Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1262434

Form ACO-1
November 2016
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 6044
Name: Stelbar Oil Corporation, Inc.
Address 1: 1625 N WATERFRONT PKWY
Address 2: SUITE 200
City: WICHITA State: KS Zip: 67206 + 6602
Contact Person: Roscoe L. Mendenhall / Ty Lunn
Phone: (316) 264-8378
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
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 #:

08/07/2015 Spud Date or Recompletion Date
08/14/2015 Date Reached TD
08/15/2015 Completion Date or Recompletion Date

API No.: 15-171-21144-00-00
Spot Description:
NE - SW - SE - NW Sec. 12 Twp. 17 S. R. 33 ☐ East ☑ West
2305 Feet from ☑ North / ☐ South Line of Section
1939 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: Scott
Lease Name: Ellis Well #: 3-12
Field Name: Beaver Bend
Producing Formation: N/A
Elevation: Ground: 2980 Kelly Bushing: 2993
Total Vertical Depth: 4810 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 314 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: 17000 ppm Fluid volume: 800 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: 10/22/2015
☑ **Confidential Release Date:** 10/21/2017
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 10/22/2015

1262434

Operator Name: Stelbar Oil Corporation, Inc. Lease Name: Ellis Well #: 3-12

Sec. 12 Twp. 17 S. R. 33 ☐ East ☑ West County: Scott

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional Sheets)	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geolgist Report / Mud Logs	☐ Yes	☐ No

List All E. Logs Run: Attached

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

Name	Top	Datum
Attached	Attached	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	12.25	8.625	23	314	Common	215	3% CC / 2% Gel

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	Ellis 3-12
Doc ID	1262434

All Electric Logs Run

Compact Photo Density Comp. Neutron Microresistivity Log
Comp. Sonic w/Integrated Transit Time Log
Array Induction Shallow Focused Elec. Log
Microresistivity Log
Caliper Log

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	Ellis 3-12
Doc ID	1262434

Tops

Name	Top	Datum
B/Anhydrite	2353	+640
Heebner	3930	-937
Lansing	3974	-981
Mun Cr Sh	4151	-1158
Stark Sh	4251	-1258
Hush Sh	4297	-1304
Pleasanton	4371	-1378
Marmaton	4381	-1388
Pawnee	4470	-1477
Cher Sh	4518	-1525
Lwr Ck Sh	4550	-1557
John Zone	4585	-1592
Mw Sh	4660	-1667
Miss	4716	-1723

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	Ellis 3-12
Doc ID	1262434

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	314	Common	215	3% CC / 2% Gel

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Stelbar Oil Corporation, Inc.**

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602

ATTN: Dave Goldak

Ellis #3-12

12-17s-33w Scott,KS

Start Date: 2015.08.12 @ 06:28:00
End Date: 2015.08.12 @ 13:02:00
Job Ticket #: 61601 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.08.14 @ 14:50:35

DRILL STEM TEST REPORT

Stelbar Oil Corporation, Inc.

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602
ATTN: Dave Goldak

12-17s-33w Scott,KS

Ellis #3-12

Job Ticket: 61601 **DST#: 1**

Test Start: 2015.08.12 @ 06:28:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:52:45
Time Test Ended: 13:02:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jace McKinney
Unit No: 75

Interval: 4354.00 ft (KB) To 4483.00 ft (KB) (TVD)
Total Depth: 4484.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

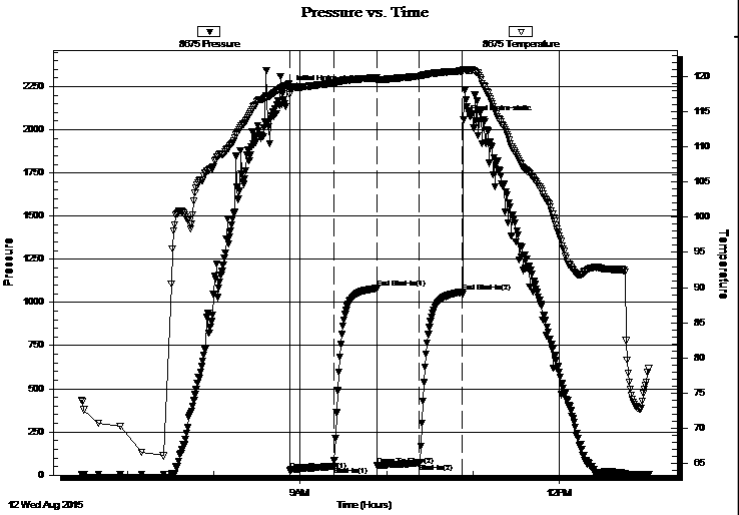
Reference Elevations: 2993.00 ft (KB)
2982.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8675 **Inside**

Press@RunDepth: 68.18 psig @ 4375.00 ft (KB)
Start Date: 2015.08.12 End Date: 2015.08.12
Start Time: 06:28:15 End Time: 13:02:00

Capacity: 8000.00 psig
Last Calib.: 2015.08.12
Time On Btm: 2015.08.12 @ 08:52:30
Time Off Btm: 2015.08.12 @ 10:53:30

TEST COMMENT: Built to 1 1/4" blow
No return blow
No blow
No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.50	118.97	Initial Hydro-static
1	28.79	117.41	Open To Flow (1)
31	51.26	119.07	Shut-In(1)
61	1081.83	119.83	End Shut-In(1)
61	54.51	119.46	Open To Flow (2)
91	68.18	120.05	Shut-In(2)
121	1061.50	120.80	End Shut-In(2)
121	2060.82	121.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	100% Mud	0.50

Gas Rates

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

DRILL STEM TEST REPORT

Stelbar Oil Corporation, Inc.

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602
ATTN: Dave Goldak

12-17s-33w Scott,KS

Ellis #3-12

Job Ticket: 61601 **DST#: 1**

Test Start: 2015.08.12 @ 06:28:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:52:45
Time Test Ended: 13:02:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jace McKinney
Unit No: 75

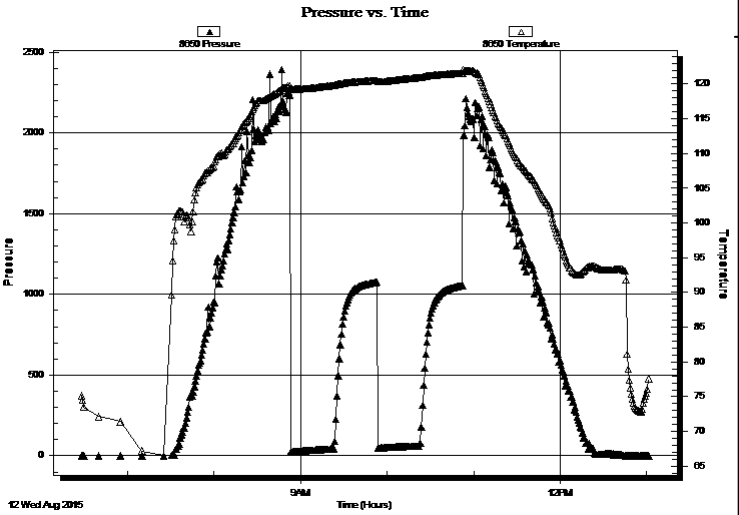
Interval: 4354.00 ft (KB) To 4483.00 ft (KB) (TVD)
Total Depth: 4484.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2993.00 ft (KB)
2982.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8650 **Outside**
Press@RunDepth: psig @ 4375.00 ft (KB)
Start Date: 2015.08.12 End Date: 2015.08.12
Start Time: 06:28:15 End Time: 13:01:45

Capacity: 8000.00 psig
Last Calib.: 2015.08.12
Time On Btm:
Time Off Btm:

TEST COMMENT: Built to 1 1/4" blow
No return blow
No blow
No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
75.00	100% Mud	0.50

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stelbar Oil Corporation, Inc.

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602
ATTN: Dave Goldak

12-17s-33w Scott,KS

Ellis #3-12

Job Ticket: 61601 **DST#: 1**

Test Start: 2015.08.12 @ 06:28:00

Tool Information

Drill Pipe:	Length:	4271.28 ft	Diameter:	3.80 inches	Volume:	59.91 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	60.71 ft	Diameter:	2.25 inches	Volume:	0.30 bbl	Weight to Pull Loose:		88000.00 lb
					Total Volume:	60.21 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		7.49 ft					String Weight:	Initial	68000.00 lb
Depth to Top Packer:		4354.00 ft						Final	68000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		130.00 ft							
Tool Length:		159.50 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4325.50		
Shut In Tool	5.00			4330.50		
Sampler	2.00			4332.50		
Hydraulic tool	5.00			4337.50		
Jars	5.00			4342.50		
Safety Joint	2.50			4345.00		
Packer	5.00			4350.00	29.50	Bottom Of Top Packer
Packer	4.00			4354.00		
Stubb	1.00			4355.00		
Perforations	19.00			4374.00		
Change Over Sub	1.00			4375.00		
Recorder	0.00	8675	Inside	4375.00		
Recorder	0.00	8650	Outside	4375.00		
Drill Pipe	95.00			4470.00		
Change Over Sub	1.00			4471.00		
Perforations	10.00			4481.00		
Bullnose	3.00			4484.00	130.00	Bottom Packers & Anchor
Total Tool Length:	**159.50**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corporation, Inc.

