KOLAR Document ID: 1562989

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 # 6044
Name: Stelbar Oil Corporation, Inc.
Address 1: 1625 N WATERFRONT PKWY STE 200
Address 2:
City: WICHITA State: KS Zip: 67206 + 6602
Contact Person: Dustin Damme
Phone: (316) 264-8378
CONTRACTOR: License # 35638
Name: L D Drilling & Exploration, LLC
Wellsite Geologist: Dave Goldak
Purchaser: N/A

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 #:

02/02/2021	02/27/2021	02/27/2021
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-199-20452-00-00
Spot Description:
SE - NE - SW - SE Sec. 4 Twp. 15 S. R. 41 ☐ East ☑ West
884 Feet from ☐ North / ☑ South Line of Section
1445 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: Wallace
Lease Name: SCHEMM Well #: 1-4
Field Name: Wildcat
Producing Formation: N/A
Elevation: Ground: 3777 Kelly Bushing: 3782
Total Vertical Depth: 5240 Plug Back Total Depth: 0
Amount of Surface Pipe Set and Cemented at: 507 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: 28000 ppm Fluid volume: 1200 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

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

Submitted Electronically

KCC Office Use ONLY
☐ **Confidentiality Requested**
Date: 03/19/2021
☐ **Confidential Release Date:** 03/19/2023
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Karen Ritter **Date:** 03/19/2021

Operator Name: Stelbar Oil Corporation, Inc. Lease Name: SCHEMM Well #: 1-4

Sec. 4 Twp. 15 S. R. 41 ☐ East ☑ West County: Wallace

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	☐ Log	Formation (Top), Depth and Datum ☑ Sample
Samples Sent to Geological Survey	☑ Yes	☐ No	Name: Attached	Top: Attached Datum: Attached
Cores Taken	☐ Yes	☑ No		
Electric Log Run	☑ Yes	☐ No		
Geologist Report / Mud Logs	☑ Yes	☐ No		

List All E. Logs Run:
Attached

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.250	8.625	24	507	60/40 Pozmix	165	3% CC-1/4# sk Floseal
Surface	12.250	8.625	27	507	H-Conn	145	3% CC-1/4# Floseal

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/ Injection:	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

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

TUBING RECORD: Size: Set At: Packer At:

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

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	SCHEMM 1-4
Doc ID	1562989

All Electric Logs Run

Comp. Density/Neutron PE/Log
Dual Induction Log
Sonic Log
Micro Log

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	SCHEMM 1-4
Doc ID	1562989

Tops

Name	Top	Datum
B/Anhydrite	2815	+967
Heebner Shale	4140	-358
Stark Shale	4475	-693
Cherokee Shale	4742	-960
Atoka Ls	4848	-1066
Morrow Shale	4976	-1194
Morrow Sand	4990	-1208
Morrow Ls	5079	-1297
Mississippian	5158	-1376

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	SCHEMM 1-4
Doc ID	1562989

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.250	8.625	24	507	60/40 Pozmix	165	3% CC-1/4# sk Floseal
Surface	12.250	8.625	27	507	H-Conn	145	3% CC-1/4# Floseal

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202

Customer	Stelbar Oil Corporation	**Lease & Well #**	Schemm 1-4			**Date**	2/3/21
Service District	Oakley KS	**County & State**	Wallace KS	**Legals S/T/R**	4/15/41W	**Job #**	
Job Type	8 5/8 Surface	☑ PROD ☐ INJ ☐ SWD		**New Well?**	☑ YES ☐ No	**Ticket #**	WP1142

Equipment #	Driver
78	Dane
230	Fennis
194/254	Allen

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☑ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☑ Slip/Trip/Fall Hazards	☑ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☑ Overhead Hazards	☑ Muster Point/Medical Locations
☑ Hearing Protection	☑ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
MD10	Heavy Equipment Mileage	mi	65.00			$195.00
MD15	Light Equipment Mileage	mi	65.00			$97.50
MD20	Ton Mileage	tm	306.75			$1,020.09
CP010	Cement Pump Service	ea	1.00			$562.50
CP050	Cement Plug Container	job	1.00			$187.50
CP025	H-Con	sack	143.00			$2,283.75
CP070	60/40/2 Pozmix	sack	168.00			$1,608.75
CP100	Calcium Chloride	lb	837.00			$470.81
CP120	Cello-flake	lb	77.00			$101.06
FE275	8 5/8" AFU Flapper Insert Valve	ea	1.00			$281.25
FE285	8 5/8" Rubber Plug	ea	1.00			$131.25
FE250	8 5/8" Centralizer	ea	3.00			$202.50

Customer Section: On the following scale how would you rate Hurricane Services Inc?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

				Net:	$7,141.97
Total Taxable	$ -	Tax Rate:			
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.			Sale Tax:	$ -	
			Total:	$ 7,141.97	

HSI Representative: *Dane Retzloff*

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. **Prices** quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. DISCLAIMER NOTICE: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results fom the use of any product or service. The information **presented** is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and **property while** HSI is on location performing services. The **authorization** below acknowledges the receipt and acceptance of all **terms/conditions** stated above, and Hurricane has been provided accurate well informaiton in determining taxable services.

X_____ CUSTOMER AUTHORIZATION SIGNATURE

CEMENT TREATMENT REPORT

Customer:	Stelbar Oil Corporation	**Well:**	Schemm 1-4	**Ticket:**	WP1142
City, State:		**County:**	Wallace KS	**Date:**	2/3/21
Field Rep:	Rick	**S-T-R:**	4/15/41W	**Service:**	8 5/8 Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	501 ft
Casing Size:	8 5/8 in
Casing Depth:	501 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	27.7 bbls

Calculated Slurry - Lead	
Blend:	H-Con
Weight:	12.0 ppg
Water / Sx:	14.5 gal / sx
Yield:	2.47 ft^3 / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	501 ft
Annular Volume:	36.8 bbls
Excess:	185%
Total Slurry:	64.0 bbls
Total Sacks:	145 sx

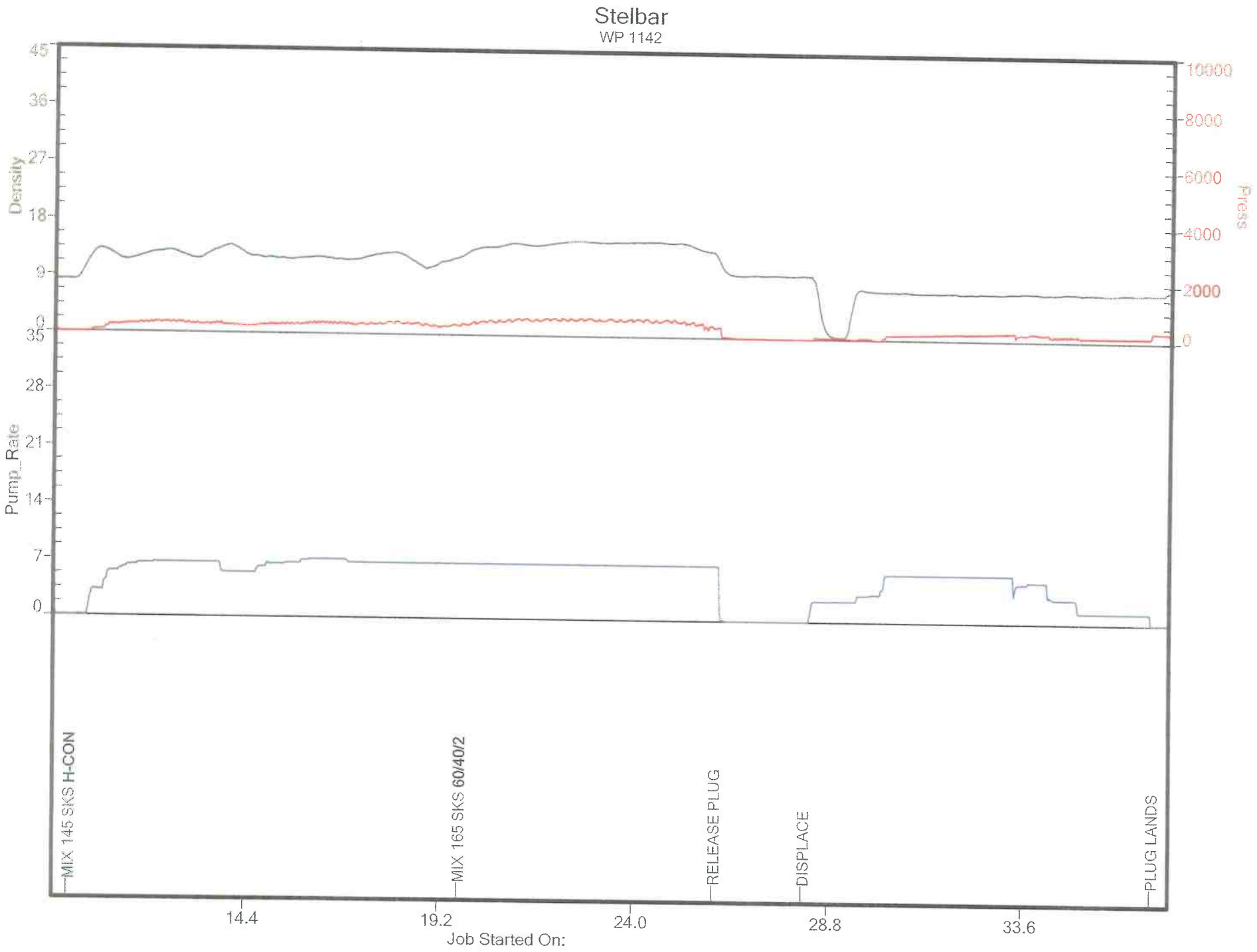
Calculated Slurry - Tail	
Blend:	60/40/2 with 3%CC .25 Flo
Weight:	14.8 ppg
Water / Sx:	5.2 gal / sx
Yield:	1.21 ft^3 / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	501 ft
Annular Volume:	22.05 bbls
Excess:	135%
Total Slurry:	31.2 bbls
Total Sacks:	165 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
0600am			-	-	Arrive on location
0605am				-	Safety Meeting
0610am				-	Rig up pump and lines
0730am				-	Rig starts running 8 5/8 casing
0900am				-	Casing on bottom. Drop ball. Pump mud with rig. Ball thru @ 200 psi
0910am	2.0	400.0	5.0	5.0	Pump H20 ahead
0911am	6.0	350.0	64.0	69.0	Mix 145 sks of H-Con
0920am	6.0	300.0	31.0	100.0	Mix 165 sks of 60/40/2 Pozmix with 3% Calcium Chloride .25 Cello-Flake
0927am				100.0	Shut down. Release plug from plug container
0930am	6.0	250.0	27.7	127.7	Displace
0936am		300.0		127.7	Plug lands @ 300 psi. Final lift was 250
0940am					Release pressure. Float holds
					Wash up pump and lines
					Rig down
					Depart location
					Approx 5 bbls of cement to pit

CREW		UNIT
Cementer:	Dane	78
Pump Operator:	Fennis	230
Bulk #1:	Allen	194/254
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
5.0 bpm	320 psi	128 bbls

ftv: 13-2021/01/19
mplv: 105-2021/01/27


Stelbar
WP 1142
Density
Pump_Rate
Press
45
36
27
18
9
0
35
28
21
14
7
0
10000
8000
6000
4000
2000
0
MIX 145 SKS H-CON
MIX 165 SKS 60/40/2
RELEASE PLUG
DISPLACE
PLUG LANDS
14.4
19.2
24.0
28.8
33.6
Job Started On:

CEMENT TREATMENT REPORT

Customer:	Stelbar Oil Corporation	Well:	Schemm 1-4	Ticket:	WP 1185
City, State:		County:	Wallace Ks	Date:	2/27/2021
Field Rep:		S-T-R:	4-15-41W	Service:	Rotary plug

