

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	HELL CREEK RANCH 3-18
Doc ID	1589769

All Electric Logs Run

Compensated Density / Neutron PE Log
Dual Induction Log
Micro Log
Sonic Log

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	HELL CREEK RANCH 3-18
Doc ID	1589769

Tops

Name	Top	Datum
B/Anhydrite	2297	664
Heebner Sh	3880	-919
Lansing	3927	-966
Mun Crk Sh	4104	-1143
Stark Sh	4206	-1245
Marmaton	4314	-1353
CK Sh	4444	-1483
MW Sh	4538	-1577
Miss	4543	-1582



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stelbar Oil Corp
 1625 N Waterfront pkwy Ste 200
 Wichita, Ks 67206
 ATTN: Dave Goldak

18-18s-31w Scott , Ks
Hell Creek Ranch3-18
 Job Ticket: 67474 **DST#: 1**
 Test Start: 2021.08.30 @ 11:27:42

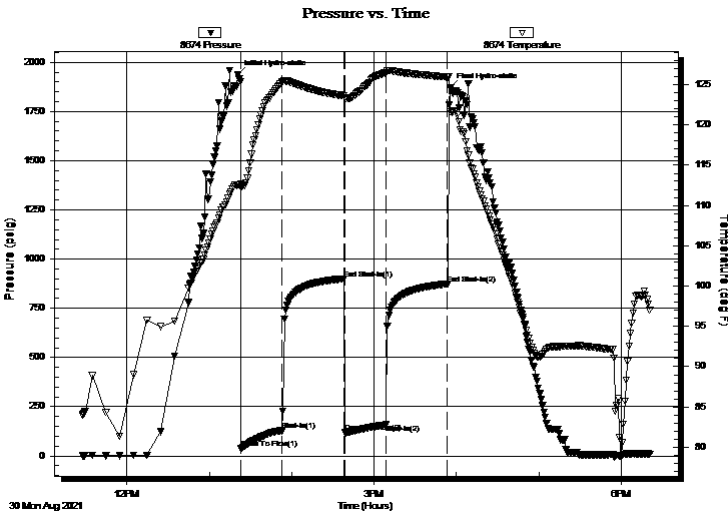
GENERAL INFORMATION:

Formation: **LKC A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:23:12
 Time Test Ended: 18:21:12
 Interval: **3920.00 ft (KB) To 3940.00 ft (KB) (TVD)**
 Total Depth: 3940.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2961.00 ft (KB)
 2956.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8674 Outside
 Press@RunDepth: 158.19 psig @ 3921.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.08.30 End Date: 2021.08.30 Last Calib.: 2021.08.30
 Start Time: 11:27:47 End Time: 18:21:11 Time On Btm: 2021.08.30 @ 13:20:42
 Time Off Btm: 2021.08.30 @ 15:55:42

TEST COMMENT: IF: 1/4 blow built to 9 1/2.
 IS: No return.
 FF: Surface blow built to 8.
 FS: No return. 30-45-30-45

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1934.93	112.53	Initial Hydro-static
3	37.19	112.27	Open To Flow (1)
33	128.41	125.30	Shut-In(1)
77	899.61	123.62	End Shut-In(1)
78	117.96	123.34	Open To Flow (2)
108	158.19	126.50	Shut-In(2)
153	874.49	125.93	End Shut-In(2)
155	1872.60	121.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 90%w 10%m	1.01
126.00	mcw oil spots 60%w 40%m	1.77

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corp
1625 N Waterfront pkwy Ste 200
Wichita, Ks 67206
ATTN: Dave Goldak

18-18s-31w Scott , Ks
Hell Creek Ranch3-18
Job Ticket: 67474 **DST#: 1**
Test Start: 2021.08.30 @ 11:27:42

Mud and Cushion Information

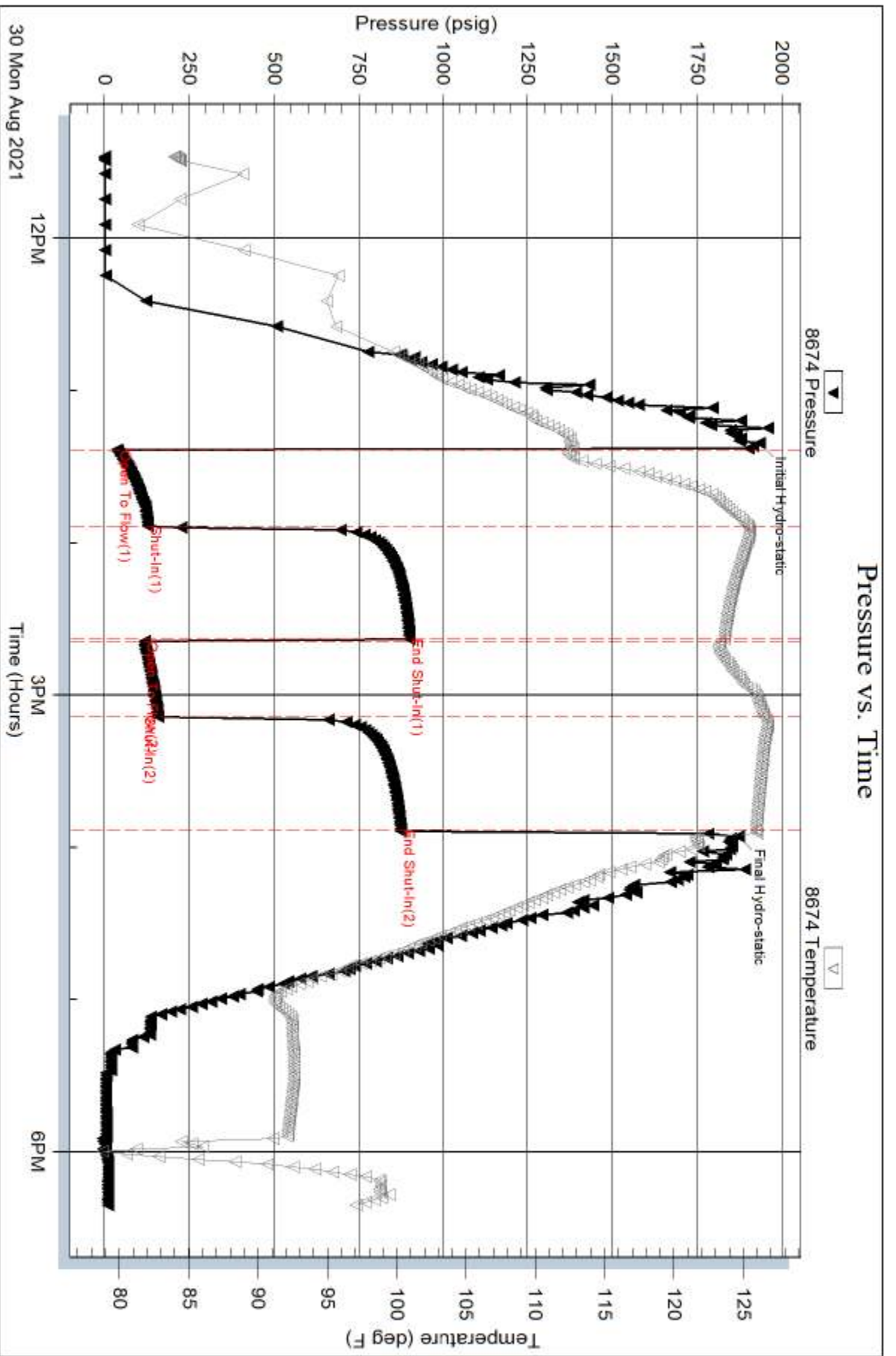
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 12000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.40 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	mcw 90%w 10%m	1.011
126.00	mcw oil spots 60%w 40%m	1.767

Total Length: 315.00 ft Total Volume: 2.778 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .41@91=12000