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602
ATTN: Dave Goldak

12-17s-33w Scott,KS

Ellis #3-12

Job Ticket: 61601 **DST#: 1**

Test Start: 2015.08.12 @ 06:28:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3300.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

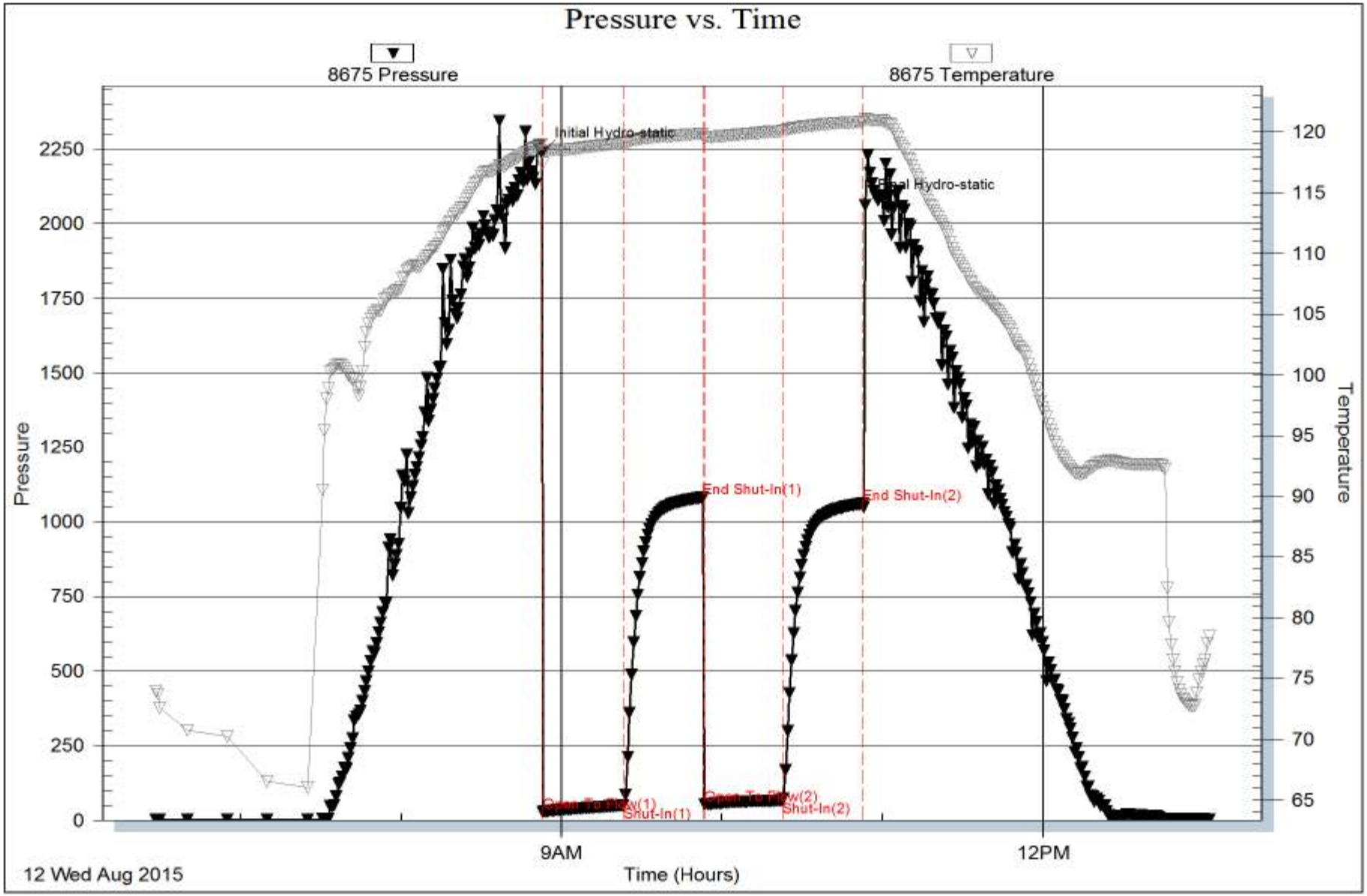
Recovery Table

Length ft	Description	Volume bbl
75.00	100% Mud	0.499

Total Length: 75.00 ft Total Volume: 0.499 bbl

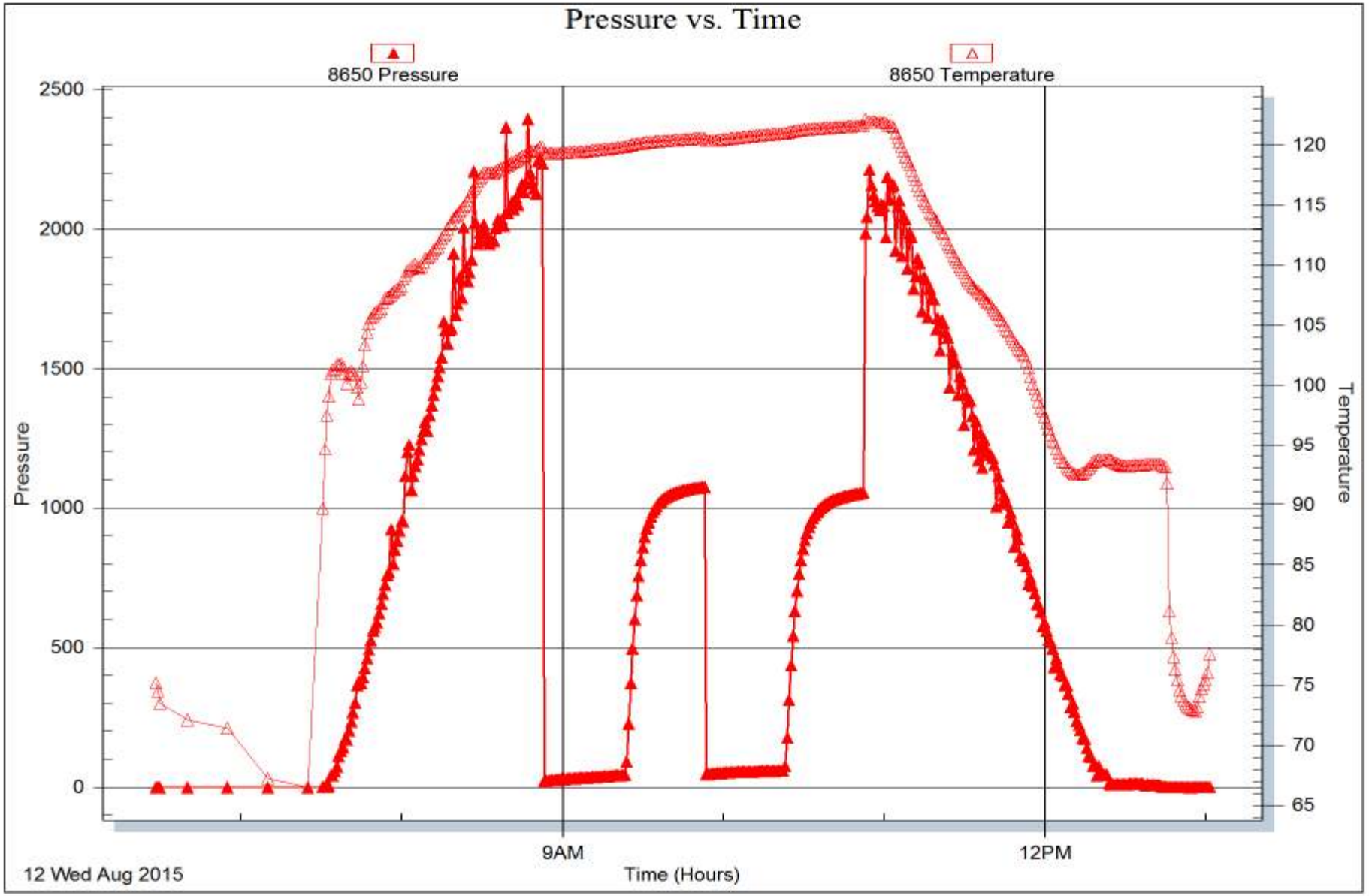
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8675 **Inside** Stelbar Oil Corporation, Inc. Ellis #3-12 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 61601 Printed: 2015.08.14 @ 14:50:37

Serial #: 8650 **Outside** Stelbar Oil Corporation, Inc. Ellis #3-12 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 61601 Printed: 2015.08.14 @ 14:50:37

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Stelbar Oil Corporation, Inc.**

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602

ATTN: Dave Goldak

Ellis #3-12

12-17s-33w Scott,KS

Start Date: 2015.08.13 @ 03:15:00
End Date: 2015.08.13 @ 09:19:15
Job Ticket #: 61602 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.08.14 @ 14:50:05

DRILL STEM TEST REPORT

Stelbar Oil Corporation, Inc.

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602
ATTN: Dave Goldak

12-17s-33w Scott,KS

Ellis #3-12

Job Ticket: 61602 **DST#: 2**

Test Start: 2015.08.13 @ 03:15:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:20:30
Time Test Ended: 09:19:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Jace McKinney
Unit No: 75

Interval: 4600.00 ft (KB) To 4665.00 ft (KB) (TVD)
Total Depth: 4665.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

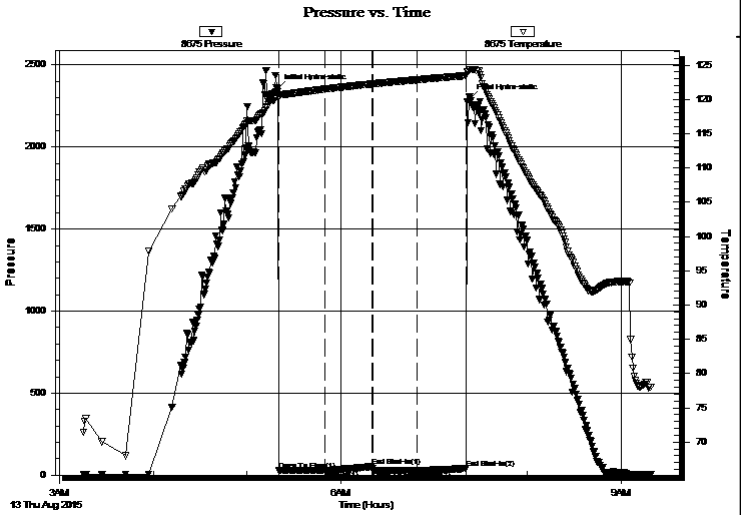
Reference Elevations: 2993.00 ft (KB)
2982.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8675 **Inside**

Press@RunDepth: 28.17 psig @ 4619.00 ft (KB)
Start Date: 2015.08.13 End Date: 2015.08.13
Start Time: 03:15:15 End Time: 09:19:15

Capacity: 8000.00 psig
Last Calib.: 2015.08.13
Time On Btm: 2015.08.13 @ 05:20:00
Time Off Btm: 2015.08.13 @ 07:23:00

TEST COMMENT: Built to 1/4", died to surface blow
No return blow
No blow
No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2354.83	121.15	Initial Hydro-static
1	27.51	120.43	Open To Flow (1)
31	28.05	121.50	Shut-In(1)
61	53.08	122.26	End Shut-In(1)
61	28.56	122.26	Open To Flow (2)
90	28.17	122.86	Shut-In(2)
121	40.30	123.47	End Shut-In(2)
123	2294.70	124.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud with oil spots	0.05

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Stelbar Oil Corporation, Inc.

