	315.95	119.05	Open To Flow (1)
5	95.31	122.59	Shut-In(1)
37	1684.37	132.91	End Shut-In(1)
37	225.22	111.96	Open To Flow (2)
97	36.15	121.75	Shut-In(2)
193	1486.88	130.62	End Shut-In(2)
194	2612.00	126.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud 100m (oil spots in tool)	0.49
0.00	Gas to surface	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71842 **DST#: 4**

Test Start: 2024.06.25 @ 00:39:00

GENERAL INFORMATION:

Formation: **Morrow - Chester**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:15:00
Time Test Ended: 08:45:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 5472.00 ft (KB) To 5565.00 ft (KB) (TVD)
Total Depth: 5565.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

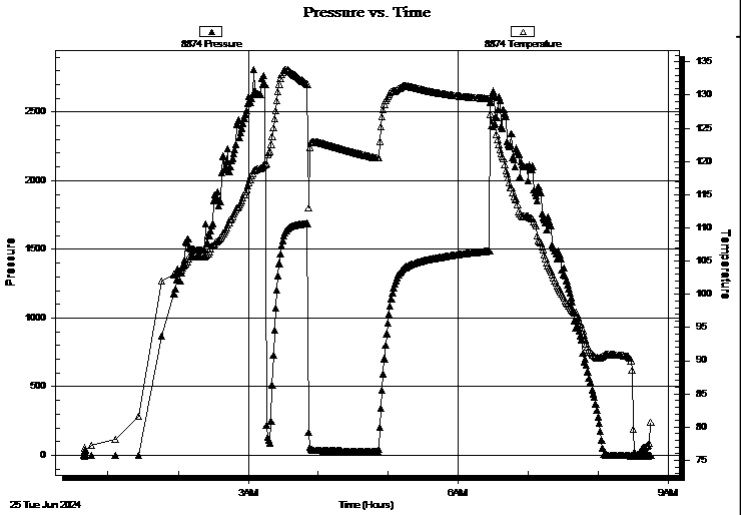
Reference Elevations: 2750.00 ft (KB)
2738.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8874 **Outside**

Press@RunDepth: psig @ 5473.00 ft (KB)
Start Date: 2024.06.25 End Date: 2024.06.25
Start Time: 00:39:05 End Time: 08:44:44

Capacity: 8000.00 psig
Last Calib.: 2024.06.25
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 348" blow .
ISI: No return.
FF: Gas to surface, attempted to gauge, receding presures, not gaugeable.
FSI: No return. 5-30-60-90



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud 100m (oil spots in tool)	0.49
0.00	Gas to surface	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71842 **DST#: 4**

Test Start: 2024.06.25 @ 00:39:00

Tool Information

Drill Pipe:	Length:	5447.00 ft	Diameter:	3.80	inches	Volume:	76.41	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	76.41	bbl	

Drill Pipe Above KB:	5.00 ft
Depth to Top Packer:	5472.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	93.00 ft
Tool Length:	123.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2500.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		84000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	70000.00 lb
	Final	70000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			5443.00		
Shut In Tool	5.00			5448.00		
Hydraulic tool	5.00			5453.00		
Jars	5.00			5458.00		
EM Tool	3.00			5461.00		
Safety Joint	2.00			5463.00		
Packer	5.00			5468.00	30.00	Bottom Of Top Packer
Packer	4.00			5472.00		
Stubb	1.00			5473.00		
Recorder	0.00	8319	Inside	5473.00		
Recorder	0.00	8874	Outside	5473.00		
Perforations	24.00			5497.00		
Change Over Sub	1.00			5498.00		
Drill Pipe	63.00			5561.00		
Change Over Sub	1.00			5562.00		
Bullnose	3.00			5565.00	93.00	Bottom Packers & Anchor
Total Tool Length:	**123.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71842 **DST#: 4**

Test Start: 2024.06.25 @ 00:39:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

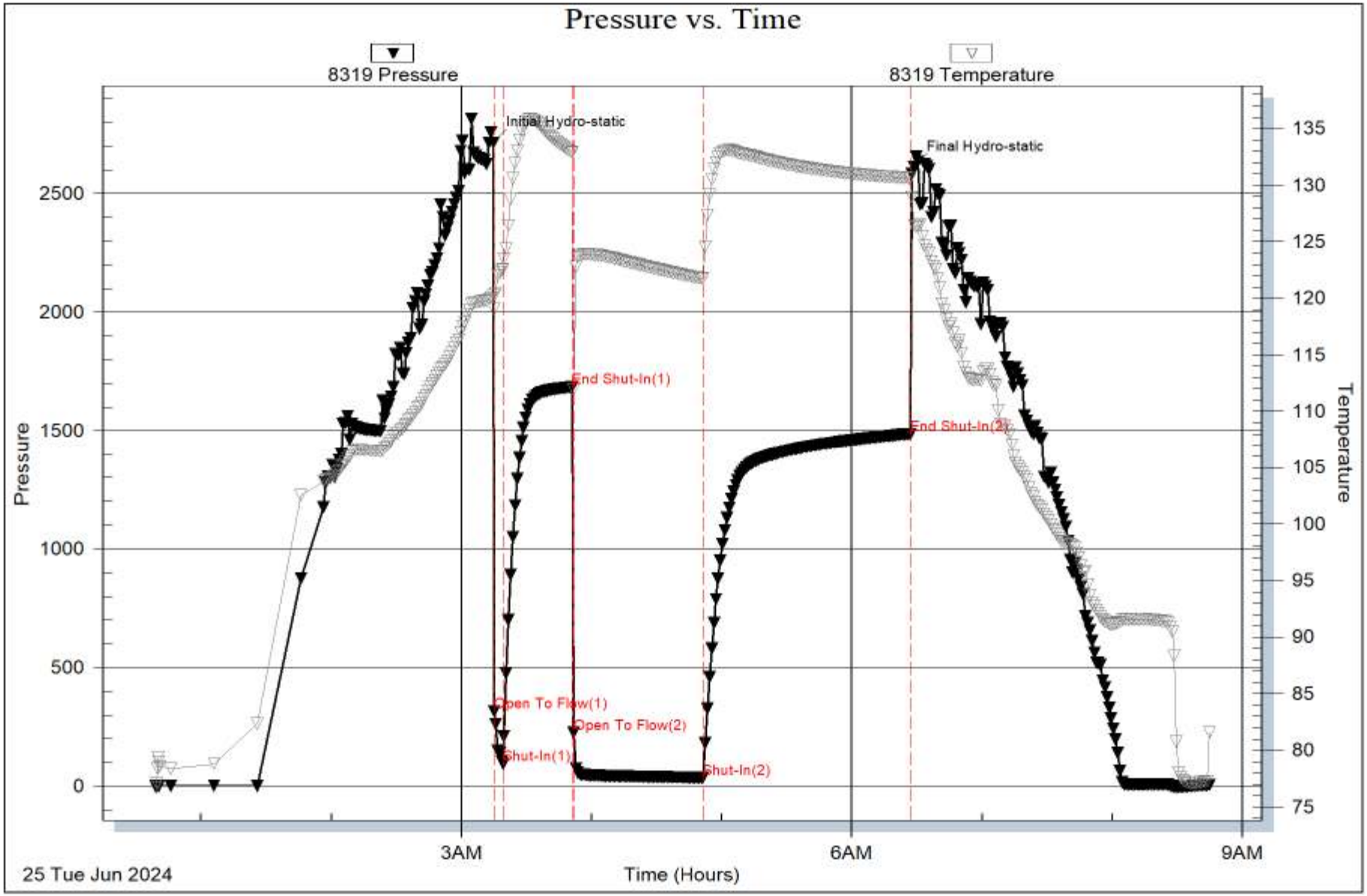
Recovery Table

Length ft	Description	Volume bbl
35.00	Mud 100m (oil spots in tool)	0.491
0.00	Gas to surface	0.000

Total Length: 35.00 ft Total Volume: 0.491 bbl

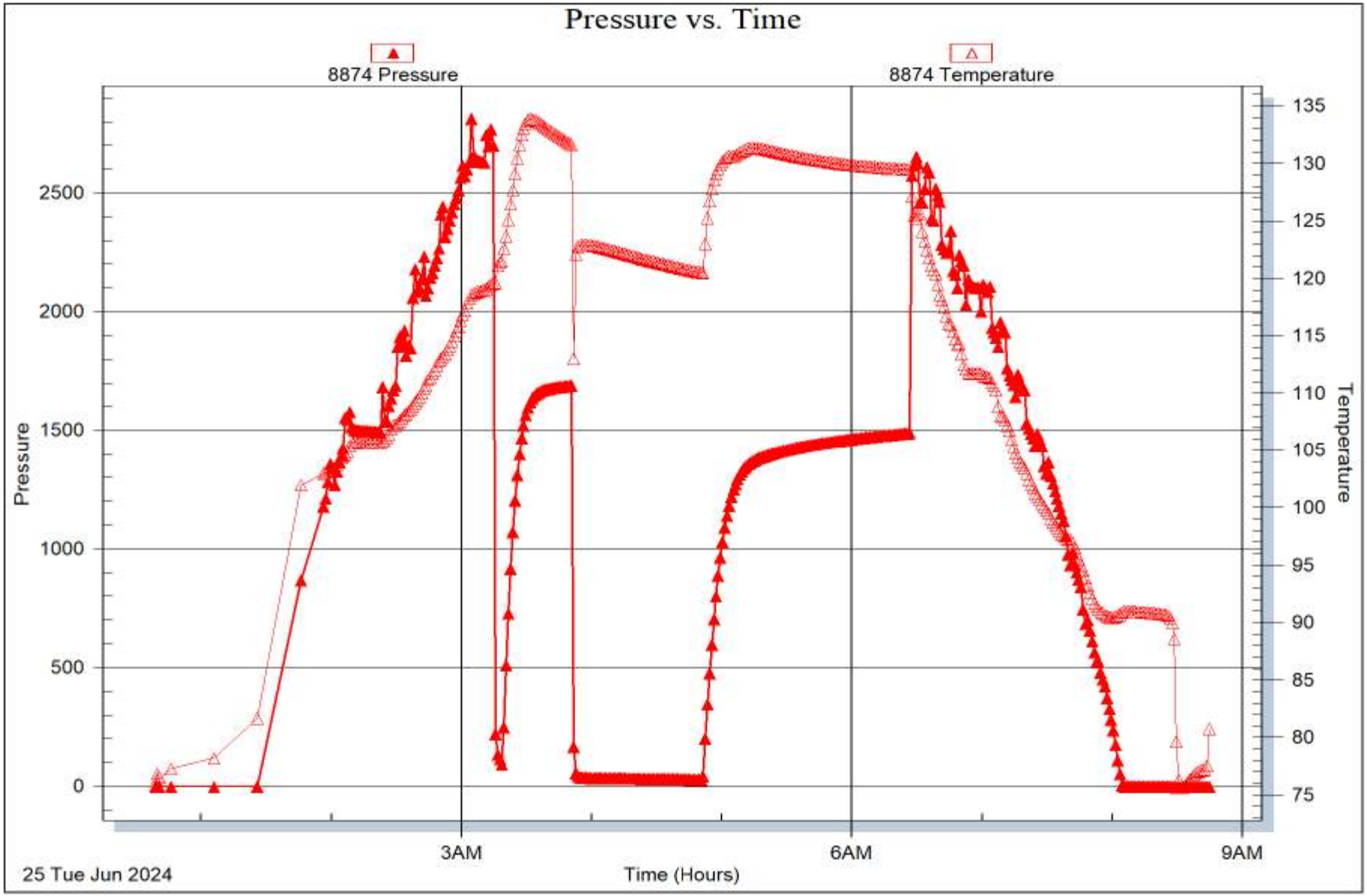
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8319 **Inside** Agricultural Energy Services 15-33s-31w Sew ard,KS DST Test Number: 4



Trilobite Testing, Inc Ref. No: 71842 Printed: 2024.07.03 @ 12:32:36

Serial #: 8874 **Outside** Agricultural Energy Services 15-33s-31w Sew ard,KS DST Test Number: 4



Trilobite Testing, Inc Ref. No: 71842 Printed: 2024.07.03 @ 12:32:36



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Agricultural Energy Services**

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

15-33s-31w Seward,KS

Lelia May George #1-15

Start Date: 2024.06.26 @ 11:41:00

End Date: 2024.06.26 @ 19:38:45

Job Ticket #: 17843 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.07.03 @ 12:32:05

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 17843 **DST#: 5**

Test Start: 2024.06.26 @ 11:41:00

GENERAL INFORMATION:

Formation: **St Louis C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:15:30
Time Test Ended: 19:38:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 5812.00 ft (KB) To 5834.00 ft (KB) (TVD)
Total Depth: 5834.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

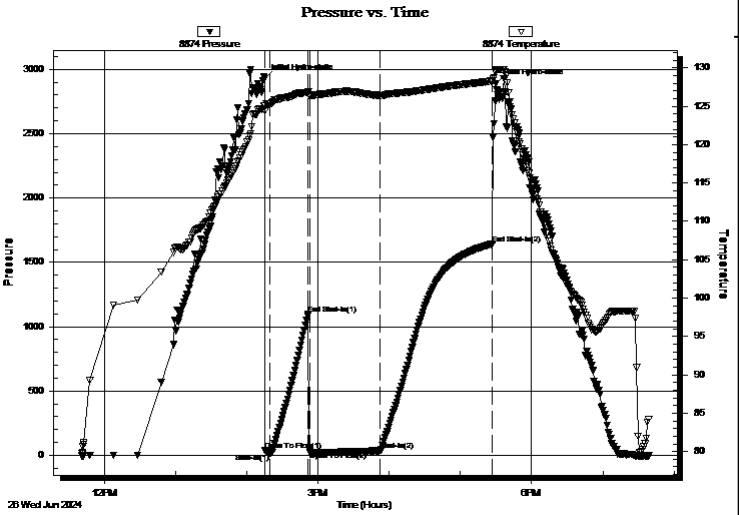
Reference Elevations: 2750.00 ft (KB)
2738.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8874 **Outside**

Press@RunDepth: 37.16 psig @ 5813.00 ft (KB)
Start Date: 2024.06.26 End Date: 2024.06.26
Start Time: 11:41:05 End Time: 19:38:44

Capacity: 8000.00 psig
Last Calib.: 2024.06.26
Time On Btm: 2024.06.26 @ 14:15:00
Time Off Btm: 2024.06.26 @ 17:30:00

TEST COMMENT: IF: 23" blow .
ISI: No return.
FF: 235" blow .
FSI: No return. 5-30-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2929.03	125.11	Initial Hydro-static
1	40.56	124.43	Open To Flow (1)
5	18.04	125.30	Shut-In(1)
37	1099.04	126.84	End Shut-In(1)
38	35.17	126.36	Open To Flow (2)
98	37.16	126.36	Shut-In(2)
192	1641.98	128.28	End Shut-In(2)
195	2889.37	129.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	gsw mco 35g 5w 35o 25m	0.70
0.00	3000 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 17843 **DST#: 5**

Test Start: 2024.06.26 @ 11:41:00

GENERAL INFORMATION:

Formation: **St Louis C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:15:30
Time Test Ended: 19:38:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

Interval: 5812.00 ft (KB) To 5834.00 ft (KB) (TVD)
Total Depth: 5834.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

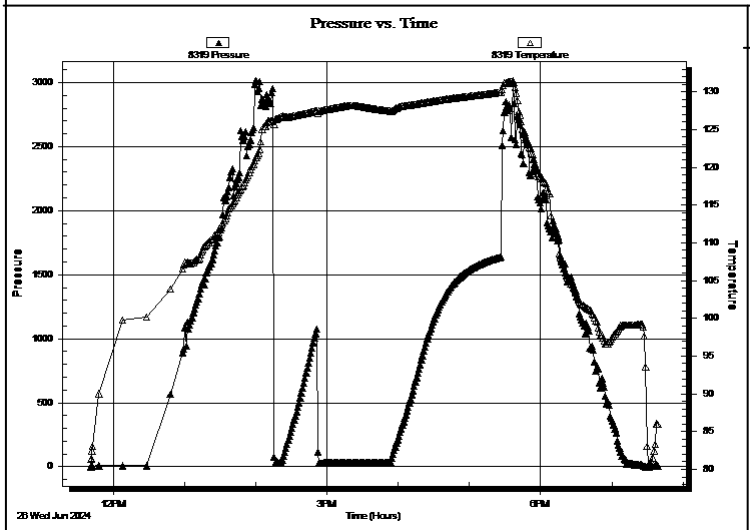
Reference Elevations: 2750.00 ft (KB)
2738.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8319 **Inside**

Press@RunDepth: psig @ 5813.00 ft (KB)
Start Date: 2024.06.26 End Date: 2024.06.26
Start Time: 11:41:05 End Time: 19:38:44

Capacity: 8000.00 psig
Last Calib.: 2024.06.26
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 23" blow .
ISI: No return.
FF: 235" blow .
FSI: No return. 5-30-60-90



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
50.00	gsw mco 35g 5w 35o 25m	0.70
0.00	3000 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 17843 **DST#: 5**

Test Start: 2024.06.26 @ 11:41:00

Tool Information

Drill Pipe:	Length:	5794.00 ft	Diameter:	3.80	inches	Volume:	81.27	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00	bbl	
						Total Volume:	81.27	bbl	

Drill Pipe Above KB:	12.00 ft
Depth to Top Packer:	5812.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	22.00 ft
Tool Length:	52.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2500.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		80000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	70000.00 lb
	Final	70000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			5783.00		
Shut In Tool	5.00			5788.00		
Hydraulic tool	5.00			5793.00		
Jars	5.00			5798.00		
EM Tool	3.00			5801.00		
Safety Joint	2.00			5803.00		
Packer	5.00			5808.00	30.00	Bottom Of Top Packer
Packer	4.00			5812.00		
Stubb	1.00			5813.00		
Recorder	0.00	8319	Inside	5813.00		
Recorder	0.00	8874	Outside	5813.00		
Perforations	18.00			5831.00		
Bullnose	3.00			5834.00	22.00	Bottom Packers & Anchor
Total Tool Length:	**52.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 17843 **DST#: 5**

Test Start: 2024.06.26 @ 11:41:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	1.00 inches				