Downhole Information	
Hole Size:	7.25 in
Hole Depth:	5250 ft
Casing Size:	in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	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:	1.43 ft^3 / sx
Annular Bbls / Ft.:	0.0406 bbs / ft.
Depth:	5250 ft
Annular Volume:	213.2 bbls
Excess:	
Total Slurry:	61.1 bbls
Total Sacks:	240 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	STAGE BBLs	TOTAL BBLs	REMARKS
300P			-	-	GOT TO LOCATION
305P				-	SAFETY MEETING
310P				-	RIGGED UP TRUCKS
				-	WAITED ON RIGG TO PULL BP AND TRIP PIPE BACK IN HOLE
558P	1.6	200.0	5.0	5.0	H20 AHEAD
601P	3.1	300.0	12.7	17.7	PUMPED 50 SKS OF H-PLUG @ 2800 FT
605P	3.0	50.0	5.0	22.7	DISPLACED WITH H20
608P				22.7	FINISHED DISPLACING WITH RIG PUMP
720P	5.0	200.0	25.4	48.1	PUMPED 100 SKS OF H-PLUG @ 1725 FT
725P	3.0	100.0	24.4	72.5	DISPLACED WITH H20
832P	3.1	200.0	12.7	85.2	PUMPED 50 SKS OF H-PLUG @ 550 FT
837P	3.0	100.0	7.8		DISPLACED WITH H20
1000P					PUT 8 5/8 PLUG IN SURFACE CASING AND PUSHED DOWN WITH KELLY/ RIGGED DOWN KELLY
1043P	1.5	50.0	7.6		PUMPED 30 SKS OF H-PLUG DOWN RH
1048P	1.5	50.0	2.5		PUMPED 10 SKS OF H-PLUG IN TOP 40 FT
1050P					PLUG DOWN
1055P					WASHED UP PUMPED TRUCK
1115P					RIGGED DOWN TRUCKS
1130P					OFF LOCATION

	CREW	UNIT
Cementer:	Josh	73
Pump Operator:	John	208
Bulk #1:	Fennis	205
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
2.8 bpm	139 psi	103 bbls

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202

Customer	Stelbar Oil Corporation	Lease & Well #	Schemm 1-4			Date	2/27/2021
Service District	Oakley Ks	County & State	Wallace Ks	Legals S/T/R	4-15-41W	Job #	
Job Type	Rotary plug	☑ PROD ☐ INJ ☐ SWD		New Well?	☑ YES ☐ No	Ticket #	WP 1185

Equipment #	Driver
73	Josh
208	John
205	Fennis

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☑ Lockout/Tagout	☑ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☑ Required Permits	☑ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☑ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☑ Overhead Hazards	☑ Muster Point/Medical Locations
☐ Hearing Protection	☑ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
D013	Depth Charge: 2001'-3000'	job	1.00			$1,600.00
M010	Heavy Equipment Mileage	mi	65.00			$208.00
M010	Heavy Equipment Mileage	mi	65.00			$208.00
M020	Ton Mileage	tm	671.00			$805.20
CP055	H-Plug	sack	240.00			$2,496.00
CP120	Cello-flake	lb	62.00			$86.80
FE290	8 5/8" Wooden Plug	ea	1.00			$120.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

		Net:	$5,524.00
Total Taxable	$ -	Tax Rate:	
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		Sale Tax:	$ -
		Total:	$ 5,524.00

HSI Representative:

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results fom the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well informaiton in determining taxable services.

X_____ **CUSTOMER AUTHORIZATION SIGNATURE**

ftv: 15-2021/01/25
mplv: 105-2021/01/27

DRILL STEM TEST REPORT

Stelbar Oil Corp

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

4-15s-41w Wallace,Ks

Schemm 1-4

Job Ticket: 66797 **DST#: 1**

Test Start: 2021.02.24 @ 22:36:36

GENERAL INFORMATION:

Formation: **Morrow Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:23:36
Time Test Ended: 08:36:06

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79

Interval: 4974.00 ft (KB) To 5005.00 ft (KB) (TVD)
Total Depth: 5005.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

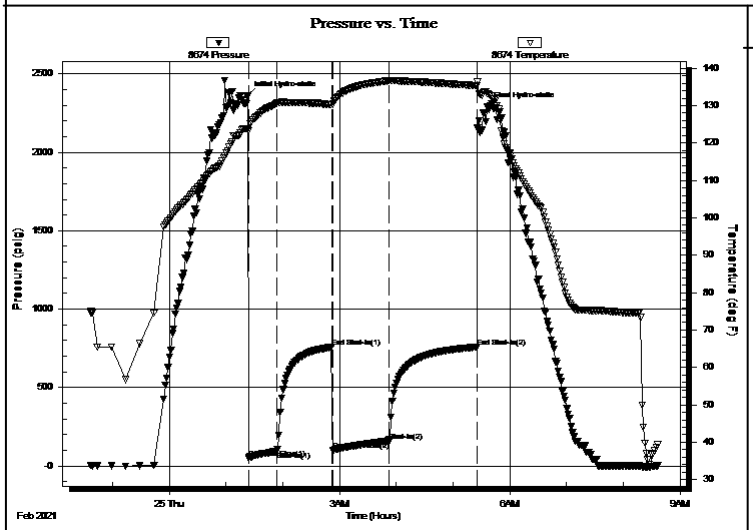
Reference Elevations: 3782.00 ft (KB)
3777.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8674 **Outside**

Press@RunDepth: 159.34 psig @ 4975.00 ft (KB)
Start Date: 2021.02.24 End Date: 2021.02.25
Start Time: 22:36:41 End Time: 08:36:06

Capacity: 8000.00 psig
Last Calib.: 2021.02.25
Time On Btm: 2021.02.25 @ 01:22:06
Time Off Btm: 2021.02.25 @ 05:36:06

TEST COMMENT: IF: BOB in 3 min. 66"
IS: 1/4 blow built to 2 1/2"
FF: BOB in 14 min. 36"
FS: Surface blow built to 3 3/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2363.29	123.85	Initial Hydro-static
2	49.57	123.24	Open To Flow (1)
32	94.11	130.63	Shut-In(1)
90	757.38	130.35	End Shut-In(1)
91	98.55	130.41	Open To Flow (2)
150	159.34	136.65	Shut-In(2)
243	757.10	135.37	End Shut-In(2)
254	2288.83	133.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	mcw 90%w 10%m	0.88
126.00	gocw m 15%g 5%o 20%w 60%m	1.77
126.00	gocm 10%g 10%o 80%m	1.77
0.00	1197 GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Stelbar Oil Corp

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

4-15s-41w Wallace,Ks

Schemm 1-4

Job Ticket: 66797 **DST#: 1**

Test Start: 2021.02.24 @ 22:36:36

GENERAL INFORMATION:

Formation: **Morrow Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:23:36
Time Test Ended: 08:36:06

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79

Interval: 4974.00 ft (KB) To 5005.00 ft (KB) (TVD)
Total Depth: 5005.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

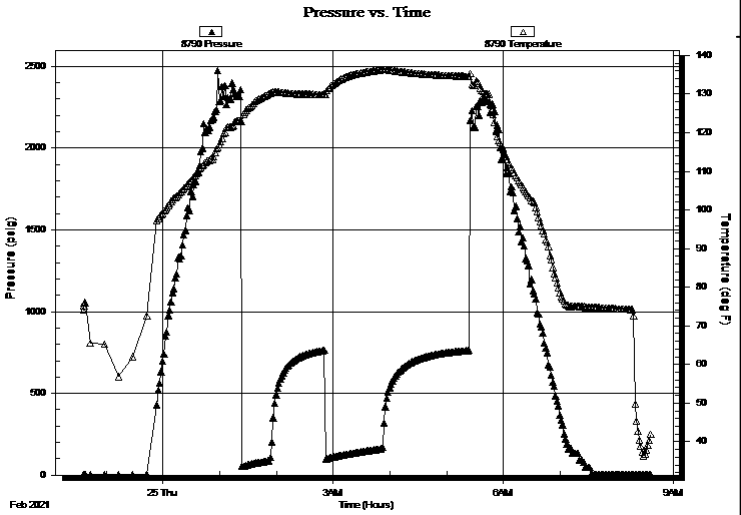
Reference Elevations: 3782.00 ft (KB)
3777.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8790 **Inside**

Press@RunDepth: psig @ 4975.00 ft (KB)
Start Date: 2021.02.24 End Date: 2021.02.25
Start Time: 22:36:13 End Time: 08:35:38

Capacity: 8000.00 psig
Last Calib.: 2021.02.25
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB in 3 min. 66"
IS: 1/4 blow built to 2 1/2"
FF: BOB in 14 min. 36"
FS: Surface blow built to 3 3/4"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
63.00	mcw 90%w 10%m	0.88
126.00	gocw m 15%g 5%o 20%w 60%m	1.77
126.00	gocm 10%g 10%o 80%m	1.77
0.00	1197 GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corp

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

4-15s-41w Wallace,Ks

Schemm 1-4

Job Ticket: 66797 **DST#: 1**

Test Start: 2021.02.24 @ 22:36:36

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:	26000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7.20 ppm				
Filter Cake:	1.00 inches				

Recovery Information

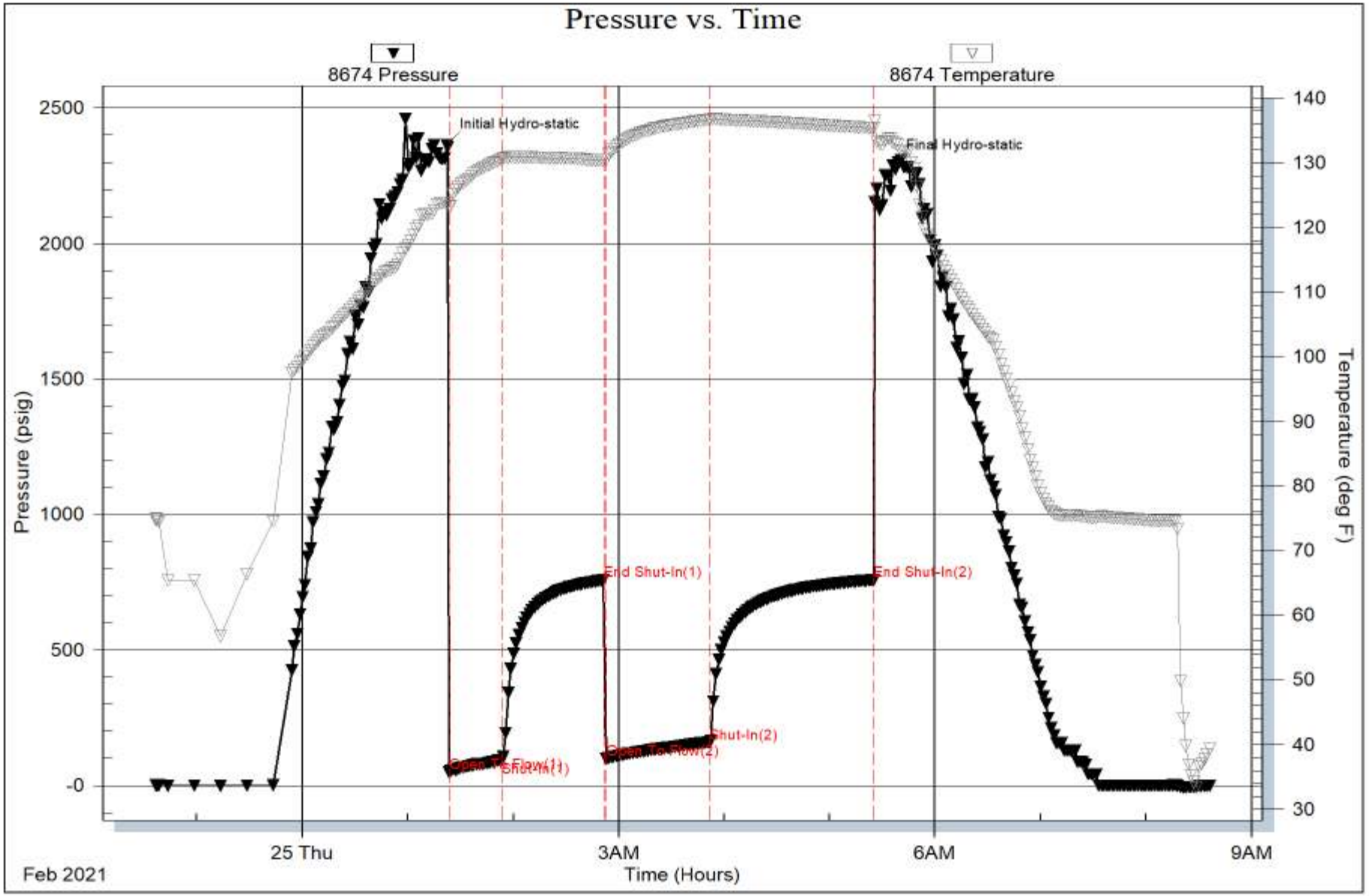
Recovery Table

Length ft	Description	Volume bbl
63.00	mcw 90%w 10%m	0.884
126.00	gocw m 15%g 5%o 20%w 60%m	1.767
126.00	gocm 10%g 10%o 80%m	1.767
0.00	1197 GIP	0.000