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602
ATTN: Dave Goldak

12-17s-33w Scott,KS

Ellis #3-12

Job Ticket: 61602 **DST#: 2**

Test Start: 2015.08.13 @ 03:15:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:20:30
Time Test Ended: 09:19:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Jace McKinney
Unit No: 75

Interval: 4600.00 ft (KB) To 4665.00 ft (KB) (TVD)
Total Depth: 4665.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

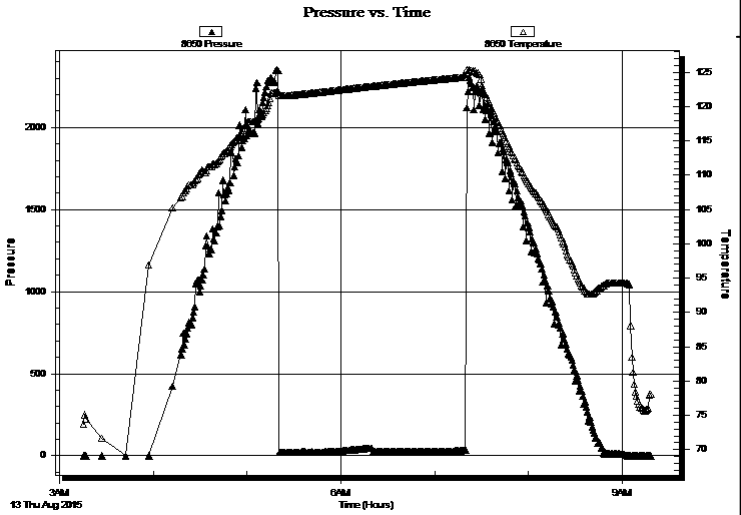
Reference Elevations: 2993.00 ft (KB)
2982.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8650 **Outside**

Press@RunDepth: psig @ 4619.00 ft (KB)
Start Date: 2015.08.13 End Date: 2015.08.13
Start Time: 03:15:15 End Time: 09:18:45

Capacity: 8000.00 psig
Last Calib.: 2015.08.13
Time On Btm:
Time Off Btm:

TEST COMMENT: Built to 1/4", died to surface blow
No return blow
No blow
No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud with oil spots	0.05

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stelbar Oil Corporation, Inc.

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602
ATTN: Dave Goldak

12-17s-33w Scott,KS

Ellis #3-12

Job Ticket: 61602 **DST#: 2**

Test Start: 2015.08.13 @ 03:15:00

Tool Information

Drill Pipe:	Length:	4525.61 ft	Diameter:	3.80 inches	Volume:	63.48 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	60.71 ft	Diameter:	2.25 inches	Volume:	0.30 bbl	Weight to Pull Loose:		88000.00 lb
					Total Volume:	63.78 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		15.82 ft					String Weight:	Initial	68000.00 lb
Depth to Top Packer:		4600.00 ft						Final	68000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		65.00 ft							
Tool Length:		94.50 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4571.50		
Shut In Tool	5.00			4576.50		
Sampler	2.00			4578.50		
Hydraulic tool	5.00			4583.50		
Jars	5.00			4588.50		
Safety Joint	2.50			4591.00		
Packer	5.00			4596.00	29.50	Bottom Of Top Packer
Packer	4.00			4600.00		
Stubb	1.00			4601.00		
Perforations	17.00			4618.00		
Change Over Sub	1.00			4619.00		
Recorder	0.00	8675	Inside	4619.00		
Recorder	0.00	8650	Outside	4619.00		
Drill Pipe	32.00			4651.00		
Change Over Sub	1.00			4652.00		
Perforations	10.00			4662.00		
Bullnose	3.00			4665.00	65.00	Bottom Packers & Anchor
Total Tool Length:	**94.50**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corporation, Inc.

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602
ATTN: Dave Goldak

12-17s-33w Scott,KS

Ellis #3-12

Job Ticket: 61602 **DST#: 2**

Test Start: 2015.08.13 @ 03:15:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3300.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

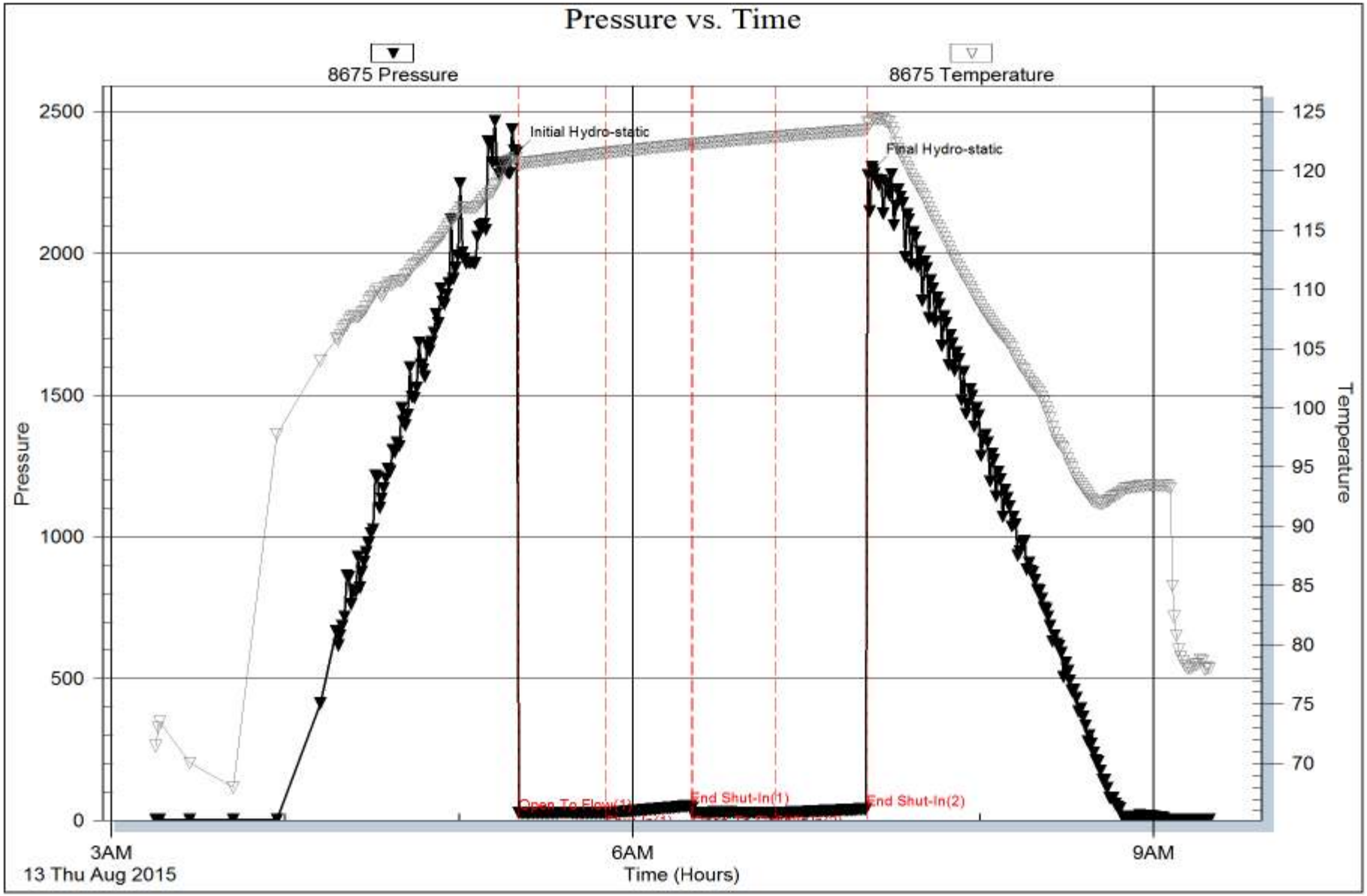
Recovery Table

Length ft	Description	Volume bbl
10.00	100% Mud with oil spots	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