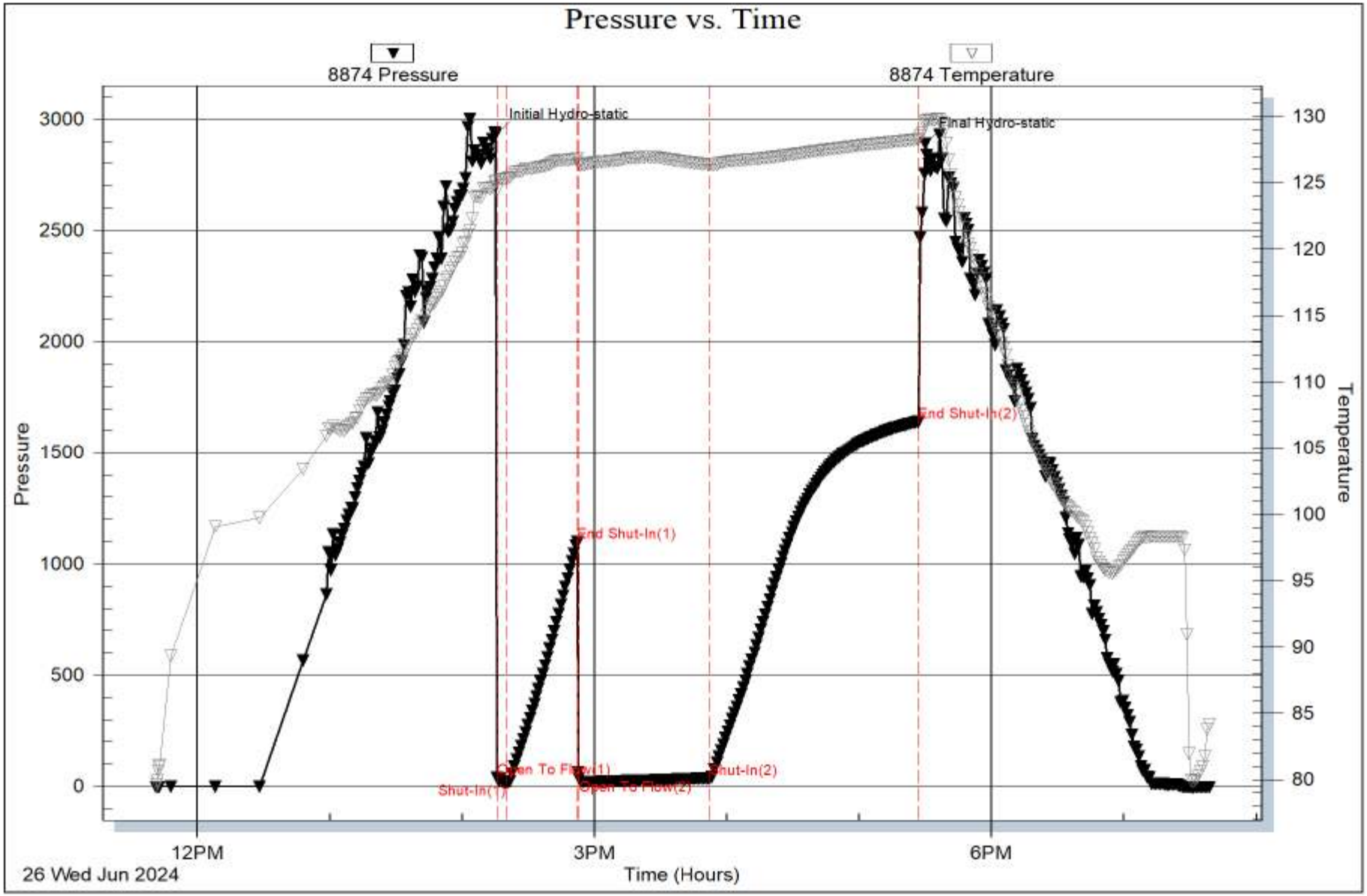
Recovery Information

Recovery Table

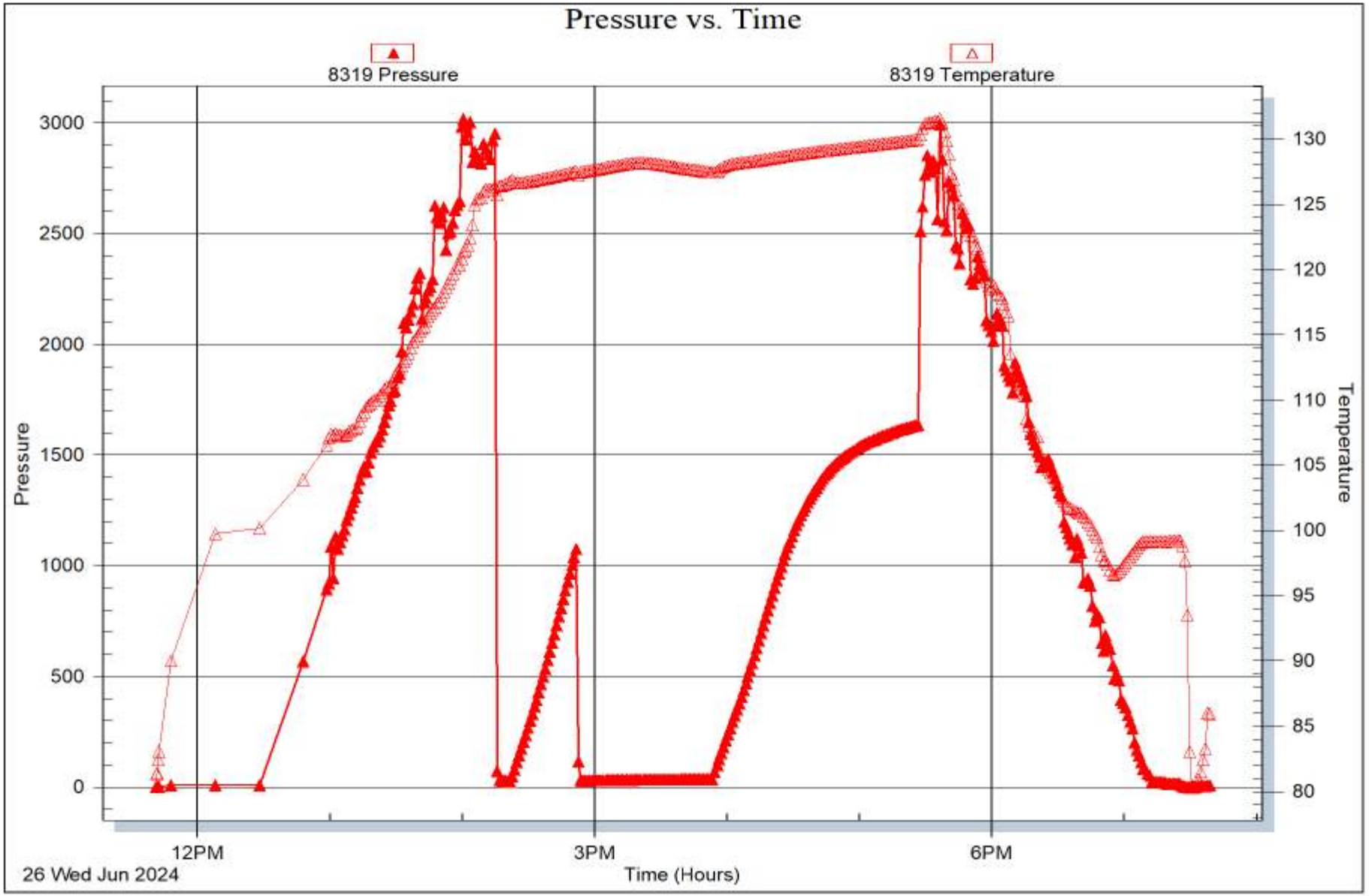
Length ft	Description	Volume bbl
50.00	gsw mco 35g 5w 35o 25m	0.701
0.00	3000 GIP	0.000

Total Length: 50.00 ft Total Volume: 0.701 bbl

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


Pressure vs. Time
8874 Pressure
8874 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(2)
End Shut-In(1)
Shut-In(1)
Open To Flow(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
3000
2500
2000
1500
1000
500
0
130
125
120
115
110
105
100
95
90
85
80
12PM
3PM
6PM
26 Wed Jun 2024
Time (Hours)

Serial #: 8319 **Inside** Agricultural Energy Services 15-33s-31w Sew ard,KS DST Test Number: 5



Trilobite Testing, Inc Ref. No: 17843 Printed: 2024.07.03 @ 12:32:06



DRILL STEM TEST REPORT

Prepared For: **Agricultural Energy Services**

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

15-33s-31w Seward,KS

Lelia May George #1-15

Start Date: 2024.06.28 @ 16:17:00

End Date: 2024.06.28 @ 21:35:15

Job Ticket #: 71844 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2024.07.03 @ 12:31:29

DRILL STEM TEST REPORT

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71844 **DST#: 6**

Test Start: 2024.06.28 @ 16:17:00

GENERAL INFORMATION:

Formation: **Drum**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:29:00
Time Test Ended: 21:35:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 78

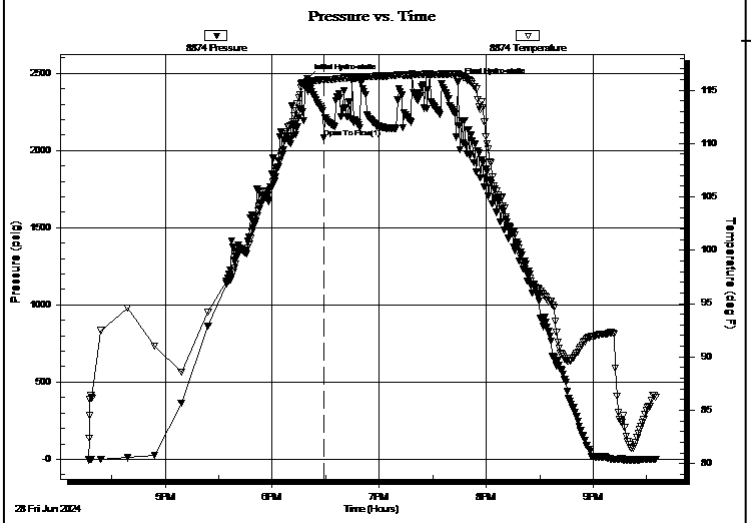
Interval: 4620.00 ft (KB) To 4672.00 ft (KB) (TVD)
Total Depth: 6086.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2750.00 ft (KB)
2738.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8874 **Below (Straddle)**
Press@RunDepth: psig @ 4678.00 ft (KB)
Start Date: 2024.06.28 End Date: 2024.06.28
Start Time: 16:17:05 End Time: 21:35:14

Capacity: 8000.00 psig
Last Calib.: 2024.06.28
Time On Btm: 2024.06.28 @ 18:19:45
Time Off Btm: 2024.06.28 @ 19:44:00

TEST COMMENT: Hookw all tool failed to find hold
Misrun - tried 5' above through 27" below target depth



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2463.67	115.79	Initial Hydro-static
10	2081.57	115.93	Open To Flow (1)
85	2441.77	116.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Tool never opened	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71844 **DST#: 6**

Test Start: 2024.06.28 @ 16:17:00

Tool Information

Drill Pipe:	Length:	4606.00 ft	Diameter:	3.80 inches	Volume:	64.61 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	64.61 bbl	

Drill Pipe Above KB:	16.00 ft
Depth to Top Packer:	4620.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	1466.00 ft
Tool Length:	1496.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	65000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	60000.00 lb
Final	60000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4591.00		
Shut In Tool	5.00			4596.00		
Hydraulic tool	5.00			4601.00		
Jars	5.00			4606.00		
EM Tool	3.00			4609.00		
Safety Joint	2.00			4611.00		
Packer	5.00			4616.00	30.00	Bottom Of Top Packer
Packer	4.00			4620.00		
Stubb	1.00			4621.00		
Perforations	4.00			4625.00		
Recorder	0.00	8319	Inside	4625.00		
Recorder	0.00	8845	Outside	4625.00		
Change Over Sub	1.00			4626.00		
Drill Pipe	31.00			4657.00		
Change Over Sub	1.00			4658.00		
Perforations	10.00			4668.00		
Blank Off Sub	1.00			4669.00	1466.00	Tool Interval
Packer	3.00			4672.00		
Blank Spacing	1.00			4673.00		
Hookw all tool	5.00			4678.00		
Recorder	0.00	8874	Below	4678.00		
Perforations	1.00			4679.00		
Change Over Sub	1.00			4680.00		
Nothing	1406.00			6086.00	1001495.00	Bottom Packers & Anchor
Total Tool Length:	**1496.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Agricultural Energy Services

PO Box 31865
Edmond, OK 73003

ATTN: Tom Williams

Lelia May George #1-15

15-33s-31w Seward,KS

Job Ticket: 71844 **DST#: 6**

Test Start: 2024.06.28 @ 16:17:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	63.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1750.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

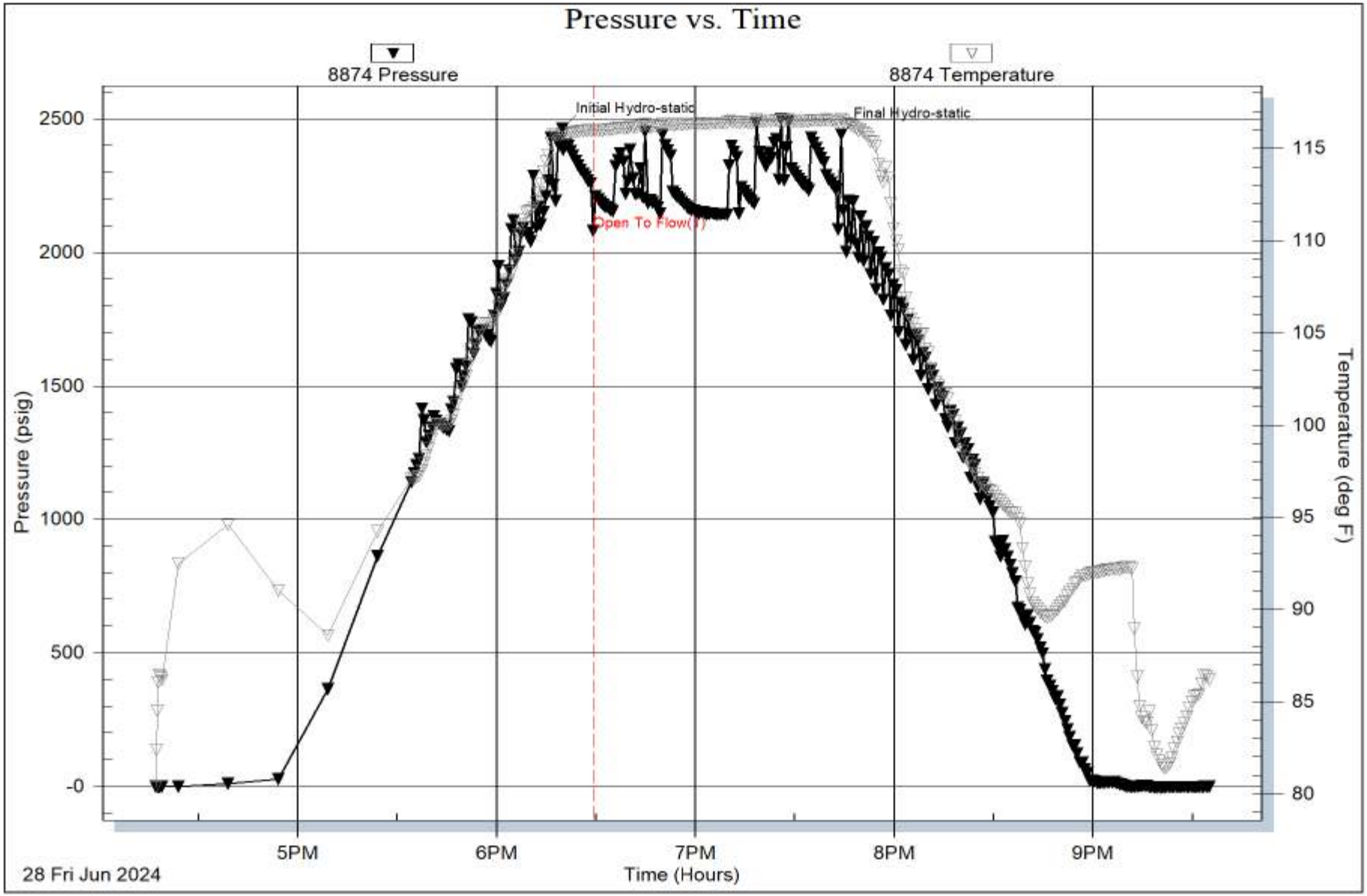
Length ft	Description	Volume bbl
0.00	Tool never opened	0.000

Total Length: ft Total Volume: bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: misrun


Pressure vs. Time
8874 Pressure
8874 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Pressure (psig)
Temperature (deg F)
2500
2000
1500
1000
500
-0
115
110
105
100
95
90
85
80
5PM
6PM
7PM
8PM
9PM
28 Fri Jun 2024
Time (Hours)

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71839

Well Name & No. Lelia May George 1-15 Test No. 1 Date 06/22/2024

Company Agricultural Energy Services Elevation 2750 KB 2738 GL

Address PO Box 31665 Edmond, OK 73003

Co. Rep / Geo ~~Monty~~ Tom Williams Rig Duke #1

Location: Sec. 15 Twp 33 S Rge. 31 W Co. Seward State Ks

Interval Tested 4884-4900 Zone Tested Swope

Anchor Length 16 Drill Pipe Run 4678 Mud Wt. 9.2

Top Packer Depth 4879 Drill Collars Run — Vis 50

Bottom Packer Depth 4884 Wt. Pipe Run — WL 7.2

Total Depth 4900 Chlorides 1600 ppm System LCM 4#

Blow Description IF BOB @ 10 sec 209"
ISI No return.
FF BOB @ open Gas to Surface @ 15 min. ~~No~~
FSI 9" return.

Rec 120	Feet of 650 mcw	15 %gas	1 %oil	45 %water	39 %mud	
Rec 120	Feet of mcw (oil spots)	%gas	%oil	97 %water	3 %mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of Gas to surface	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 240' BHT 119 Gravity — API RW .202 @ 76 °F Chlorides 31000 ppm

Initial Hydrostatic 2377	☒ Test 1950	☐ Ruined Shale Packer	
Initial Flow 121 to 73	☒ Jars 300	☐ Ruined Packer	
Initial Shut-In 1386	☐ Circ Sub	☐ Hotel	
Final Flow 63 to 127	☐ Hourly Standby	☒ EM Tool Successful NO	-350
Final Shut-In 1366	☒ Mileage 213 RT 107 187.25	☐ Accessibility	
Final Hydrostatic 2363	☐ Sampler 44 77.00	☒ Gas Sample 80	
T- On Location 1645	☐ Straddle	☐ Oversized Hole	
Initial Flow 5 T-Started 1742	☐ Shale Packer	☐ Sub Total	-270
Initial Shut-In 30 T-Open 2014	☐ Extra Packer	☐ Total	2244.25
Final Flow 60 T-Pulled 2326	☐ Extra Recorder	☐ Tool Loaded @	
Final Shut-In 90 T-Out 06/23 0207	☐ Day Standby	☐ MP/DST Disc't	

Comments

Approved By Our Representative

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71840

Well Name & No. Lelia May George 1-15 Test No. 2 Date 06/22/2024

Company Agriculture Energy Services Elevation 2750 KB 2738 GL

Address Edmond OK

Co. Rep / Geo Tom Williams Rig Duke #1

Location: Sec. 15 Twp 33s Rge. 31w Co. Seward State Ks

Interval Tested 4465 - 4485 Zone Tested ~~La~~ Kansas City

Anchor Length 20' 415 Tail Drill Pipe Run 4470 Mud Wt. 9.2

Top Packer Depth 4460/4465 Drill Collars Run — Vis 54

~~Bottom Packer~~ Straddle Depth 4485 Wt. Pipe Run — WL 7.2

Total Depth 4900 Chlorides 1800 ppm System LCM 2#

Blow Description IF 32" blow

ISI ¼" return.

FF 74" blow

FSI 3½" return.

Rec 150	Feet of GOCM	20 %gas	25 %oil	%water 55	%mud
Rec 260	Feet of mcw	%gas	%oil	97 %water ~~35~~	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of 4000' GIP	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 410 BHT 115 Gravity — API RW .115 @ 86 °F Chlorides 54000 ppm

Initial Hydrostatic 2182

Initial Flow 59 to 60

Initial Shut-In 1244

Final Flow 75 to 215

Final Shut-In 1242

Final Hydrostatic 2146

T- On Location 0840

Initial Flow 5 T-Started 0930

Initial Shut-In 30 T-Open 1136

Final Flow 60 T-Pulled 1446

Final Shut-In 90 T-Out 1722

☒ Test	1950	☐ Ruined Shale Packer	
☒ Jars	300	☐ Ruined Packer	
☐ Circ Sub		☒ Hotel	
☐ Hourly Standby		☒ EM Tool Successful x0	-350
☒ Mileage 88 to hotel	154	☐ Accessibility	
☐ Sampler		☐ Gas Sample	
☒ Straddle	800	☐ Oversized Hole	
☒ Shale Packer	250	☐ Sub Total	-350
☐ Extra Packer		☐ Total	3104
☐ Extra Recorder		☐ Tool Loaded @	
☐ Day Standby		☐ MP/DST Disc't	

Comments

Approved By Our Representative

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71841

Well Name & No. Lelia May George 1-15 Test No. 3 Date 06/23/2024

Company Agriculture Energy Services Elevation 2750 KB 2738 GL

Address Edmond, OK

Co. Rep / Geo Tom Williams Rig Duke #1

Location: Sec. 15 Twp 33s Rge. 31w Co. Seward State KS

Interval Tested 4944 - 5060 Zone Tested Marmaton

Anchor Length 66 Drill Pipe Run 4973 Mud Wt. 9.2

Top Packer Depth 4989 Drill Collars Run — Vis 60

Bottom Packer Depth 4994 Wt. Pipe Run — WL 7.2

Total Depth 5060 Chlorides 1600 ppm System LCM 6#

Blow Description IF Gust to surface

IGI No return.

FF # Gauged gas

FSI No return.