Total Length: 315.00 ft Total Volume: 4.418 bbl

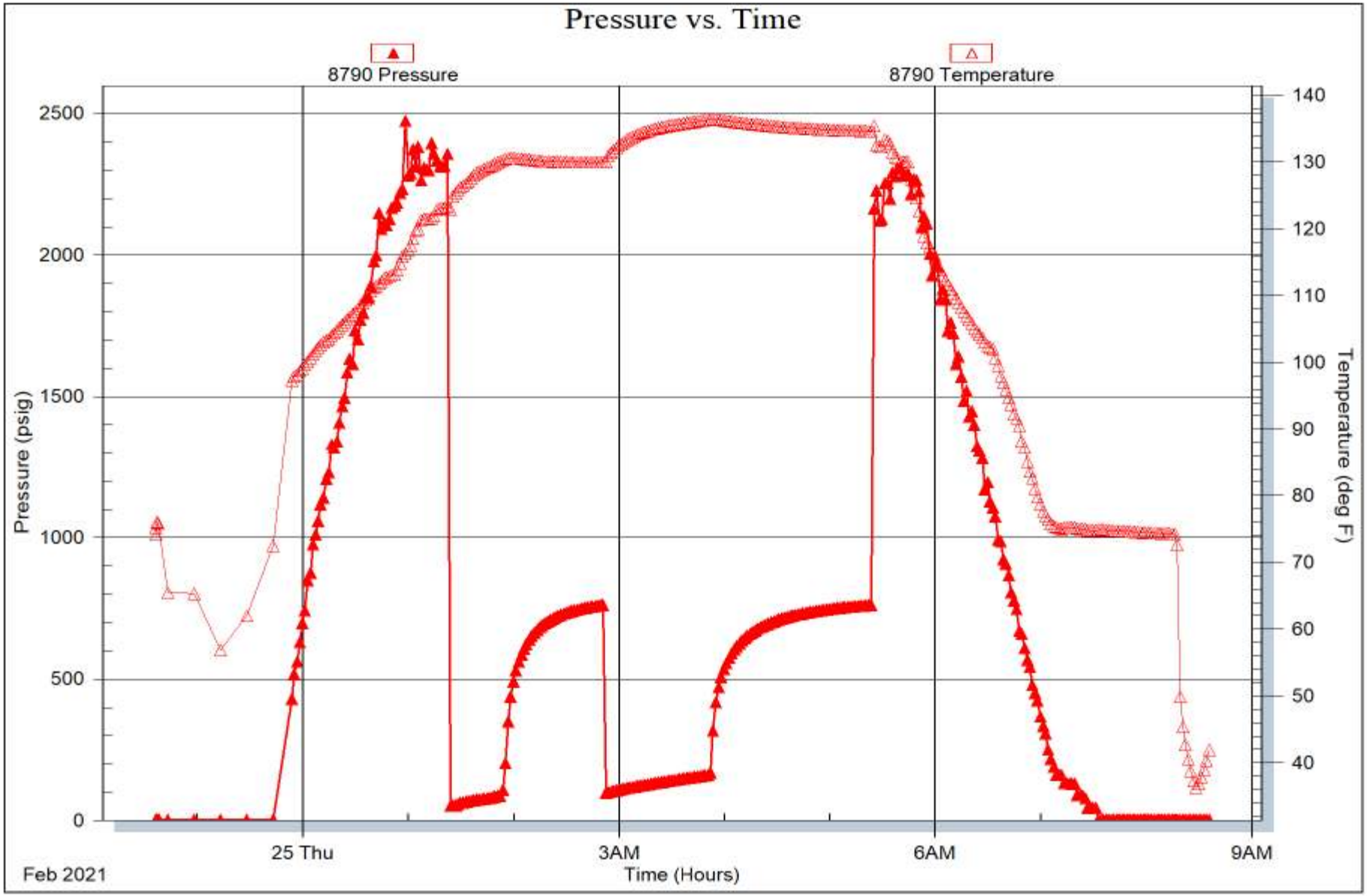
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .60@32=26000

Serial #: 8674 **Outside** Stelbar Oil Corp Schemm 1-4 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66797 Printed: 2021.02.25 @ 11:40:00

Serial #: 8790 **Inside** Stelbar Oil Corp Schemm 1-4 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66797 Printed: 2021.02.25 @ 11:40:00

DRILL STEM TEST REPORT

Stelbar Oil Corp

1625 N Waterfront pkwy Ste 200
Wichita, Ks 67206

ATTN: Dave Goldak

4-15s-41w Wallace, Ks

Schemm 1-4

Job Ticket: 66798 **DST#: 2**

Test Start: 2021.02.25 @ 21:02:48

GENERAL INFORMATION:

Formation: **Morrow Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:55:48
Time Test Ended: 06:51:48

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 4975.00 ft (KB) To 5023.00 ft (KB) (TVD)
Total Depth: 5023.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

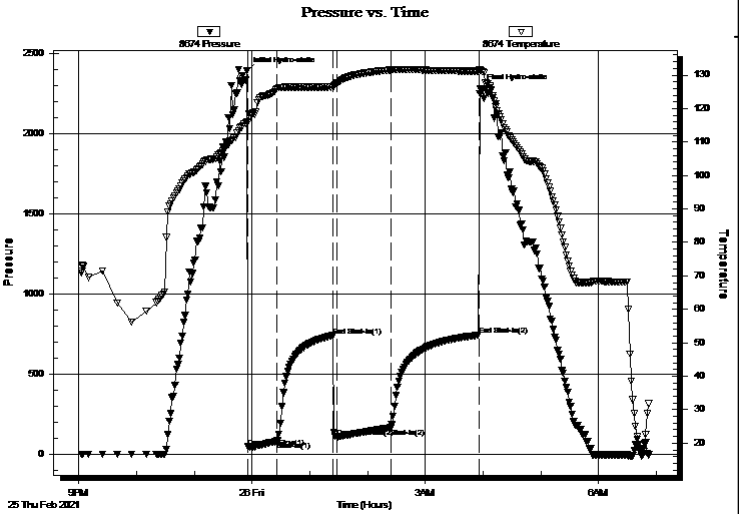
Reference Elevations: 3782.00 ft (KB)
3777.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8674 **Outside**

Press@RunDepth: 167.39 psig @ 4976.00 ft (KB)
Start Date: 2021.02.25 End Date: 2021.02.26
Start Time: 21:02:53 End Time: 06:51:48

Capacity: 8000.00 psig
Last Calib.: 2021.02.26
Time On Btm: 2021.02.25 @ 23:54:18
Time Off Btm: 2021.02.26 @ 03:56:48

TEST COMMENT: IF: BOB in 9 min. 25"
IS: Surface blow built to 2 1/2.
FF: BOB in 23 min. 19 3/4
FS: Surface blow built to 2 1/2. 30-60-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2388.91	115.93	Initial Hydro-static
2	49.54	116.05	Open To Flow (1)
32	83.38	125.96	Shut-In(1)
90	742.38	126.54	End Shut-In(1)
94	112.03	127.57	Open To Flow (2)
150	167.39	131.54	Shut-In(2)
241	744.28	131.12	End Shut-In(2)
243	2278.99	131.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 90%w 10%m	2.65
63.00	gocm 20%g 5%o 75%m	0.88
83.00	gocm 5%g 10%o 85%m	1.16
0.00	484 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Stelbar Oil Corp

1625 N Waterfront pkwy Ste 200
Wichita, Ks 67206

ATTN: Dave Goldak

4-15s-41w Wallace, Ks

Schemm 1-4

Job Ticket: 66798 **DST#: 2**

Test Start: 2021.02.25 @ 21:02:48

GENERAL INFORMATION:

Formation: **Morrow Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:55:48
Time Test Ended: 06:51:48

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 4975.00 ft (KB) To 5023.00 ft (KB) (TVD)
Total Depth: 5023.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

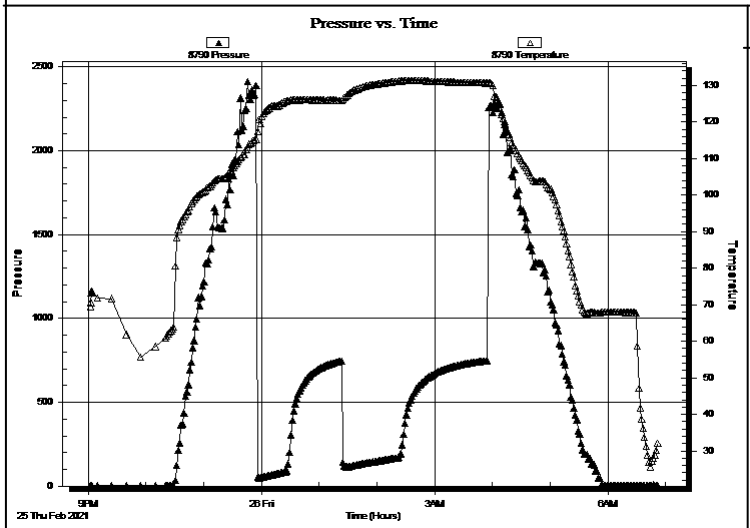
Reference Elevations: 3782.00 ft (KB)
3777.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8790 **Inside**

Press@RunDepth: psig @ 4976.00 ft (KB)
Start Date: 2021.02.25 End Date: 2021.02.26
Start Time: 21:02:43 End Time: 06:51:38

Capacity: 8000.00 psig
Last Calib.: 2021.02.26
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB in 9 min. 25"
IS: Surface blow built to 2 1/2.
FF: BOB in 23 min. 19 3/4
FS: Surface blow built to 2 1/2. 30-60-60-90



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 90%w 10%m	2.65
63.00	gocm 20%g 5%o 75%m	0.88
83.00	gocm 5%g 10%o 85%m	1.16
0.00	484 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corp

1625 N Waterfront pkwy Ste 200
Wichita, Ks 67206

ATTN: Dave Goldak

4-15s-41w Wallace, Ks

Schemm 1-4

Job Ticket: 66798 **DST#: 2**

Test Start: 2021.02.25 @ 21:02:48

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:	19000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	mcw 90%w 10%m	2.651
63.00	gocm 20%g 5%o 75%m	0.884
83.00	gocm 5%g 10%o 85%m	1.164
0.00	484 GIP	0.000