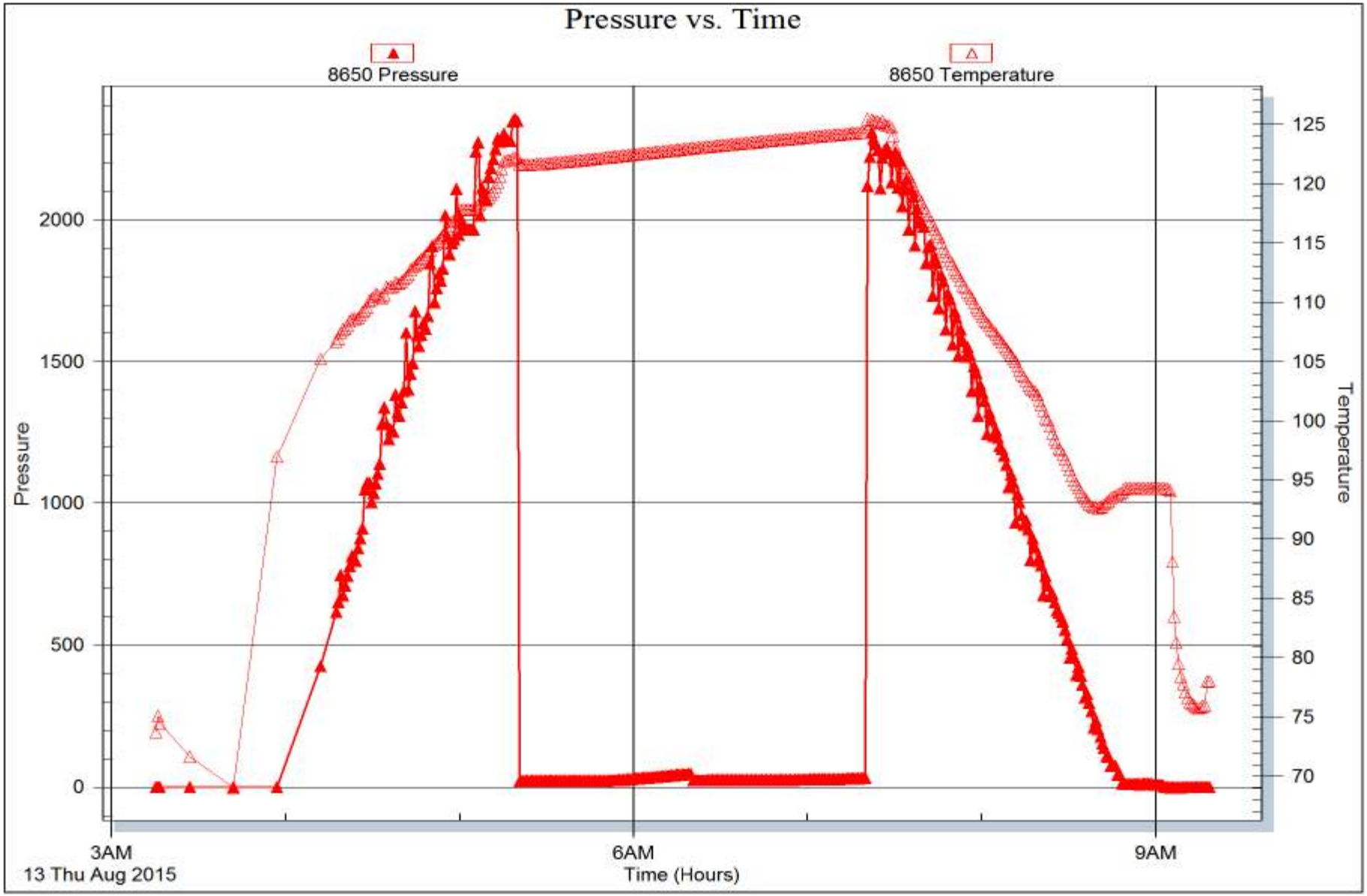
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8675 **Inside** Stelbar Oil Corporation, Inc. Ellis #3-12 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 61602 Printed: 2015.08.14 @ 14:50:06

Serial #: 8650 **Outside** Stelbar Oil Corporation, Inc. Ellis #3-12 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 61602 Printed: 2015.08.14 @ 14:50:07

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Stelbar Oil Corporation, Inc.**

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602

ATTN: Dave Goldak

Ellis #3-12

12-17s-33w Scott,KS

Start Date: 2015.08.14 @ 04:58:00
End Date: 2015.08.14 @ 13:43:00
Job Ticket #: 61603 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.08.14 @ 14:47:52

DRILL STEM TEST REPORT

Stelbar Oil Corporation, Inc.

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602
ATTN: Dave Goldak

12-17s-33w Scott,KS

Ellis #3-12

Job Ticket: 61603 **DST#: 3**

Test Start: 2015.08.14 @ 04:58:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:53:30
Time Test Ended: 13:43:00

Test Type: Conventional Straddle (Reset)
Tester: Jace McKinney
Unit No: 75

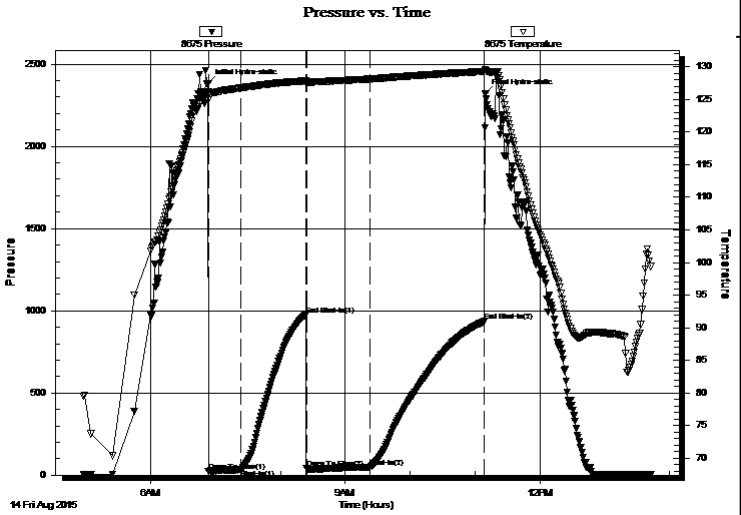
Interval: 4718.00 ft (KB) To 4740.00 ft (KB) (TVD)
Total Depth: 4810.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2993.00 ft (KB)
2982.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8675 **Inside**
Press@RunDepth: 49.05 psig @ 4719.00 ft (KB)
Start Date: 2015.08.14 End Date: 2015.08.14
Start Time: 04:58:15 End Time: 13:43:00

Capacity: 8000.00 psig
Last Calib.: 2015.08.14
Time On Btm: 2015.08.14 @ 06:53:15
Time Off Btm: 2015.08.14 @ 11:09:30

TEST COMMENT: Built to 3 3/4" blow
Bled off for 3 min, No return blow
B.O.B. in 48 min
Bled off for 5 min, No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2380.72	126.19	Initial Hydro-static
1	23.51	124.98	Open To Flow (1)
31	33.19	126.77	Shut-In(1)
90	975.32	127.84	End Shut-In(1)
91	39.34	127.62	Open To Flow (2)
150	49.05	128.14	Shut-In(2)
256	935.00	129.28	End Shut-In(2)
257	2321.18	129.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	292 Feet Gas In Pipe	0.00
40.00	ocm 10%O 90%M	0.20
40.00	gco 10%G 90%O	0.37

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Stelbar Oil Corporation, Inc.

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602
ATTN: Dave Goldak

12-17s-33w Scott,KS

Ellis #3-12

Job Ticket: 61603 **DST#: 3**

Test Start: 2015.08.14 @ 04:58:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:53:30
Time Test Ended: 13:43:00

Test Type: Conventional Straddle (Reset)
Tester: Jace McKinney
Unit No: 75

Interval: 4718.00 ft (KB) To 4740.00 ft (KB) (TVD)
Total Depth: 4810.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

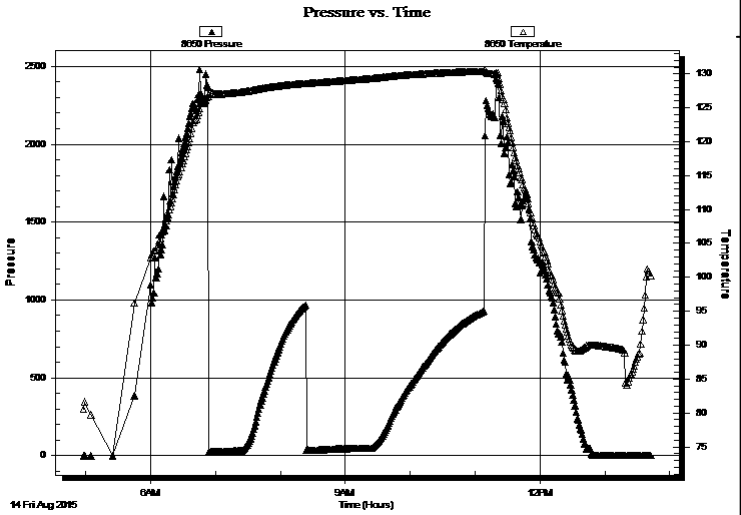
Reference Elevations: 2993.00 ft (KB)
2982.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8650 **Outside**

Press@RunDepth: psig @ 4719.00 ft (KB)
Start Date: 2015.08.14 End Date: 2015.08.14
Start Time: 04:58:15 End Time: 13:42:45

Capacity: 8000.00 psig
Last Calib.: 2015.08.14
Time On Btm:
Time Off Btm:

TEST COMMENT: Built to 3 3/4" blow
Bled off for 3 min, No return blow
B.O.B. in 48 min
Bled off for 5 min, No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	292 Feet Gas In Pipe	0.00
40.00	ocm 10%O 90%M	0.20
40.00	gco 10%G 90%O	0.37

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Stelbar Oil Corporation, Inc.

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602
ATTN: Dave Goldak

12-17s-33w Scott,KS

Ellis #3-12

Job Ticket: 61603 **DST#: 3**

Test Start: 2015.08.14 @ 04:58:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:53:30
Time Test Ended: 13:43:00

Test Type: Conventional Straddle (Reset)
Tester: Jace McKinney
Unit No: 75

Interval: 4718.00 ft (KB) To 4740.00 ft (KB) (TVD)
Total Depth: 4810.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

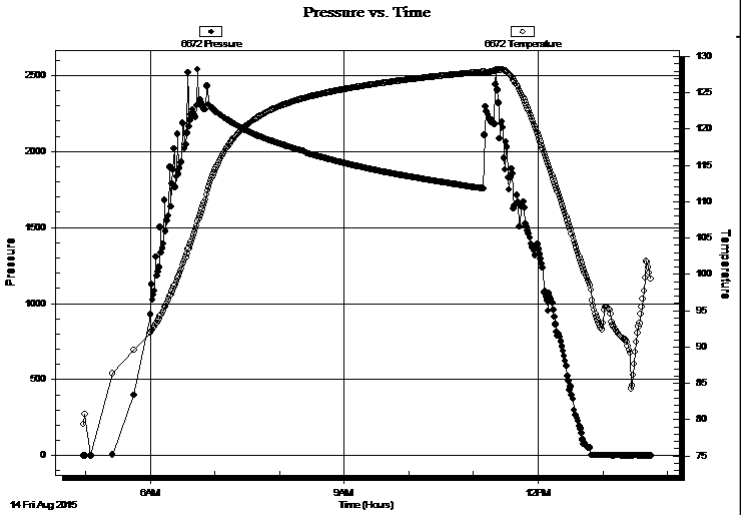
Reference Elevations: 2993.00 ft (KB)
2982.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6672 **Below (Straddle)**

Press@RunDepth: psig @ 4808.00 ft (KB)
Start Date: 2015.08.14 End Date: 2015.08.14
Start Time: 04:58:15 End Time: 13:44:30

Capacity: 8000.00 psig
Last Calib.: 2015.08.14
Time On Btm:
Time Off Btm:

TEST COMMENT: Built to 3 3/4" blow
Bled off for 3 min, No return blow
B.O.B. in 48 min
Bled off for 5 min, No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	292 Feet Gas In Pipe	0.00
40.00	ocm 10%O 90%M	0.20
40.00	gco 10%G 90%O	0.37

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Stelbar Oil Corporation, Inc.