Rec 130	Feet of 6mco	50 %gas	25 %oil	%water	25 %mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 130 BHT 118 Gravity — API RW — @ — °F Chlorides — ppm

Initial Hydrostatic 2470	☒ Test 2150	☐ Ruined Shale Packer	
Initial Flow 877 to 697	☒ Jars 350	☐ Ruined Packer	
Initial Shut-In 1254	☐ Circ Sub	☒ Hotel	
Final Flow 773 to 695	☐ Hourly Standby	☐ EM Tool Successful	
Final Shut-In 1251	☒ Mileage 154	☐ Accessibility	
Final Hydrostatic 2273	☐ Sampler	☒ Gas Sample 80	
T- On Location	☐ Straddle	☐ Oversized Hole	
Initial Flow 5 T-Started 0500	☐ Shale Packer	☐ Sub Total 80	
Initial Shut-In 60 T-Open 0529	☐ Extra Packer	☐ Total 2684	
Final Flow 60 T-Pulled 1137	☐ Extra Recorder	☐ Tool Loaded @	
Final Shut-In 90 T-Out 1348	☐ Day Standby	☐ MP/DST Disc't	

Comments

Approved By Our Representative

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71842

Well Name & No. Lelia May George 1-15 Test No. 4 Date 06/25/2024

Company Agricultural Energy Services Elevation 2750 KB 2738 GL

Address Edmond OK

Co. Rep / Geo Tom Williams Rig Duke #1

Location: Sec. 15 Twp 33s Rge. 31w Co. Seward State Ks

Interval Tested 5472 - 5565 Zone Tested Morrow - Chester

Anchor Length 93 Drill Pipe Run 5447 Mud Wt. 9.2

Top Packer Depth 5467 Drill Collars Run — Vis 52

Bottom Packer Depth 5472 Wt. Pipe Run — WL 7.2

Total Depth 5565 Chlorides 1500 ppm System LCM 2#

Blow Description IF 3 1/4" blow

ISI No return.

FF Gas to surface / not gaugeable

FSI No return.

Rec 35	Feet of mud	%gas	%oil	%water 100	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of oil spots in tool	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 35 BHT 135 Gravity — API RW — @ — *F Chlorides — ppm

Initial Hydrostatic 2714	☒ Test 2150	☐ Ruined Shale Packer	
Initial Flow 315 to 95	☒ Jars 300	☐ Ruined Packer	
Initial Shut-In 1684	☐ Circ Sub	☒ Hotel	
Final Flow 225 to 36	☐ Hourly Standby	☒ EM Tool Successful NO	-350
Final Shut-In 1486	☒ Mileage 154	☐ Accessibility	
Final Hydrostatic 2612	☐ Sampler	☒ Gas Sample	80
T- On Location 2330 06/24	☐ Straddle	☐ Oversized Hole	
Initial Flow 5 T-Started 0039	☐ Shale Packer	☐ Sub Total	-270
Initial Shut-In 30 T-Open 0315	☐ Extra Packer	☐ Total	2684
Final Flow 60 T-Pulled 0623	☐ Extra Recorder	☐ Tool Loaded @	
Final Shut-In 90 T-Out 0845	☐ Day Standby	☐ MP/DST Disc't	

Comments

Approved By Our Representative

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71843

Well Name & No. Lelia May George 1-15 Test No. 5 Date 06/26/2024

Company Agricultural Energy Services Elevation 2750 KB 2738 GL

Address Edmond OK

Co. Rep / Geo Tom Williams Rig Duke #1

Location: Sec. 15 Twp 33S Rge. 31W Co. Seward State KS

Interval Tested 5812-5834 Zone Tested St Louis C

Anchor Length 22 Drill Pipe Run 5794 Mud Wt. 9.2

Top Packer Depth 5807 Drill Collars Run — Vis 60

Bottom Packer Depth 5812 Wt. Pipe Run — WL 8.0

Total Depth 5834 Chlorides 2,000 ppm System LCM 2#

Blow Description IF 23" blow

ISI No return.

FF 235" blow

FSI No return.

Rec 50	Feet of GWMCO	35 %gas	35 %oil	5 %water	25 %mud	
Rec	Feet of 3000' GIP	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 50 BHT 129 Gravity — API RW — @ — °F Chlorides — ppm

Initial Hydrostatic	2929	☒ Test	2150	☐ Ruined Shale Packer	
Initial Flow	40 to 18	☒ Jars	300	☐ Ruined Packer	
Initial Shut-In	1094	☐ Circ Sub		☒ Hotel	X2
Final Flow	35 to 37	☐ Hourly Standby		☒ EM Tool Successful	NO -350
Final Shut-In	1641	☒ Mileage	88 RT 154	☐ Accessibility	
Final Hydrostatic	2859	☐ Sampler		☐ Gas Sample	
T- On Location	1030	☐ Straddle		☐ Oversized Hole	
Initial Flow 5	T-Started 1141	☐ Shale Packer		☐ Sub Total	-350
Initial Shut-In 30	T-Open 1416	☐ Extra Packer		☐ Total	2254
Final Flow 60	T-Pulled 1727	☐ Extra Recorder		☐ Tool Loaded	@
Final Shut-In 60	T-Out 1938	☐ Day Standby		☐ MP/DST Disc't	

Comments

Approved By Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71844

Well Name & No. Lelia May George 1-15 Test No. 6 Date 06/28/2024

Company Ag Energy Services Elevation 2750 KB 2738 GL

Address Edmond OK

Co. Rep / Geo Tom Williams Rig Duke #1

Location: Sec. 15 Twp 33S Rge. 31W Co. Seward State KS

Interval Tested 4620 - 4672 Zone Tested Prun

Anchor Length 52 Drill Pipe Run 4606 Mud Wt. 9.3

Top Packer Depth 4615/4620 Drill Collars Run — Vis 63

~~Bottom Packer~~ Straddle Depth 4672 Wt. Pipe Run — WL 8.8

Total Depth 6086 Chlorides 1750 ppm System LCM 6#

Blow Description NA Misrun

Rec	Feet of Misrun	%gas	%oil	%water	%mud
Rec	Feet of Hookwall couldnt find Hold	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 0 BHT — Gravity — API RW — @ — °F Chlorides — ppm

Initial Hydrostatic	☒ Test 2000	☐ Ruined Shale Packer	
Initial Flow to	☒ Jars 300	☐ Ruined Packer	
Initial Shut-In	☐ Circ Sub	☐ Hotel	
Final Flow to Misrun	☐ Hourly Standby	☒ EM Tool Successful Hd -350	
Final Shut-In	① ☒ Mileage x2 154+154	☐ Accessibility	
Final Hydrostatic	☐ Sampler	☐ Gas Sample	
T- On Location 1530	☒ Straddle +hookwall 800+500	☐ Oversized Hole	
Initial Flow T-Started 16:17	☒ Shale Packer 250	☐ Sub Total 666.67-350	
Initial Shut-In T-Open	☐ Extra Packer	☐ Total 4474.67	
Final Flow T-Pulled 1845	☐ Extra Recorder	☐ Tool Loaded 06/28 @ 20:30	
Final Shut-In T-Out 2035	☒ Day Standby 1d 20h 666.67	☐ MP/DST Disc't	

Comments ① Went to Scott to get Hookwall tool

~~Tried 5' Below as upto~~

Tried 5' above throug 27' below target depth

Approved By Our Representative

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785-953-0222

HP OILFIELD SERVICES, LLC

TICKET NUMBER 2948 K-C
LOCATION Hugoton Ks
FOREMAN Walt Dinkel

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-16-24		Lelia May George #1-15	15	33 S	31 W	Seward

CUSTOMER: Agricultural Energy Services

MAILING ADDRESS:

CITY: | STATE: | ZIP CODE:

Meade Rd + RW 1/4 W, S

TRUCK #	DRIVER	TRUCK #	DRIVER
103	Cory D		
800-850	Lane N		
801-850	Lane N		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 1721 CASING SIZE & WEIGHT 8 5/8 24#

CASING DEPTH 1612' DRILL PIPE _____ TUBING _____ OTHER _____

SLURRY WEIGHT 12.5, 15.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 42'

DISPLACEMENT 103 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting, Rig up on Duke #1, Circ. casing on bottom mix 575 sks 65/35 poz, 6% Gel, 3% cc, 1/4# Flo-Seal, Tail in w/ 150 sks Class A, 3% cc - 2% Gel, release Plug + displace 103 BBL H_2O @ 850#, Landed Plug @ 1500#, released Pressure, Float Held. Cement Did not Circ. Tag Cement w/ 1" Tubing down backside, mix 40 sks Cement to surface

Thank You
Walt & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
	1	PUMP CHARGE	1,500.00	1,500.00
	20	MILEAGE	7.15	143.00
	33.94	Ton Mileage Delivery	1.25	1,187.90
	190 sks	Surface Blend II	26.00	4,940.00
	575 sks	Light Weight Blend IV	21.50	12,362.50
	144 #	Flo Seal	3.00	432.00
	1	8 5/8 Guide Shoe	650.00	650.00
	1	8 5/8 AFU insert	380.00	380.00
	3	8 5/8 Centralizers	110.00	330.00
	1	8 5/8 Rubber Plug	185.00	185.00
	1	8 5/8 Plug Container	500.00	500.00
				22,610.40
		Less 10% Disc		2261.04
				20,349.36
			SALES TAX	
			ESTIMATED TOTAL	

AUTHORIZATION [signature] TITLE _____ DATE _____

I acknowledge that the payments terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Agricultural Energy Services, Inc.

Lelia May George #1-15

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

Well Name:	**Lelia May George 1-15**		
API:	**15-175-22293-00-00**		
Location:	**SW-NW-SE-SE Section 15-T33S-R31W**		
License Number:	**34089**	**Region:**	**Seward Co., KS**
Spud Date:	**6/14/2024**	**Drilling Completed:**	**6/28/2024**
Surface Coordinates:	**856' FSL & 1212' FEL**		
Bottom Hole Coordinates:	**856' FSL & 1212' FEL**		
Ground Elevation (ft):	**2,737'**	**K.B. Elevation (ft):**	**2,750'**
Logged Interval (ft):	**2,400' To: 6,086**	**Total Depth (ft):**	**6,086'**
Formation:	**Mississippian Salem (Spergen)**		
Type of Drilling Fluid:	**Chemical**		

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

OPERATOR

Company: **Agricultural Energy Services, Inc.**
Address: **P.O. Box 31865**
Edmond, OK 73003

GEOLOGIST

Name: **Thomas M. Williams**
Company: **Petroleum Geologist**
Address: **Wichita, KS**

CORE

Contractor:			
Core #:			
Formation:			
Core Interval:	**From:**	**Cut:**	
	To:	**Recovered:**	
Bit type:			
Size:			
Coring Time:			

Formation Tops

	Sample Top	E-Log Top
Herrington	2590 (+160)	2592 (+158)
Krider	2626 (+124)	2629 (+121)
Topeka	3621 (-871)	3624 (-874)
Oread Lm	4222 (-1472)	4220 (-1470)
Heebner Shale	4270 (-1520)	4270 (-1520)
Base/Heebner	4278 (-1528)	4278 (-1528)
Lansing	4410 (-1660)	4408 (-1658)
Kansas City	4478 (-1728)	4477 (-1727)
Iola Lime	4593 (-1843)	4592 (-1842)
Drum (1)	4659 (-1909)	4658 (-1908)
Drum (2)	4702 (-1952)	4701 (-1951)
Swope Lm	4875 (-2125)	4877 (-2127)
Swope Porosity	4891 (-2141)	4888 (-2138)
Marmaton (Lenapah)	5010 (-2260)	5010 (-2260)
Cherokee Sh	5193 (-2443)	5216 (-2466)
Morrow Sh	5490 (-2740)	5526 (-2776)
Ste. Genevieve	5655 (-2905)	5654 (-2904)
St. Louis	5725 (-2976)	5729 (-2979)
'B' Porosity	5812 (-3062)	5814 (-3064)
Salem (Spergen)	6000 (-3250)	5999 (-3249)

DSTs

DST #1 - Swope Lm - 4884-4900'
IFP 121-73# 5"
ISIP 1386# 30"
FFP 63-127# 60"
FSIP 1366# 90"
GTS 15 Min. FF
120' SOCMW
120' MCW

DST #2 - 4465-4485' - Kansas City
Straddle Test from 4900'
IFP 59-60# 5"
ISIP 1244# 30"
FFP 75-215# 60"
FSIP 1242# 90"
4000' GIP
150' GOCM
25% Oil
260' MCW

DST #3 - Marmaton - 4094-5060'
IFP 877-697# 5"
ISIP 1254# 60"
FFP 773-75# 60"
FSIP 1251# 90"
GA 3.25 MMCF
130' GMCO
50% Gas
25% Oil
25% Mud

DST #4 - 5472-5565' - Morrow Lime
IF 315-95# 5"
ISIP 1684# 30"
FF 225-36# 60"
FSIP 1486# 90"
GTS TSTM
35' Mud w/ oil spots

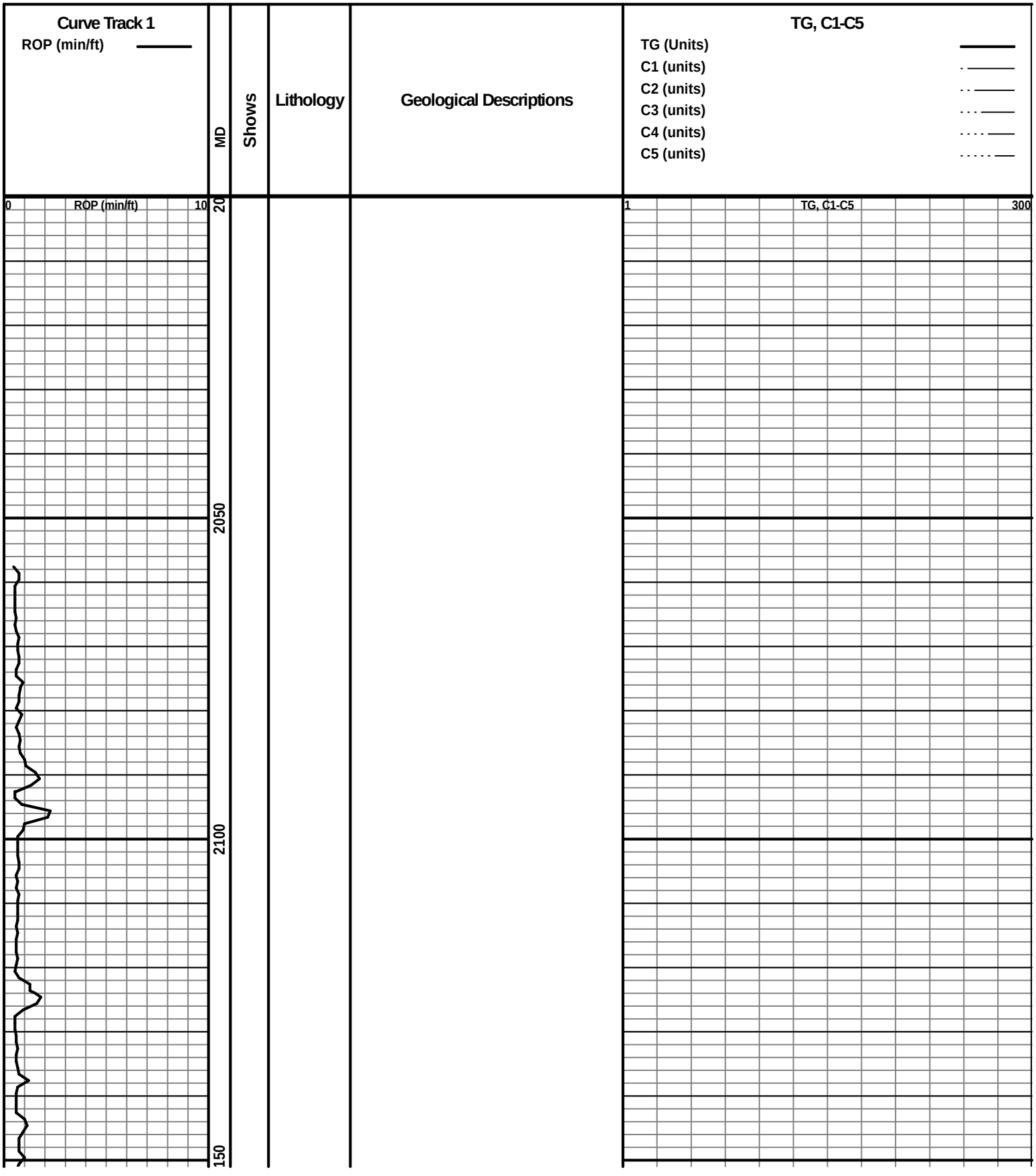
DST #5 - 5812-5834' - St. Louis 'B'
IF 40-18# 5"
ISI 1099 30"
FF 35-37# 60"
FSI 1641# 90"
Rec: 3000' GIP
50' GSWMCO
35% Gas
35% Oil

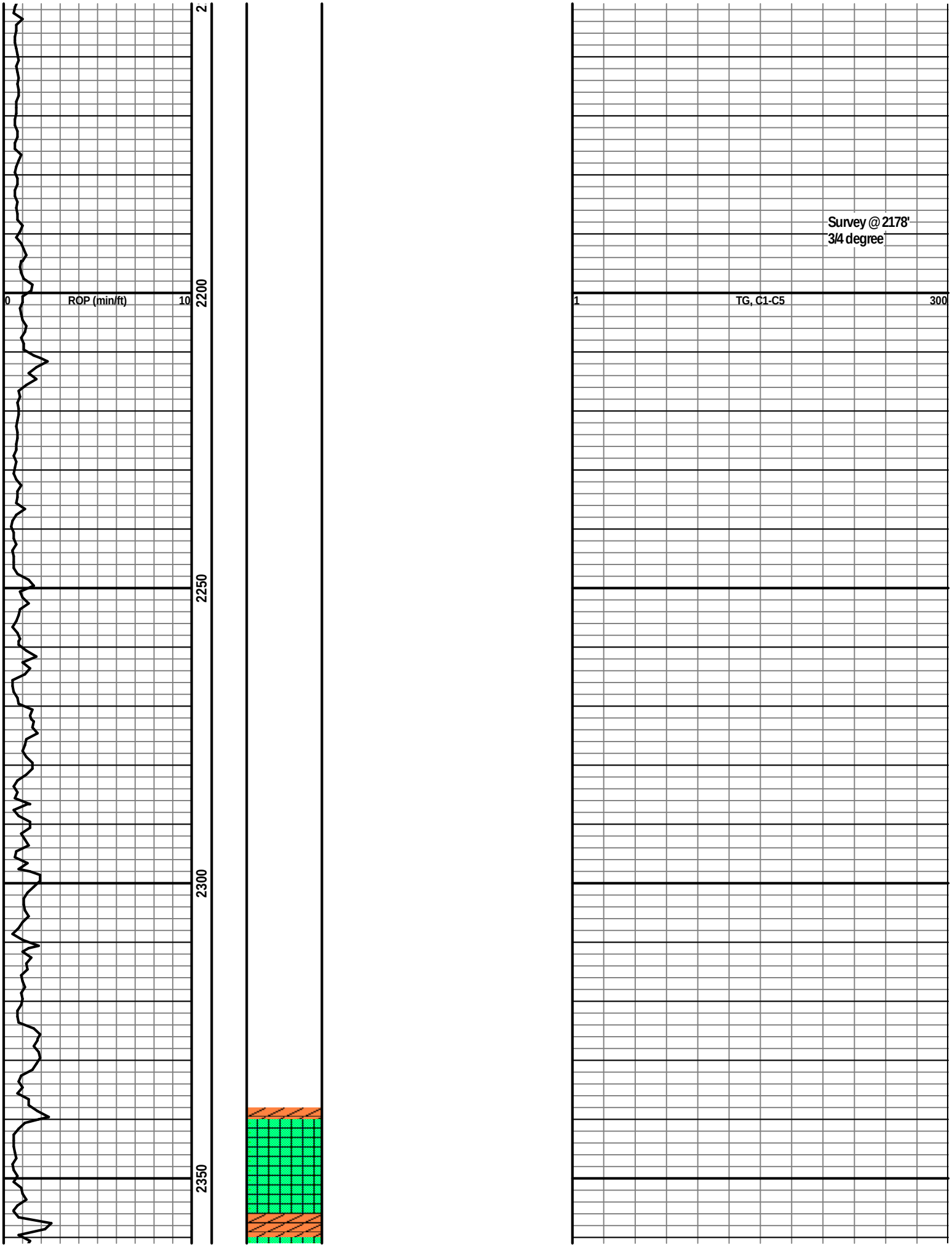
DST #6 - 4620-4672' - Drum Lm
Hookwall Test - Mis-Run