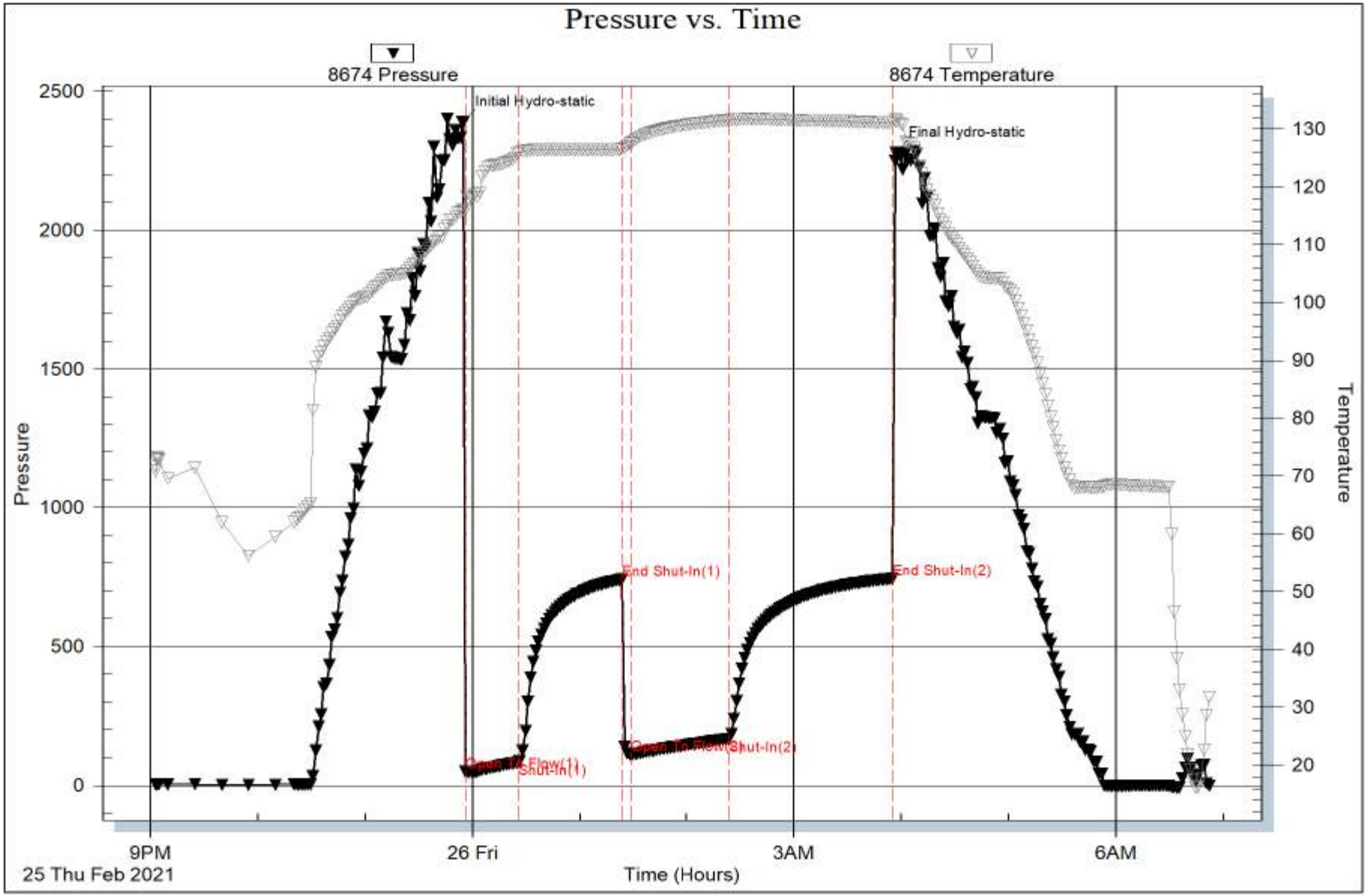
Total Length: 335.00 ft Total Volume: 4.699 bbl

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

Laboratory Name: Laboratory Location:

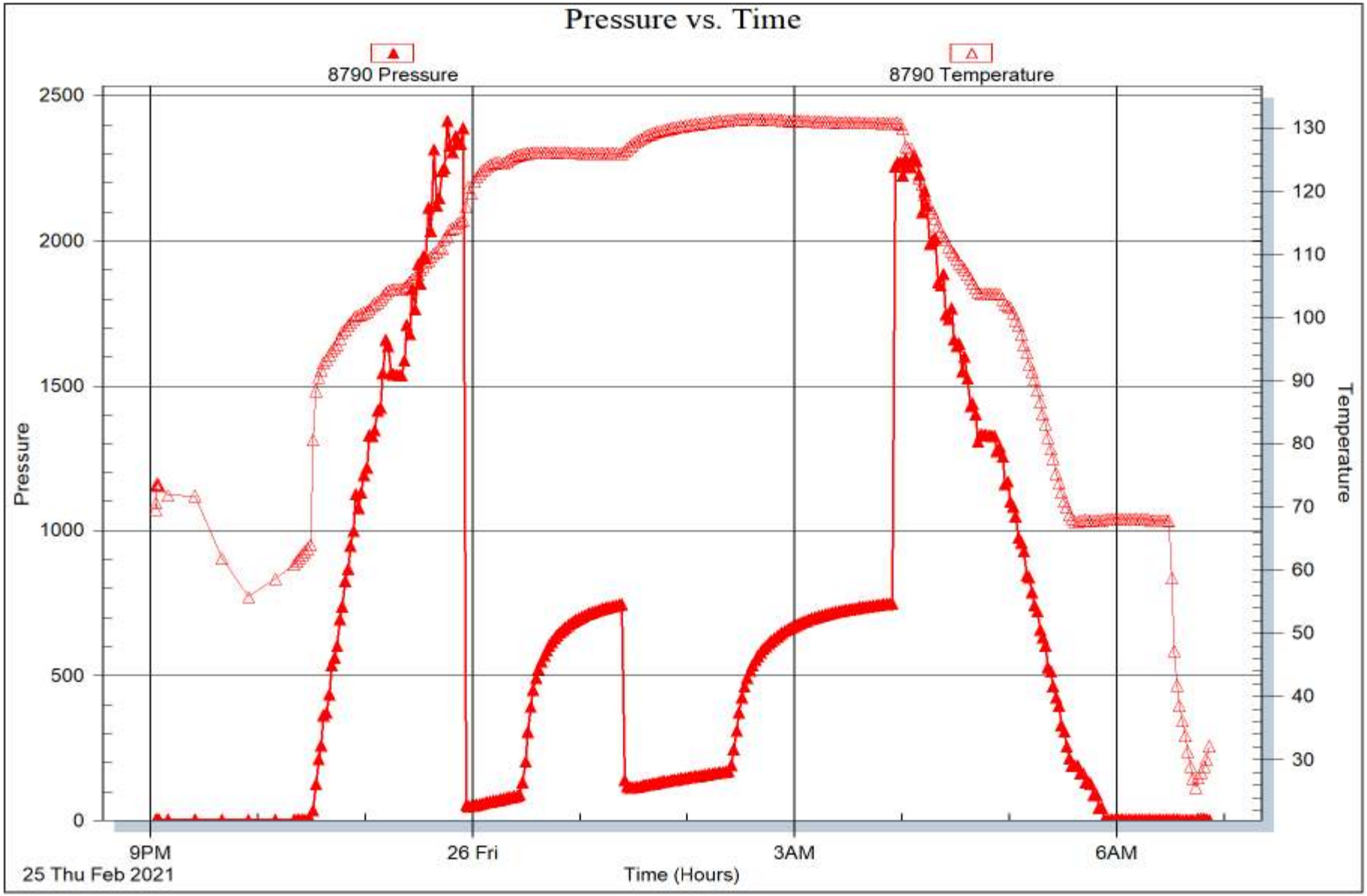
Recovery Comments: .43@60=19000

Serial #: 8674 **Outside** Stelbar Oil Corp Schemm 1-4 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 66798 Printed: 2021.02.26 @ 07:31:50

Serial #: 8790 **Inside** Stelbar Oil Corp Schemm 1-4 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 66798 Printed: 2021.02.26 @ 07:31:50

GEOLOGIC REPORT

DAVID J. GOLDAK

WICHITA, KANSAS

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

Well Name:	**Schemm #1-4**		
API:	**15-199-20452-0000**		
Location:	**Section 4 - T15S - R41W**		
License Number:		**Region:**	**Wallace Co., KS**
Spud Date:	**02 / 02 / 2021**	**Drilling Completed:**	**02 / 27 / 2021**
Surface Coordinates:	**884' FSL and 1445' FEL**		
	SE - NE - SW - SE		
Bottom Hole Coordinates:			
Ground Elevation (ft):	**3777'**	**K.B. Elevation (ft):**	**3782'**
Logged Interval (ft):	**3800' To: 5240'**	**Total Depth (ft):**	**5240'**
Formation:	**Mississippian**		
Type of Drilling Fluid:	**Chemical - Mud-Co**		

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 Info

CONTRACTOR: LD Drilling, Rig #1

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	Varel-?-RR	3-15s	511'	511'	8.00
2	7-7/8	Varel-BD52C	14-15-16	4606'	4095'	121.75
3	7-7/8	HTC-GX20 RR	15-15-16	5005'	399'	21.50
4	7-7/8	Varel-HE29 RR	14-15-15	5240'	235'	11.25

SURVEYS: 511'-0.75, 5005'-1.00, 5240'-1.50

GENERAL DRILLING & PUMP INFORMATION:
Collars: 16 joints (6.25"x2.25"): 495.27
Drilling: 37,000-38,000 lbs on bit and 60-70 RPM.
Pumping: 52 S/M; 7.2 B/M; 700-900 psi at standpipe

Daily Status

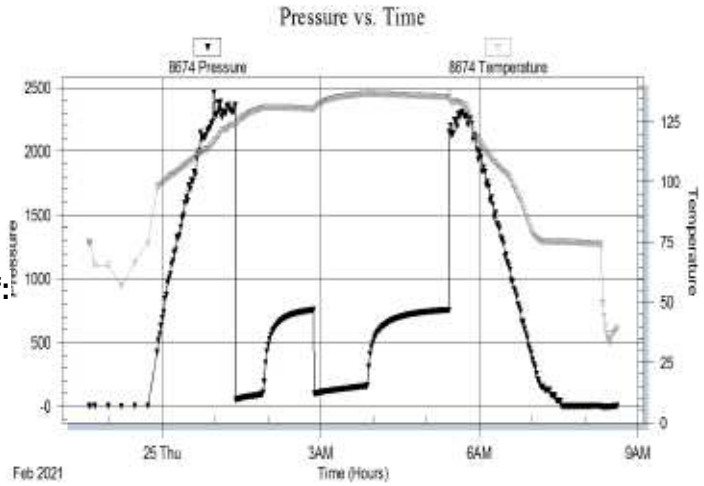
02/02/21 - Spud at 5:45 PM
02/03/21 - 511' Running Surf Csg; Set 8-5/8" Csg @ 507'
Plug down @ 11:00 AM; DP @ 8:00 PM
02/04/21 - 898' Drilling
02/05/21 - 2,100' Drilling
02/06/21 - 3,100' Drilling; Displace mud @ 3,496'
02/07/21 - 3,605' Drilling
02/08/21 - 4,130' Drilling
02/09/21 - 4,442' Drilling; TOH @ 4,606' due to bit; Will shut down for extreme cold weather
02/10/21 - 4,606' Shutting down
02/11/21-02/21/21 - 4,606' On the bank
02/22/21 - 4,606' Starting up rig; Install BOP; TIH
02/23/21 - 4,640' Drilling; CTCH @ 4,644' and Displace
02/24/21 - 4,885' Drilling
02/25/21 - 5,005' TOH with DST #1; DST #2 @ 5,023'
02/26/21 - 5,023' Prep to TIH following DST #2
02/27/21 - 5,240' Logging; Plug well

DST #1: 4,974' - 5,005' (Morrow Sandstone)
30" - 60" - 60" - 90"

IF: Blow building to BOB in 3 minutes
ISI: Return blow building to 2.5 inches
FF: Blow building to BOB in 14 minutes
FSI: Return blow building to 3.75 inches

RECOVERY: 1,197' GIP and 315' Total Fluid, consisting of:
126' GOCM (10% G, 10% O & 80% M)
126' GOCWM (15% G, 5% O, 20% W & 60% M)
63' MCW (90% W & 10% M); Chlorides: 26,000 ppm
Sampler: 2000 ml Water @ 75 psi

SIP: 757-757; FP: 50-94, 99-159; HP: 2363-2289; BHT: 135

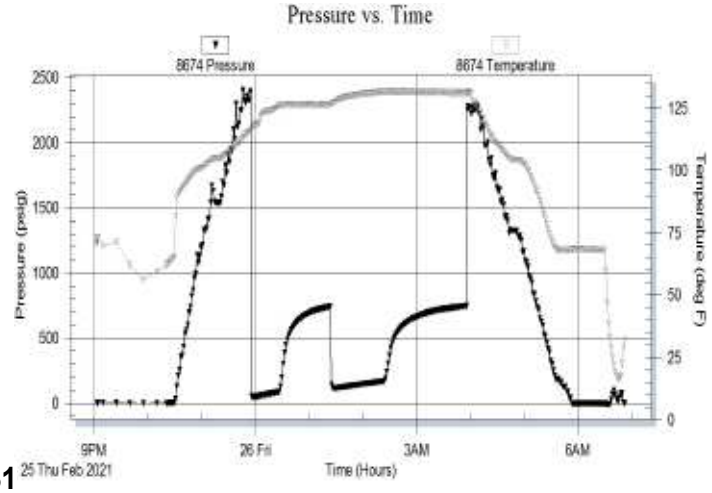


DST #2: 4,975' - 5,023' (Morrow Sandstone)
30" - 60" - 60" - 90"