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602
ATTN: Dave Goldak

12-17s-33w Scott,KS

Ellis #3-12

Job Ticket: 61603 **DST#: 3**

Test Start: 2015.08.14 @ 04:58:00

Tool Information

Drill Pipe:	Length:	4655.62 ft	Diameter:	3.80 inches	Volume:	65.31 bbl	Tool Weight:	2500.00 lb	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	30000.00 lb	
Drill Collar:	Length:	60.71 ft	Diameter:	2.25 inches	Volume:	0.30 bbl	Weight to Pull Loose:	92000.00 lb	
					Total Volume:	65.61 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:		20.83 ft					String Weight: Initial	72000.00 lb	
Depth to Top Packer:		4718.00 ft					Final	72000.00 lb	
Depth to Bottom Packer:		4740.00 ft							
Interval betw een Packers:		22.00 ft							
Tool Length:		115.50 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4696.50		
Shut In Tool	5.00			4701.50		
Hydraulic tool	5.00			4706.50		
Jars	5.00			4711.50		
Safety Joint	2.50			4714.00		
Packer	4.00			4718.00	22.50	Bottom Of Top Packer
Stubb	1.00			4719.00		
Perforations	0.00			4719.00		
Recorder	0.00	8675	Inside	4719.00		
Recorder	0.00	8650	Outside	4719.00		
Perforations	17.00			4736.00		
Change Over Sub	0.00			4736.00		
Drill Pipe	0.00			4736.00		
Change Over Sub	0.00			4736.00		
Blank off Sub	1.00			4737.00		
Top of Straddle Packer	3.00			4740.00	22.00	Tool Interval
Packer	1.00			4741.00		
Stubb	1.00			4742.00		
Perforations	0.00			4742.00		
Change Over Sub	1.00			4743.00		
Drill Pipe	64.00			4807.00		
Change Over Sub	1.00			4808.00		
Perforations	0.00			4808.00		
Recorder	0.00	6672	Below	4808.00		
Bullnose	3.00			4811.00	71.00	Bottom Packers & Anchor
Total Tool Length:	**115.50**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Stelbar Oil Corporation, Inc.

1625 N Waterfront PKWY
Suite 200
Wichita KS, 67206-6602
ATTN: Dave Goldak

12-17s-33w Scott,KS

Ellis #3-12

Job Ticket: 61603 **DST#: 3**

Test Start: 2015.08.14 @ 04:58:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	25 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	65.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3600.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	292 Feet Gas In Pipe	0.000
40.00	ocm 10%O 90%M	0.197
40.00	gco 10%G 90%O	0.372

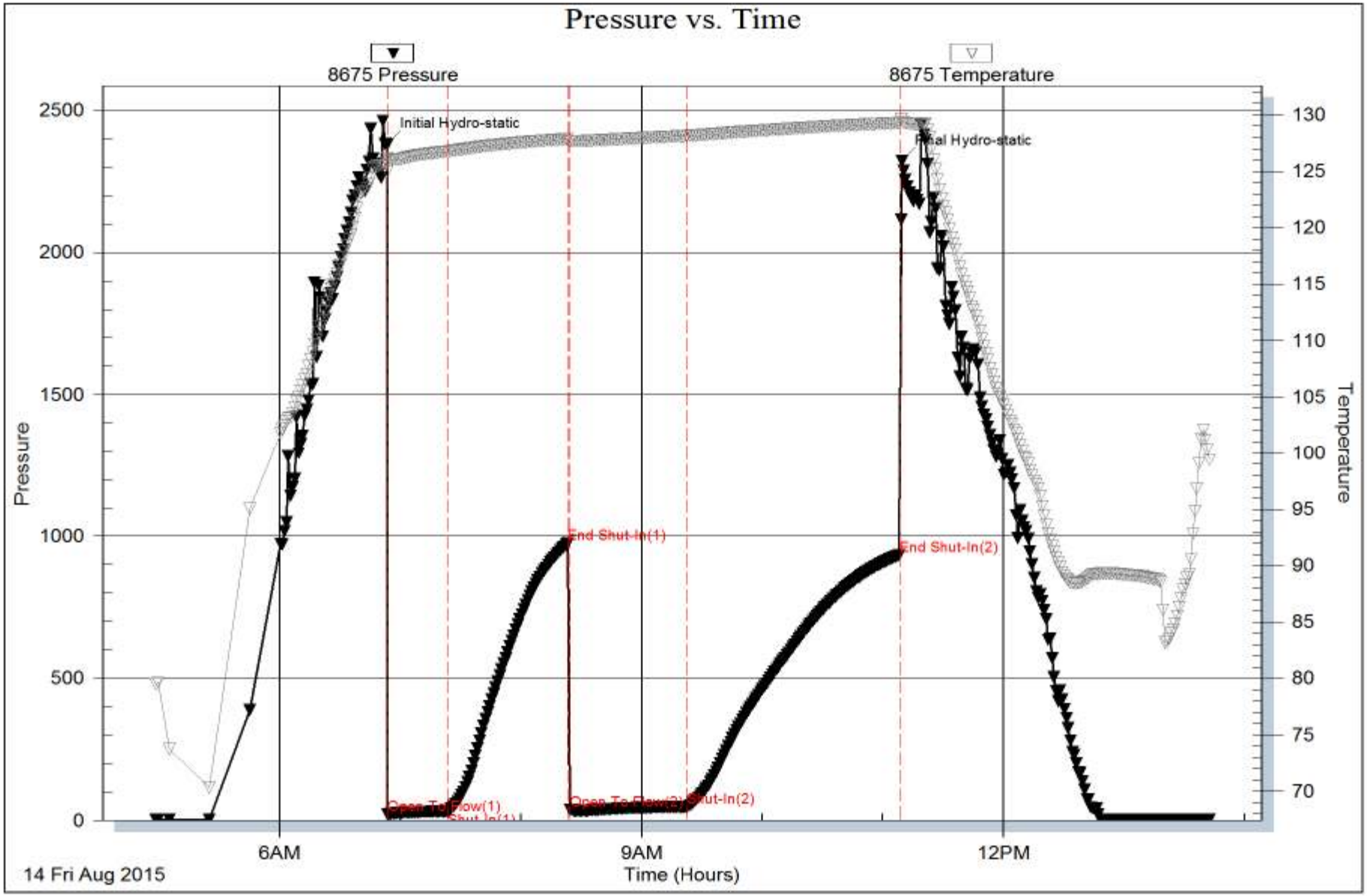
Total Length: 80.00 ft Total Volume: 0.569 bbl

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

Laboratory Name: Laboratory Location:

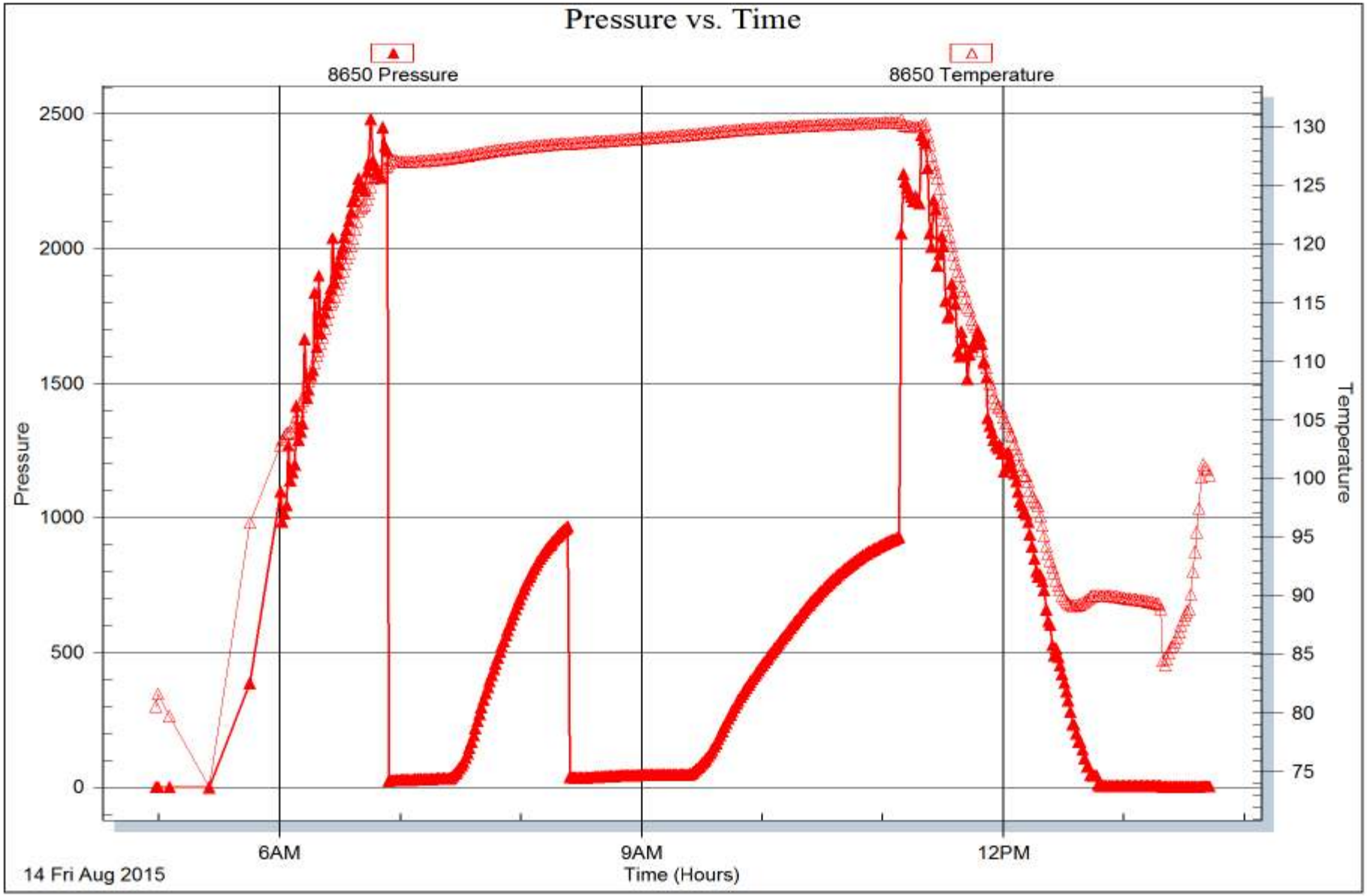
Recovery Comments: API: 29 @ 100 F = 25

Serial #: 8675 **Inside** Stelbar Oil Corporation, Inc. Ellis #3-12 DST Test Number: 3



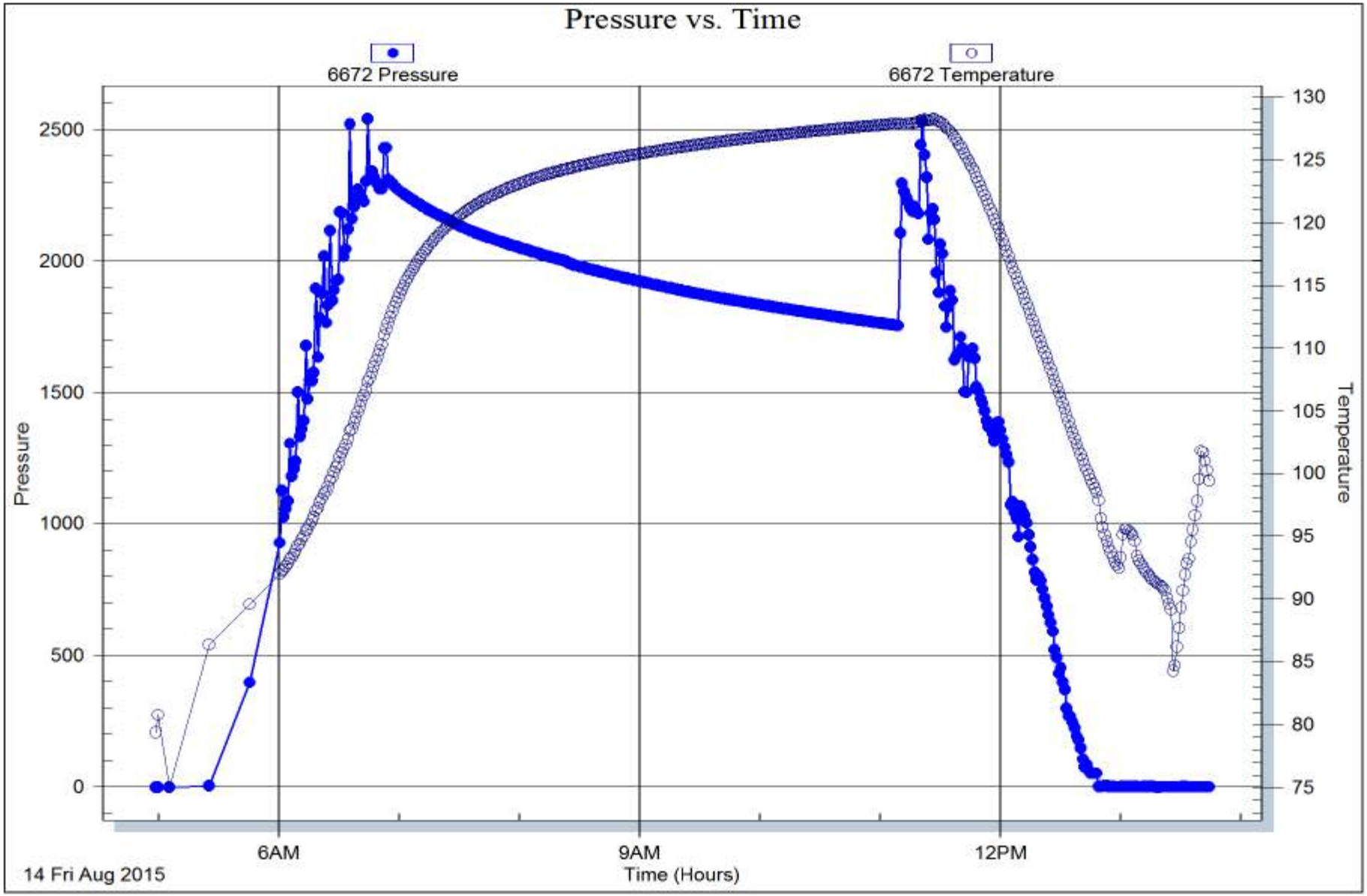
Trilobite Testing, Inc Ref. No: 61603 Printed: 2015.08.14 @ 14:47:55

Serial #: 8650 **Outside** Stelbar Oil Corporation, Inc. Ellis #3-12 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 61603 Printed: 2015.08.14 @ 14:47:56

Serial #: 6672 Below (Straddle) Oil Corporation, Inc. Ellis #3-12 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 61603 Printed: 2015.08.14 @ 14:47:56

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 61601

Well Name & No. Ellis 3-12 Test No. 1 Date 8/12/15

Company Stellar Oil Corporation, Inc Elevation 2993 KB 2980 GL

Address 1625 N Waterfront Pkwy, Suite 200, Wichita KS 67206-6602

Co. Rep / Geo. Dave Goldak Rig Sterling Rig 5

Location: Sec. 12 Twp. 17S Rge. 33W Co. Scott County State KS

Interval Tested 4354-4484 Zone Tested Marmaton

Anchor Length 130 Drill Pipe Run 4271.28 Mud Wt. 9.3

Top Packer Depth 4350 Drill Collars Run 60.71 Vis 60

Bottom Packer Depth 4354 Wt. Pipe Run ——— WL 8.0

Total Depth 4484 Chlorides 3,300 ppm System LCM 2#

Blow Description Built to 1¼" blow
No return blow
No blow
No return blow

Rec 15	Feet of Mud	%gas	%oil	%water 100	%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 15 BHT 121 Gravity ——— API RW ——— @ ——— °F Chlorides ——— ppm

(A) Initial Hydrostatic 2,236	☑ Test 1150	T-On Location 05:45
(B) First Initial Flow 29	☑ Jars 250	T-Started 06:28
(C) First Final Flow 51	☑ Safety Joint 75	T-Open 08:52
(D) Initial Shut-In 1,082	☑ Circ Sub N/C	T-Pulled 10:52
(E) Second Initial Flow 55	☐ Hourly Standby	T-Out 13:02
(F) Second Final Flow 68	☑ Mileage 20RT	Comments
(G) Final Shut-In 1,062	☑ Sampler ~~250~~ 250	
(H) Final Hydrostatic 2,061	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 30	☐ Day Standby	Total 1745
Final Shut-In 30	☐ Accessibility	MP/DST Disc't
	Sub Total 1745	

Approved By [signature] Our Representative [signature]

TRILOBITE TESTING, INC.

1515 Commerce Parkway • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 61601 Date 8/12/15

Company Name Stellar Oil Corporation

Lease Ellis 3-12 Test No. DST #1

County Scott County, KS Sec. 12 Twp. 17S Rng. 33W

SAMPLER RECOVERY

Gas _____ ML

Oil _____ ML

Mud 4,000 @ 75 psi ML

Water _____ ML

Other _____ ML

Pressure _____ ML

Total _____ ML

PIT MUD ANALYSIS

Chlorides 3,300 ppm.

Resistivity _____ ohms @ _____ F

Viscosity 60

Mud Weight 9.3

Filtrate 8.0

Other LCM 2#

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

Gravity _____ corrected @60F

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 61602

Well Name & No. Ellis 3-12 Test No. 2 Date 8/13/15

Company Stellar Oil Corporation, Inc Elevation 2993 KB 2980 GL

Address 1625 N Waterfront Pkwy Suite 200 Wichita, KS 67206-6602

Co. Rep / Geo. Dave Goldak Rig Sterling Rig 5

Location: Sec. 12 Twp. 17S Rge. 33W Co. Scott County State KS

Interval Tested 4600 - 4665 Zone Tested Johnson Zone

Anchor Length 65 Drill Pipe Run 4525.61 Mud Wt. 9.3

Top Packer Depth 4596 Drill Collars Run 60.71 Vis 60

Bottom Packer Depth 4600 Wt. Pipe Run ——— WL 8.0

Total Depth 4665 Chlorides 3,300 ppm System LCM 2#

Blow Description Built to 1/4", died to surface 6low
No return 6low
No 6low
No return 6low

Rec 10	Feet of Mud with oil spots	%gas	%oil	%water 100	%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 10 BHT 124 Gravity ——— API RW ——— @ ——— °F Chlorides ——— ppm

(A) Initial Hydrostatic	2,355	☑ Test	1150	T-On Location	02:15
(B) First Initial Flow	28	☑ Jars	250	T-Started	03:15
(C) First Final Flow	28	☑ Safety Joint	75	T-Open	05:20
(D) Initial Shut-In	53	☑ Circ Sub	N/C	T-Pulled	07:20
(E) Second Initial Flow	29	☐ Hourly Standby		T-Out	09:19
(F) Second Final Flow	28	☑ Mileage	20 RT	Comments	
(G) Final Shut-In	40	☑ Sampler	250		
(H) Final Hydrostatic	2,295	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	30	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	30	☐ Extra Recorder		Sub Total	0
Final Flow	30	☐ Day Standby		Total	1745
Final Shut-In	30	☐ Accessibility		MP/DST Disc't	
		Sub Total	1745		

Approved By [signature] Our Representative [signature]

TRILOBITE TESTING, INC.