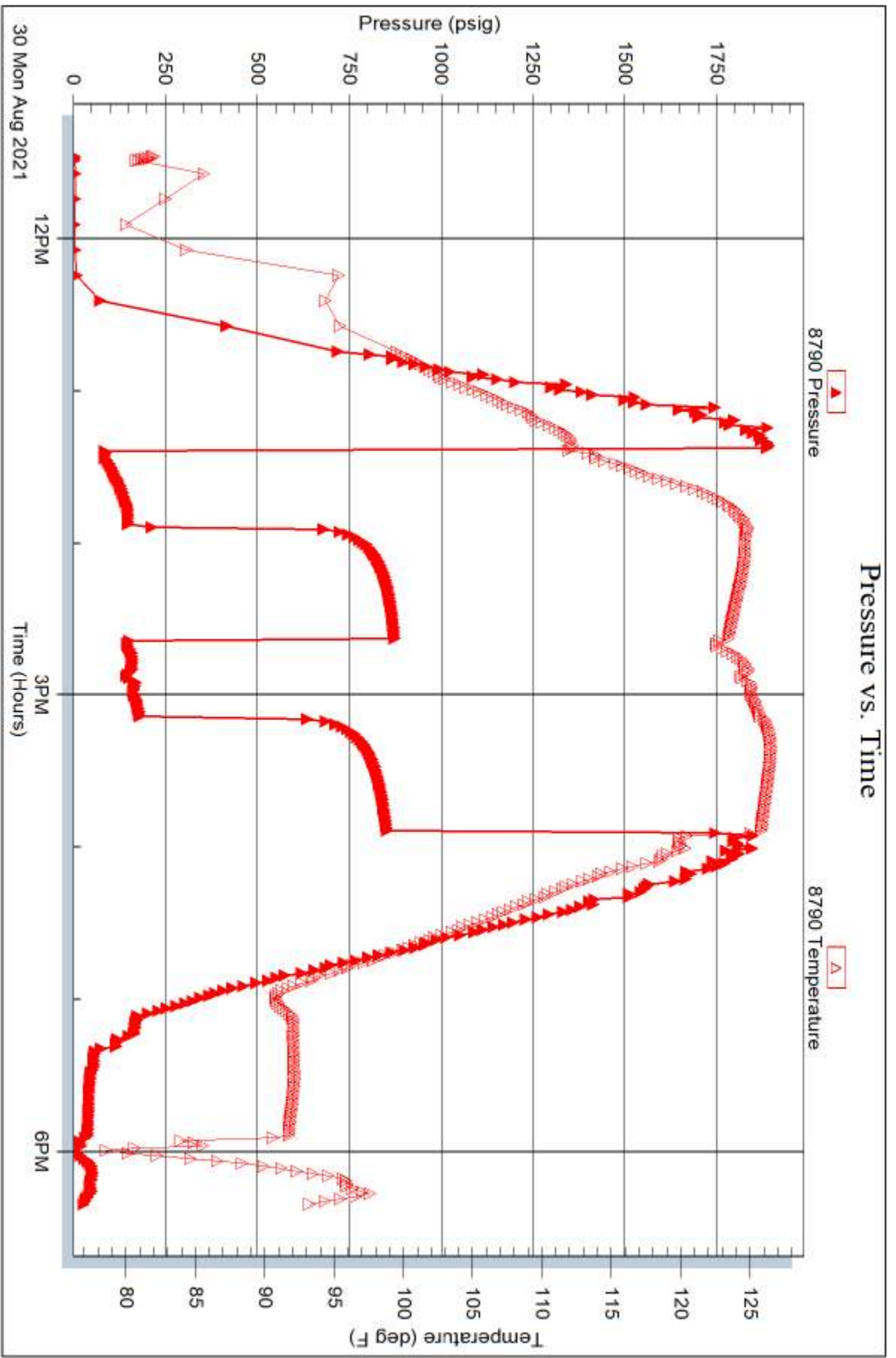
Serial #: 8790

Inside

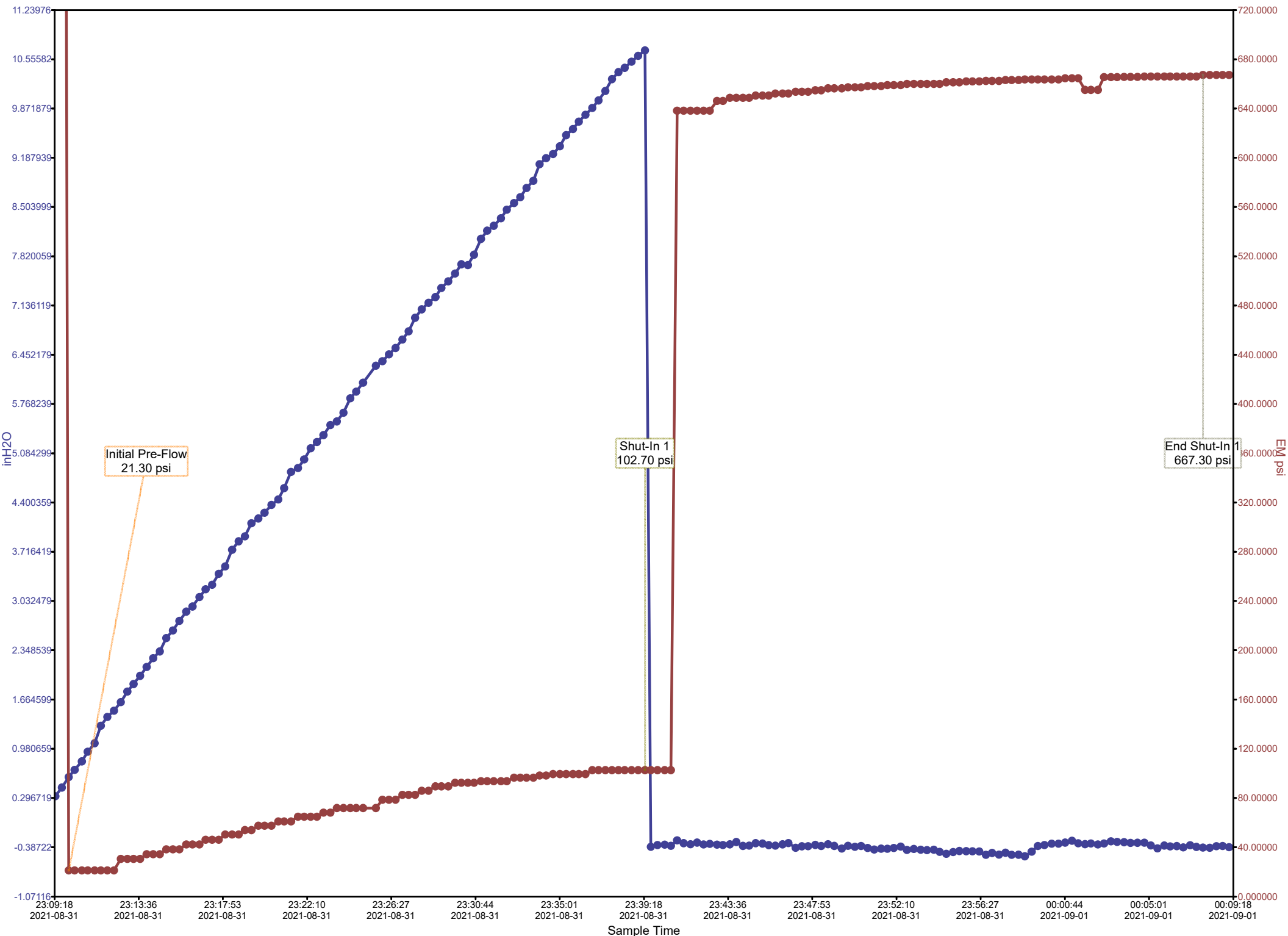
Stellar Oil Corp

Hell Creek Ranch3-18

DST Test Number: 1



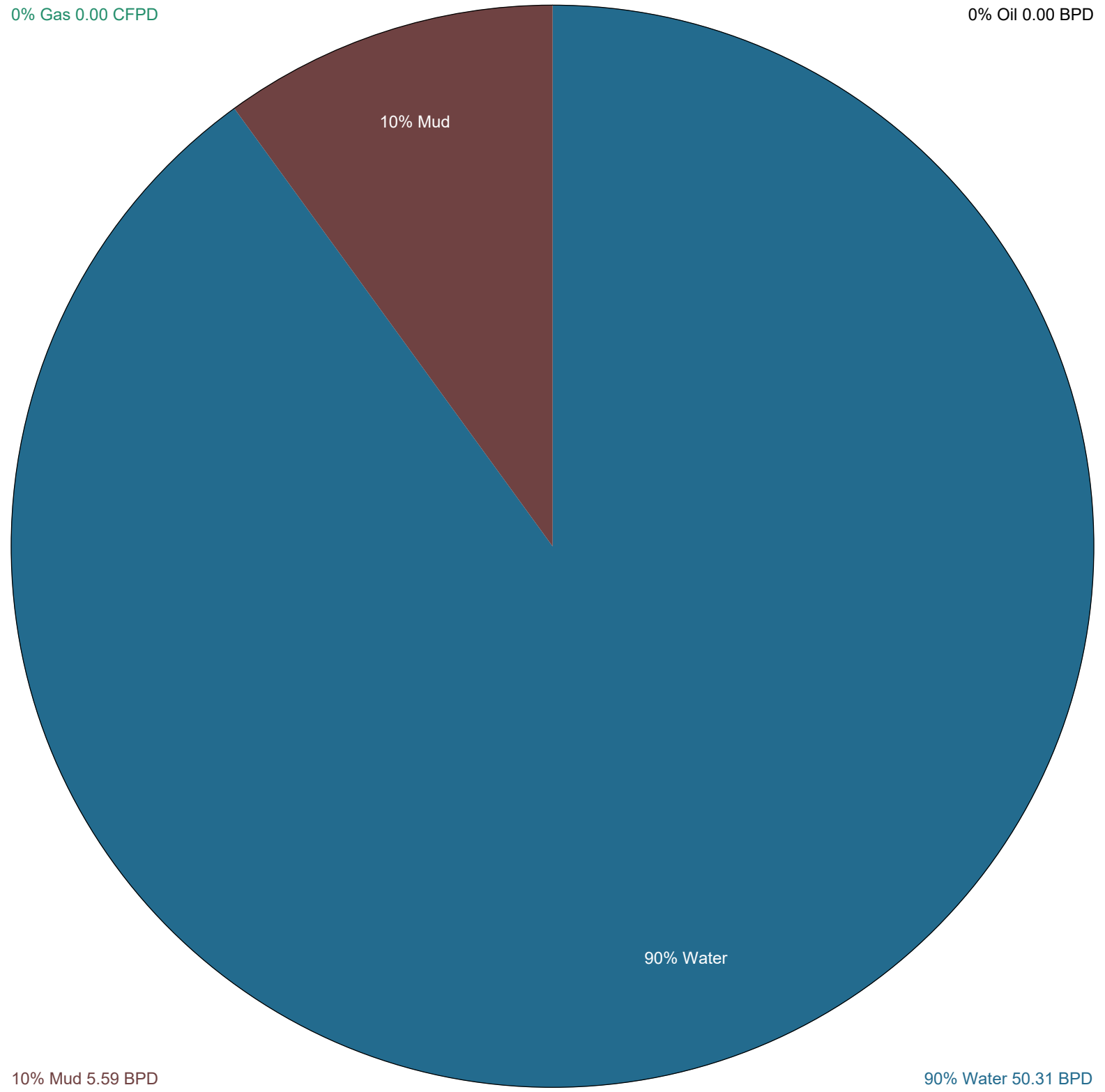
Stelbar Oil Corporation - Hell Creek Ranch #3-18 - DST #2



Calculated Recovery Analysis - Stelbar Oil Corporation - Hell Creek Ranch #3-18 - DST #2

0% Gas 0.00 CFPD

0% Oil 0.00 BPD



10% Mud

90% Water

10% Mud 5.59 BPD

90% Water 50.31 BPD



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Stelbar Oil Corp
 1625 N Waterfront pkwy Ste 200
 Wichita, Ks 67206
 ATTN: Dave Goldak

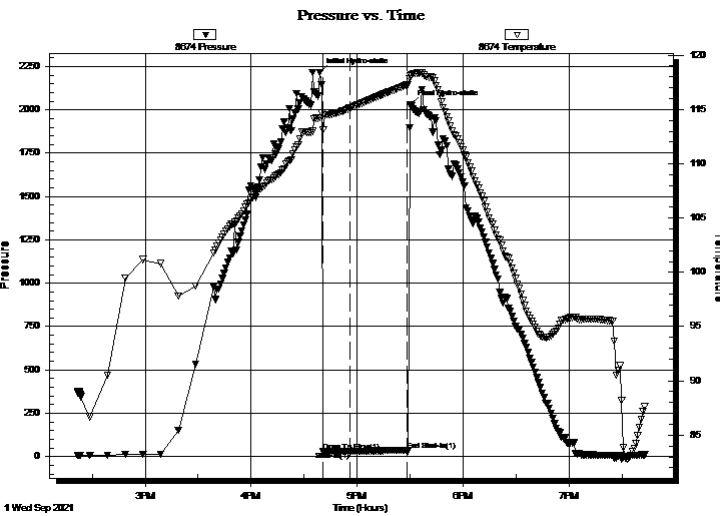
18-18s-31w Scott , Ks
Hell Creek Ranch3-18
 Job Ticket: 67376 **DST#: 3**
 Test Start: 2021.09.01 @ 14:21:43