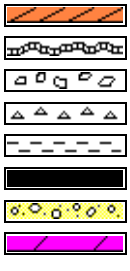
IF: Blow building to BOB in 9 minutes
ISI: Return blow building to 2.5 inches
FF: Blow building to BOB in 23 minutes
FSI: Return blow building to 2.5 inches

RECOVERY: 484' GIP and 335' Total Fluid, consisting of:
83' GOCM (5% G, 10% O & 85% M)
63' GOCM (20% G, 5% O & 75% M)
189' MCW (90% W & 10% M); Chlorides: 19,000 ppm

SIP: 742-744; FP: 50-83, 112-167; HP: 2389-2279; BHT: 131



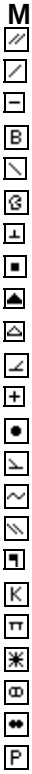
ROCK TYPES



Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol
Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Till
Carb sh
Dol
Dtd
Gry sh
Sandylms
Shale
Sltstn
Shlyslts
Sltysh
Lms

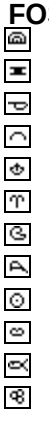
ACCESSORIES

MINERAL



Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau
Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Salt
Sandy
Silt
Sil
Sulphur
Tuff
Chlorite
Dol
Sand
Slty

FOSSIL

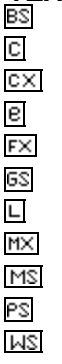


Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom
Fuss
Oomold

STRINGER

Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg
Carbsh
Clystn
Dol
Grysh
Gryslt
Lms
Sandylms
Sh
Sltstn