1515 Commerce Parkway • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 61602 Date 8/13/2015

Company Name Stellar Oil Corporation, Inc.

Lease Ellis 3-12 Test No. DST #2

County Scott County, Kansas Sec. 12 Twp. 17S Rng. 33W

SAMPLER RECOVERY

Gas _____ ML

Oil _____ ML

Mud 100% Mud with oil spots 1000 ML

Water _____ ML

Other _____ ML

Pressure _____ ML

Total 25 psi 1000 ml Mud ML

PIT MUD ANALYSIS

Chlorides 3,300 ppm.

Resistivity _____ ohms @ _____ F

Viscosity 60

Mud Weight 9.3

Filtrate 8.0

Other Jem 2# Cake 1

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

Gravity _____ corrected @60F

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 61603

Well Name & No. Ellis 3-12 Test No. 3 Date 8/14/15

Company Stellar Oil Corporation, Inc. Elevation 2993 KB 2980 GL

Address 1625 N Waterfront Pkwy Suite 200 Wichita, KS 67206-6602

Co. Rep / Geo. Dave Goldak Rig Sterling Rig 5

Location: Sec. 12 Twp. 17S Rge. 33W Co. Scott County State KS

Interval Tested 4718-4740 Zone Tested Mississippian

Anchor Length 70' Tailpipe 22 Drill Pipe Run 4655.62 Mud Wt. 9.4

Top Packer Depth No Packer Drill Collars Run 60.71 Vis 65

Bottom Packer Depth 4718 Wt. Pipe Run WL 8.0

Total Depth 4810 4740 Chlorides 3,600 ppm System LCM 2#

Blow Description Built to 3¾" blow
Bled off for 3 min. No return blow
B.O.B. in 48 min.
Bled off for 5 min. No return blow

Rec 40	Feet of GCO	10 %gas	90 %oil	%water	%mud	
Rec 40	Feet of GCM	%gas	10 %oil	%water	90 %mud	
Rec 0	Feet of 292 Feet Gas In Pipe	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	
Rec	Feet of	%gas	%oil	%water	%mud	

Rec Total 80 BHT 129 Gravity 25 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	2,381	☑ Test 1150	T-On Location 04:45
(B) First Initial Flow	24	☑ Jars 250	T-Started 04:58
(C) First Final Flow	33	☑ Safety Joint 75	T-Open 06:53
(D) Initial Shut-In	975	☑ Circ Sub W/C	T-Pulled 10:53
(E) Second Initial Flow	39	☐ Hourly Standby	T-Out 13:43
(F) Second Final Flow	49	☑ Mileage 20 RT	Comments
(G) Final Shut-In	935	☑ Sampler 250	
(H) Final Hydrostatic	2,321	☑ Straddle 600	☐ Ruined Shale Packer
		☐ Shale Packer	☐ Ruined Packer
Initial Open 30		☐ Extra Packer	☐ Extra Copies
Initial Shut-In 60		☐ Extra Recorder	Sub Total 0
Final Flow 60		☐ Day Standby	Total 2345
Final Shut-In 90		☐ Accessibility	MP/DST Disc't
		Sub Total 2345	

Approved By [signature] Our Representative [signature]

TRILOBITE TESTING, INC.

1515 Commerce Parkway • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 66603 Date 8/14/15

Company Name Stellar Oil Corporation, Inc.

Lease Ellis 3-12 Test No. DST #3

County Scott County Kansas Sec. 12 Twp. 17S Rng. 33W

SAMPLER RECOVERY

Gas _____ ML

Oil 1500 ml ML

Mud _____ ML

Water _____ ML

Other _____ ML

Pressure _____ ML

Total 2 gal. inches @ 150 psi 1500 cc ML

PIT MUD ANALYSIS

Chlorides 3,600 ppm.

Resistivity _____ ohms @ _____ F

Viscosity 65

Mud Weight 9.4

Filtrate 8.0

Other 1CM 2# Cake 1

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

Gravity 29 corrected @60F

PIPE RECOVERY

TOP

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

GEOLOGIC REPORT

DAVID J. GOLDAK

WICHITA, KANSAS

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

Well Name:	**Ellis #3-12**		
Location:	**Section 12 - T17S - R33W**		
License Number:	**API: 15-171-21144**	**Region:**	**Scott Co., KS**
Spud Date:	**08 / 07 / 2015**	**Drilling Completed:**	**08 / 14 / 2015**
Surface Coordinates:	**2305' FNL and 1939' FWL** **NE - SW - SE - NW**		
Bottom Hole Coordinates:			
Ground Elevation (ft):	**2980'**	**K.B. Elevation (ft):**	**2993'**
Logged Interval (ft):	**3700'** **To: 4810'**	**Total Depth (ft):**	**4810'**
Formation:	**Mississippian - St Louis**		
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: **155 N. Market, Suite 710**
Wichita, Kansas 67202

General Info

CONTRACTOR: Sterling Drilling, Rig #5

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	JZ-HAOOTC	3-16s	319	319	2.25
2	7-7/8	JZ-HAIPG	3-15s	371	52	0.50
3	7-7/8	Ulterra-U516M	5-15s	4810	4439	66.75

SURVEYS: 319'-0.25, 3510'-1.00, 4484'-1.00, 4810'-0.75

GENERAL DRILLING & PUMP INFORMATION:
Drilling with 14,000-17,000 lbs on bit and 90-100 RPM.
Drilling with 9 stands of collars (6.25"x2.25"): 536.21'
Pumping 60-66 S/M; 9.2-10.2 B/M; 900-1000 psi at standpipe.

Daily Status

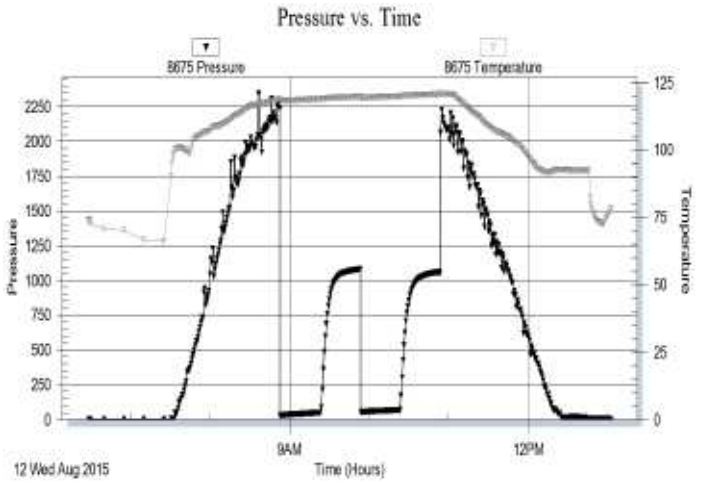
08/07/15 - Spud at 7:30 PM; Set 8-5/8" csg at 314'
08/08/15 - 319' WOC; DP at 12:30 PM; Bit trip at 371'
09/09/15 - 2,353' Drilling; Displace mud @ 3,000'; ST @ 3,510'
08/10/15 - 3,580' Drilling
08/11/15 - 4,263' Drilling; Wiper trip @ 4,330'; Bit trip @ 4,397'
08/12/15 - 4,484' Prep for DST #1
08/13/15 - 4,665' DST #2 in progress; Log well
08/14/15 - 4,810' DST #3 in progress

DST #1: 4,354' - 4,484' (Pleasanton & Marmaton)
30" - 30" - 30" - 30"

IF: Weak blow building to 1-1/4 inches
ISI: No blow back
FF: No blow
FSI: No blow back

RECOVERY: 75' Total Fluid, consisting of:
75' Mud (100% M)
Sampler: 1000 ml Mud @ 75 psi

SIP: 1082-1062; FP: 29-51, 55-68; HP: 2236-2061; BHT: 121

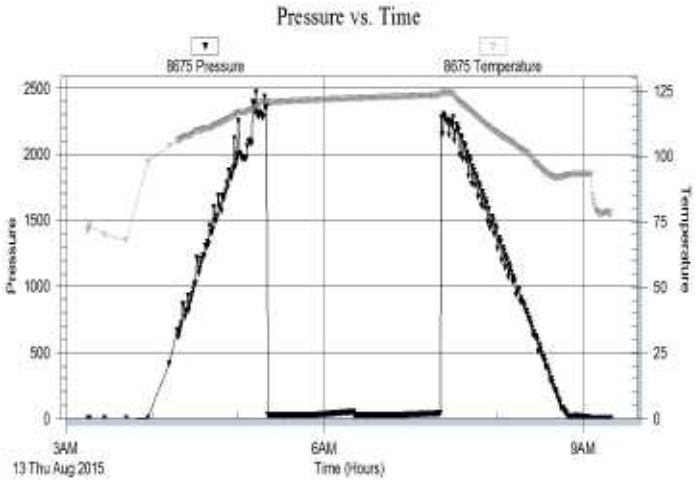


DST #2: 4,600' - 4,665' (Johnson Zone)
30" - 30" - 30" - 30"

IF: Weak blow building to 1/4 inch
ISI: No blow back
FF: No blow
FSI: No blow back

RECOVERY: 10' Total Fluid, consisting of:
10' OSM (100% M)
Sampler: 1000 ml OSM @ 25 psi