GENERAL INFORMATION:

Formation: **Marmaton D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:40:43
 Time Test Ended: 19:42:43
 Interval: **4362.00 ft (KB) To 4383.00 ft (KB) (TVD)**
 Total Depth: 4362.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2961.00 ft (KB)
 2956.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8674 Outside
 Press@RunDepth: 31.06 psig @ 4363.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.09.01 End Date: 2021.09.01 Last Calib.: 2021.09.01
 Start Time: 14:21:48 End Time: 19:42:42 Time On Btm: 2021.09.01 @ 16:38:43
 Time Off Btm: 2021.09.01 @ 17:30:13

TEST COMMENT: IF: Surface blow that never built.
 IS: No return.
 FF: Pulled tool. 15-30-pull



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2216.33	114.25	Initial Hydro-static
2	32.18	113.16	Open To Flow (1)
17	31.06	115.11	Shut-In(1)
50	37.11	117.26	End Shut-In(1)
52	2030.97	118.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corp

18-18s-31w Scott , Ks

1625 N Waterfront pkwy Ste 200
Wichita, Ks 67206

Hell Creek Ranch3-18

Job Ticket: 67376

DST#: 3

ATTN: Dave Goldak

Test Start: 2021.09.01 @ 14:21:43

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

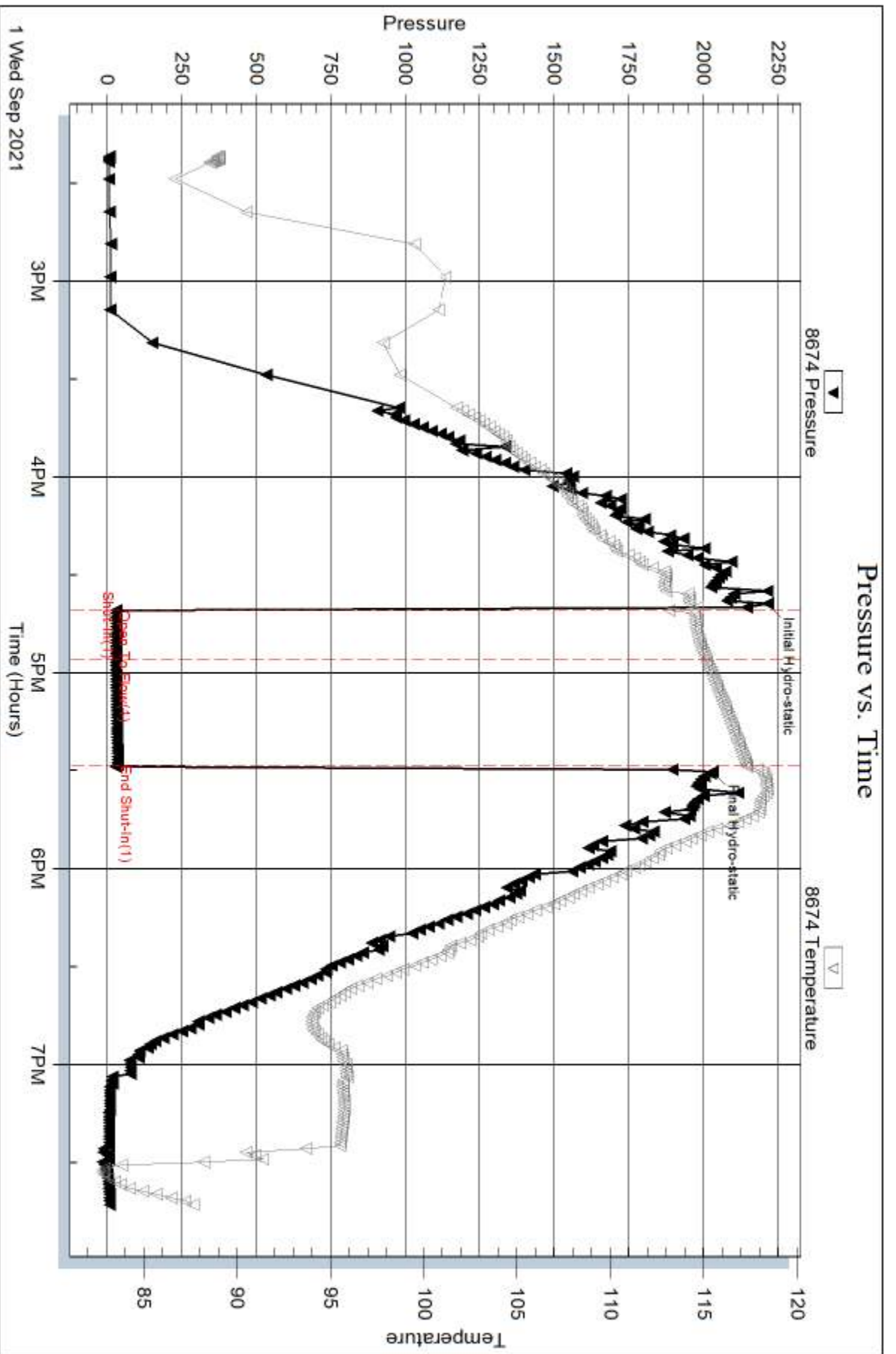
Recovery Comments:

Serial #: 8674

Outside Stellar Oil Corp

Hell Creek Ranch-3-18

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 67376

Printed: 2021.09.01 @ 20:38:33

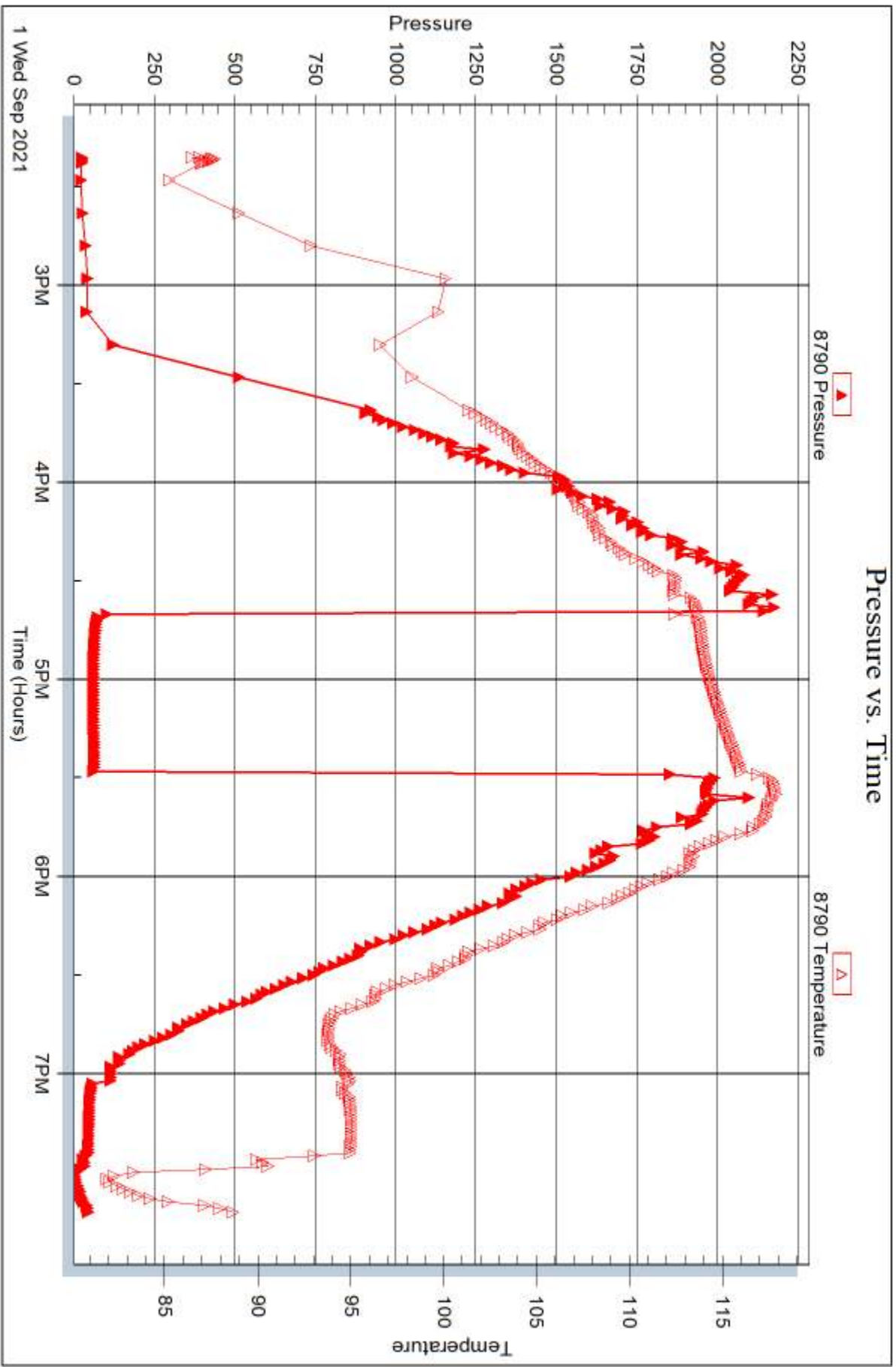
Serial #: 8790

Inside

Stebar Oil Corp

Hell Creek Ranch3-18

DST Test Number: 3





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Stelbar Oil Corp
 1625 N Waterfront pkwy
 Ste 200
 Wichita, Ks 67206
 ATTN: Dave Goldak

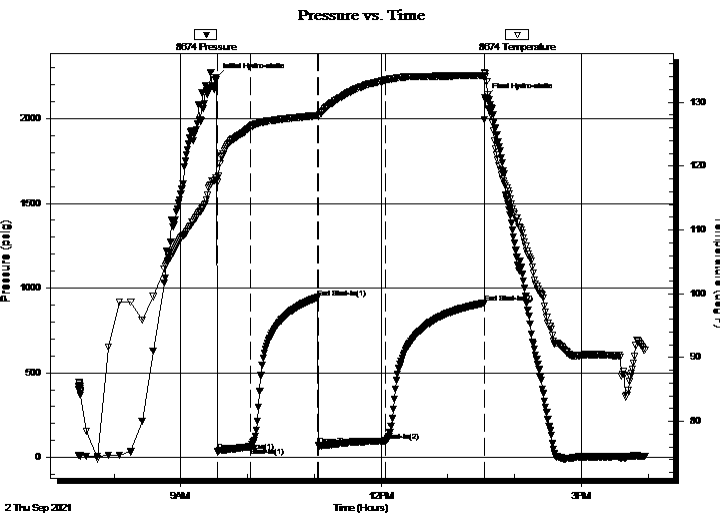
18-18s-31w Scott , Ks
Hell Creek Ranch3-18
 Job Ticket: 67377 **DST#: 4**
 Test Start: 2021.09.02 @ 07:28:02