TEXTURE



Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

OTHER SYMBOLS

POROSITY TYPE

Earthy
Fenest
Fracture
Inter
Moldic
Organic
Pinpoint
Vuggy

SORTING

Well
Moderate
Poor

ROUNDING

Rounded
Subrnd
Subang
Angular

OIL SHOWS

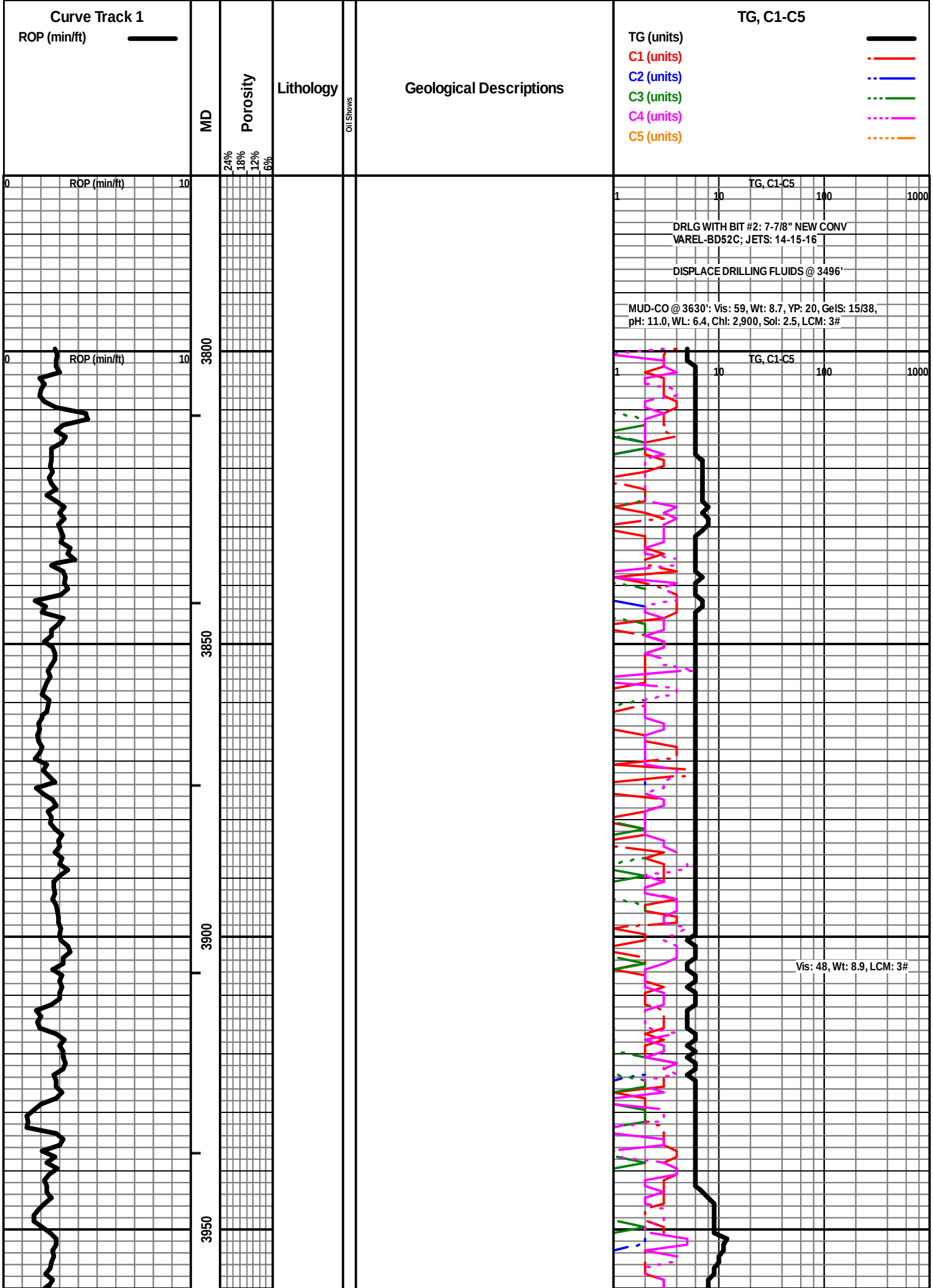
Even
Spotted
Ques
Dead
Gas show

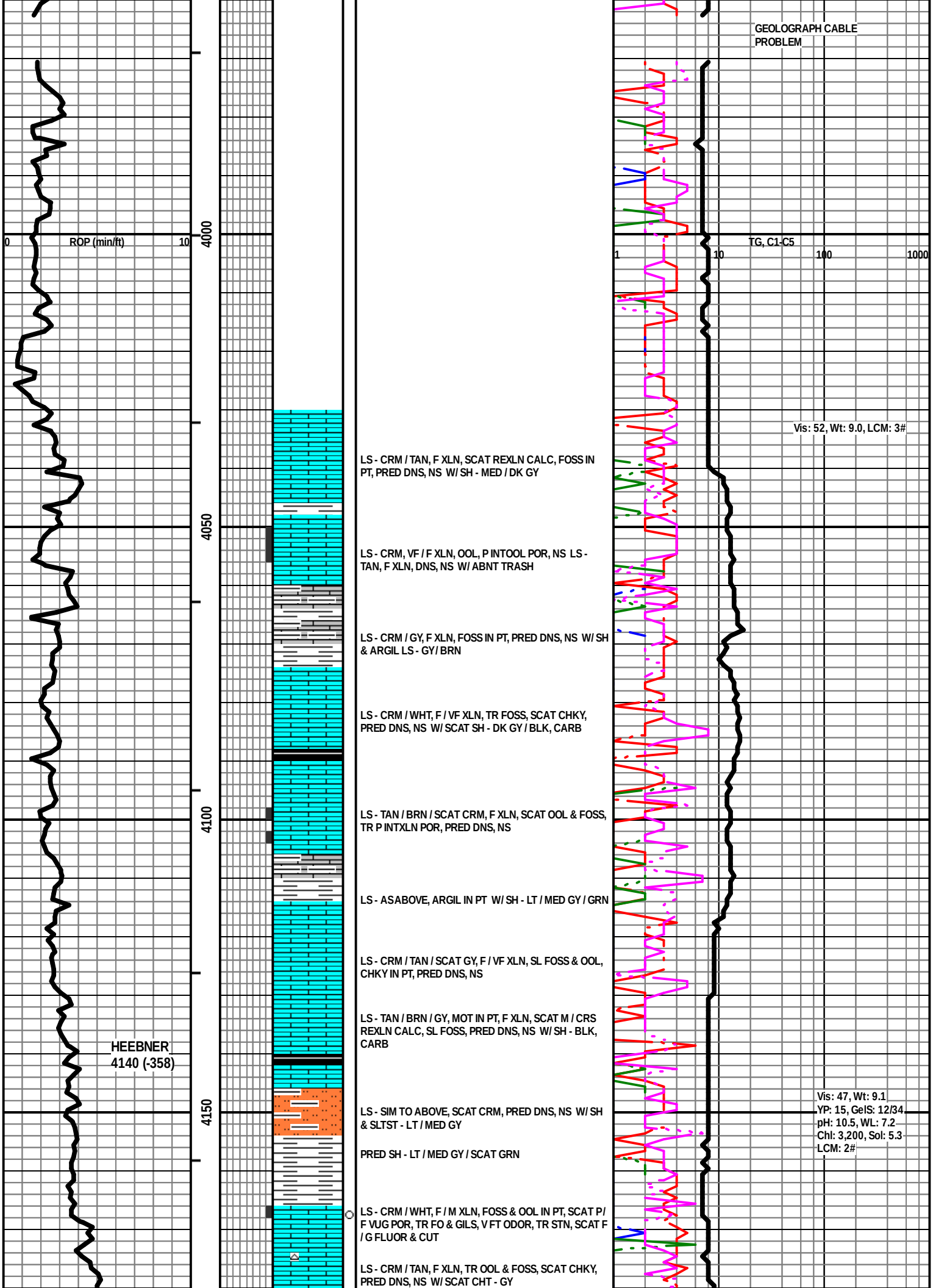
INTERVALS

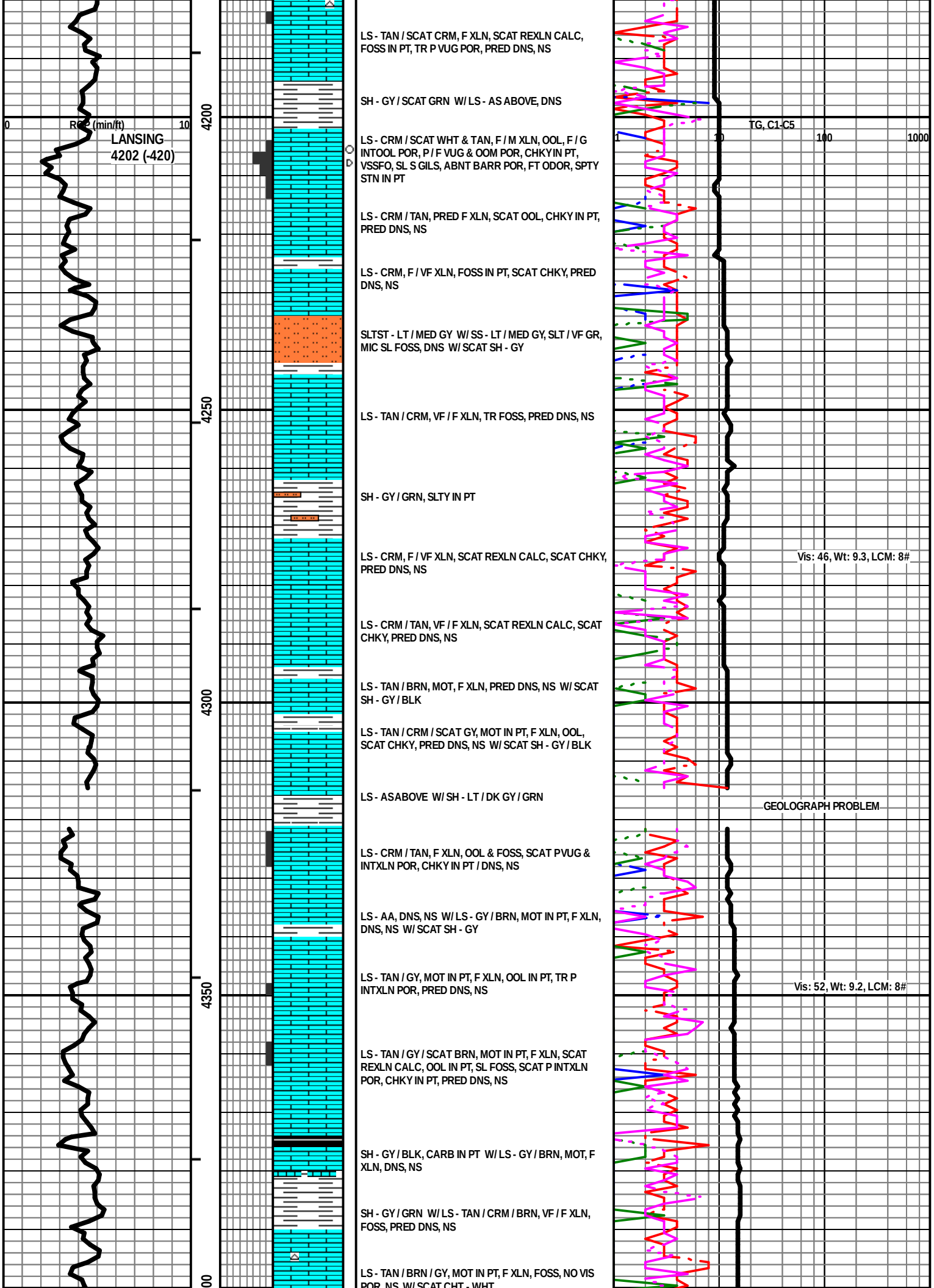
Core
Dst
Dst_1_t
Dst_1_b
Dst

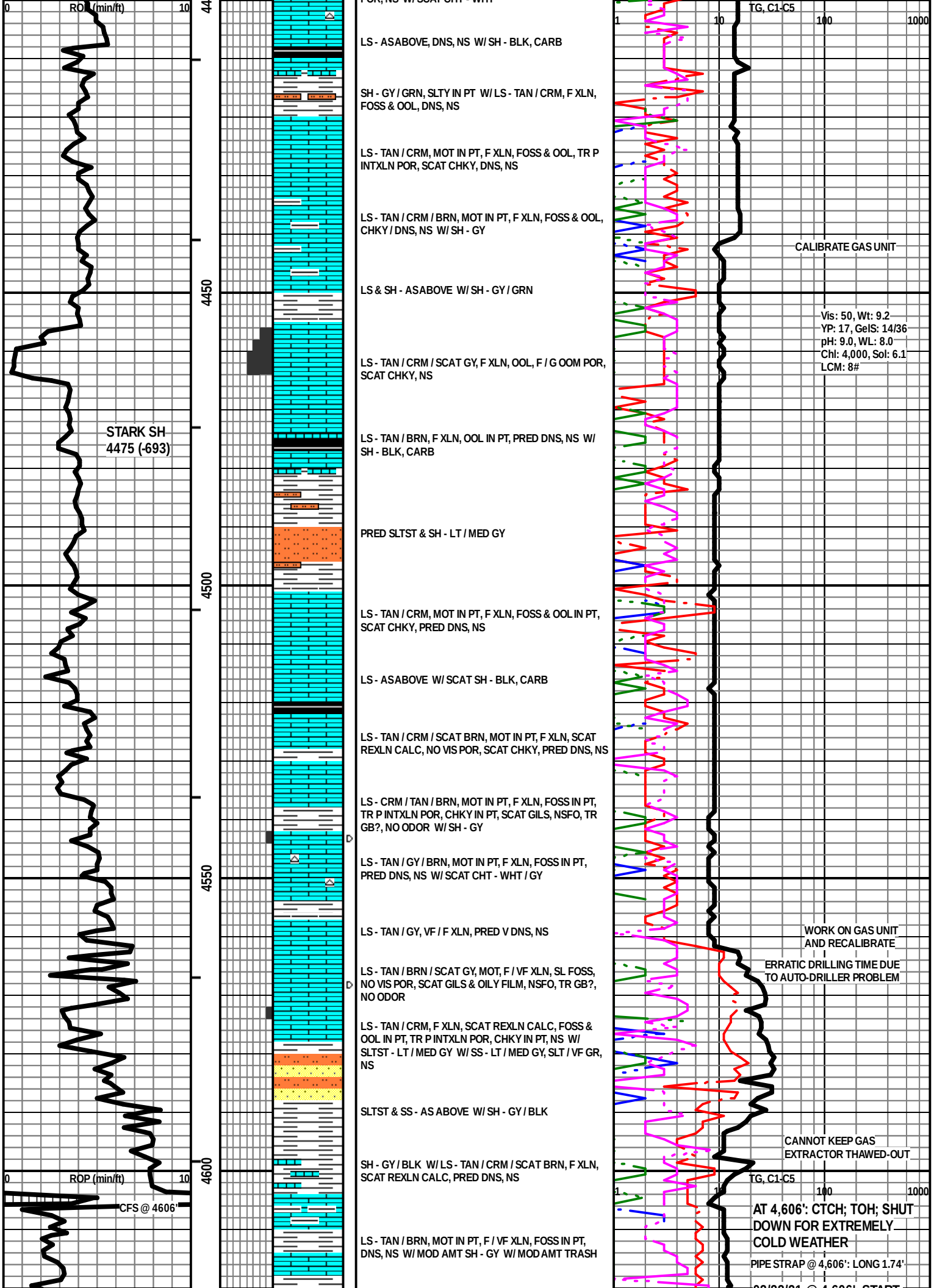
EVENTS

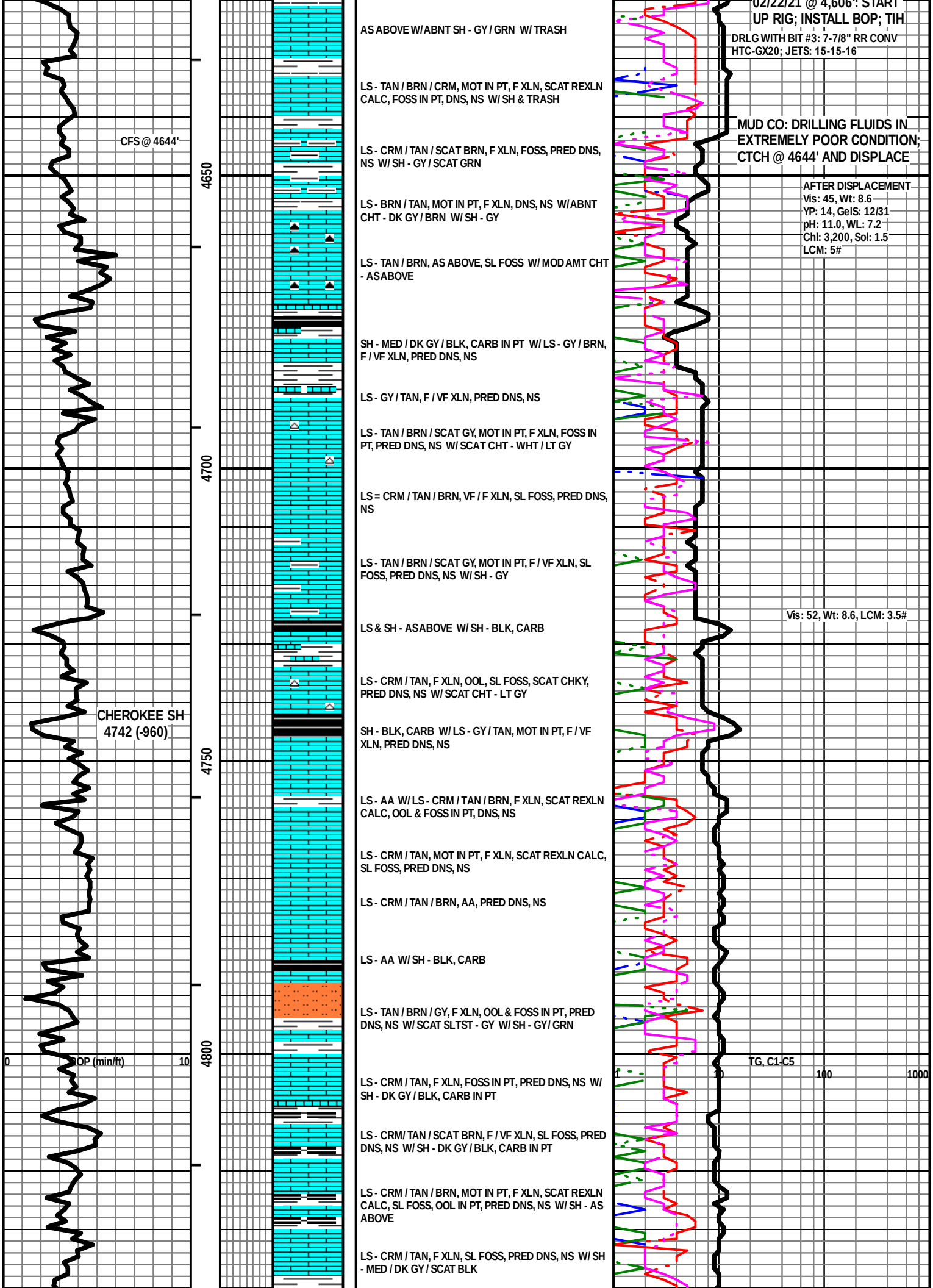
Rft
Sidewall
Conn

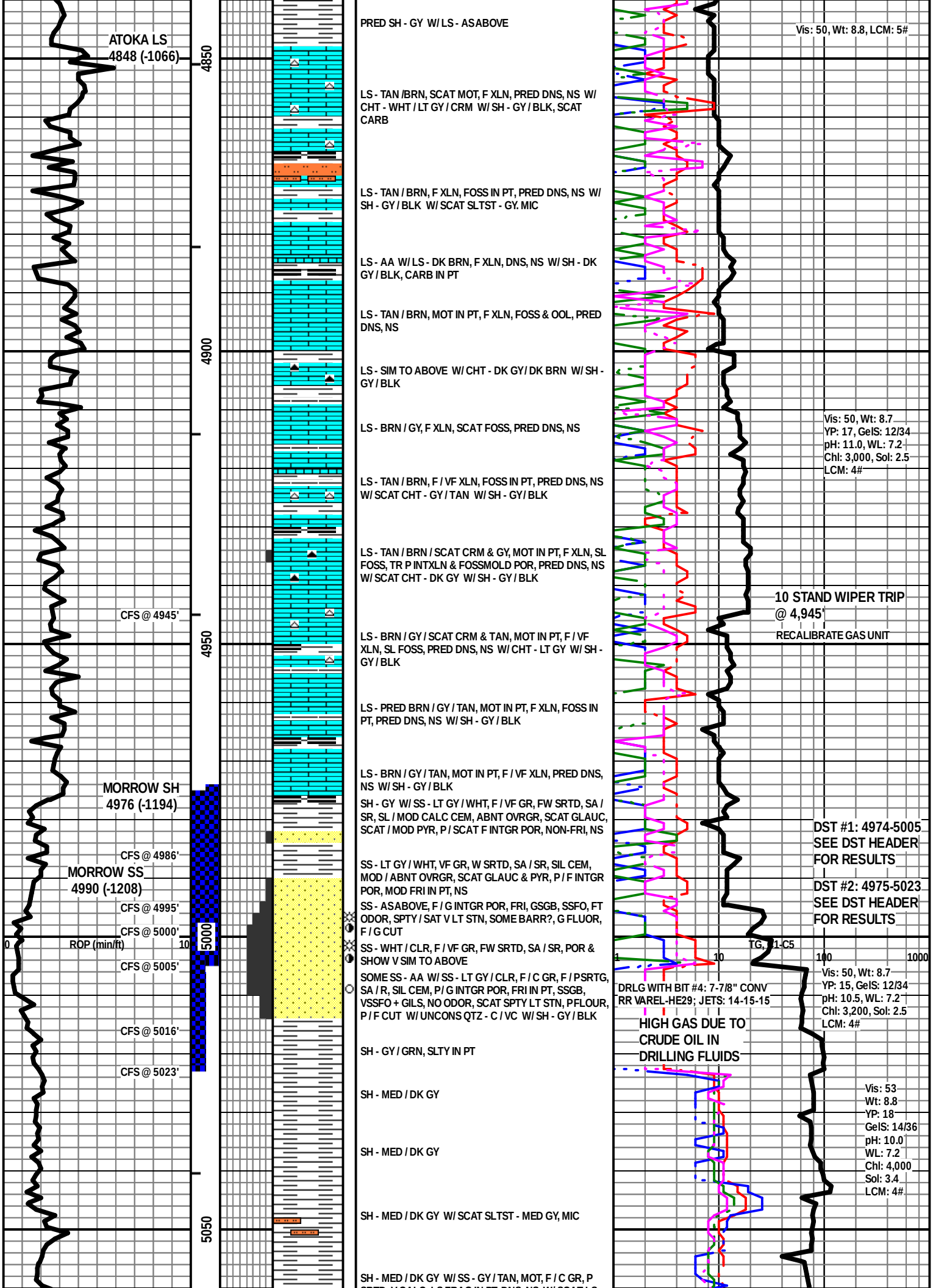

Curve Track 1
ROP (min/ft)
MD
Porosity
24%
18%
12%
6%
Lithology
Oil Shows
Geological Descriptions
TG, C1-C5
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
0
ROP (min/ft)
10
3800
3850
3900
3950
1
10
100
1000
DRLG WITH BIT #2: 7-7/8" NEW CONV
VAREL-BD52C; JETS: 14-15-16
DISPLACE DRILLING FLUIDS @ 3496'
MUD-CO @ 3630': Vis: 59, Wt: 8.7, YP: 20, GelS: 15/38,
pH: 11.0, WL: 6.4, Chl: 2,900, Sol: 2.5, LCM: 3#
Vis: 48, Wt: 8.9, LCM: 3#