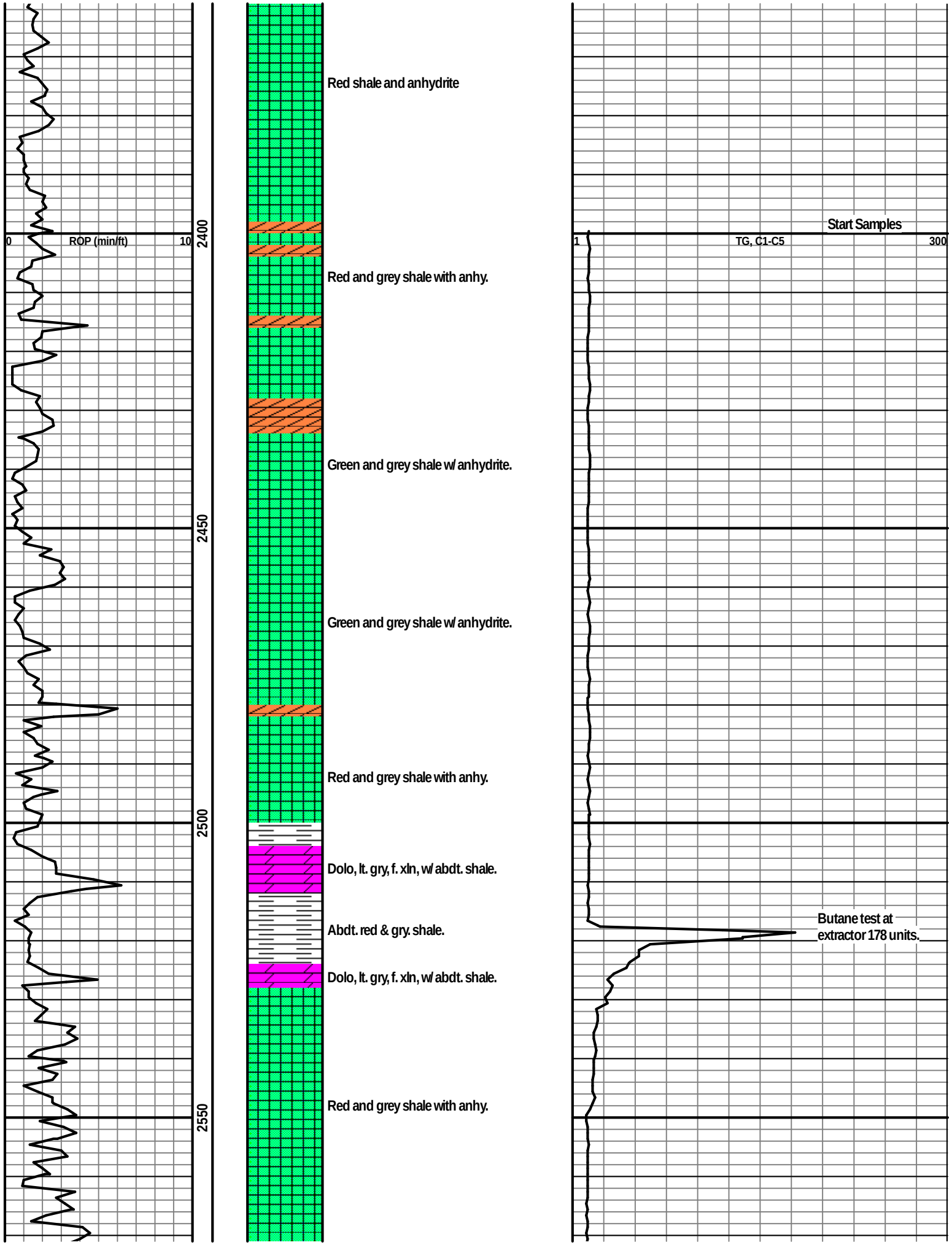
Comments

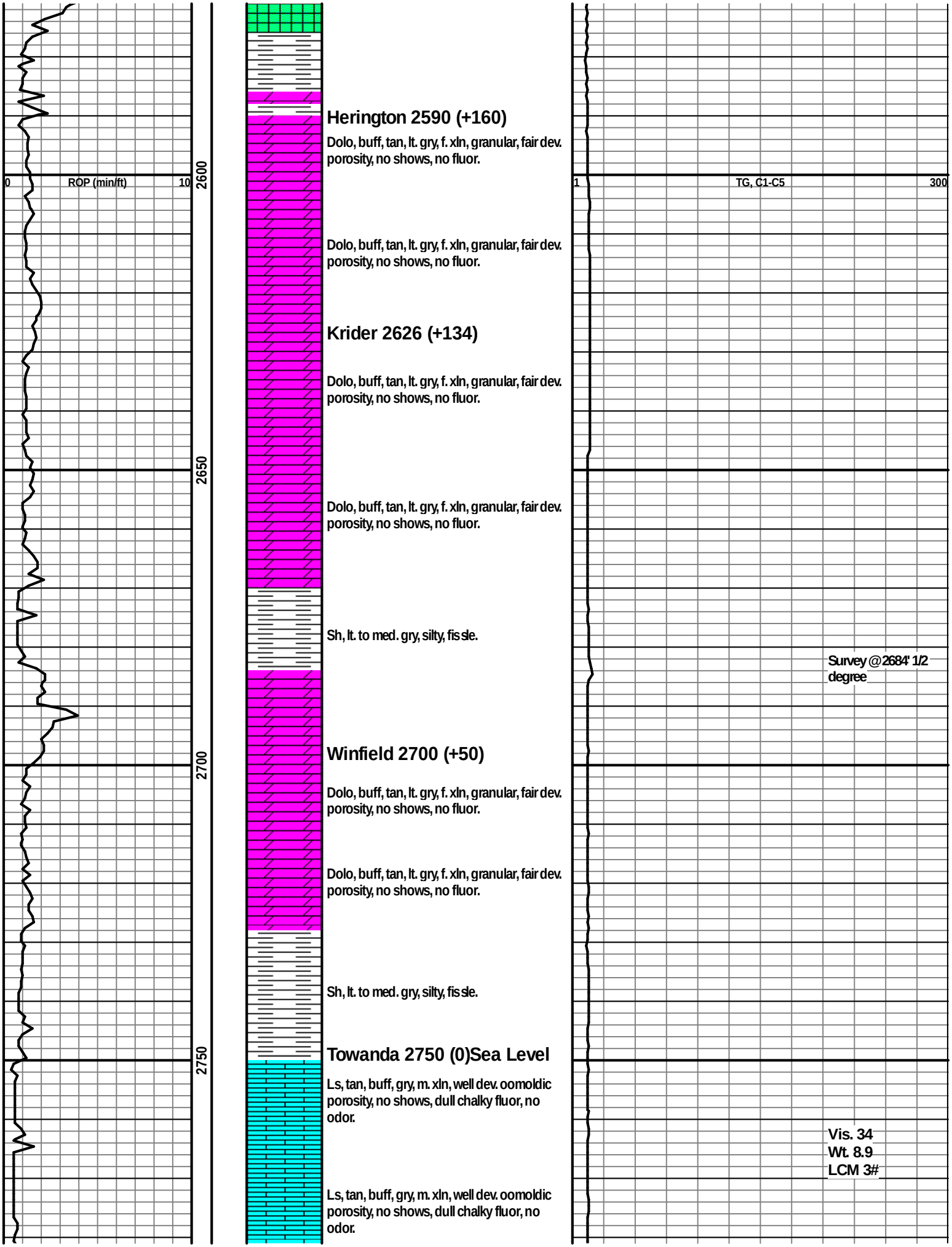
ROCK TYPES

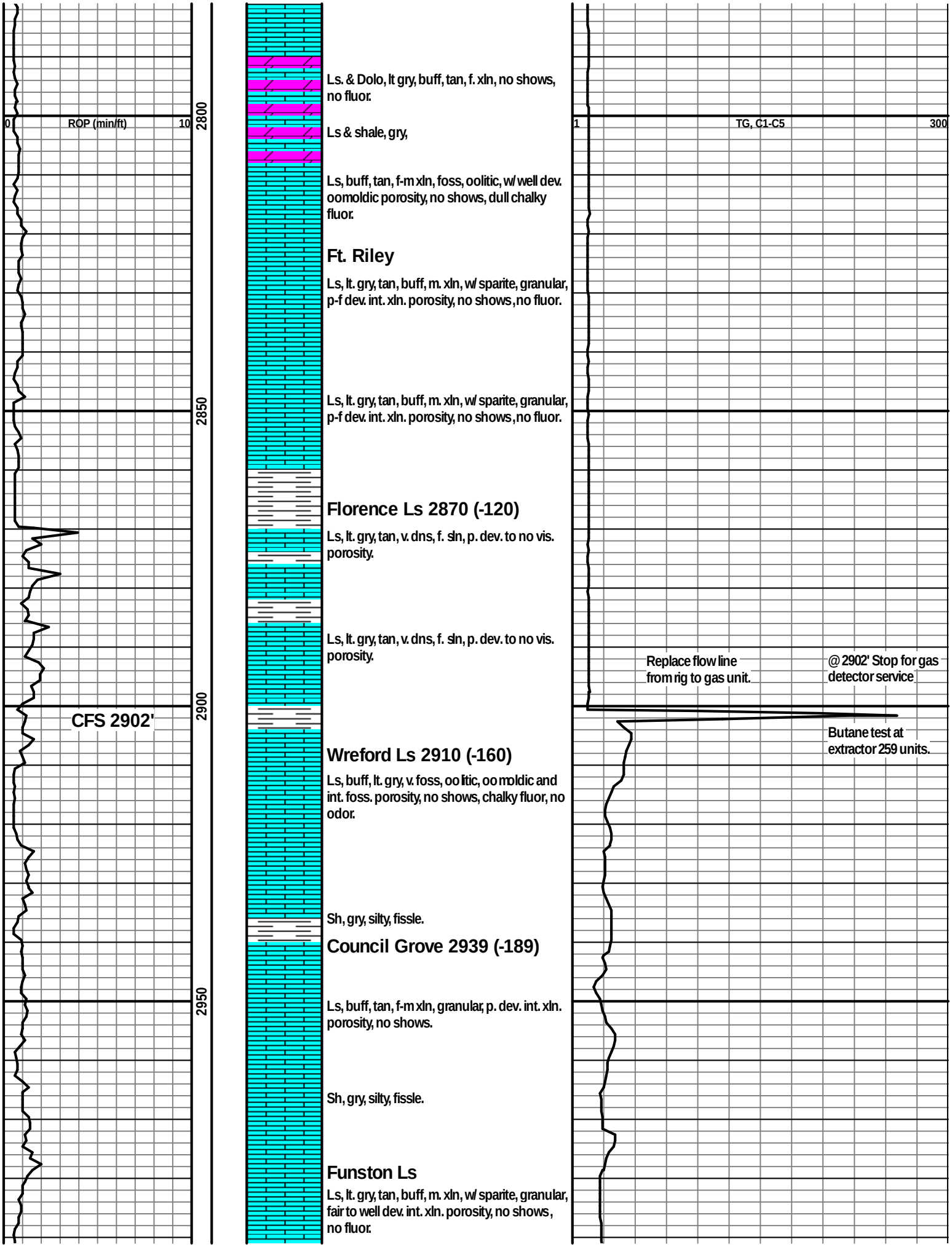
Anhy	Carb.sh	Lmst	Shcol
Bent	Congl	Meta	Shgy
Brec	Dol	Mrlst	Sltst
Cht	Gyp	Salt	Ss
Clyst	Igne	Shale	Till

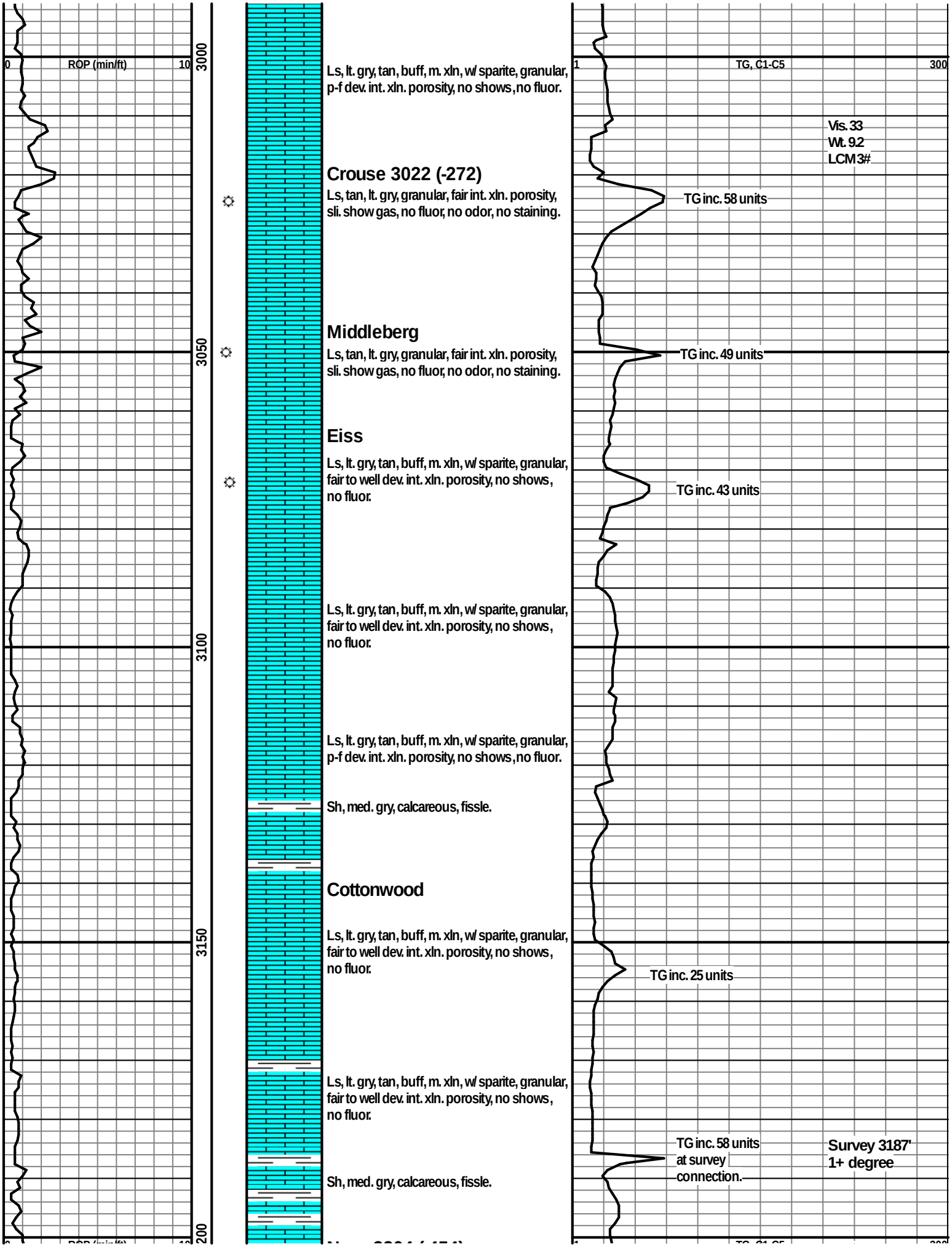


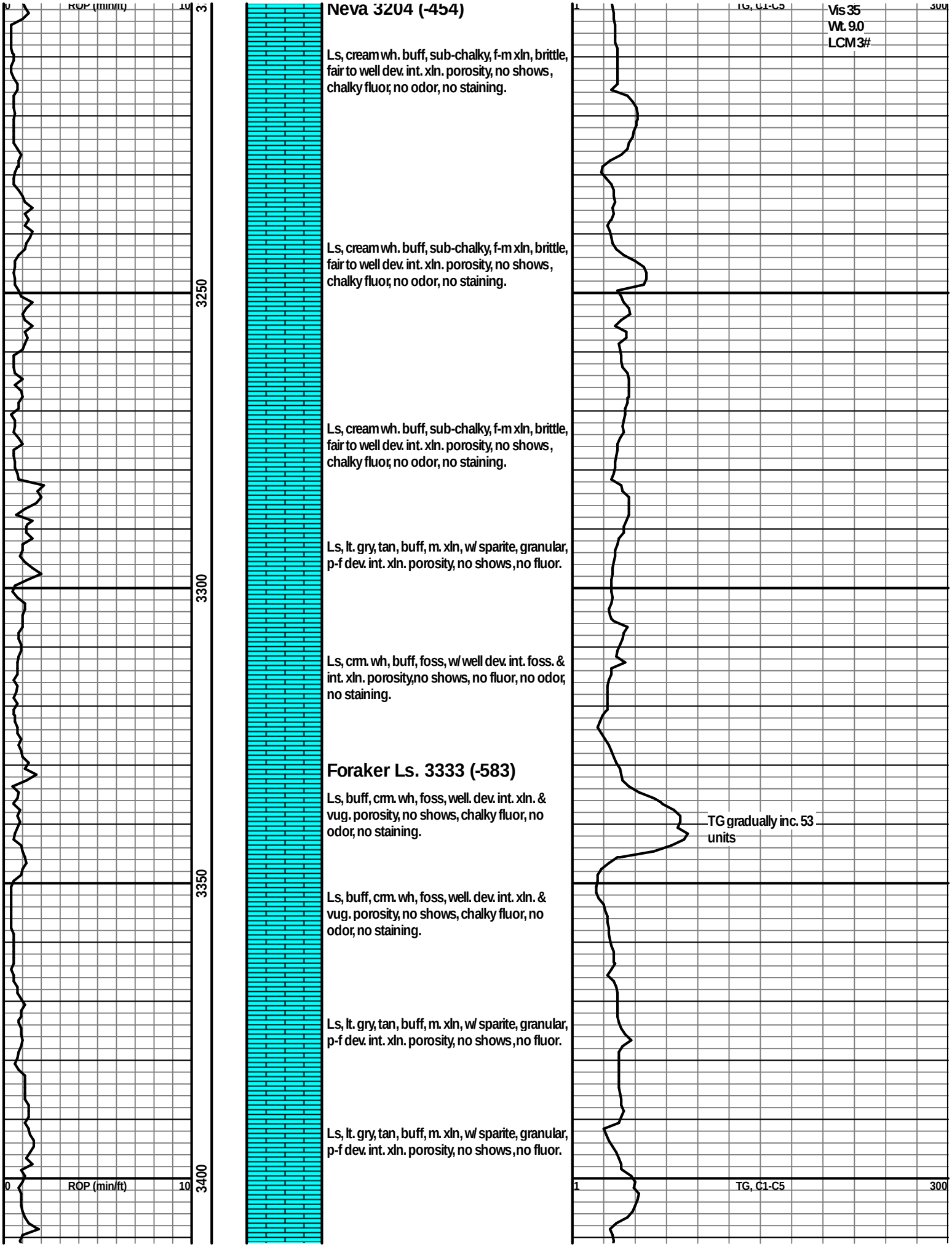

2
0
ROP (min/ft)
10
2200
2250
2300
2350
Survey @ 2178'
3/4 degree
1
TG, C1-C5
300

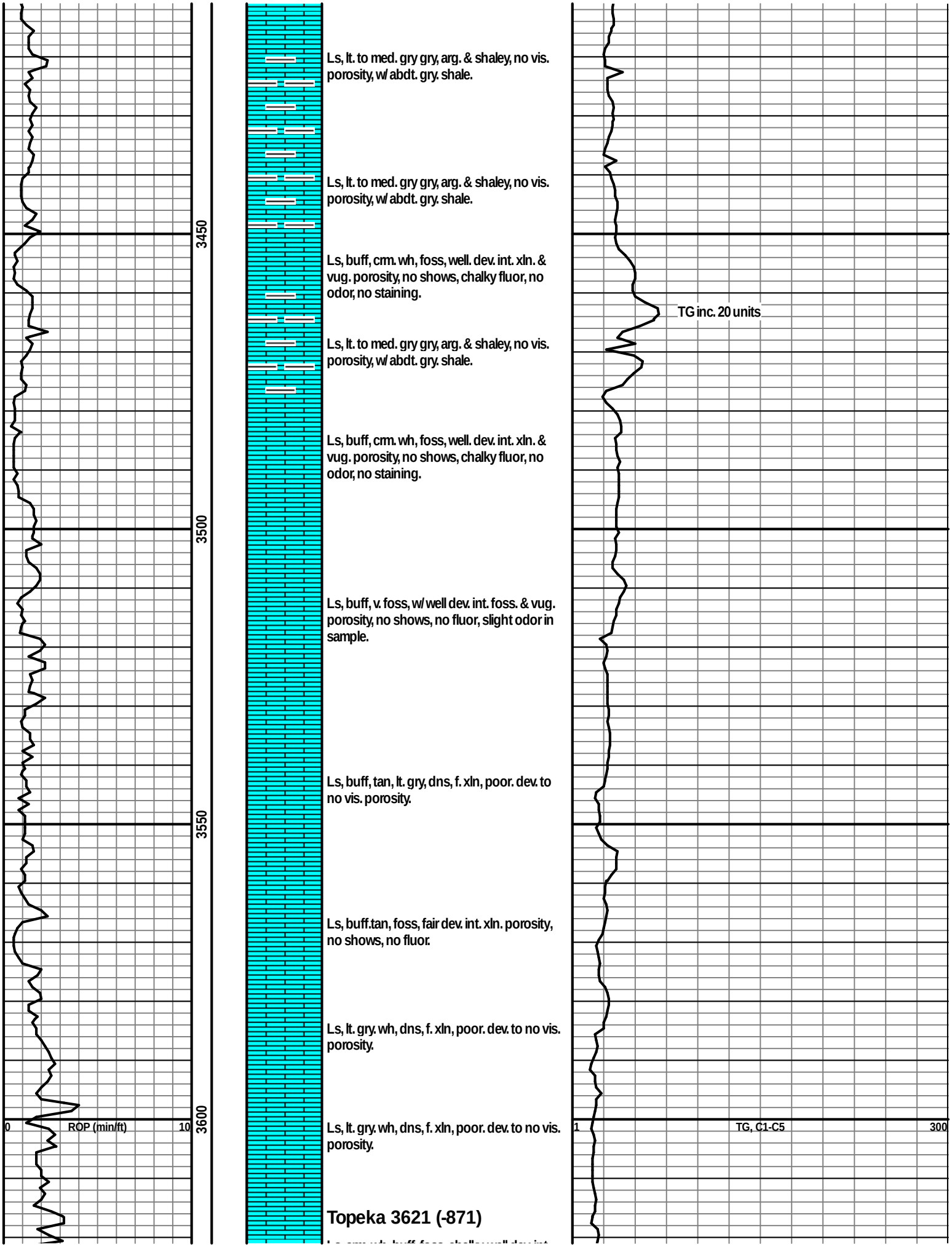

0
ROP (min/ft)
10
2400
2450
2500
2550
Red shale and anhydrite
Red and grey shale with anhy.
Green and grey shale w/ anhydrite.
Green and grey shale w/ anhydrite.
Red and grey shale with anhy.
Dolo, lt. gry, f. xln, w/ abdt. shale.
Abdt. red & gry. shale.
Dolo, lt. gry, f. xln, w/ abdt. shale.
Red and grey shale with anhy.
Start Samples
1
TG, C1-C5
300
Butane test at
extractor 178 units.