GENERAL INFORMATION:

Formation: **Basal Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:33:02
 Time Test Ended: 15:57:02
 Interval: **4524.00 ft (KB) To 4536.00 ft (KB) (TVD)**
 Total Depth: 4536.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 2961.00 ft (KB)
 2956.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8674 Outside
 Press@RunDepth: 96.75 psig @ 4525.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.09.02 End Date: 2021.09.02 Last Calib.: 2021.09.02
 Start Time: 07:28:07 End Time: 15:57:01 Time On Btm: 2021.09.02 @ 09:31:32
 Time Off Btm: 2021.09.02 @ 13:33:32

TEST COMMENT: IF: 1/4 blow built to 12.
 IS: Surface blow built to 3/4.
 FF: BOB in 17 min. 24
 FS: Surface blow built to 3. 30-60-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2243.26	118.09	Initial Hydro-static
2	34.00	117.45	Open To Flow (1)
31	63.22	126.08	Shut-In(1)
92	944.55	127.94	End Shut-In(1)
93	69.77	127.82	Open To Flow (2)
153	96.75	133.46	Shut-In(2)
241	912.02	134.15	End Shut-In(2)
242	2125.37	134.44	Final Hydro-static

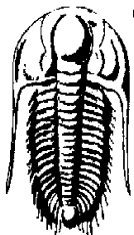
Recovery

Length (ft)	Description	Volume (bbl)
60.00	gocm 10%g 10%o 80%m	0.30
150.00	go 20%g 80%o	1.01
0.00	420 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corp
1625 N Waterfront pkwy
Ste 200
Wichita, Ks 67206
ATTN: Dave Goldak

18-18s-31w Scott , Ks
Hell Creek Ranch3-18
Job Ticket: 67377 **DST#: 4**
Test Start: 2021.09.02 @ 07:28:02

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.20 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2500.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

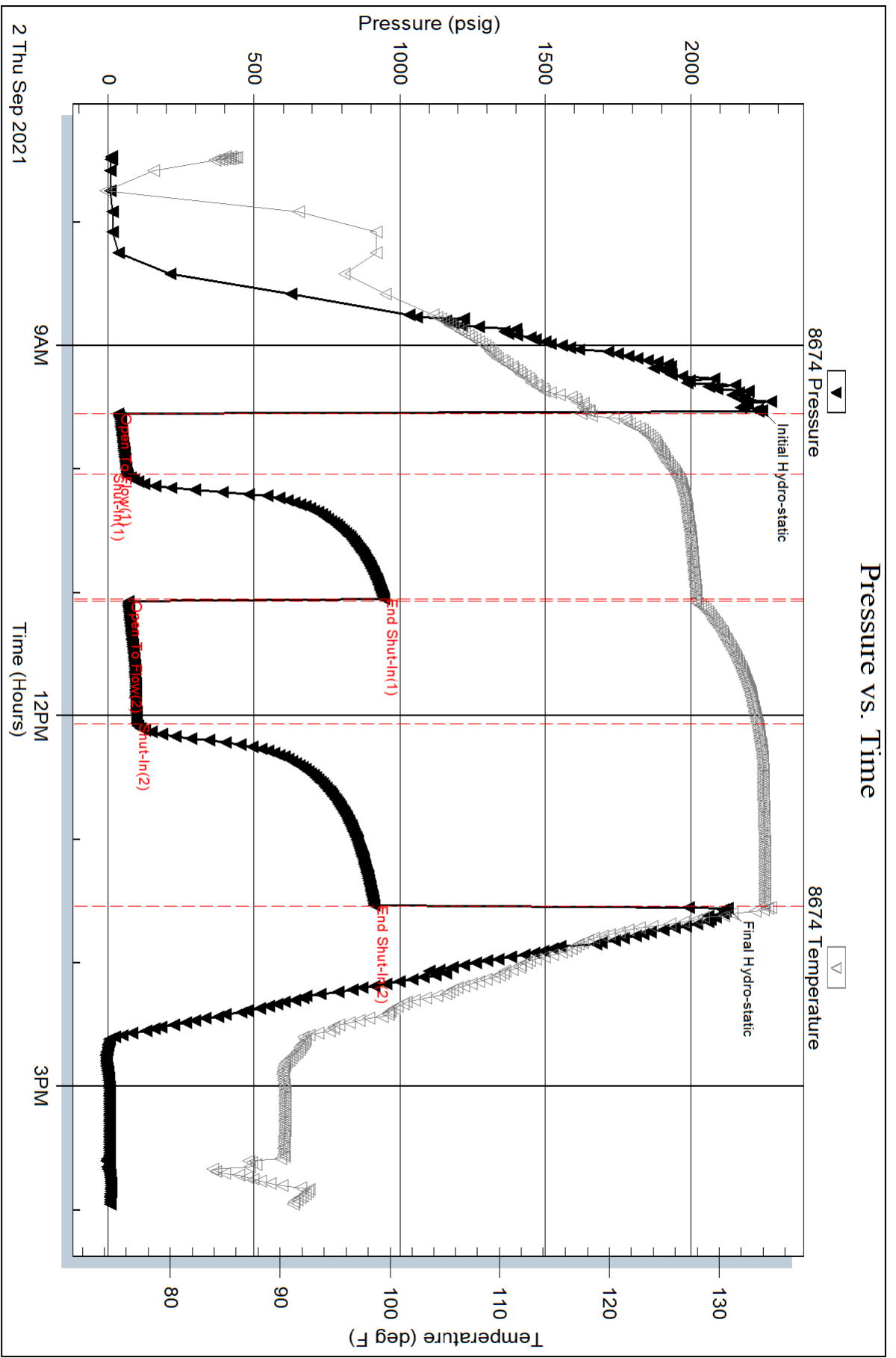
Length ft	Description	Volume bbl
60.00	gocm 10%g 10%o 80%m	0.295
150.00	go 20%g 80%o	1.011
0.00	420 GIP	0.000

Total Length: 210.00 ft Total Volume: 1.306 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 35@100=31



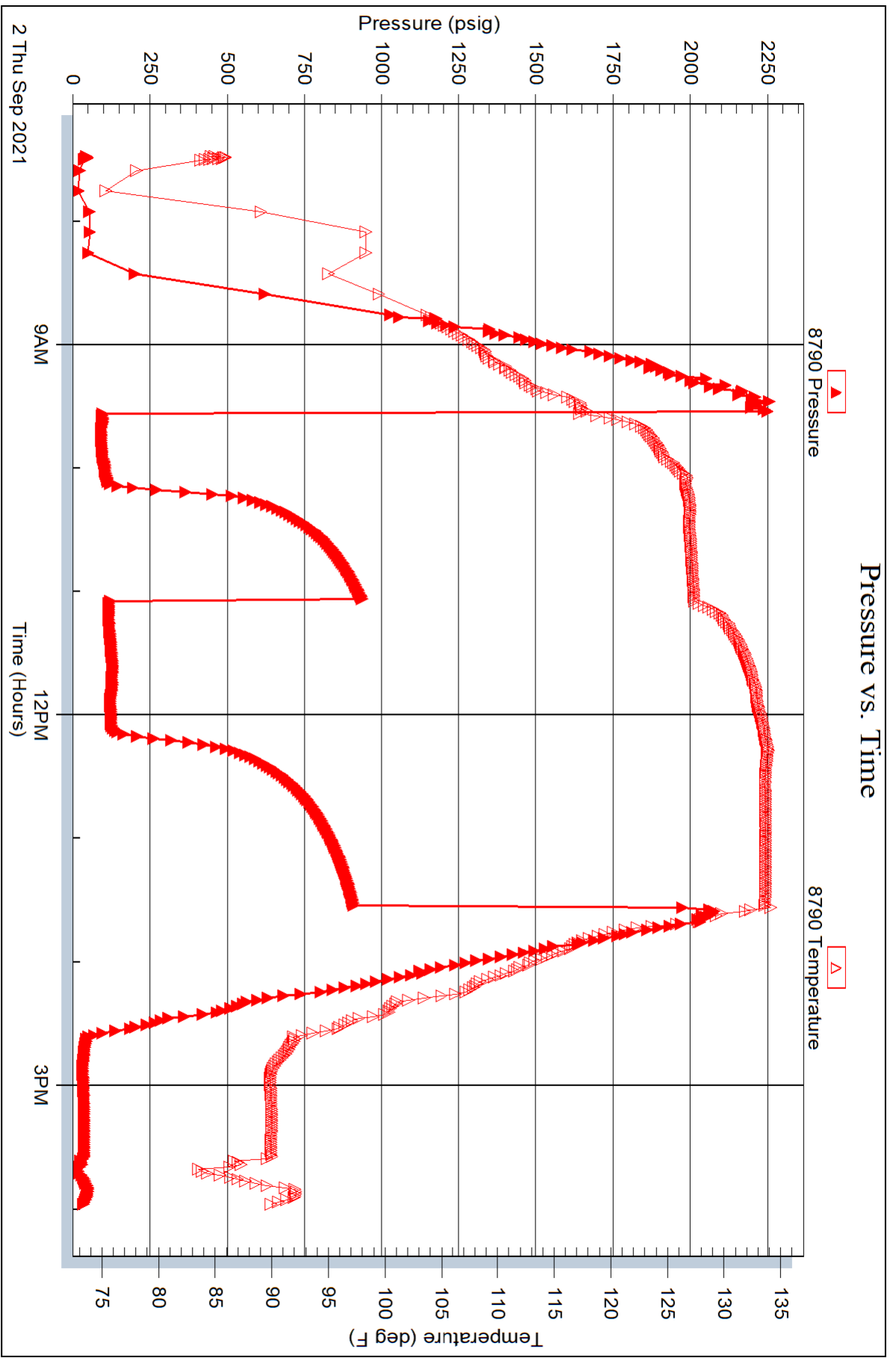
Serial #: 8790

Inside

Stelbar Oil Corp

Hell Creek Ranch3-18

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 67377

Printed: 2021.09.02 @ 16:29:44



CEMENT TREATMENT REPORT

Customer:	Stelbar Oil Corp.	Well:	Hell Creek Ranch #3-18	Ticket:	WP1824
City, State:		County:	Scott KS	Date:	9/3/2021
Field Rep:	Fennis Garduno	S-T-R:	18-18S-31W	Service:	PTA