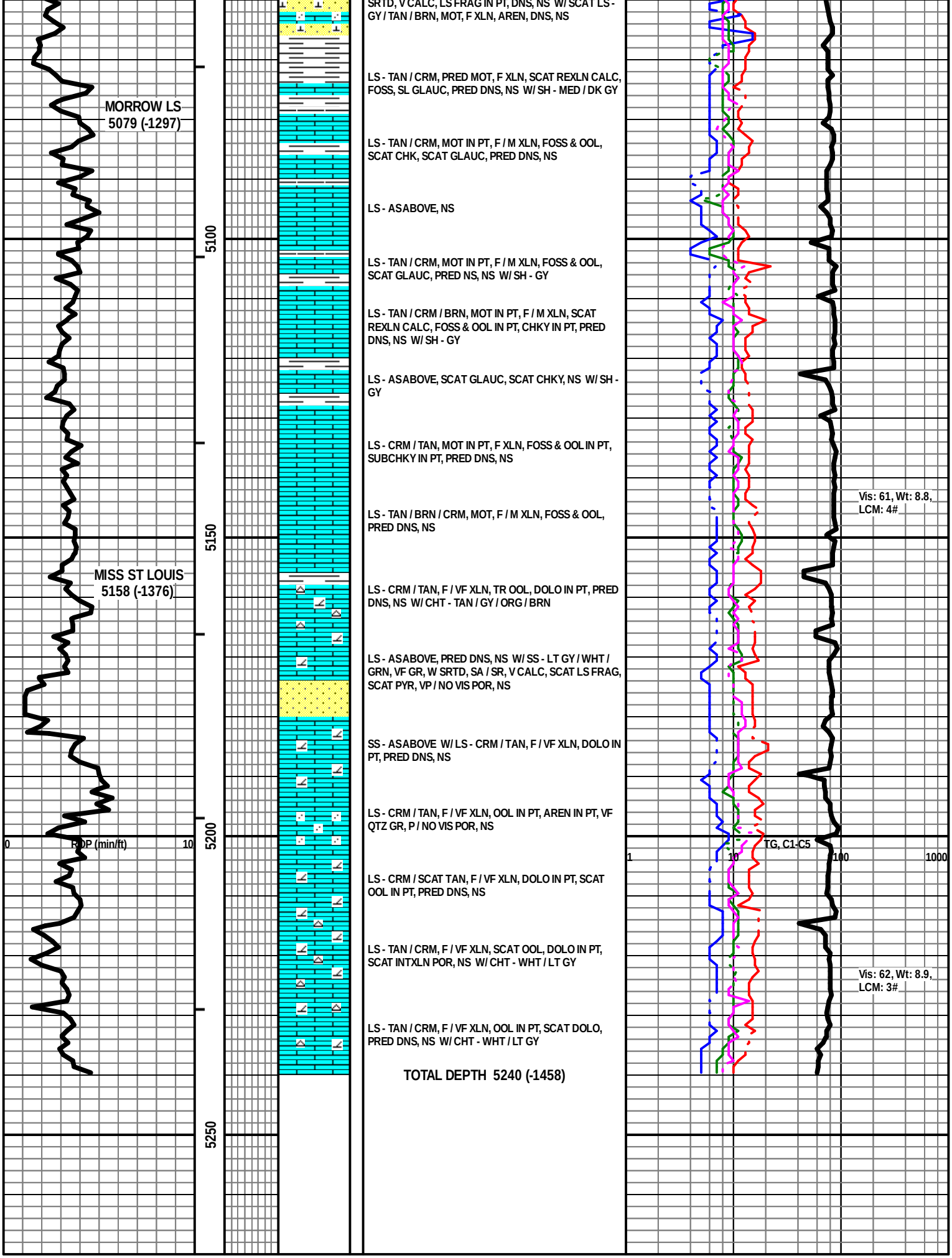

GEOLOGRAPH CABLE PROBLEM
0
ROP (min/ft)
10
4000
4050
4100
4150
1
10
100
1000
TG, C1-C5
Vis: 52, Wt: 9.0, LCM: 3#
LS - CRM / TAN, F XLN, SCAT REXLN CALC, FOSS IN PT, PRED DNS, NS W/ SH - MED / DK GY
LS - CRM, VF / F XLN, OOL, P INTOOL POR, NS LS - TAN, F XLN, DNS, NS W/ ABNT TRASH
LS - CRM / GY, F XLN, FOSS IN PT, PRED DNS, NS W/ SH & ARGIL LS - GY / BRN
LS - CRM / WHT, F / VF XLN, TR FOSS, SCAT CHKY, PRED DNS, NS W/ SCAT SH - DK GY / BLK, CARB
LS - TAN / BRN / SCAT CRM, F XLN, SCAT OOL & FOSS, TR P INTXLN POR, PRED DNS, NS
LS - ASABOVE, ARGIL IN PT W/ SH - LT / MED GY / GRN
LS - CRM / TAN / SCAT GY, F / VF XLN, SL FOSS & OOL, CHKY IN PT, PRED DNS, NS
LS - TAN / BRN / GY, MOT IN PT, F XLN, SCAT M / CRS REXLN CALC, SL FOSS, PRED DNS, NS W/ SH - BLK, CARB
HEEBNER
4140 (-358)
LS - SIM TO ABOVE, SCAT CRM, PRED DNS, NS W/ SH & SLTST - LT / MED GY
PRED SH - LT / MED GY / SCAT GRN
Vis: 47, Wt: 9.1
YP: 15, GelS: 12/34
pH: 10.5, WL: 7.2
Chl: 3,200, Sol: 5.3
LCM: 2#
LS - CRM / WHT, F / M XLN, FOSS & OOL IN PT, SCAT P/ F VUG POR, TR FO & GILS, V FT ODOR, TR STN, SCAT F / G FLUOR & CUT
LS - CRM / TAN, F XLN, TR OOL & FOSS, SCAT CHKY, PRED DNS, NS W/ SCAT CHT - GY


0
ROP (min/ft)
10
LANSING
4202 (-420)
4200
4250
4300
4350
00
LS - TAN / SCAT CRM, F XLN, SCAT REXLN CALC, FOSS IN PT, TR P VUG POR, PRED DNS, NS
SH - GY / SCAT GRN W/ LS - AS ABOVE, DNS
LS - CRM / SCAT WHT & TAN, F / M XLN, OOL, F / G INTOOL POR, P / F VUG & OOM POR, CHKY IN PT, VSSFO, SL S GILS, ABNT BARR POR, FT ODOR, SPTY STN IN PT
LS - CRM / TAN, PRED F XLN, SCAT OOL, CHKY IN PT, PRED DNS, NS
LS - CRM, F / VF XLN, FOSS IN PT, SCAT CHKY, PRED DNS, NS
SLTST - LT / MED GY W/ SS - LT / MED GY, SLT / VF GR, MIC SL FOSS, DNS W/ SCAT SH - GY
LS - TAN / CRM, VF / F XLN, TR FOSS, PRED DNS, NS
SH - GY / GRN, SLTY IN PT
LS - CRM, F / VF XLN, SCAT REXLN CALC, SCAT CHKY, PRED DNS, NS
LS - CRM / TAN, VF / F XLN, SCAT REXLN CALC, SCAT CHKY, PRED DNS, NS
LS - TAN / BRN, MOT, F XLN, PRED DNS, NS W/ SCAT SH - GY / BLK
LS - TAN / CRM / SCAT GY, MOT IN PT, F XLN, OOL, SCAT CHKY, PRED DNS, NS W/ SCAT SH - GY / BLK
LS - ASABOVE W/ SH - LT / DK GY / GRN
LS - CRM / TAN, F XLN, OOL & FOSS, SCAT PVUG & INTXLN POR, CHKY IN PT / DNS, NS
LS - AA, DNS, NS W/ LS - GY / BRN, MOT IN PT, F XLN, DNS, NS W/ SCAT SH - GY
LS - TAN / GY, MOT IN PT, F XLN, OOL IN PT, TR P INTXLN POR, PRED DNS, NS
LS - TAN / GY / SCAT BRN, MOT IN PT, F XLN, SCAT REXLN CALC, OOL IN PT, SL FOSS, SCAT P INTXLN POR, CHKY IN PT, PRED DNS, NS
SH - GY / BLK, CARB IN PT W/ LS - GY / BRN, MOT, F XLN, DNS, NS
SH - GY / GRN W/ LS - TAN / CRM / BRN, VF / F XLN, FOSS, PRED DNS, NS
LS - TAN / BRN / GY, MOT IN PT, F XLN, FOSS, NO VIS POR, NS W/ SCAT CHT - WHT
TG, C1-C5
1
10
100
1000
Vis: 46, Wt: 9.3, LCM: 8#
GEOLOGRAPH PROBLEM
Vis: 52, Wt: 9.2, LCM: 8#


0
ROP (min/ft)
10
4450
4500
4550
4600
STARK SH
4475 (-693)
0
ROP (min/ft)
10
CFS @ 4606'
LS - ASABOVE, DNS, NS W/ SH - BLK, CARB
SH - GY / GRN, SLTY IN PT W/ LS - TAN / CRM, F XLN, FOSS & OOL, DNS, NS
LS - TAN / CRM, MOT IN PT, F XLN, FOSS & OOL, TR P INTXLN POR, SCAT CHKY, DNS, NS
LS - TAN / CRM / BRN, MOT IN PT, F XLN, FOSS & OOL, CHKY / DNS, NS W/ SH - GY
LS & SH - ASABOVE W/ SH - GY / GRN
LS - TAN / CRM / SCAT GY, F XLN, OOL, F / G OOM POR, SCAT CHKY, NS
LS - TAN / BRN, F XLN, OOL IN PT, PRED DNS, NS W/ SH - BLK, CARB
PRED SLTST & SH - LT / MED GY
LS - TAN / CRM, MOT IN PT, F XLN, FOSS & OOL IN PT, SCAT CHKY, PRED DNS, NS
LS - ASABOVE W/ SCAT SH - BLK, CARB
LS - TAN / CRM / SCAT BRN, MOT IN PT, F XLN, SCAT REXLN CALC, NO VIS POR, SCAT CHKY, PRED DNS, NS
LS - CRM / TAN / BRN, MOT IN PT, F XLN, FOSS IN PT, TR P INTXLN POR, CHKY IN PT, SCAT GILS, NSFO, TR GB?, NO ODOR W/ SH - GY
LS - TAN / GY / BRN, MOT IN PT, F XLN, FOSS IN PT, PRED DNS, NS W/ SCAT CHT - WHT / GY
LS - TAN / GY, VF / F XLN, PRED V DNS, NS
LS - TAN / BRN / SCAT GY, MOT, F / VF XLN, SL FOSS, NO VIS POR, SCAT GILS & OILY FILM, NSFO, TR GB?, NO ODOR
LS - TAN / CRM, F XLN, SCAT REXLN CALC, FOSS & OOL IN PT, TR P INTXLN POR, CHKY IN PT, NS W/ SLTST - LT / MED GY W/ SS - LT / MED GY, SLT / VF GR, NS
SLTST & SS - AS ABOVE W/ SH - GY / BLK
SH - GY / BLK W/ LS - TAN / CRM / SCAT BRN, F XLN, SCAT REXLN CALC, PRED DNS, NS
LS - TAN / BRN, MOT IN PT, F / VF XLN, FOSS IN PT, DNS, NS W/ MOD AMT SH - GY W/ MOD AMT TRASH
TG, C1-C5
1
10
100
1000
CALIBRATE GAS UNIT
Vis: 50, Wt: 9.2
YP: 17, GelS: 14/36
pH: 9.0, WL: 8.0
Chl: 4,000, Sol: 6.1
LCM: 8#
WORK ON GAS UNIT AND RECALIBRATE
ERRATIC DRILLING TIME DUE TO AUTO-DRILLER PROBLEM
CANNOT KEEP GAS EXTRACTOR THAWED-OUT
TG, C1-C5
1
10
100
1000
AT 4,606': CTCH; TOH; SHUT DOWN FOR EXTREMELY COLD WEATHER
PIPE STRAP @ 4,606': LONG 1.74'