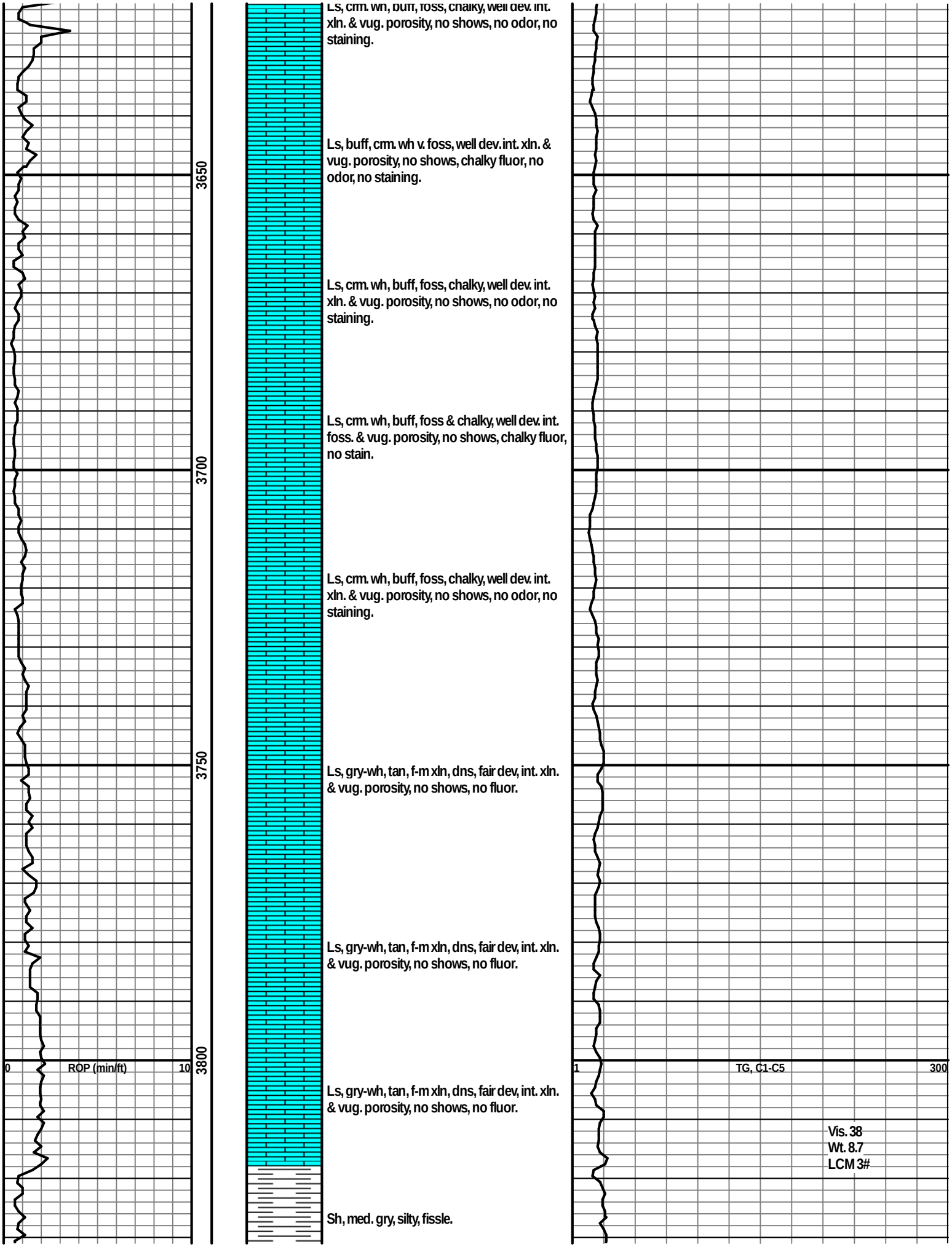

0
ROP (min/ft)
10
2600
2650
2700
2750
1
TG, C1-C5
300
Herington 2590 (+160)
Dolo, buff, tan, lt. gry, f. xln, granular, fair dev. porosity, no shows, no fluor.
Dolo, buff, tan, lt. gry, f. xln, granular, fair dev. porosity, no shows, no fluor.
Krider 2626 (+134)
Dolo, buff, tan, lt. gry, f. xln, granular, fair dev. porosity, no shows, no fluor.
Dolo, buff, tan, lt. gry, f. xln, granular, fair dev. porosity, no shows, no fluor.
Sh, lt. to med. gry, silty, fissle.
Survey @2684' 1/2 degree
Winfield 2700 (+50)
Dolo, buff, tan, lt. gry, f. xln, granular, fair dev. porosity, no shows, no fluor.
Dolo, buff, tan, lt. gry, f. xln, granular, fair dev. porosity, no shows, no fluor.
Sh, lt. to med. gry, silty, fissle.
Towanda 2750 (0)Sea Level
Ls, tan, buff, gry, m. xln, well dev. oomoldic porosity, no shows, dull chalky fluor, no odor.
Vis. 34
Wt. 8.9
LCM 3#
Ls, tan, buff, gry, m. xln, well dev. oomoldic porosity, no shows, dull chalky fluor, no odor.

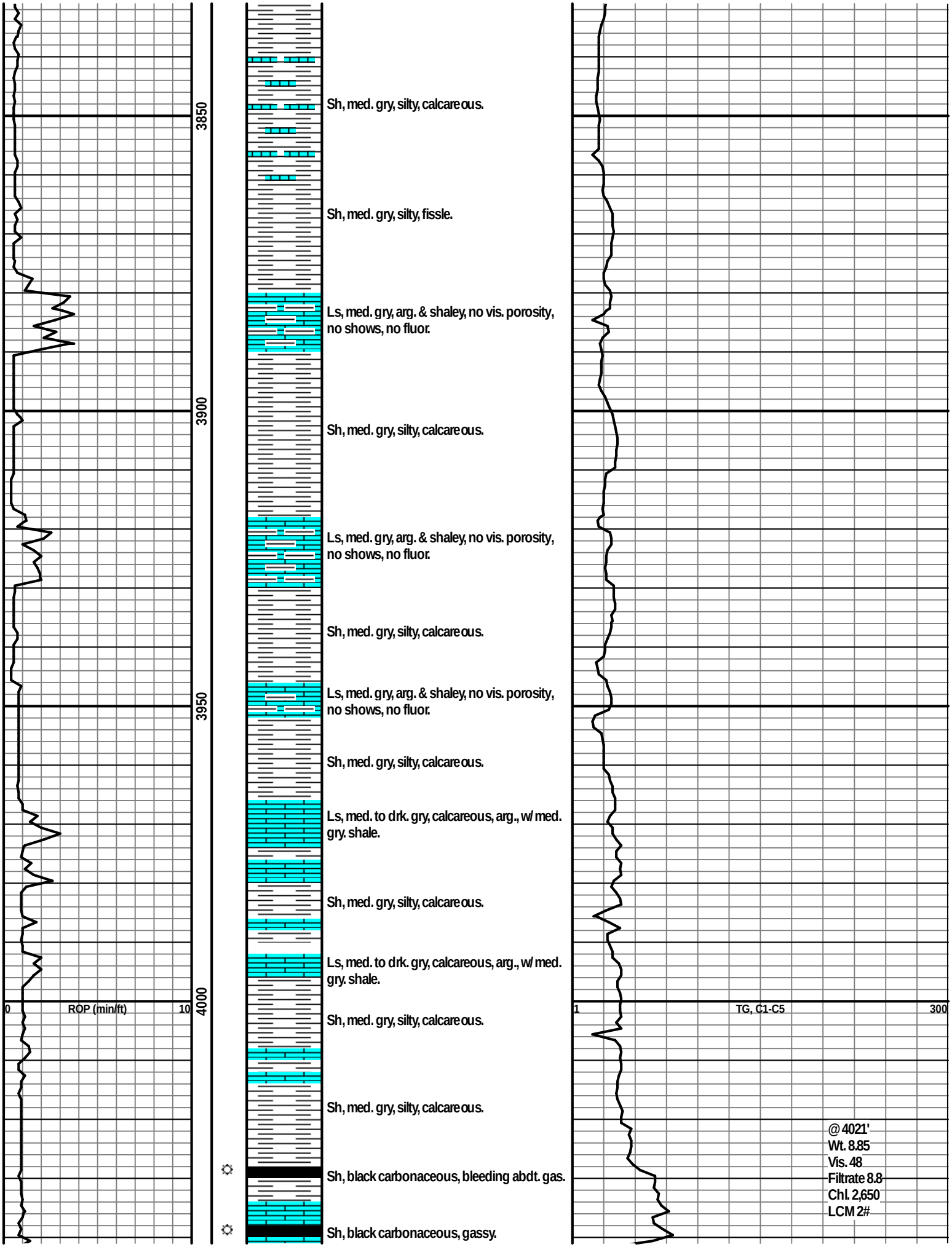

0
ROP (min/ft)
10
2800
2850
2900
2950
CFS 2902'
1
TG, C1-C5
300
Ls. & Dolo, lt gry, buff, tan, f. xln, no shows, no fluor.
Ls & shale, gry,
Ls, buff, tan, f-m xln, foss, oolitic, w/ well dev. oomoldic porosity, no shows, dull chalky fluor.
Ft. Riley
Ls, lt. gry, tan, buff, m. xln, w/ sparite, granular, p-f dev. int. xln. porosity, no shows, no fluor.
Ls, lt. gry, tan, buff, m. xln, w/ sparite, granular, p-f dev. int. xln. porosity, no shows, no fluor.
Florence Ls 2870 (-120)
Ls, lt. gry, tan, v. dns, f. sln, p. dev. to no vis. porosity.
Ls, lt. gry, tan, v. dns, f. sln, p. dev. to no vis. porosity.
Replace flow line from rig to gas unit.
@ 2902' Stop for gas detector service
Butane test at extractor 259 units.
Wreford Ls 2910 (-160)
Ls, buff, lt. gry, v. foss, oo litic, oo moldic and int. foss. porosity, no shows, chalky fluor, no odor.
Sh, gry, silty, fissle.
Council Grove 2939 (-189)
Ls, buff, tan, f-m xln, granular, p. dev. int. xln. porosity, no shows.
Sh, gry, silty, fissle.
Funston Ls
Ls, lt. gry, tan, buff, m. xln, w/ sparite, granular, fair to well dev. int. xln. porosity, no shows, no fluor.

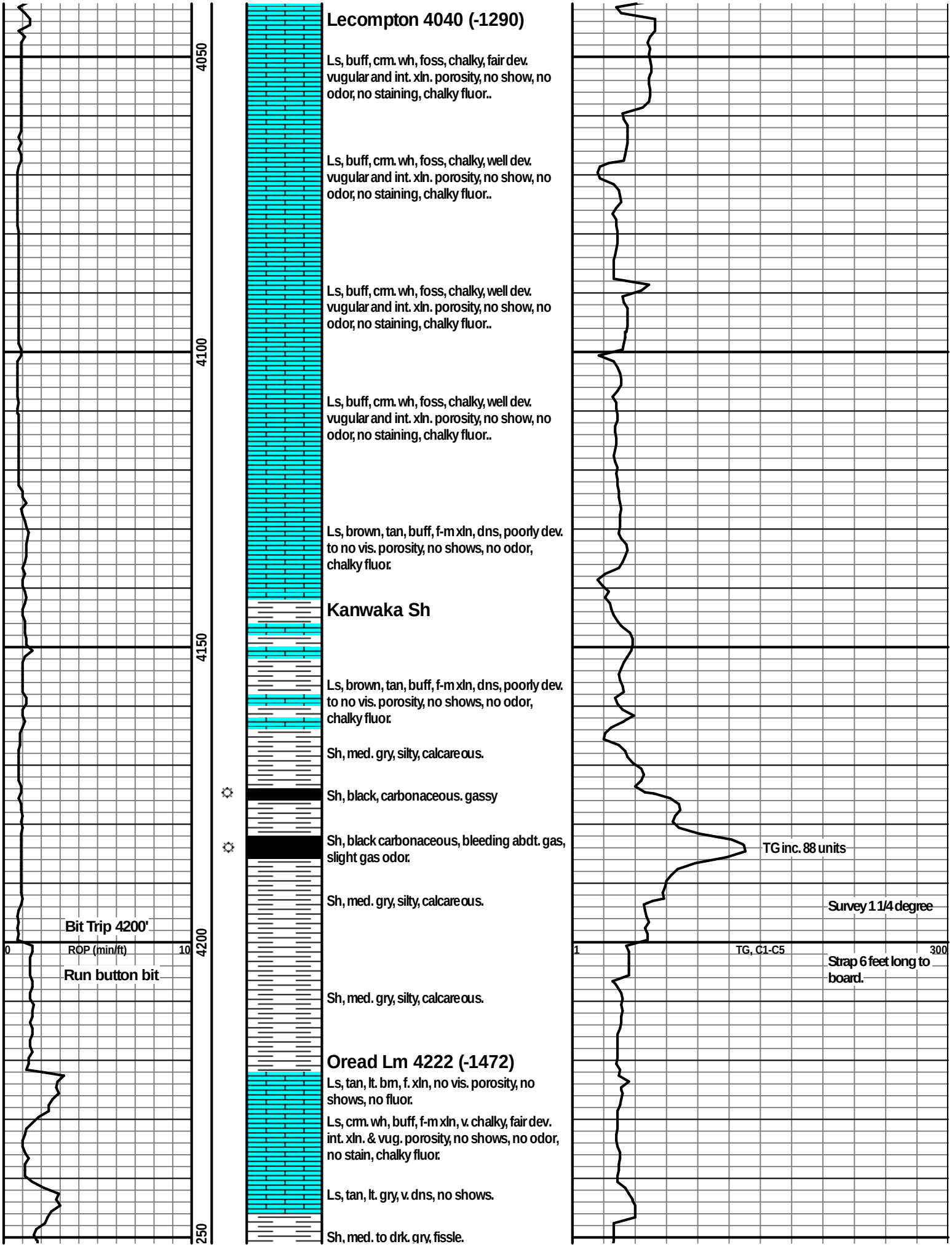

0
ROP (min/ft)
10
3000
3050
3100
3150
3200
Ls, lt. gry, tan, buff, m. xln, w/ sparite, granular, p-f dev. int. xln. porosity, no shows, no fluor.
Crouse 3022 (-272)
Ls, tan, lt. gry, granular, fair int. xln. porosity, sli. show gas, no fluor, no odor, no staining.
Middleberg
Ls, tan, lt. gry, granular, fair int. xln. porosity, sli. show gas, no fluor, no odor, no staining.
Eiss
Ls, lt. gry, tan, buff, m. xln, w/ sparite, granular, fair to well dev. int. xln. porosity, no shows, no fluor.
Ls, lt. gry, tan, buff, m. xln, w/ sparite, granular, fair to well dev. int. xln. porosity, no shows, no fluor.
Ls, lt. gry, tan, buff, m. xln, w/ sparite, granular, p-f dev. int. xln. porosity, no shows, no fluor.
Sh, med. gry, calcareous, fissle.
Cottonwood
Ls, lt. gry, tan, buff, m. xln, w/ sparite, granular, fair to well dev. int. xln. porosity, no shows, no fluor.
Ls, lt. gry, tan, buff, m. xln, w/ sparite, granular, fair to well dev. int. xln. porosity, no shows, no fluor.
Sh, med. gry, calcareous, fissle.
1
TG, C1-C5
300
Vis. 33
Wt. 9.2
LCM 3#
TG inc. 58 units
TG inc. 49 units
TG inc. 43 units
TG inc. 25 units
TG inc. 58 units at survey connection.
Survey 3187'
1+ degree

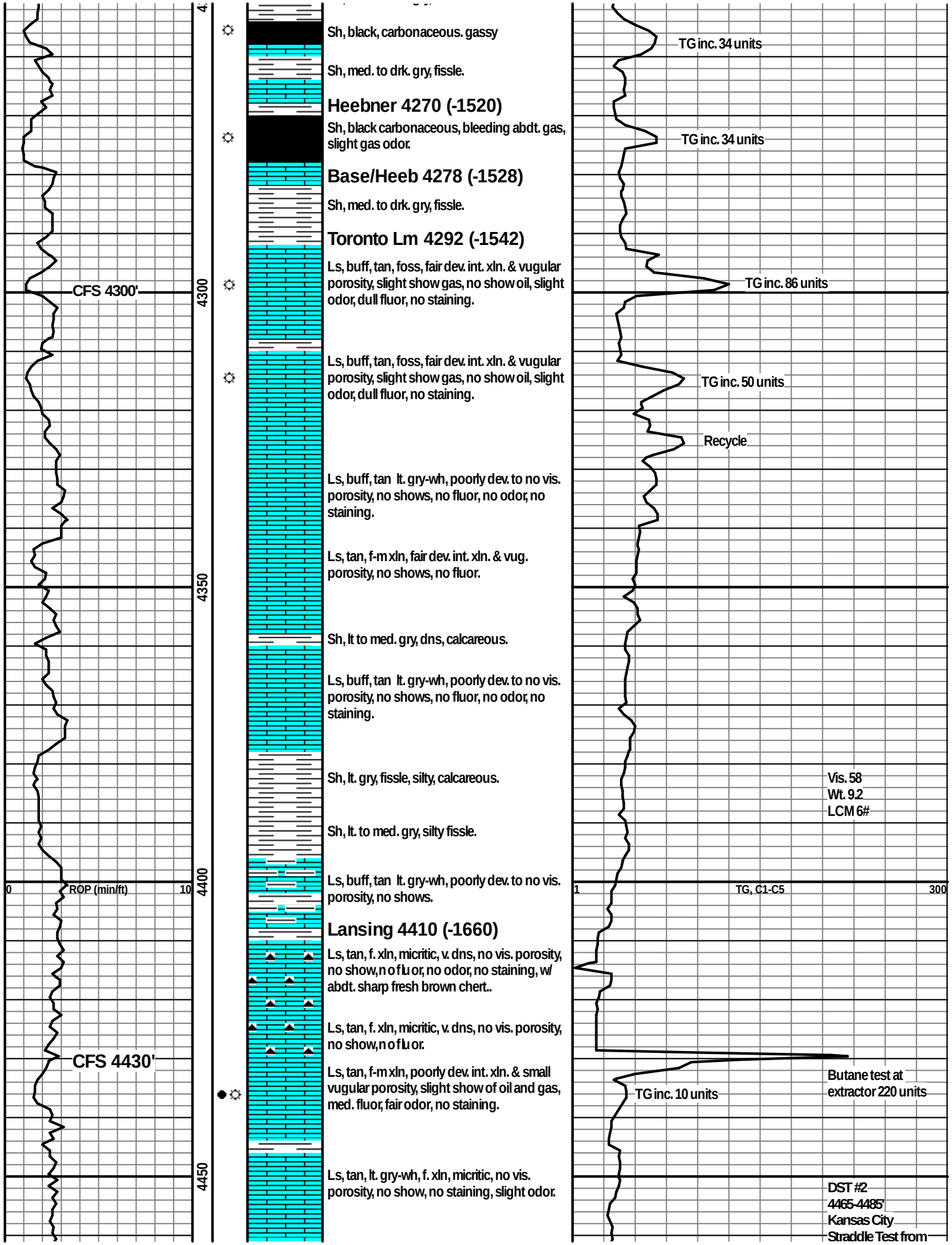

ROP (min/ft)
0
10
TG, C1-C5
1
300
Vis 35
Wt. 9.0
LCM 3#
3250
3300
3350
3400
Neva 3204 (-454)
Ls, cream wh. buff, sub-chalky, f-m xln, brittle, fair to well dev. int. xln. porosity, no shows, chalky fluor, no odor, no staining.
Ls, cream wh. buff, sub-chalky, f-m xln, brittle, fair to well dev. int. xln. porosity, no shows, chalky fluor, no odor, no staining.
Ls, cream wh. buff, sub-chalky, f-m xln, brittle, fair to well dev. int. xln. porosity, no shows, chalky fluor, no odor, no staining.
Ls, lt. gry, tan, buff, m. xln, w/ sparite, granular, p-f dev. int. xln. porosity, no shows, no fluor.
Ls, crm. wh, buff, foss, w/ well dev. int. foss. & int. xln. porosity,no shows, no fluor, no odor, no staining.
Foraker Ls. 3333 (-583)
Ls, buff, crm. wh, foss, well. dev. int. xln. & vug. porosity, no shows, chalky fluor, no odor, no staining.
TG gradually inc. 53 units
Ls, buff, crm. wh, foss, well. dev. int. xln. & vug. porosity, no shows, chalky fluor, no odor, no staining.
Ls, lt. gry, tan, buff, m. xln, w/ sparite, granular, p-f dev. int. xln. porosity, no shows, no fluor.
Ls, lt. gry, tan, buff, m. xln, w/ sparite, granular, p-f dev. int. xln. porosity, no shows, no fluor.
ROP (min/ft)
0
10
TG, C1-C5
1
300