Downhole Information	
Hole Size:	7.875 in
Hole Depth:	4640 ft
Casing Size:	8 5/8 in
Casing Depth:	302 ft
Tubing / Liner:	4 1/2 in
Depth:	2300 ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	bbls

Calculated Slurry - Lead	
Blend:	H-Plug
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	67.8 bbls
Total Sacks:	270 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	BBLs	STAGE TOTAL BBLs	REMARKS
12:00 PM				-	Journey management meeting
12:15 PM				-	Convoy to location
1:15 PM				-	Arrive on location / safety meeting
1:20 PM				-	Spot in / rig up equipment
				-	1st plug @ 2300'
3:05 PM	3.0	200.0	5.0	5.0	Pump fresh water spacer
3:07 PM	4.0	150.0	12.5	17.5	Mix 50 sx H-Plug @ 13.8 ppg
3:12 PM	4.0	150.0	2.0	19.5	Pump fresh water spacer
3:18 PM	7.0	100.0	27.0	46.5	Rig balance plug with WBM
				46.5	2nd plug @ 1550'
3:45 PM	3.5	200.0	5.0	51.5	Pump fresh water spacer
3:48 PM	5.0	150.0	20.0		Mix 80 sx H-Plug @ 13.8 ppg
3:53 PM	3.0	150.0	2.0		Pump fresh water spacer
3:57 PM	7.0	100.0	15.0		Rig balance plug with WBM
					3rd plug @ 775'
4:25 PM	4.0	200.0	5.0		Pump fresh water spacer
4:27 PM	4.0	200.0	12.5		Mix 50 sx H-Plug @ 13.8 ppg
4:30 PM	3.0	100.0	6.5		Balance plug with fresh water
					4th plug @ 330'
4:50 PM	4.0	200.0	5.0		Pump fresh water spacer
4:55 PM	4.0	200.0	10.0		Mix 40 sx H-Plug @ 13.8 ppg
4:58 PM	3.0	100.0	1.5		Balance plug with fresh water
					4th plug @ 60'
5:35 PM					Push wooden plug down
5:39 PM	2.0	80.0	5.0		Mix 20 sx H-Plug @ 13.8 ppg
5:45 PM	2.0	80.0	7.5		Plug rat hole with 30 sx H-Plug @ 13.8 ppg
					Rig down leave location , total H-Plug mixed 270 sx

CREW		UNIT	SUMMARY		
Cementer:	Fennis	78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	John	208	3.9 bpm	148 psi	142 bbls
Bulk #1:	Trevino	205			
Bulk #2:					

GEOLOGIC REPORT

DAVID J. GOLDAK

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

Well Name: Hell Creek Ranch #3-18
API: 15-171-21274-0000
Location: Section 18 - T18S - R31W
License Number: _____ Region: Scott Co., KS
Spud Date: 08 / 27 / 2021 Drilling Completed:
Surface Coordinates: 400' FNL and 1657' FEL
SW - NE - NW - NE
Bottom Hole
Coordinates:
Ground Elevation (ft): 2956' K.B. Elevation (ft): 2961'
Logged Interval (ft): 3700' To: 4640' Total Depth (ft): 4640'
Formation: Mississippian - Spergen
Type of Drilling Fluid: Chemical - Mud-Co

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

OPERATOR

Company: Stelbar Oil Corporation
Address: 1625 N. Waterfront Pkwy., Suite 200
Wichita, Kansas 67206-6602

GEOLOGIST

Name: David J. Goldak
Company: D. J. GOLDAK, INC.
Address: 12427 W Ridgepoint Cir
Wichita, Kansas 67235

General Information

CONTRACTOR: Murfin Drilling, Rig #110

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12.25	Smith-RR	3-15s	302'	302'	2.00
2	7.875	Smith-MI616	3-15s	4640'	4338'	67.00

SURVEYS: 302'-0.25, 2541'-0.50, 3557'-0.75, 4640'-

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 18 collars (6.25"x2.25"): 533.58'
Drilling with 10,000-14,000 lbs on bit and 110-120 RPM
Pumping 60 S/M; 7.74 B/M; and 850-900 PSI at the standpipe

Daily Status

08/27/21 - Spud at 7:00 AM; Set 8-5/8" csg @ 300'; PD @ 12:15 PM; DP @ 8:15 PM
08/28/21 - 1,461' Drilling
08/29/21 - 3,303' Drilling; Displace @ 3,379'; Wiper trip @ 3,916'
08/30/21 - 3,940' TOOH for DST #1
08/31/21 - 4,128' Drilling; DST #2 @ 4,299'
09/01/21 - 4,305' Drilling; DST #3 @ 4,383'
08/02/21 - 4,536' TOOH for DST #4
08/03/21 - 4,640' Logging

Log Tops

Sample Tops

Anhydrite	2235 (+726)
Base of Anhy	2297 (+664)
Heebner	3880 (-919)
Lansing	3927 (-966)
Muncie Creek	4104 (-1143)
Stark Sh	4206 (-1245)
Hushpuckney	4239 (-1278)
Pleasanton	4287 (-1326)
Marmaton	4314 (-1353)
Pawnee	4402 (-1441)
Cherokee Sh	4444 (-1483)
Johnson Zone	4502 (-1541)
Morrow Shale	4538 (-1577)
Miss - St Louis	4543 (-1582)
Total Depth	4640 (-1679)

DSTs

DST #1: 3,920' - 3,940' (LKC "A")

30" - 45" - 30" - 45"

IF: Blow building to 9.5 inches

ISI: No return blow

FF: Blow building to 8 inches

FSI: No return blow

RECOVERY: 315' Total Fluid, consisting of:

126' OSMW (60% W & 40% M)

189' MW (90% W & 10% M); Chlorides: 35,000 ppm

Sampler: 2000 ml Water @ 135 psi

SIP: 900-874; FP: 37-128, 118-158; HP: 1935-1873; BHT: 125

DST #2: 4,282' - 4,299' (Pleasanton)

30" - 30" - 0" - 0"

IF: Blow building to 10.5 inches

ISI: No return blow

FF: N/A

FSI: N/A

RECOVERY: 200' Total Fluid, consisting of:

200' MW (90% W & 10% M)

Sampler: 2000 ml Water @ 140 psi

Chlorides recovery: 23,000 ppm

ISIP: 663; IFP: 37-129; HP: 2131-1972; BHT: 128

DST #3: 4,362' - 4,383' (Marmaton "D")

15" - 30" - 0" - 0"

IF: Weak surface blow

ISI: No return blow

FF: N/A

FSI: N/A

RECOVERY: 5' Total Fluid, consisting of:

5' Mud (100% M)

Sampler: 2000 ml Mud @ 3 psi

ISIP: 37; IFP: 32-31; HP: 2216-2031; BHT: 117

DST #4: 4,524' - 4,536' (Basal Johnson)

30" - 60" - 60" - 90"

IF: Blow building to 12 inches

ISI: Return blow building to 0.75 inches

FF: Blow building to 24 inches

FSI: Return blow building to 3 inches

RECOVERY: 420' GIP & 210' Total Fluid, consisting of:

150' GO (20% G & 80% O); Gravity: 31 API

60' GOCM (10% G, 10% O & 80% M)

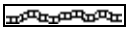
Sampler: 1000 ml Gas & 1000 ml Oil @ 240 psi