02/22/21 @ 4,606': START UP RIG; INSTALL BOP; TIH
DRLG WITH BIT #3: 7-7/8" RR CONV HTC-GX20; JETS: 15-15-16
MUD CO: DRILLING FLUIDS IN EXTREMELY POOR CONDITION; CTCH @ 4644' AND DISPLACE
AFTER DISPLACEMENT
Vis: 45, Wt: 8.6
YP: 14, GelS: 12/31
pH: 11.0, WL: 7.2
Chl: 3,200, Sol: 1.5
LCM: 5#
Vis: 52, Wt: 8.6, LCM: 3.5#
CFS @ 4644'
CHEROKEE SH
4742 (-960)
4650
4700
4750
4800
AS ABOVE W/ ABNT SH - GY / GRN W/ TRASH
LS - TAN / BRN / CRM, MOT IN PT, F XLN, SCAT REXLN CALC, FOSS IN PT, DNS, NS W/ SH & TRASH
LS - CRM / TAN / SCAT BRN, F XLN, FOSS, PRED DNS, NS W/ SH - GY / SCAT GRN
LS - BRN / TAN, MOT IN PT, F XLN, DNS, NS W/ ABNT CHT - DK GY / BRN W/ SH - GY
LS - TAN / BRN, AS ABOVE, SL FOSS W/ MOD AMT CHT - ASABOVE
SH - MED / DK GY / BLK, CARB IN PT W/ LS - GY / BRN, F / VF XLN, PRED DNS, NS
LS - GY / TAN, F / VF XLN, PRED DNS, NS
LS - TAN / BRN / SCAT GY, MOT IN PT, F XLN, FOSS IN PT, PRED DNS, NS W/ SCAT CHT - WHT / LT GY
LS = CRM / TAN / BRN, VF / F XLN, SL FOSS, PRED DNS, NS
LS - TAN / BRN / SCAT GY, MOT IN PT, F / VF XLN, SL FOSS, PRED DNS, NS W/ SH - GY
LS & SH - ASABOVE W/ SH - BLK, CARB
LS - CRM / TAN, F XLN, OOL, SL FOSS, SCAT CHKY, PRED DNS, NS W/ SCAT CHT - LT GY
SH - BLK, CARB W/ LS - GY / TAN, MOT IN PT, F / VF XLN, PRED DNS, NS
LS - AA W/ LS - CRM / TAN / BRN, F XLN, SCAT REXLN CALC, OOL & FOSS IN PT, DNS, NS
LS - CRM / TAN, MOT IN PT, F XLN, SCAT REXLN CALC, SL FOSS, PRED DNS, NS
LS - CRM / TAN / BRN, AA, PRED DNS, NS
LS - AA W/ SH - BLK, CARB
LS - TAN / BRN / GY, F XLN, OOL & FOSS IN PT, PRED DNS, NS W/ SCAT SLTST - GY W/ SH - GY / GRN
LS - CRM / TAN, F XLN, FOSS IN PT, PRED DNS, NS W/ SH - DK GY / BLK, CARB IN PT
LS - CRM/ TAN / SCAT BRN, F / VF XLN, SL FOSS, PRED DNS, NS W/ SH - DK GY / BLK, CARB IN PT
LS - CRM / TAN / BRN, MOT IN PT, F XLN, SCAT REXLN CALC, SL FOSS, OOL IN PT, PRED DNS, NS W/ SH - AS ABOVE
LS - CRM / TAN, F XLN, SL FOSS, PRED DNS, NS W/ SH - MED / DK GY / SCAT BLK
0
ROP (min/ft)
10
1
10
100
1000
TG, C1-C5


ATOKA LS
4848 (-1066)
4850
4900
4950
5000
5050
CFS @ 4945'
MORROW SH
4976 (-1194)
CFS @ 4986'
MORROW SS
4990 (-1208)
CFS @ 4995'
CFS @ 5000'
0
ROP (min/ft)
10
CFS @ 5005'
CFS @ 5016'
CFS @ 5023'
PRED SH - GY W/ LS - AS ABOVE
LS - TAN /BRN, SCAT MOT, F XLN, PRED DNS, NS W/ CHT - WHT / LT GY / CRM W/ SH - GY / BLK, SCAT CARB
LS - TAN / BRN, F XLN, FOSS IN PT, PRED DNS, NS W/ SH - GY / BLK W/ SCAT SLTST - GY. MIC
LS - AA W/ LS - DK BRN, F XLN, DNS, NS W/ SH - DK GY / BLK, CARB IN PT
LS - TAN / BRN, MOT IN PT, F XLN, FOSS & OOL, PRED DNS, NS
LS - SIM TO ABOVE W/ CHT - DK GY / DK BRN W/ SH - GY / BLK
LS - BRN / GY, F XLN, SCAT FOSS, PRED DNS, NS
LS - TAN / BRN, F / VF XLN, FOSS IN PT, PRED DNS, NS W/ SCAT CHT - GY / TAN W/ SH - GY / BLK
LS - TAN / BRN / SCAT CRM & GY, MOT IN PT, F XLN, SL FOSS, TR P INTXLN & FOSSMOLD POR, PRED DNS, NS W/ SCAT CHT - DK GY W/ SH - GY / BLK
LS - BRN / GY / SCAT CRM & TAN, MOT IN PT, F / VF XLN, SL FOSS, PRED DNS, NS W/ CHT - LT GY W/ SH - GY / BLK
LS - PRED BRN / GY / TAN, MOT IN PT, F XLN, FOSS IN PT, PRED DNS, NS W/ SH - GY / BLK
LS - BRN / GY / TAN, MOT IN PT, F / VF XLN, PRED DNS, NS W/ SH - GY / BLK
SH - GY W/ SS - LT GY / WHT, F / VF GR, FW SRTD, SA / SR, SL / MOD CALC CEM, ABNT OVRGR, SCAT GLAUC, SCAT / MOD PYR, P / SCAT F INTGR POR, NON-FRI, NS
SS - LT GY / WHT, VF GR, W SRTD, SA / SR, SIL CEM, MOD / ABNT OVRGR, SCAT GLAUC & PYR, P / F INTGR POR, MOD FRI IN PT, NS
SS - AS ABOVE, F / G INTGR POR, FRI, GSGB, SSFO, FT ODOR, SPTY / SAT V LT STN, SOME BARR?, G FLUOR, F / G CUT
SS - WHT / CLR, F / VF GR, FW SRTD, SA / SR, POR & SHOW V SIM TO ABOVE
SOME SS - AA W/ SS - LT GY / CLR, F / C GR, F / PSRTG, SA / R, SIL CEM, P / G INTGR POR, FRI IN PT, SSGB, VSSFO + GILS, NO ODOR, SCAT SPTY LT STN, P FLOUR, P / F CUT W/ UNCONS QTZ - C / VC W/ SH - GY / BLK
SH - GY / GRN, SLTY IN PT
SH - MED / DK GY
SH - MED / DK GY
SH - MED / DK GY W/ SCAT SLTST - MED GY, MIC
SH - MED / DK GY W/ SS - GY / TAN, MOT, F / C GR, P
Vis: 50, Wt: 8.8, LCM: 5#
Vis: 50, Wt: 8.7
YP: 17, GelS: 12/34
pH: 11.0, WL: 7.2
Chl: 3,000, Sol: 2.5
LCM: 4#
10 STAND WIPER TRIP
@ 4,945'
RECALIBRATE GAS UNIT
DST #1: 4974-5005
SEE DST HEADER
FOR RESULTS
DST #2: 4975-5023
SEE DST HEADER
FOR RESULTS
1
10
TG, C1-C5
100
1000
Vis: 50, Wt: 8.7
YP: 15, GelS: 12/34
pH: 10.5, WL: 7.2
Chl: 3,200, Sol: 2.5
LCM: 4#
DRLG WITH BIT #4: 7-7/8" CONV
RR VAREL-HE29; JETS: 14-15-15
HIGH GAS DUE TO
CRUDE OIL IN
DRILLING FLUIDS
Vis: 53
Wt: 8.8
YP: 18
GelS: 14/36
pH: 10.0
WL: 7.2
Chl: 4,000
Sol: 3.4
LCM: 4#


MORROW LS
5079 (-1297)
MISS ST LOUIS
5158 (-1376)
5100
5150
5200
5250
0
ROP (min/ft)
10
SRTD, V CALC, LS FRAG IN PT, DNS, NS W/ SCAT LS - GY / TAN / BRN, MOT, F XLN, AREN, DNS, NS
LS - TAN / CRM, PRED MOT, F XLN, SCAT REXLN CALC, FOSS, SL GLAUC, PRED DNS, NS W/ SH - MED / DK GY
LS - TAN / CRM, MOT IN PT, F / M XLN, FOSS & OOL, SCAT CHK, SCAT GLAUC, PRED DNS, NS
LS - ASABOVE, NS
LS - TAN / CRM, MOT IN PT, F / M XLN, FOSS & OOL, SCAT GLAUC, PRED NS, NS W/ SH - GY
LS - TAN / CRM / BRN, MOT IN PT, F / M XLN, SCAT REXLN CALC, FOSS & OOL IN PT, CHKY IN PT, PRED DNS, NS W/ SH - GY
LS - ASABOVE, SCAT GLAUC, SCAT CHKY, NS W/ SH - GY
LS - CRM / TAN, MOT IN PT, F XLN, FOSS & OOL IN PT, SUBCHKY IN PT, PRED DNS, NS
LS - TAN / BRN / CRM, MOT, F / M XLN, FOSS & OOL, PRED DNS, NS
LS - CRM / TAN, F / VF XLN, TR OOL, DOLO IN PT, PRED DNS, NS W/ CHT - TAN / GY / ORG / BRN
LS - ASABOVE, PRED DNS, NS W/ SS - LT GY / WHT / GRN, VF GR, W SRTD, SA / SR, V CALC, SCAT LS FRAG, SCAT PYR, VP / NO VIS POR, NS
SS - ASABOVE W/ LS - CRM / TAN, F / VF XLN, DOLO IN PT, PRED DNS, NS
LS - CRM / TAN, F / VF XLN, OOL IN PT, AREN IN PT, VF QTZ GR, P / NO VIS POR, NS
LS - CRM / SCAT TAN, F / VF XLN, DOLO IN PT, SCAT OOL IN PT, PRED DNS, NS
LS - TAN / CRM, F / VF XLN, SCAT OOL, DOLO IN PT, SCAT INTXLN POR, NS W/ CHT - WHT / LT GY
LS - TAN / CRM, F / VF XLN, OOL IN PT, SCAT DOLO, PRED DNS, NS W/ CHT - WHT / LT GY
TOTAL DEPTH 5240 (-1458)
Vis: 61, Wt: 8.8, LCM: 4#
Vis: 62, Wt: 8.9, LCM: 3#
TG, C1-C5
1
10
100
1000