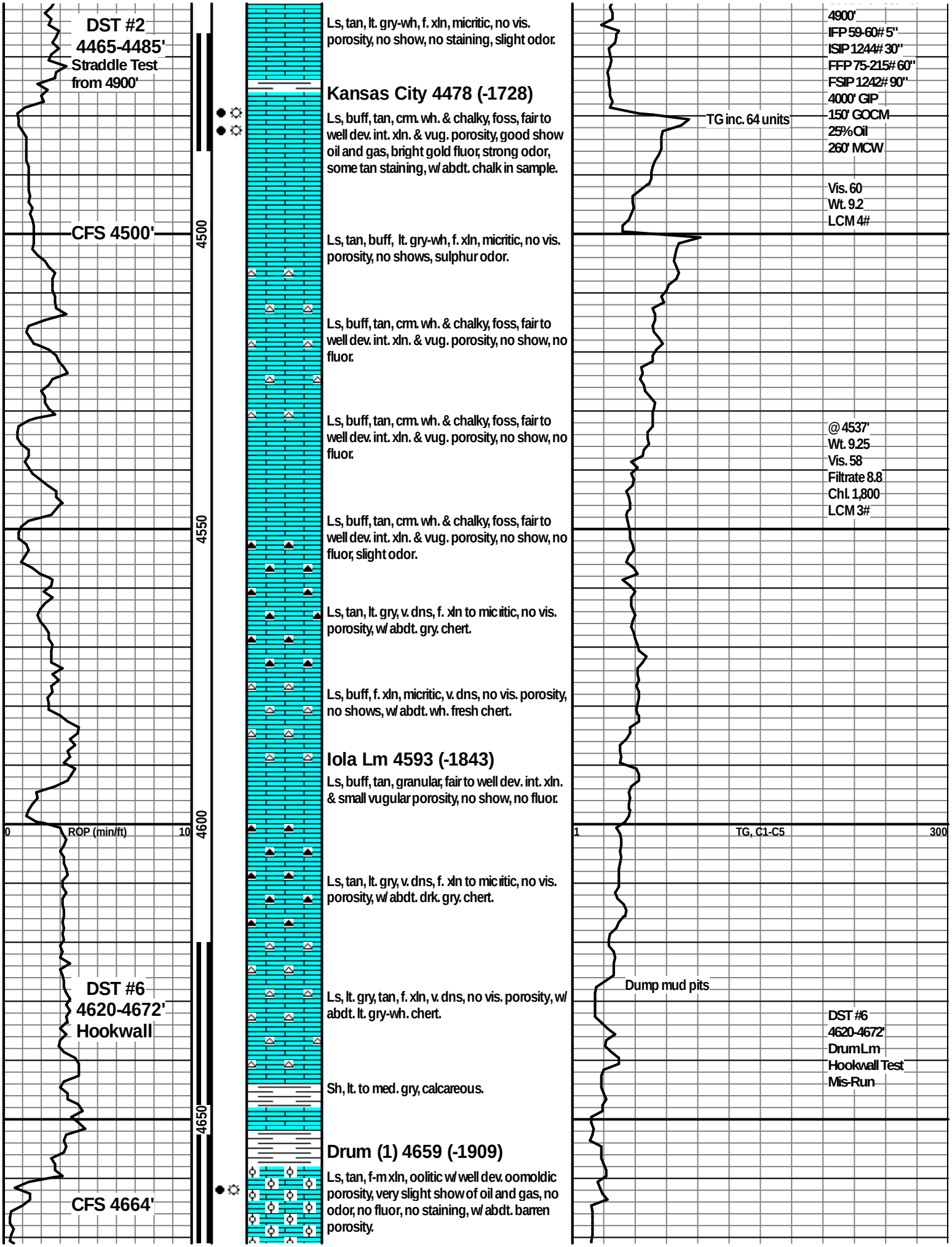

3450
3500
3550
3600
0
ROP (min/ft)
10
Ls, lt. to med. gry gry, arg. & shaley, no vis. porosity, w/ abdt. gry. shale.
Ls, lt. to med. gry gry, arg. & shaley, no vis. porosity, w/ abdt. gry. shale.
Ls, buff, crm. wh, foss, well. dev. int. xln. & vug. porosity, no shows, chalky fluor, no odor, no staining.
Ls, lt. to med. gry gry, arg. & shaley, no vis. porosity, w/ abdt. gry. shale.
Ls, buff, crm. wh, foss, well. dev. int. xln. & vug. porosity, no shows, chalky fluor, no odor, no staining.
Ls, buff, v. foss, w/ well dev. int. foss. & vug. porosity, no shows, no fluor, slight odor in sample.
Ls, buff, tan, lt. gry, dns, f. xln, poor. dev. to no vis. porosity.
Ls, buff.tan, foss, fair dev. int. xln. porosity, no shows, no fluor.
Ls, lt. gry. wh, dns, f. xln, poor. dev. to no vis. porosity.
Ls, lt. gry. wh, dns, f. xln, poor. dev. to no vis. porosity.
Topeka 3621 (-871)
TG inc. 20 units
1
TG, C1-C5
300

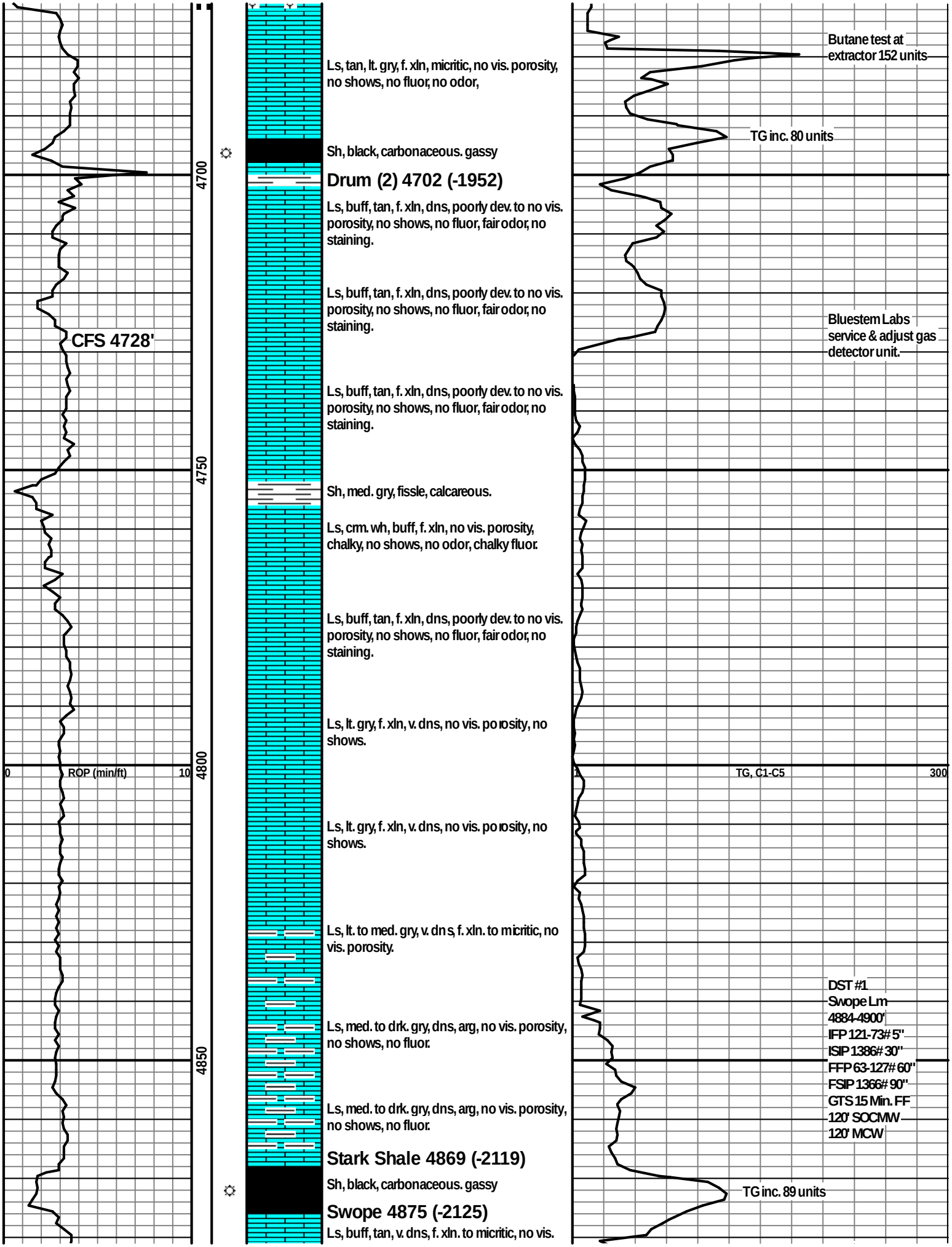

Ls, crm. wh, buff, foss, chalky, well dev. int. xln. & vug. porosity, no shows, no odor, no staining.
Ls, buff, crm. wh v. foss, well dev. int. xln. & vug. porosity, no shows, chalky fluor, no odor, no staining.
Ls, crm. wh, buff, foss, chalky, well dev. int. xln. & vug. porosity, no shows, no odor, no staining.
Ls, crm. wh, buff, foss & chalky, well dev. int. foss. & vug. porosity, no shows, chalky fluor, no stain.
Ls, crm. wh, buff, foss, chalky, well dev. int. xln. & vug. porosity, no shows, no odor, no staining.
Ls, gry-wh, tan, f-m xln, dns, fair dev, int. xln. & vug. porosity, no shows, no fluor.
Ls, gry-wh, tan, f-m xln, dns, fair dev, int. xln. & vug. porosity, no shows, no fluor.
Ls, gry-wh, tan, f-m xln, dns, fair dev, int. xln. & vug. porosity, no shows, no fluor.
Sh, med. gry, silty, fissle.
3650
3700
3750
3800
0
ROP (min/ft)
10
1
TG, C1-C5
300
Vis. 38
Wt. 8.7
LCM 3#

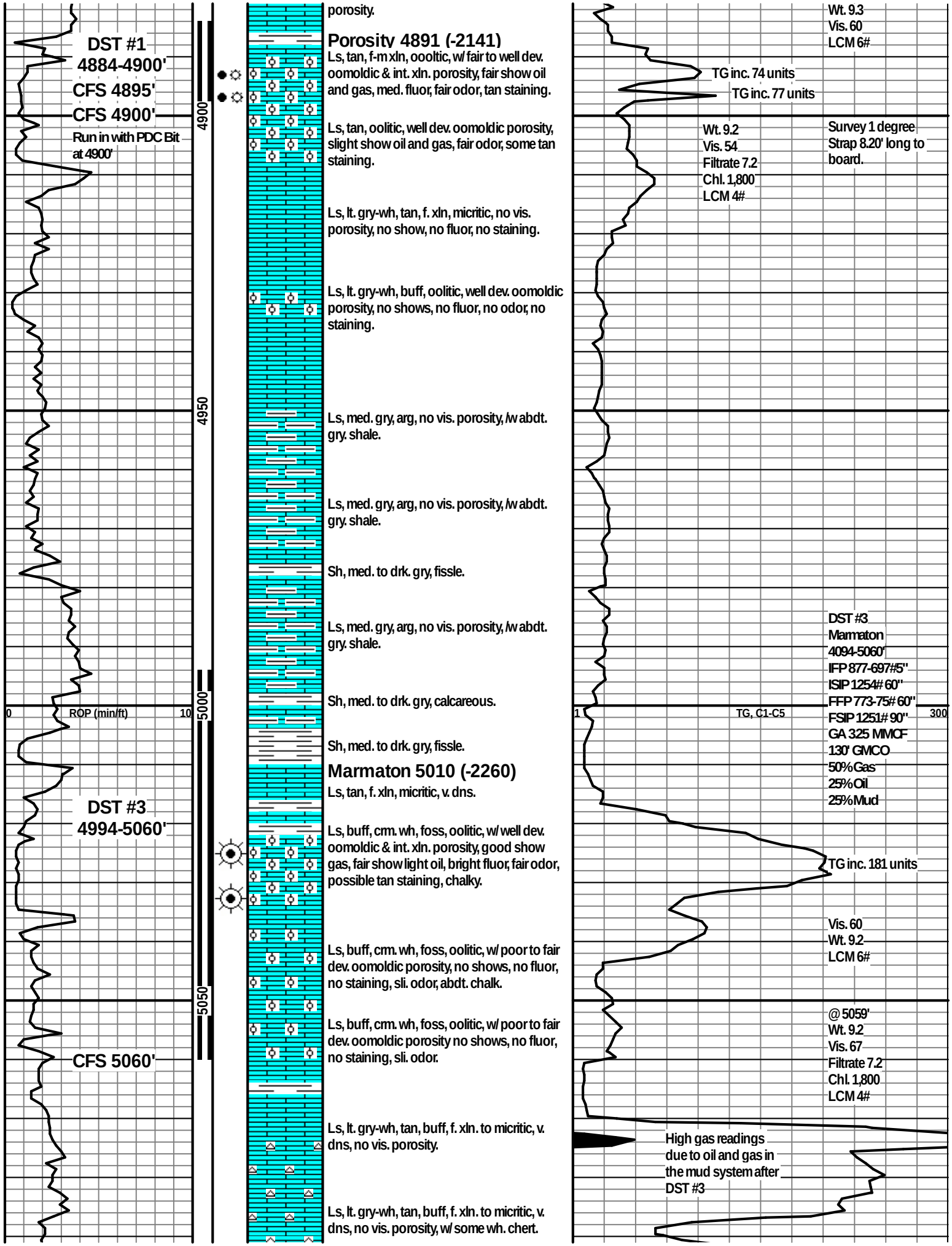

3850
3900
3950
4000
0
ROP (min/ft)
10
Sh, med. gry, silty, calcareous.
Sh, med. gry, silty, fissle.
Ls, med. gry, arg. & shaley, no vis. porosity, no shows, no fluor.
Sh, med. gry, silty, calcareous.
Ls, med. gry, arg. & shaley, no vis. porosity, no shows, no fluor.
Sh, med. gry, silty, calcareous.
Ls, med. gry, arg. & shaley, no vis. porosity, no shows, no fluor.
Sh, med. gry, silty, calcareous.
Ls, med. to drk. gry, calcareous, arg., w/ med. gry. shale.
Sh, med. gry, silty, calcareous.
Ls, med. to drk. gry, calcareous, arg., w/ med. gry. shale.
Sh, med. gry, silty, calcareous.
Sh, med. gry, silty, calcareous.
Sh, black carbonaceous, bleeding abdt. gas.
Sh, black carbonaceous, gassy.
1
TG, C1-C5
300
@ 4021'
Wt. 8.85
Vis. 48
Filtrate 8.8
Chl. 2,650
LCM 2#

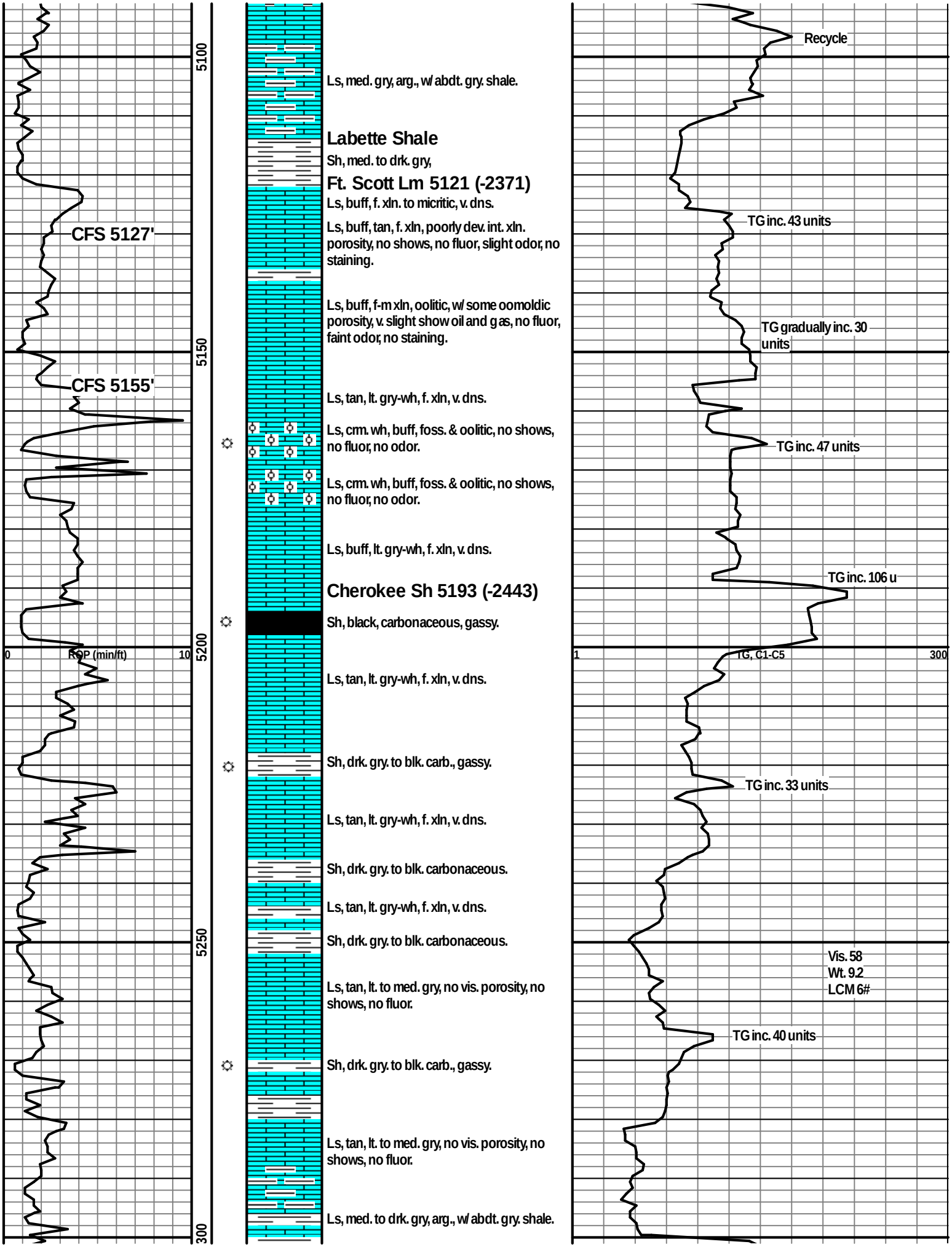

Lecompton 4040 (-1290)
Ls, buff, crm. wh, foss, chalky, fair dev. vugular and int. xln. porosity, no show, no odor, no staining, chalky fluor..
Ls, buff, crm. wh, foss, chalky, well dev. vugular and int. xln. porosity, no show, no odor, no staining, chalky fluor..
Ls, buff, crm. wh, foss, chalky, well dev. vugular and int. xln. porosity, no show, no odor, no staining, chalky fluor..
Ls, buff, crm. wh, foss, chalky, well dev. vugular and int. xln. porosity, no show, no odor, no staining, chalky fluor..
Ls, brown, tan, buff, f-m xln, dns, poorly dev. to no vis. porosity, no shows, no odor, chalky fluor.
Kanwaka Sh
Ls, brown, tan, buff, f-m xln, dns, poorly dev. to no vis. porosity, no shows, no odor, chalky fluor.
Sh, med. gry, silty, calcareous.
Sh, black, carbonaceous. gassy
Sh, black carbonaceous, bleeding abdt. gas, slight gas odor.
Sh, med. gry, silty, calcareous.
Sh, med. gry, silty, calcareous.
Oread Lm 4222 (-1472)
Ls, tan, lt. brn, f. xln, no vis. porosity, no shows, no fluor.
Ls, crm. wh, buff, f-m xln, v. chalky, fair dev. int. xln. & vug. porosity, no shows, no odor, no stain, chalky fluor.
Ls, tan, lt. gry, v. dns, no shows.
Sh, med. to drk. gry, fissle.
4050
4100
4150
4200
250
Bit Trip 4200'
0
ROP (min/ft)
10
Run button bit
TG inc. 88 units
Survey 1 1/4 degree
1
TG, C1-C5
300
Strap 6 feet long to board.