SIP: 945-912; FP: 34-63, 70-97; HP: 2243-2125; BHT: 134

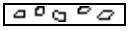
ROCK TYPES



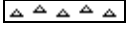
Anhy



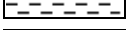
Bent



Brec



Cht



Clyst



Coal



Congl



Dol



Gyp



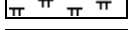
Igne



Lmst



Meta



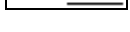
Mrlst



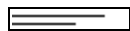
Salt



Shale



Shcol



Shgy



Sltst



Ss



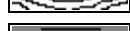
Till



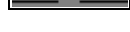
Carb sh



Dol



Dtd



Gry sh



Sandylms



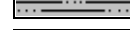
Shale



Sltstn



Shlyslts



SltysH



Lms

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr



- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Stly

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram



- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh



- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY TYPE

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

INTERVALS

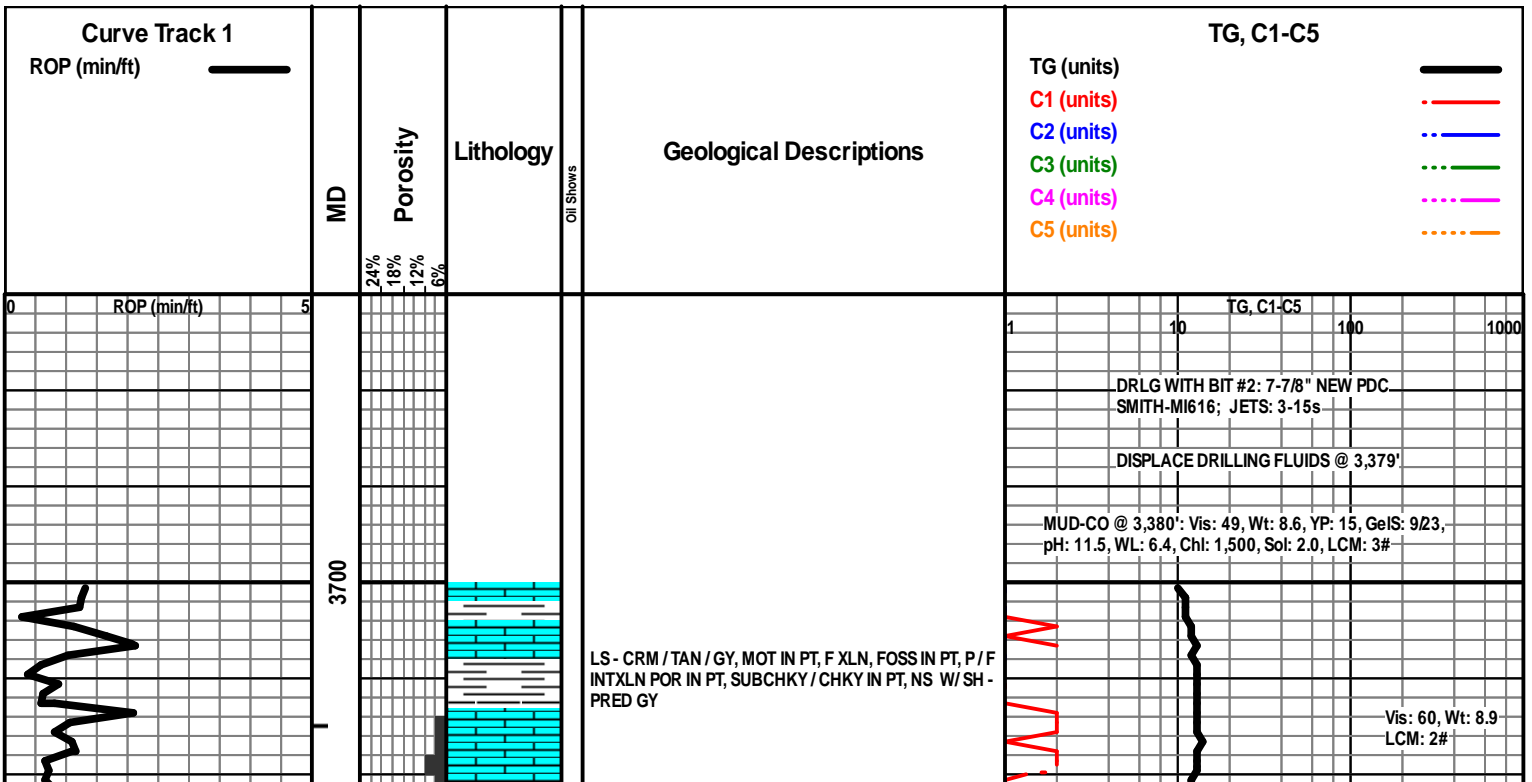
- Core
- Dst

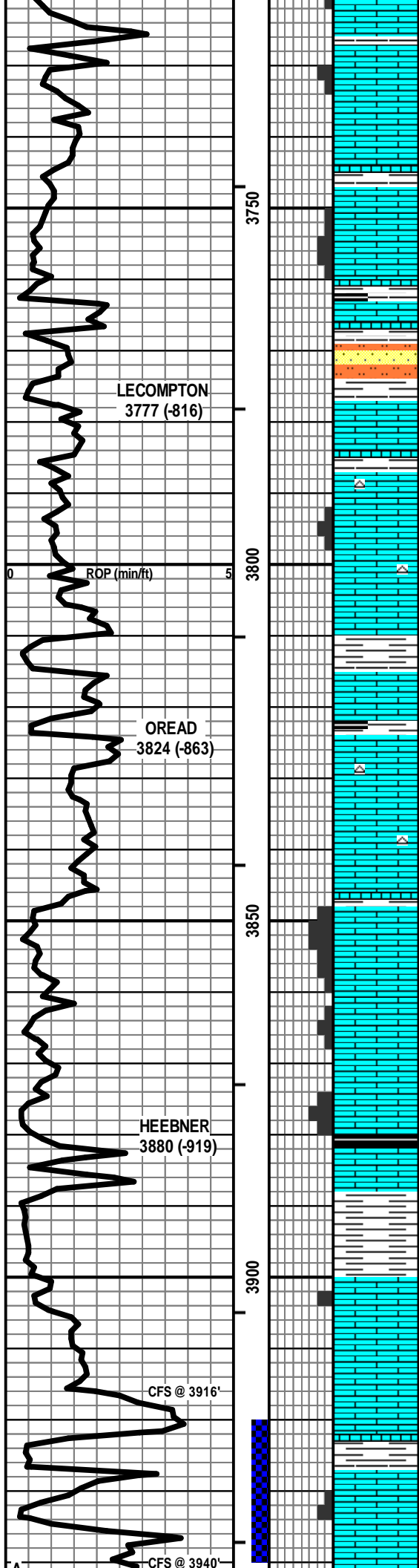


- Dst_1_t
- Dst_1_b
- Dst

EVENTS

- Rft
- Sidewall
- Conn





LS - ASABOVE, NS W/LS - CRM / WHT, F / VF XLN, SCAT P / TR F INTXLN POR, PRED DNS, NS

LS - CRM / GY / TAN, MOT IN PT, F XLN, FOSS, CHKY IN PT, PRED DNS, NS

LS - TAN / CRM, F XLN, FOSS IN PT, SCAT P / F INTXLN POR IN PT, SUBCHKY / DNS, NS W / SH - GY / SCAT BLK W / SLTST - GY W / SCAT SS - GY, SLT / VF GR, NS

LS - CRM / TAN, F XLN, FOSS IN PT, SCAT OOL, P / F INTXLN & PPT POR IN PT, CHKY IN PT / DNS, NS W / SCAT CHT - LT GY / CRM

LS - CRM / TAN / GY, F / VF XLN, FOSS IN PT, PRED DNS, NS W / SH - PRED GY / SCAT BLK

LS - CRM / TAN / SCAT BRN, F XLN, FOSS IN PT, SUBCHKY IN PT, PRED DNS, TR GILS STN, PRED NS W / SCAT CHT - WHT

LS - CRM / TAN, F XLN, FOSS IN PT, CHKY / DNS, NS W / SCAT CHT - WHT

LS - CRM / TAN, MOT IN PT, F / M XLN, SCAT REXLN CALC, FOSS, F / G INTXLN & PPT & VUG POR, NS

LS - CRM / TAN / GY, F XLN, DOLO IN PT, FOSS IN PT, F / G INTXLN & PPT POR, TR VUG POR, SOME DNS, NS

SH - BLK, CARB W / LS - TAN, F XLN, FOSS IN PT, PRED DNS, NS

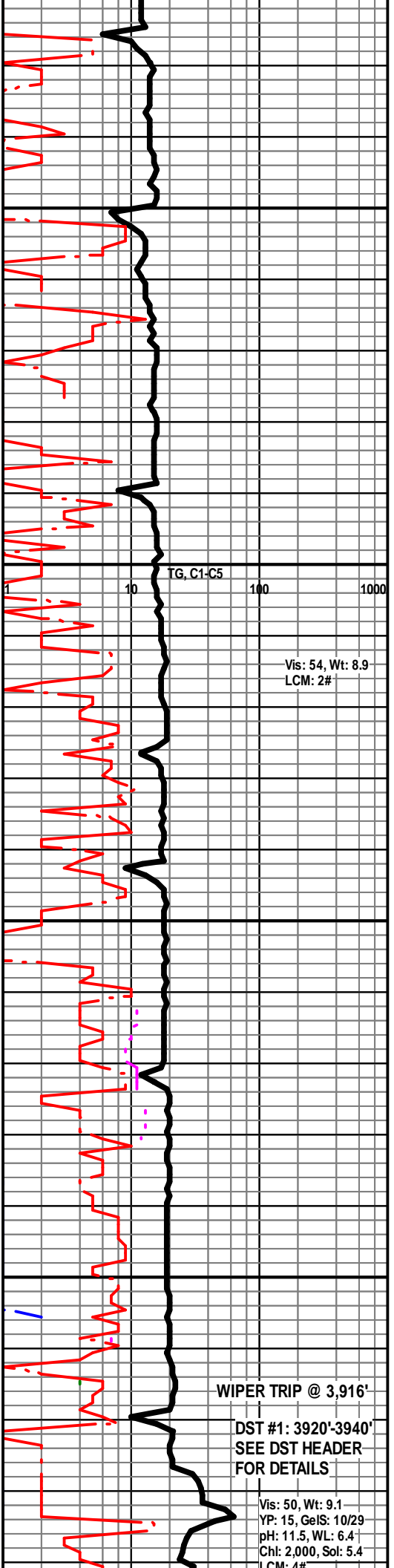
SH - PRED GY

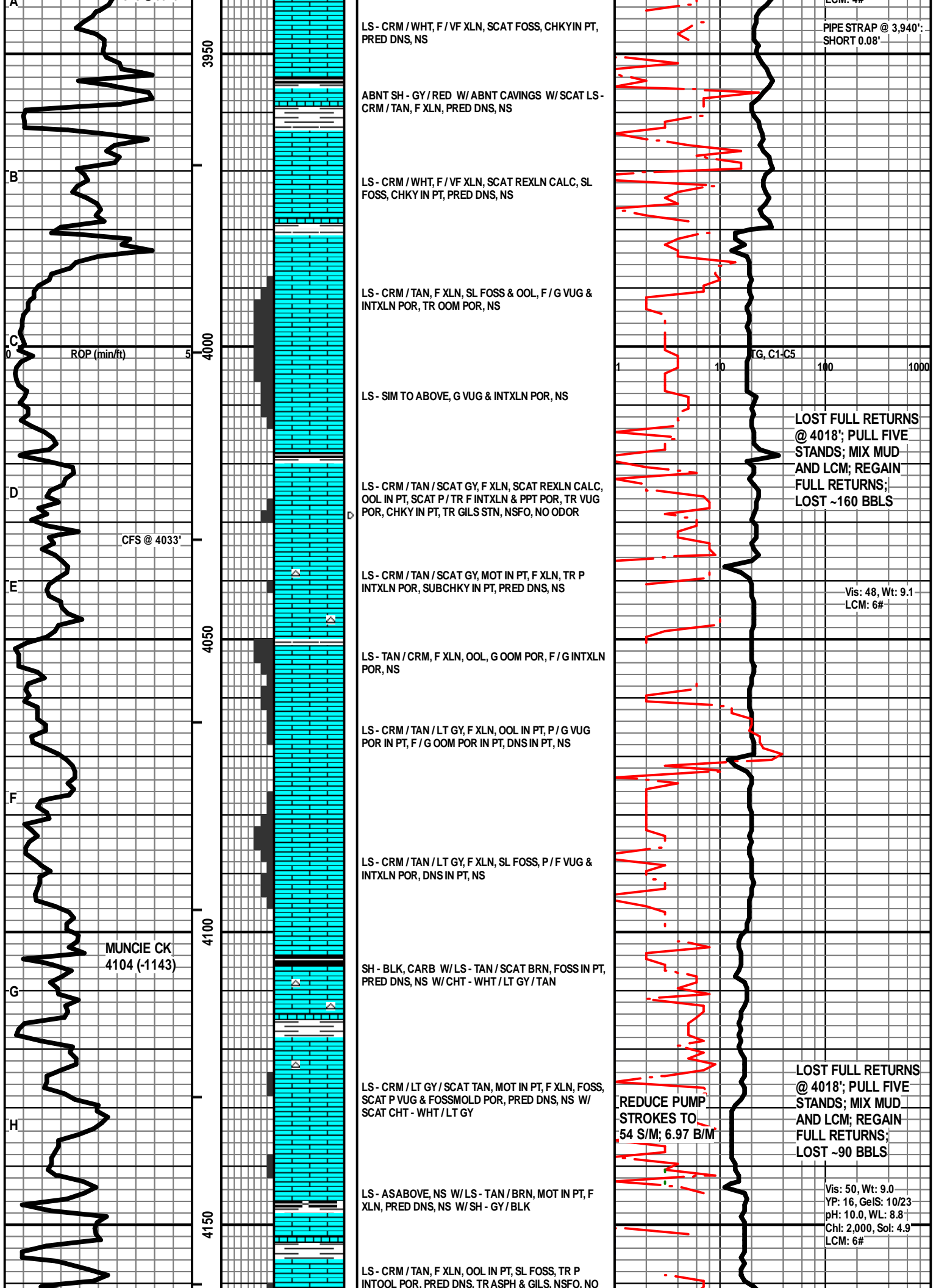
LS - CRM / WHT / SCAT TAN, F / SCAT M XLN, FOSS IN PT, SCAT OOL, SCAT P / F INTXLN & PPT POR, CHKY IN PT, PRED DNS, TR GILS, NO ODOR, PRED NS

LS - SIM TO ABOVE, CHKY / DNS, NS W / SH - PRED GY

— LANSING 3927 (-966)

LS - CRM, F XLN, OOL IN PT, SL FOSS, P / F OOM & VUG POR, S / F SFO, SL S ASPH, MOD AMT BARR POR, V FT ODOR, SPTY STN, F / G FLUOR & CUT





LS - CRM / WHT, F / VF XLN, SCAT FOSS, CHKYIN PT, PRED DNS, NS

LCM: 4#
PIPE STRAP @ 3,940' SHORT 0.08'

ABNT SH - GY / RED W/ ABNT CAVINGS W/ SCAT LS - CRM / TAN, F XLN, PRED DNS, NS

LS - CRM / WHT, F / VF XLN, SCAT REXLN CALC, SL FOSS, CHKY IN PT, PRED DNS, NS

LS - CRM / TAN, F XLN, SL FOSS & OOL, F / G VUG & INTXLN POR, TR OOM POR, NS

LS - SIM TO ABOVE, G VUG & INTXLN POR, NS

LS - CRM / TAN / SCAT GY, F XLN, SCAT REXLN CALC, OOL IN PT, SCAT P / TR F INTXLN & PPT POR, TR VUG POR, CHKY IN PT, TR GILS STN, NSFO, NO ODOR

LOST FULL RETURNS @ 4018'; PULL FIVE STANDS; MIX MUD AND LCM; REGAIN FULL RETURNS; LOST ~160 BBLs

LS - CRM / TAN / SCAT GY, MOT IN PT, F XLN, TR P INTXLN POR, SUBCHKY IN PT, PRED DNS, NS

Vis: 48, Wt: 9.1
LCM: 6#

LS - TAN / CRM, F XLN, OOL, G OOM POR, F / G INTXLN POR, NS

LS - CRM / TAN / LT GY, F XLN, OOL IN PT, P / G VUG POR IN PT, F / G OOM POR IN PT, DNS IN PT, NS

LS - CRM / TAN / LT GY, F XLN, SL FOSS, P / F VUG & INTXLN POR, DNS IN PT, NS

MUNCIE CK 4104 (-1143)

SH - BLK, CARB W/LS - TAN / SCAT BRN, FOSS IN PT, PRED DNS, NS W/ CHT - WHT / LT GY / TAN

LS - CRM / LT GY / SCAT TAN, MOT IN PT, F XLN, FOSS, SCAT P VUG & FOSSMOLD POR, PRED DNS, NS W/ SCAT CHT - WHT / LT GY

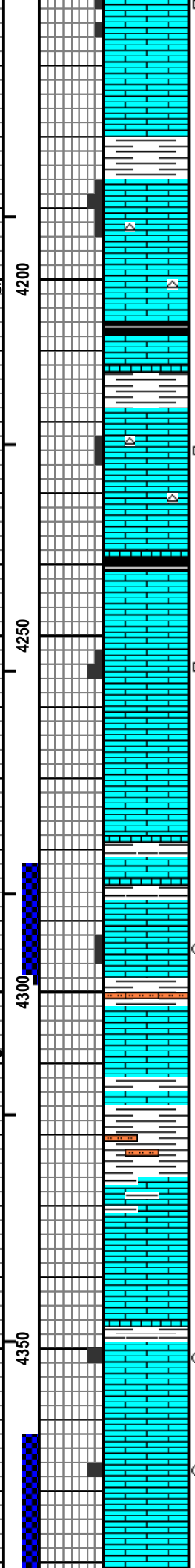
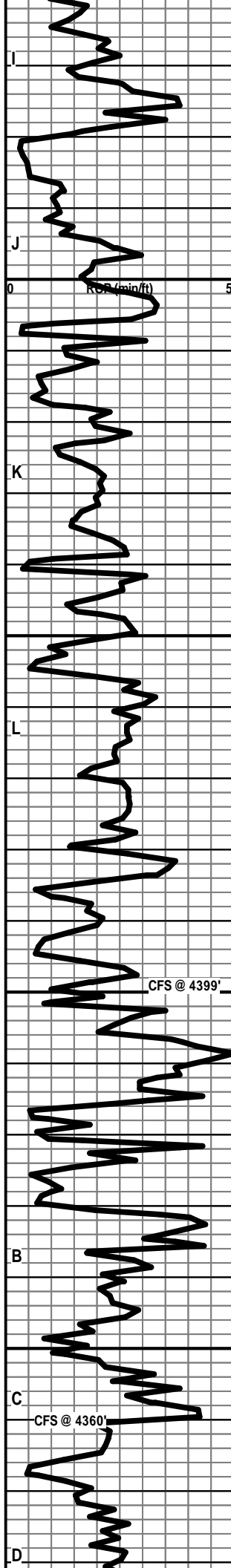
REDUCE PUMP STROKES TO 54 S/M; 6.97 B/M

LOST FULL RETURNS @ 4018'; PULL FIVE STANDS; MIX MUD AND LCM; REGAIN FULL RETURNS; LOST ~90 BBLs

LS - AS ABOVE, NS W/LS - TAN / BRN, MOT IN PT, F XLN, PRED DNS, NS W/ SH - GY / BLK

Vis: 50, Wt: 9.0
YP: 16, GeIS: 10/23
pH: 10.0, WL: 8.8
Chl: 2,000, Sol: 4.9
LCM: 6#

LS - CRM / TAN, F XLN, OOL IN PT, SL FOSS, TR P INTOOL POR, PRED DNS, TR ASPH & GILS, NSFO, NO



ODOR, TR SPTY BLK STN

LS - ASABOVE, SCAT P INTOOL POR, PRED DNS, FS GILS, SL S ASPH, NSFO, V FT SULFER ODOR, SCAT SPTY BLK STN

LS - CRM / TAN, F / VF XLN, FOSS & OOL IN PT, P / F INTXLN & PPT POR, TR P VUG POR, PRED DNS, NS W/ SCAT CHT - WHT / LT GY

— STARK SH 4206 (-1245)

SH - BLK / GY, CARB IN PT W/LS - TAN / BRN / CRM, MOT IN PT, F XLN, FOSS IN PT, PRED DNS, NS

LS - CRM / TAN / BRN, MOT IN PT, F / VF XLN, SCAT REXLN CALC, FOSS IN PT, SCAT PVUG POR, NO VIS INTXLN POR, PRED DNS, TR SPTY GILS STN, NSFO, NO ODOR W/SCAT CHT - WHT / LT GY

— HUSHPUCKNEY 4239 (-1278)

LS - CRM / TAN / LT GY, F XLN, OOL IN PT, SCAT P / F INTXLN / INTPART & VUG POR, PRED SUBCHKY / DNS, TR FO, SL S ASPH & GILS, V FT ODOR, SCAT SPTY BLK STN

LS - TAN / GY / BRN, MOT IN PT, F XLN, FOSS & OOL IN PT, PRED DNS, NS W/CHT - WHT / LT GY

— PLEASANTON 4287 (-1326)

LS - CRM / TAN, F XLN, FOSS & OOL IN PT, SCAT PRED P / TR F INTXLN & PPT POR, SL / TR F SFO, V FT ODOR, SCAT SPTY STN, F / G FLUOR & CUT

LS - CRM / WHT / SCAT TAN, F / VF XLN, SL FOSS & OOL, SUBCHKY / DNS, NS W/LS - CRM / TAN / SCAT GY, MOT IN PT, F XLN, FOSS & OOL, DNS, NS W/SCAT SH & SLTST

— MARMATON 4314 (-1353)