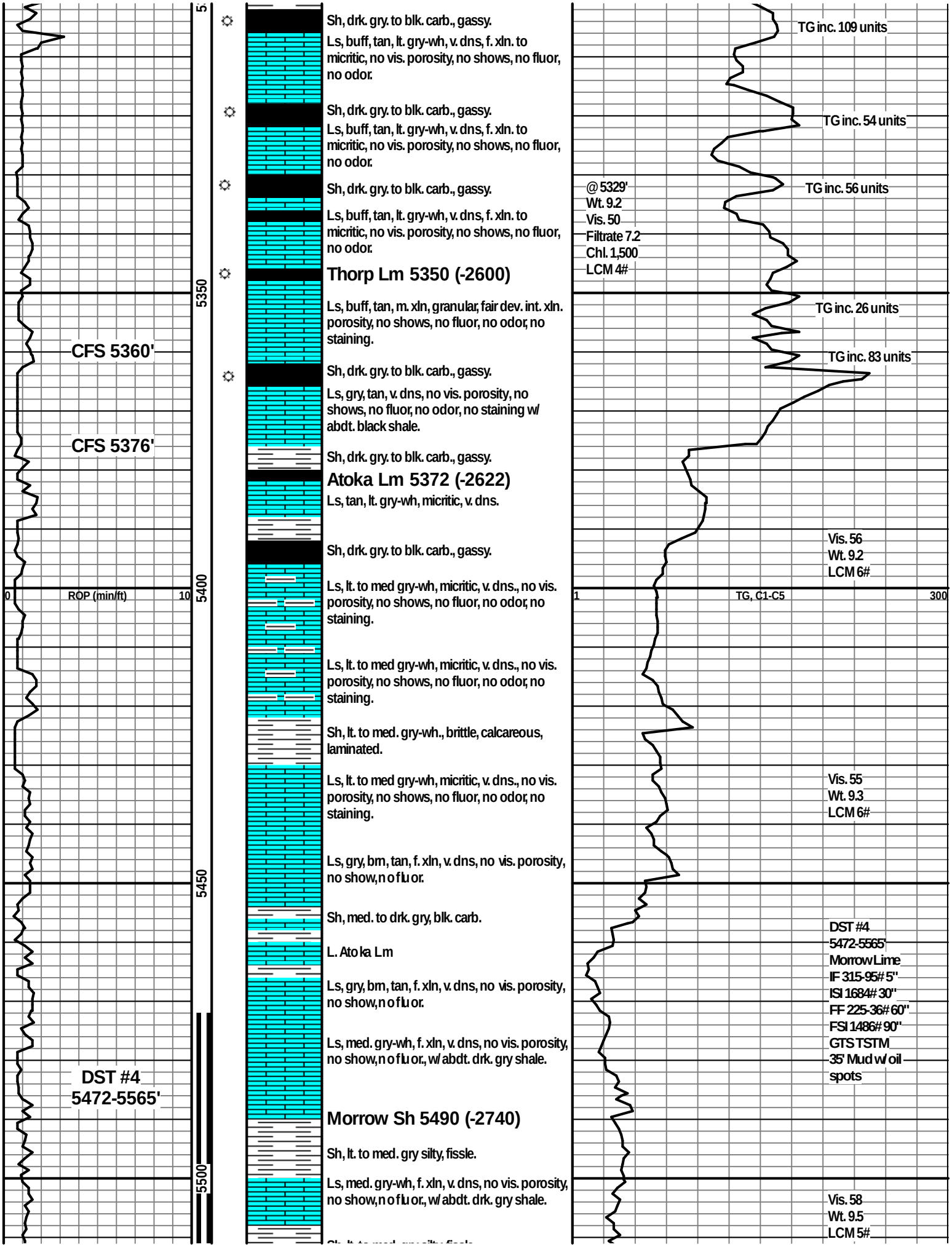

CFS 4300'
CFS 4430'
4300
4350
4400
4450
0
ROP (min/ft)
10
1
TG, C1-C5
300
Sh, black, carbonaceous. gassy
Sh, med. to drk. gry, fissle.
Heebner 4270 (-1520)
Sh, black carbonaceous, bleeding abdt. gas, slight gas odor.
Base/Heeb 4278 (-1528)
Sh, med. to drk. gry, fissle.
Toronto Lm 4292 (-1542)
Ls, buff, tan, foss, fair dev. int. xln. & vugular porosity, slight show gas, no show oil, slight odor, dull fluor, no staining.
Ls, buff, tan, foss, fair dev. int. xln. & vugular porosity, slight show gas, no show oil, slight odor, dull fluor, no staining.
Ls, buff, tan lt. gry-wh, poorly dev. to no vis. porosity, no shows, no fluor, no odor, no staining.
Ls, tan, f-m xln, fair dev. int. xln. & vug. porosity, no shows, no fluor.
Sh, lt to med. gry, dns, calcareous.
Ls, buff, tan lt. gry-wh, poorly dev. to no vis. porosity, no shows, no fluor, no odor, no staining.
Sh, lt. gry, fissle, silty, calcareous.
Sh, lt. to med. gry, silty fissle.
Ls, buff, tan lt. gry-wh, poorly dev. to no vis. porosity, no shows.
Lansing 4410 (-1660)
Ls, tan, f. xln, micritic, v. dns, no vis. porosity, no show, n o flu or, no odor, no staining, w/ abdt. sharp fresh brown chert..
Ls, tan, f. xln, micritic, v. dns, no vis. porosity, no show, n o flu or.
Ls, tan, f-m xln, poorly dev. int. xln. & small vugular porosity, slight show of oil and gas, med. fluor, fair odor, no staining.
Ls, tan, lt. gry-wh, f. xln, micritic, no vis. porosity, no show, no staining, slight odor.
TG inc. 34 units
TG inc. 34 units
TG inc. 86 units
TG inc. 50 units
Recycle
Vis. 58
Wt. 9.2
LCM 6#
TG inc. 10 units
Butane test at extractor 220 units
DST #2
4465-4485'
Kansas City
Straddle Test from

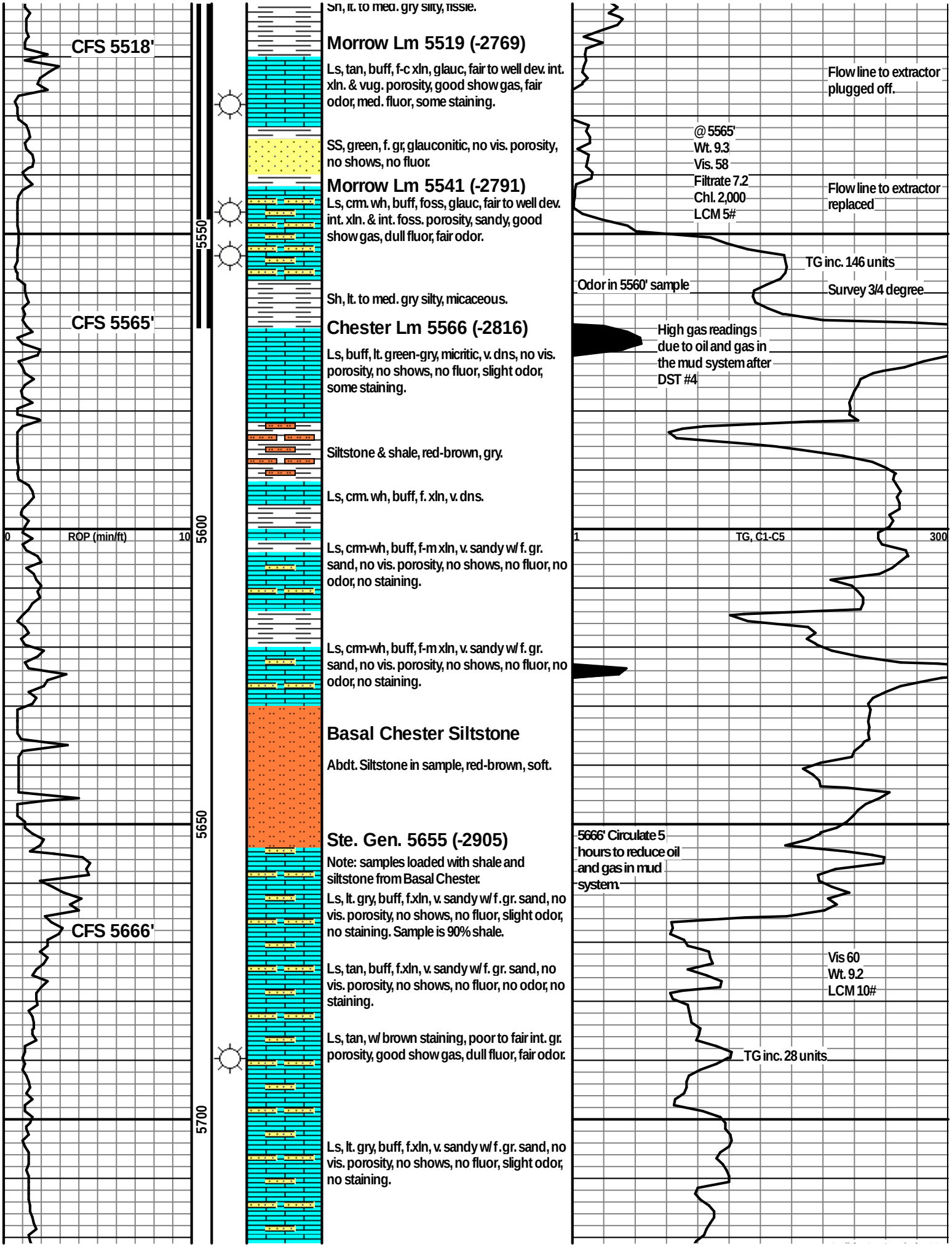

DST #2
4465-4485'
Straddle Test
from 4900'
CFS 4500'
4500
4550
4600
4650
0
ROP (min/ft)
10
DST #6
4620-4672'
Hookwall
CFS 4664'
Ls, tan, lt. gry-wh, f. xln, micritic, no vis. porosity, no show, no staining, slight odor.
Kansas City 4478 (-1728)
Ls, buff, tan, crm. wh. & chalky, foss, fair to well dev. int. xln. & vug. porosity, good show oil and gas, bright gold fluor, strong odor, some tan staining, w/ abdt. chalk in sample.
Ls, tan, buff, lt. gry-wh, f. xln, micritic, no vis. porosity, no shows, sulphur odor.
Ls, buff, tan, crm. wh. & chalky, foss, fair to well dev. int. xln. & vug. porosity, no show, no fluor.
Ls, buff, tan, crm. wh. & chalky, foss, fair to well dev. int. xln. & vug. porosity, no show, no fluor.
Ls, buff, tan, crm. wh. & chalky, foss, fair to well dev. int. xln. & vug. porosity, no show, no fluor, slight odor.
Ls, tan, lt. gry, v. dns, f. xln to micritic, no vis. porosity, w/ abdt. gry. chert.
Ls, buff, f. xln, micritic, v. dns, no vis. porosity, no shows, w/ abdt. wh. fresh chert.
Iola Lm 4593 (-1843)
Ls, buff, tan, granular, fair to well dev. int. xln. & small vugular porosity, no show, no fluor.
Ls, tan, lt. gry, v. dns, f. xln to micritic, no vis. porosity, w/ abdt. drk. gry. chert.
Ls, lt. gry, tan, f. xln, v. dns, no vis. porosity, w/ abdt. lt. gry-wh. chert.
Sh, lt. to med. gry, calcareous.
Drum (1) 4659 (-1909)
Ls, tan, f-m xln, oolitic w/ well dev. oomoldic porosity, very slight show of oil and gas, no odor, no fluor, no staining, w/ abdt. barren porosity.
TG inc. 64 units
Dump mud pits
1
TG, C1-C5
300
4900'
IFP 59-60# 5"
ISIP 1244# 30"
FFP 75-215# 60"
FSIP 1242# 90"
4000' GIP
150' GOCM
25% Oil
260' MCW
Vis. 60
Wt. 9.2
LCM 4#
@ 4537'
Wt. 9.25
Vis. 58
Filtrate 8.8
Chl. 1,800
LCM 3#
DST #6
4620-4672'
Drum Lm
Hookwall Test
Mis-Run

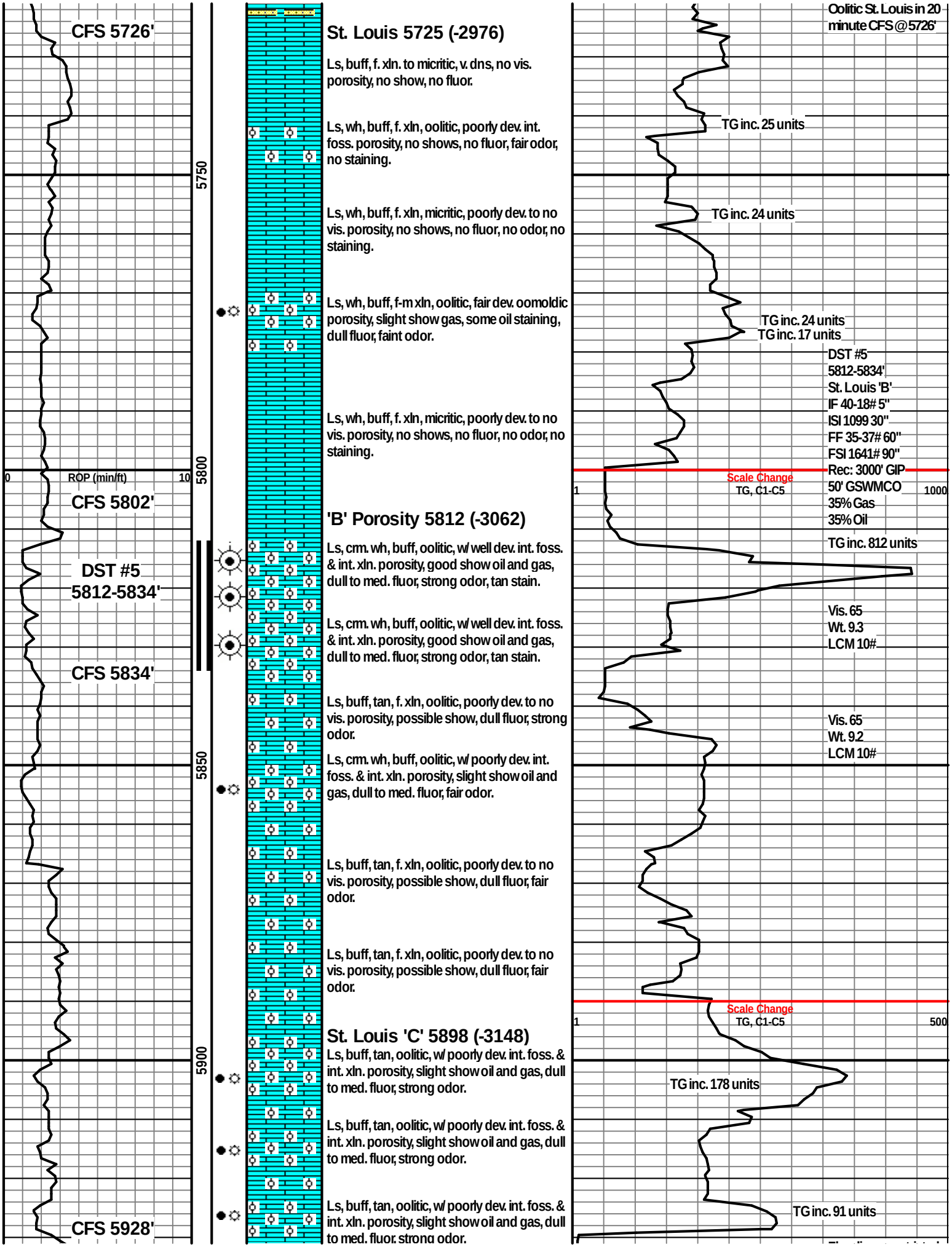

Ls, tan, lt. gry, f. xln, micritic, no vis. porosity, no shows, no fluor, no odor,
Sh, black, carbonaceous. gassy
Drum (2) 4702 (-1952)
Ls, buff, tan, f. xln, dns, poorly dev. to no vis. porosity, no shows, no fluor, fair odor, no staining.
Ls, buff, tan, f. xln, dns, poorly dev. to no vis. porosity, no shows, no fluor, fair odor, no staining.
Ls, buff, tan, f. xln, dns, poorly dev. to no vis. porosity, no shows, no fluor, fair odor, no staining.
Sh, med. gry, fissle, calcareous.
Ls, crm. wh, buff, f. xln, no vis. porosity, chalky, no shows, no odor, chalky fluor.
Ls, buff, tan, f. xln, dns, poorly dev. to no vis. porosity, no shows, no fluor, fair odor, no staining.
Ls, lt. gry, f. xln, v. dns, no vis. porosity, no shows.
Ls, lt. gry, f. xln, v. dns, no vis. porosity, no shows.
Ls, lt. to med. gry, v. dns, f. xln. to micritic, no vis. porosity.
Ls, med. to drk. gry, dns, arg, no vis. porosity, no shows, no fluor.
Ls, med. to drk. gry, dns, arg, no vis. porosity, no shows, no fluor.
Stark Shale 4869 (-2119)
Sh, black, carbonaceous. gassy
Swope 4875 (-2125)
Ls, buff, tan, v. dns, f. xln. to micritic, no vis.
4700
4750
4800
4850
CFS 4728'
0
ROP (min/ft)
10
1
TG, C1-C5
300
Butane test at extractor 152 units
TG inc. 80 units
Bluestem Labs service & adjust gas detector unit.
DST #1
Swope Lm
4884-4900'
IFP 121-73# 5"
ISIP 1386# 30"
FFP 63-127# 60"
FSIP 1366# 90"
GTS 15 Min. FF
120' SOCMW
120' MCW
TG inc. 89 units