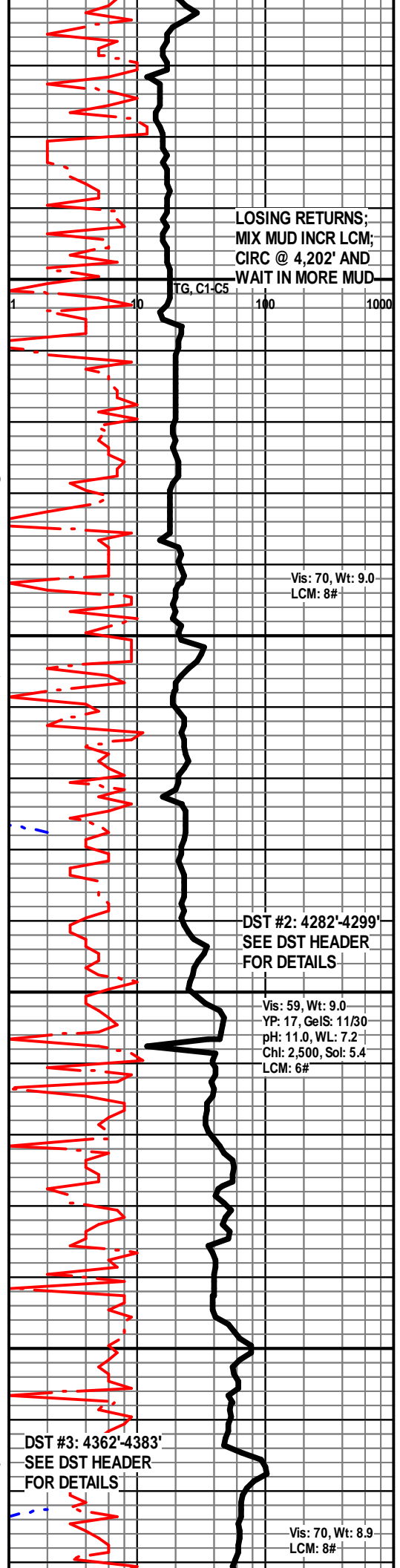
LS - CRM / TAN / SCAT GY, ASABOVE, DNS, NS W/ ABNT SH - PRED GY W/SLTST - GY

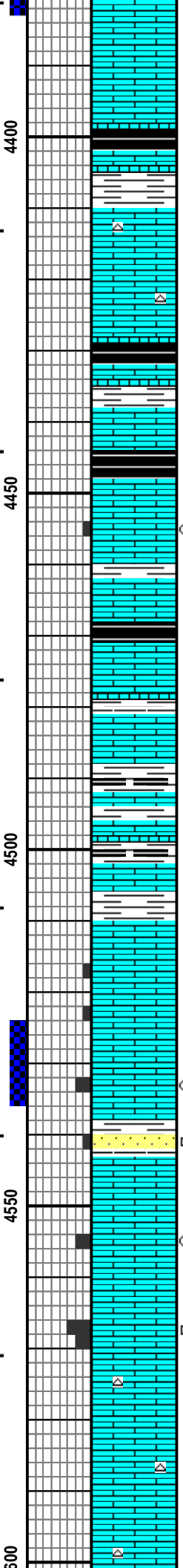
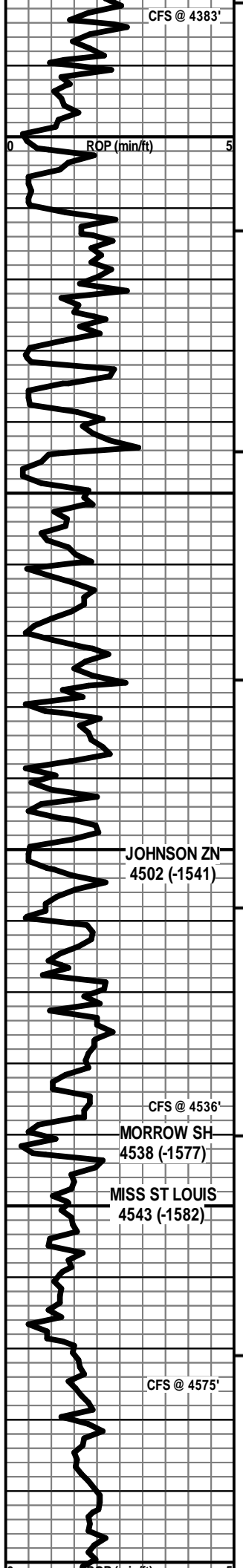
LS - TAN / GY / SCAT BRN, MOT IN PT, F XLN, FOSS IN PT, SCAT OOL, PRED DNS, NS W/ABNT SH - PRED GY W/SCAT SLTST - GY

LS - CRM / TAN, F / M XLN, SCAT OOL, P / G VUG & INTXLN POR, F / G SFO, TR GB, F ODOR, SPTY / SCAT SAT STN, G FLUOR & CUT W/ ABNT F XLN, DNS

LS - CRM / TAN / LT GY, PRED F XLN, SCAT F / M XLN, OOL IN PT, SL FOSS, P / F INTXLN & INTOOL POR, TR VUG POR ? (CAVINGS ?), SSFO & GB, SL / F S ASPH, FT ODOR, PRED SPTY STN, F / G FLUOR, G CUT

LS - CRM / TAN, F XLN, SL OOL, PRED DNS, NS





LS - TAN / CRM, F / VF XLN, PRED DNS, NS

— PAWNEE 4402 (-1441)

SH - BLK / GY, CARB IN PT W/LS - CRM / TAN / SCAT BRN, F / VF XLN, SL FOSS, PRED DNS, NS W/ SCAT CHT - LT GY / WHT

LS - SIM TO ABOVE, NS W/ SCAT CHT W/ SH - BLK, CARB

LS - CRM / TAN / BRN, MOT IN PT, F XLN, FOSS IN PT, PRED DNS, NS W/ SH - BLK / GY

— CHEROKEE SHALE 4444 (-1483)

SH - BLK, CARB W/LS - TAN / GY, MOT IN PT, F XLN, FOSS, OOL IN PT, TR P INTOOL POR, PRED DNS, TR ASPH & GB, NO ODOR, TR SPTY STN, PRED NS

LS - CRM / TAN / BRN / GY, MOT IN PT, F XLN, FOSS IN PT, PRED DNS, NS W/ SH - BLK, CARB

LS - TAN / CRM / SCAT BRN, MOT IN PT, F XLN, SL FOSS, PRED DNS, NS W/ SH - GY / BLK, CARB IN PT

JOHNSON ZN 4502 (-1541)

LS - CRM / TAN / GY, MOT IN PT, F XLN, SL FOSS, PRED DNS, NS W/ SH - GY / SCAT BLK

LS - CRM / TAN / SCAT BRN, MOT IN PT, F XLN, SL FOSS, TR P INTXLN & PPT POR, VSS ASPH & GILS, NSFO, NO ODOR, SCAT SPTY BLK STN

LS - CRM / TAN, F XLN, FOSS, SUBCHKY IN PT, FEW PCES F VUG & INTXLN POR, PRED P POR, VSSFO, SL S ASPH, V FT ODOR, SCAT SPTY STN, SCAT P / G FLUOR + CUT

CFS @ 4536'

MORROW SH 4538 (-1577)

LS - GY W/ SCAT SS - LT GY, VF / M GR, P SRD, SA / R, SIL CEM, PRED P INTGR POR, SL FRI IN PT, TR FO, F / G S GILS, NO ODOR

MISS ST LOUIS 4543 (-1582)

LS - CRM / WHT / TAN, VF / F XLN, SCAT CRYPTO XLN, OOL IN PT, PRED DNS, NS

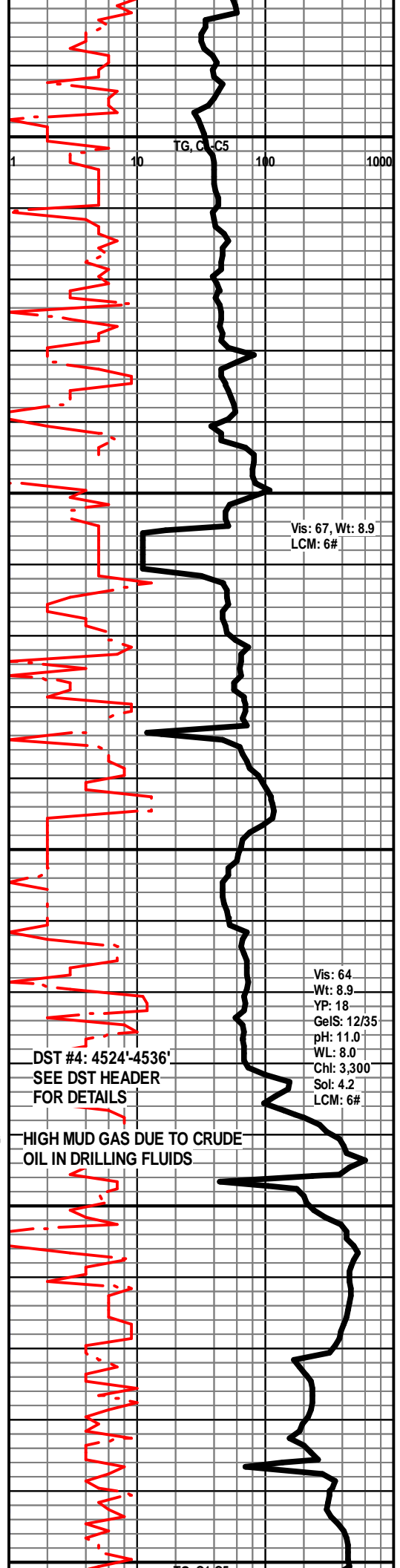
LS - AS ABOVE, DOLO IN PT, P / F OOM & VUG POR IN PT, SL / F SFO & GB IN PT, ABNT BARR POR, NO ODOR

LS - CRM / WHT / TAN, VF / F XLN, OOL IN PT, DOLO IN PT, P / F OOM & VUG POR IN PT, SSFO, FS GILS, PRED BARR / NS, NO ODOR

CFS @ 4575'

LS - CRM / TAN, VF / F XLN, OOL IN PT, PRED DNS, SUBCHKY IN PT, NS W/ SCAT CHT - LT GY / WHT

LS - CRM / TAN, VF / F XLN, OOL IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / WHT

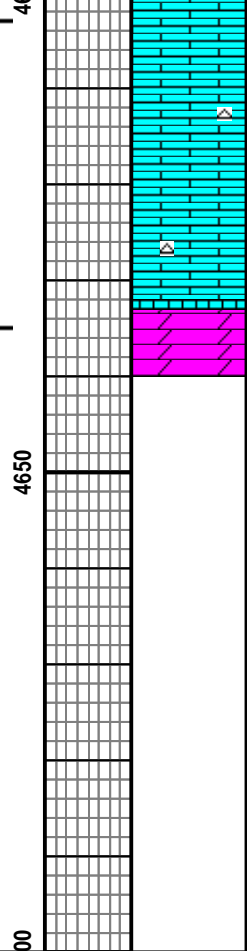
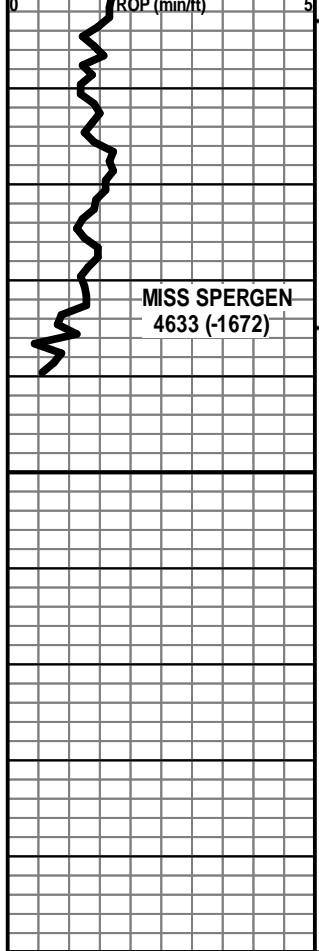


Vis: 67, Wt: 8.9
LCM: 6#

Vis: 64
Wt: 8.9
YP: 18
GelS: 12/35
pH: 11.0
WL: 8.0
Chl: 3,300
Sol: 4.2
LCM: 6#

DST #4: 4524'-4536'
SEE DST HEADER FOR DETAILS

HIGH MUD GAS DUE TO CRUDE OIL IN DRILLING FLUIDS



LS - TAN / CRM / SCAT BRN, F XLN, SCAT OOL, PRED DNS, NS W/ SCAT CHT - LT GY / WHT

LS - TAN / CRM, F XLN, OOL IN PT, SUBCHKY IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / WHT

LS - ASABOVE W/DOLO - CRM / TAN, F XLN, P / F INTXLN & PPT POR, SL / F S GILS, NO ODOR, SPTY BLK STN

TOTAL DEPTH 4640 (-1679)