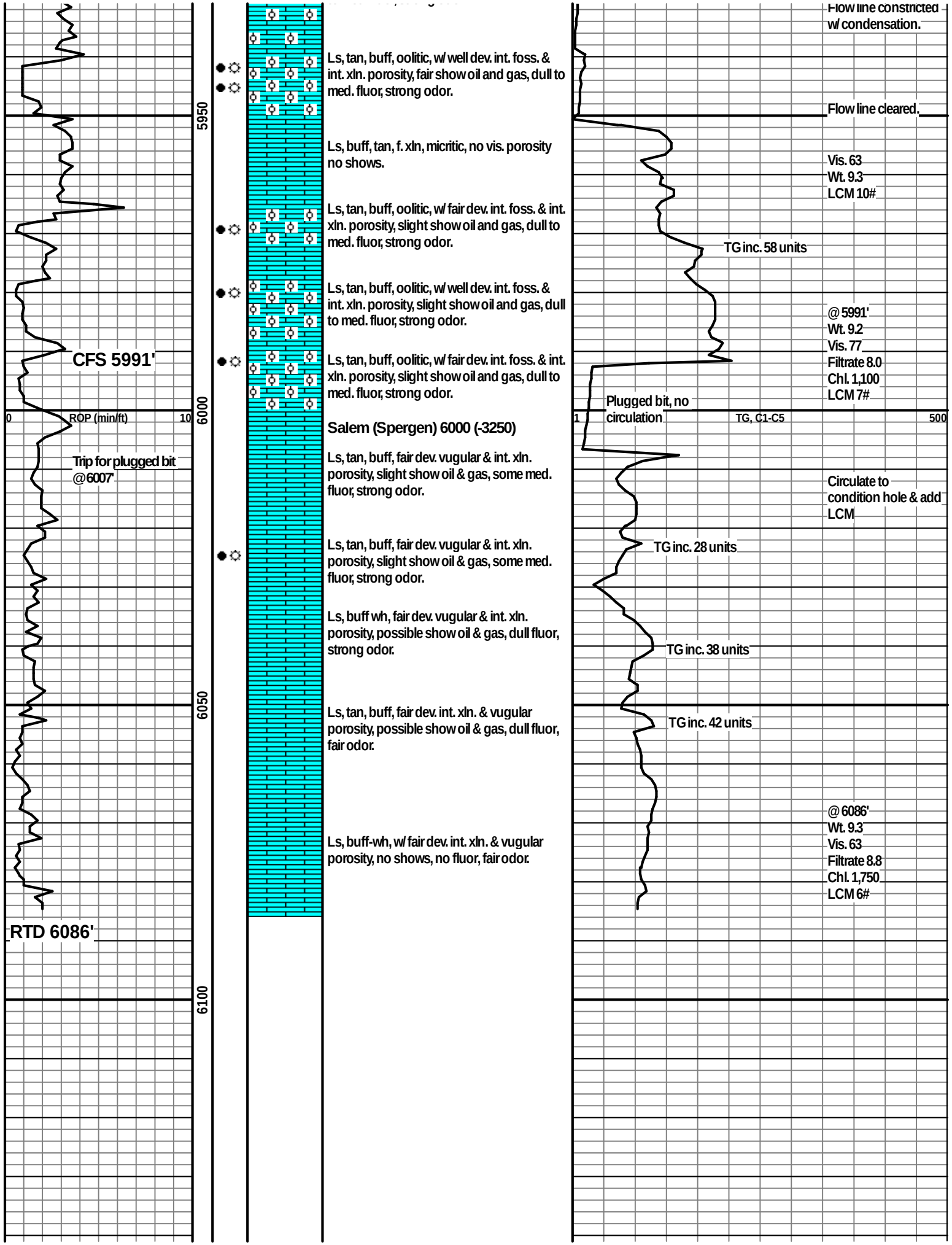

DST #1
4884-4900'
CFS 4895'
CFS 4900'
Run in with PDC Bit at 4900'
4900
4950
5000
5050
0
ROP (min/ft)
10
DST #3
4994-5060'
CFS 5060'
porosity.
Porosity 4891 (-2141)
Ls, tan, f-m xln, oooltic, w/ fair to well dev. oomoldic & int. xln. porosity, fair show oil and gas, med. fluor, fair odor, tan staining.
Ls, tan, oolitic, well dev. oomoldic porosity, slight show oil and gas, fair odor, some tan staining.
Ls, lt. gry-wh, tan, f. xln, micritic, no vis. porosity, no show, no fluor, no staining.
Ls, lt. gry-wh, buff, oolitic, well dev. oomoldic porosity, no shows, no fluor, no odor, no staining.
Ls, med. gry, arg, no vis. porosity, /w abdt. gry. shale.
Ls, med. gry, arg, no vis. porosity, /w abdt. gry. shale.
Sh, med. to drk. gry, fissle.
Ls, med. gry, arg, no vis. porosity, /w abdt. gry. shale.
Sh, med. to drk. gry, calcareous.
Sh, med. to drk. gry, fissle.
Marmaton 5010 (-2260)
Ls, tan, f. xln, micritic, v. dns.
Ls, buff, crm. wh, foss, oolitic, w/ well dev. oomoldic & int. xln. porosity, good show gas, fair show light oil, bright fluor, fair odor, possible tan staining, chalky.
Ls, buff, crm. wh, foss, oolitic, w/ poor to fair dev. oomoldic porosity, no shows, no fluor, no staining, sli. odor, abdt. chalk.
Ls, buff, crm. wh, foss, oolitic, w/ poor to fair dev. oomoldic porosity no shows, no fluor, no staining, sli. odor.
Ls, lt. gry-wh, tan, buff, f. xln. to micritic, v. dns, no vis. porosity.
Ls, lt. gry-wh, tan, buff, f. xln. to micritic, v. dns, no vis. porosity, w/ some wh. chert.
Wt. 9.3
Vis. 60
LCM 6#
TG inc. 74 units
TG inc. 77 units
Wt. 9.2
Vis. 54
Filtrate 7.2
Chl. 1,800
LCM 4#
Survey 1 degree
Strap 8.20' long to board.
DST #3
Marmaton
4094-5060'
IFP 877-697#5"
ISIP 1254# 60"
FFP 773-75# 60"
FSIP 1251# 90"
GA 325 MMCF
130' GMCO
50% Gas
25% Oil
25% Mud
1
TG, C1-C5
300
TG inc. 181 units
Vis. 60
Wt. 9.2
LCM 6#
@ 5059'
Wt. 9.2
Vis. 67
Filtrate 7.2
Chl. 1,800
LCM 4#
High gas readings due to oil and gas in the mud system after DST #3

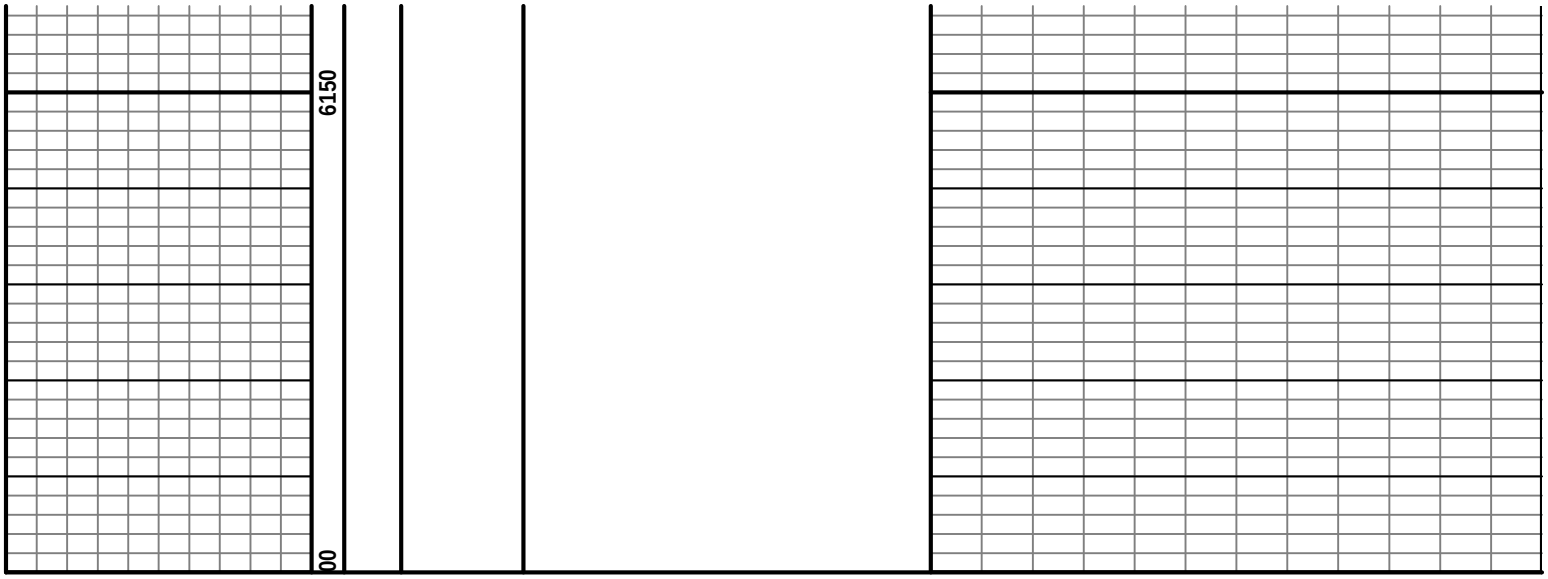

5100
5150
5200
5250
300
CFS 5127'
CFS 5155'
0
ROP (min/ft)
10
Ls, med. gry, arg., w/ abdt. gry. shale.
Labette Shale
Sh, med. to drk. gry,
Ft. Scott Lm 5121 (-2371)
Ls, buff, f. xln. to micritic, v. dns.
Ls, buff, tan, f. xln, poorly dev. int. xln. porosity, no shows, no fluor, slight odor, no staining.
Ls, buff, f-m xln, oolitic, w/ some oomoldic porosity, v. slight show oil and gas, no fluor, faint odor, no staining.
Ls, tan, lt. gry-wh, f. xln, v. dns.
Ls, crm. wh, buff, foss. & oolitic, no shows, no fluor, no odor.
Ls, crm. wh, buff, foss. & oolitic, no shows, no fluor, no odor.
Ls, buff, lt. gry-wh, f. xln, v. dns.
Cherokee Sh 5193 (-2443)
Sh, black, carbonaceous, gassy.
Ls, tan, lt. gry-wh, f. xln, v. dns.
Sh, drk. gry. to blk. carb., gassy.
Ls, tan, lt. gry-wh, f. xln, v. dns.
Sh, drk. gry. to blk. carbonaceous.
Ls, tan, lt. gry-wh, f. xln, v. dns.
Sh, drk. gry. to blk. carbonaceous.
Ls, tan, lt. to med. gry, no vis. porosity, no shows, no fluor.
Sh, drk. gry. to blk. carb., gassy.
Ls, tan, lt. to med. gry, no vis. porosity, no shows, no fluor.
Ls, med. to drk. gry, arg., w/ abdt. gry. shale.
Recycle
TG inc. 43 units
TG gradually inc. 30 units
TG inc. 47 units
TG inc. 106 u
1
TG, C1-C5
300
TG inc. 33 units
Vis. 58
Wt. 9.2
LCM 6#
TG inc. 40 units


5350
5400
5450
5500
CFS 5360'
CFS 5376'
DST #4
5472-5565'
0
ROP (min/ft)
10
Sh, drk. gry. to blk. carb., gassy.
Ls, buff, tan, lt. gry-wh, v. dns, f. xln. to micritic, no vis. porosity, no shows, no fluor, no odor.
Sh, drk. gry. to blk. carb., gassy.
Ls, buff, tan, lt. gry-wh, v. dns, f. xln. to micritic, no vis. porosity, no shows, no fluor, no odor.
Sh, drk. gry. to blk. carb., gassy.
Ls, buff, tan, lt. gry-wh, v. dns, f. xln. to micritic, no vis. porosity, no shows, no fluor, no odor.
Thorp Lm 5350 (-2600)
Ls, buff, tan, m. xln, granular, fair dev. int. xln. porosity, no shows, no fluor, no odor, no staining.
Sh, drk. gry. to blk. carb., gassy.
Ls, gry, tan, v. dns, no vis. porosity, no shows, no fluor, no odor, no staining w/ abdt. black shale.
Sh, drk. gry. to blk. carb., gassy.
Atoka Lm 5372 (-2622)
Ls, tan, lt. gry-wh, micritic, v. dns.
Sh, drk. gry. to blk. carb., gassy.
Ls, lt. to med gry-wh, micritic, v. dns., no vis. porosity, no shows, no fluor, no odor, no staining.
Ls, lt. to med gry-wh, micritic, v. dns., no vis. porosity, no shows, no fluor, no odor, no staining.
Sh, lt. to med. gry-wh., brittle, calcareous, laminated.
Ls, lt. to med gry-wh, micritic, v. dns., no vis. porosity, no shows, no fluor, no odor, no staining.
Ls, gry, brn, tan, f. xln, v. dns, no vis. porosity, no show, no fluor.
Sh, med. to drk. gry, blk. carb.
L. Atoka Lm
Ls, gry, brn, tan, f. xln, v. dns, no vis. porosity, no show, no fluor.
Ls, med. gry-wh, f. xln, v. dns, no vis. porosity, no show, no fluor., w/ abdt. drk. gry shale.
Morrow Sh 5490 (-2740)
Sh, lt. to med. gry silty, fissle.
Ls, med. gry-wh, f. xln, v. dns, no vis. porosity, no show, no fluor., w/ abdt. drk. gry shale.
TG inc. 109 units
TG inc. 54 units
TG inc. 56 units
@ 5329'
Wt. 9.2
Vis. 50
Filtrate 7.2
Chl. 1,500
LCM 4#
TG inc. 26 units
TG inc. 83 units
Vis. 56
Wt. 9.2
LCM 6#
1
TG, C1-C5
300
Vis. 55
Wt. 9.3
LCM 6#
DST #4
5472-5565'
Morrow Lime
IF 315-95# 5"
ISI 1684# 30"
FF 225-36# 60"
FSI 1486# 90"
GTS TSTM
35' Mud w/ oil spots
Vis. 58
Wt. 9.5
LCM 5#


CFS 5518'
CFS 5565'
CFS 5666'
5550
5600
5650
5700
0
ROP (min/ft)
10
1
TG, C1-C5
300
Sh, lt. to med. gry silty, fissle.
Morrow Lm 5519 (-2769)
Ls, tan, buff, f-c xln, glauc, fair to well dev. int. xln. & vug. porosity, good show gas, fair odor, med. fluor, some staining.
SS, green, f. gr, glauconitic, no vis. porosity, no shows, no fluor.
Morrow Lm 5541 (-2791)
Ls, crm. wh, buff, foss, glauc, fair to well dev. int. xln. & int. foss. porosity, sandy, good show gas, dull fluor, fair odor.
Sh, lt. to med. gry silty, micaceous.
Chester Lm 5566 (-2816)
Ls, buff, lt. green-gry, micritic, v. dns, no vis. porosity, no shows, no fluor, slight odor, some staining.
Siltstone & shale, red-brown, gry.
Ls, crm. wh, buff, f. xln, v. dns.
Ls, crm-wh, buff, f-m xln, v. sandy w/ f. gr. sand, no vis. porosity, no shows, no fluor, no odor, no staining.
Ls, crm-wh, buff, f-m xln, v. sandy w/ f. gr. sand, no vis. porosity, no shows, no fluor, no odor, no staining.
Basal Chester Siltstone
Abdt. Siltstone in sample, red-brown, soft.
Ste. Gen. 5655 (-2905)
Note: samples loaded with shale and siltstone from Basal Chester.
Ls, lt. gry, buff, f.xln, v. sandy w/ f. gr. sand, no vis. porosity, no shows, no fluor, slight odor, no staining. Sample is 90% shale.
Ls, tan, buff, f.xln, v. sandy w/ f. gr. sand, no vis. porosity, no shows, no fluor, no odor, no staining.
Ls, tan, w/ brown staining, poor to fair int. gr. porosity, good show gas, dull fluor, fair odor.
Ls, lt. gry, buff, f.xln, v. sandy w/ f. gr. sand, no vis. porosity, no shows, no fluor, slight odor, no staining.
Flow line to extractor plugged off.
@ 5565'
Wt. 9.3
Vis. 58
Filtrate 7.2
Chl. 2,000
LCM 5#
Flow line to extractor replaced
TG inc. 146 units
Odor in 5560' sample
Survey 3/4 degree
High gas readings due to oil and gas in the mud system after DST #4
5666' Circulate 5 hours to reduce oil and gas in mud system.
Vis 60
Wt. 9.2
LCM 10#
TG inc. 28 units


CFS 5726'
0
ROP (min/ft)
10
CFS 5802'
DST #5
5812-5834'
CFS 5834'
CFS 5928'
5750
5800
5850
5900
St. Louis 5725 (-2976)
Ls, buff, f. xln. to micritic, v. dns, no vis. porosity, no show, no fluor.
Ls, wh, buff, f. xln, oolitic, poorly dev. int. foss. porosity, no shows, no fluor, fair odor, no staining.
Ls, wh, buff, f. xln, micritic, poorly dev. to no vis. porosity, no shows, no fluor, no odor, no staining.
Ls, wh, buff, f-m xln, oolitic, fair dev. oomoldic porosity, slight show gas, some oil staining, dull fluor, faint odor.
Ls, wh, buff, f. xln, micritic, poorly dev. to no vis. porosity, no shows, no fluor, no odor, no staining.
'B' Porosity 5812 (-3062)
Ls, crm. wh, buff, oolitic, w/ well dev. int. foss. & int. xln. porosity, good show oil and gas, dull to med. fluor, strong odor, tan stain.
Ls, crm. wh, buff, oolitic, w/ well dev. int. foss. & int. xln. porosity, good show oil and gas, dull to med. fluor, strong odor, tan stain.
Ls, buff, tan, f. xln, oolitic, poorly dev. to no vis. porosity, possible show, dull fluor, strong odor.
Ls, crm. wh, buff, oolitic, w/ poorly dev. int. foss. & int. xln. porosity, slight show oil and gas, dull to med. fluor, fair odor.
Ls, buff, tan, f. xln, oolitic, poorly dev. to no vis. porosity, possible show, dull fluor, fair odor.
Ls, buff, tan, f. xln, oolitic, poorly dev. to no vis. porosity, possible show, dull fluor, fair odor.
St. Louis 'C' 5898 (-3148)
Ls, buff, tan, oolitic, w/ poorly dev. int. foss. & int. xln. porosity, slight show oil and gas, dull to med. fluor, strong odor.
Ls, buff, tan, oolitic, w/ poorly dev. int. foss. & int. xln. porosity, slight show oil and gas, dull to med. fluor, strong odor.
Ls, buff, tan, oolitic, w/ poorly dev. int. foss. & int. xln. porosity, slight show oil and gas, dull to med. fluor, strong odor.
Oolitic St. Louis in 20 minute CFS @5726'
TG inc. 25 units
TG inc. 24 units
TG inc. 24 units
TG inc. 17 units
DST #5
5812-5834'
St. Louis 'B'
IF 40-18# 5"
ISI 1099 30"
FF 35-37# 60"
FSI 1641# 90"
Rec: 3000' GIP
50' GSWMCO
35% Gas
35% Oil
Scale Change
TG, C1-C5
1
1000
TG inc. 812 units
Vis. 65
Wt. 9.3
LCM 10#
Vis. 65
Wt. 9.2
LCM 10#
Scale Change
TG, C1-C5
1
500
TG inc. 178 units
TG inc. 91 units


5950
6000
6050
6100
CFS 5991'
0
ROP (min/ft)
10
Trip for plugged bit @6007'
RTD 6086'
Ls, tan, buff, oolitic, w/ well dev. int. foss. & int. xln. porosity, fair show oil and gas, dull to med. fluor, strong odor.
Ls, buff, tan, f. xln, micritic, no vis. porosity no shows.
Ls, tan, buff, oolitic, w/ fair dev. int. foss. & int. xln. porosity, slight show oil and gas, dull to med. fluor, strong odor.
Ls, tan, buff, oolitic, w/ well dev. int. foss. & int. xln. porosity, slight show oil and gas, dull to med. fluor, strong odor.
Ls, tan, buff, oolitic, w/ fair dev. int. foss. & int. xln. porosity, slight show oil and gas, dull to med. fluor, strong odor.
Salem (Spergen) 6000 (-3250)
Ls, tan, buff, fair dev. vugular & int. xln. porosity, slight show oil & gas, some med. fluor, strong odor.
Ls, tan, buff, fair dev. vugular & int. xln. porosity, slight show oil & gas, some med. fluor, strong odor.
Ls, buff wh, fair dev. vugular & int. xln. porosity, possible show oil & gas, dull fluor, strong odor.
Ls, tan, buff, fair dev. int. xln. & vugular porosity, possible show oil & gas, dull fluor, fair odor.
Ls, buff-wh, w/ fair dev. int. xln. & vugular porosity, no shows, no fluor, fair odor.
Flow line constricted w/ condensation.
Flow line cleared.
Vis. 63
Wt. 9.3
LCM 10#
TG inc. 58 units
@5991'
Wt. 9.2
Vis. 77
Filtrate 8.0
Chl. 1,100
LCM 7#
Plugged bit, no circulation
1
TG, C1-C5
500
Circulate to condition hole & add LCM
TG inc. 28 units
TG inc. 38 units
TG inc. 42 units
@6086'
Wt. 9.3
Vis. 63
Filtrate 8.8
Chl. 1,750
LCM 6#


6150
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