SIP: 53-40; FP: 28-28, 29-28; HP: 2255-2295; BHT: 124

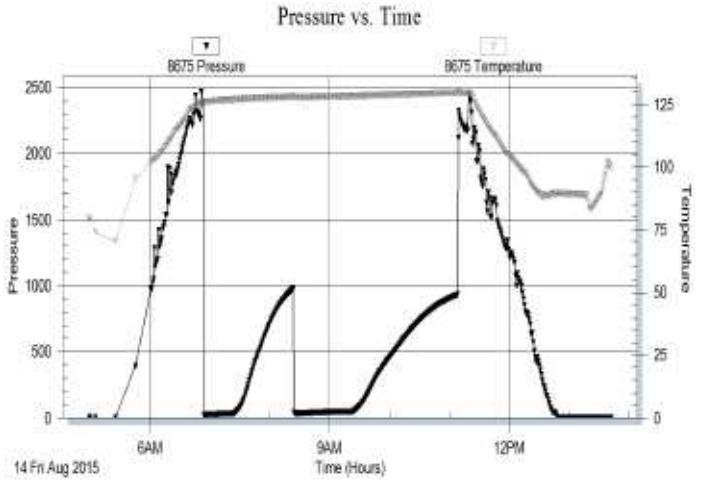


DST #3: 4,718' - 4,740' (Mississippian ?)
(Straddle test) 30" - 60" - 60" - 90"

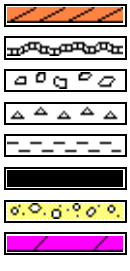
IF: Weak blow building to 3-3/4 inches
ISI: No blow back
FF: Fair blow building to BOB in 48 minutes
FSI: No blow back

RECOVERY: 292' GIP & 80' TF, consisting of:
40' GCO (10% G, 90% O); Gravity: 25 API
40' OCM (10% O, 90% M)
Sampler: 1500 ml Oil @ 150 psi

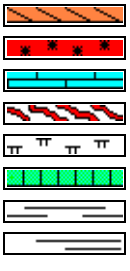
SIP: 975-935; FP: 24-33, 39-49; HP: 2381-2321; BHT: 129



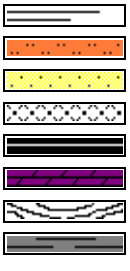
ROCK TYPES



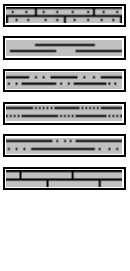
Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol



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

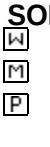
Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

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

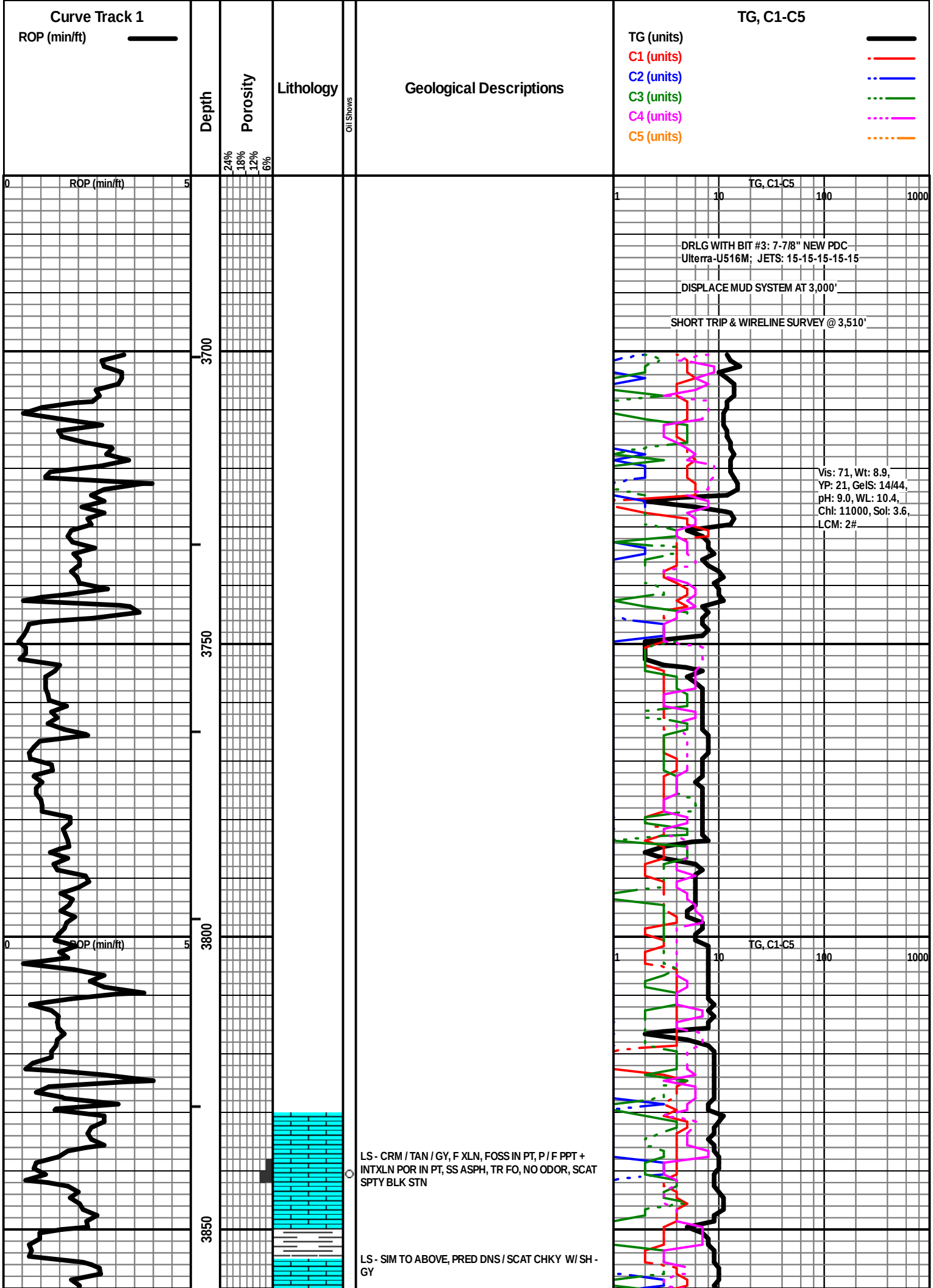
INTERVALS

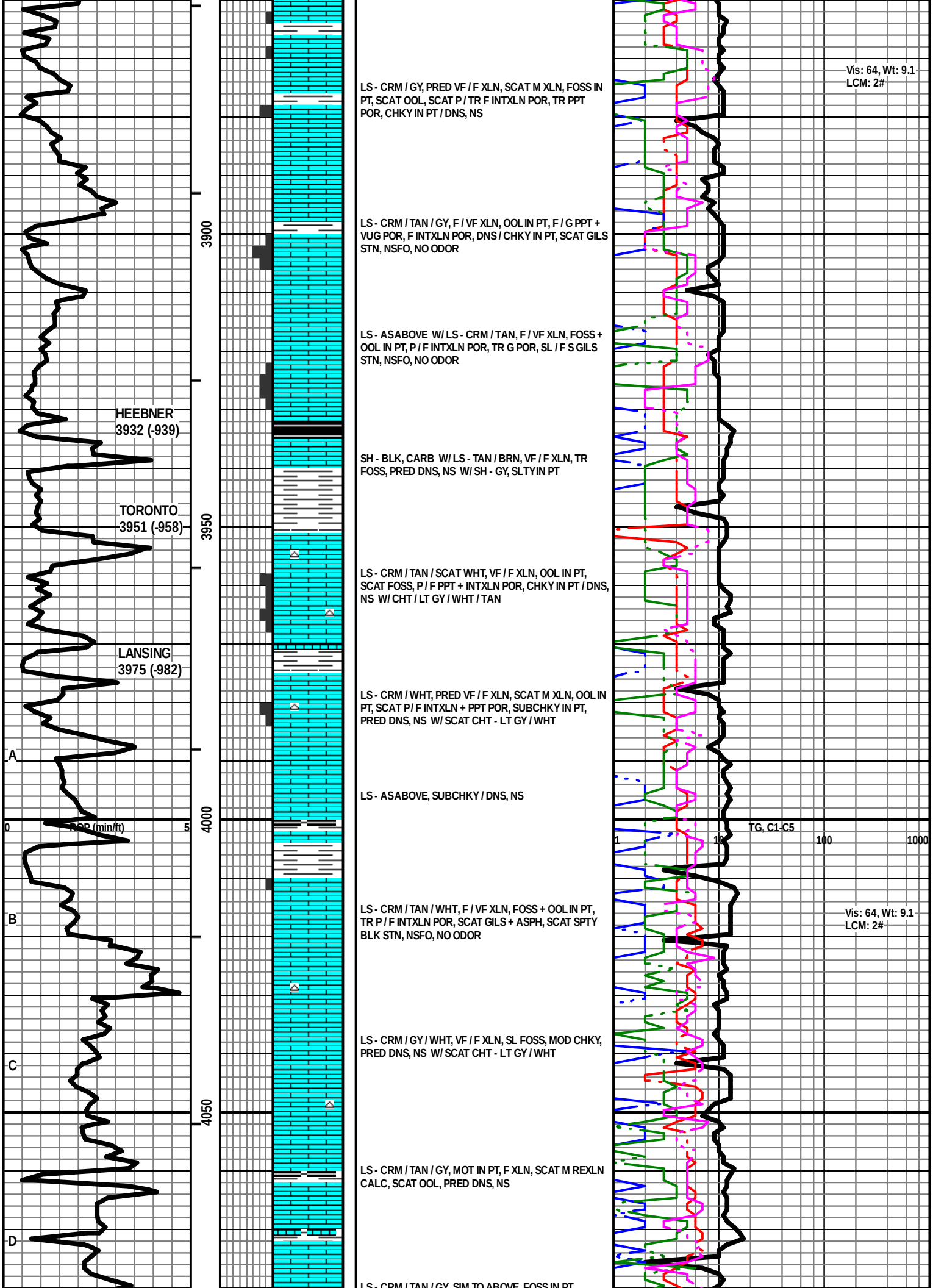
Core
Dst

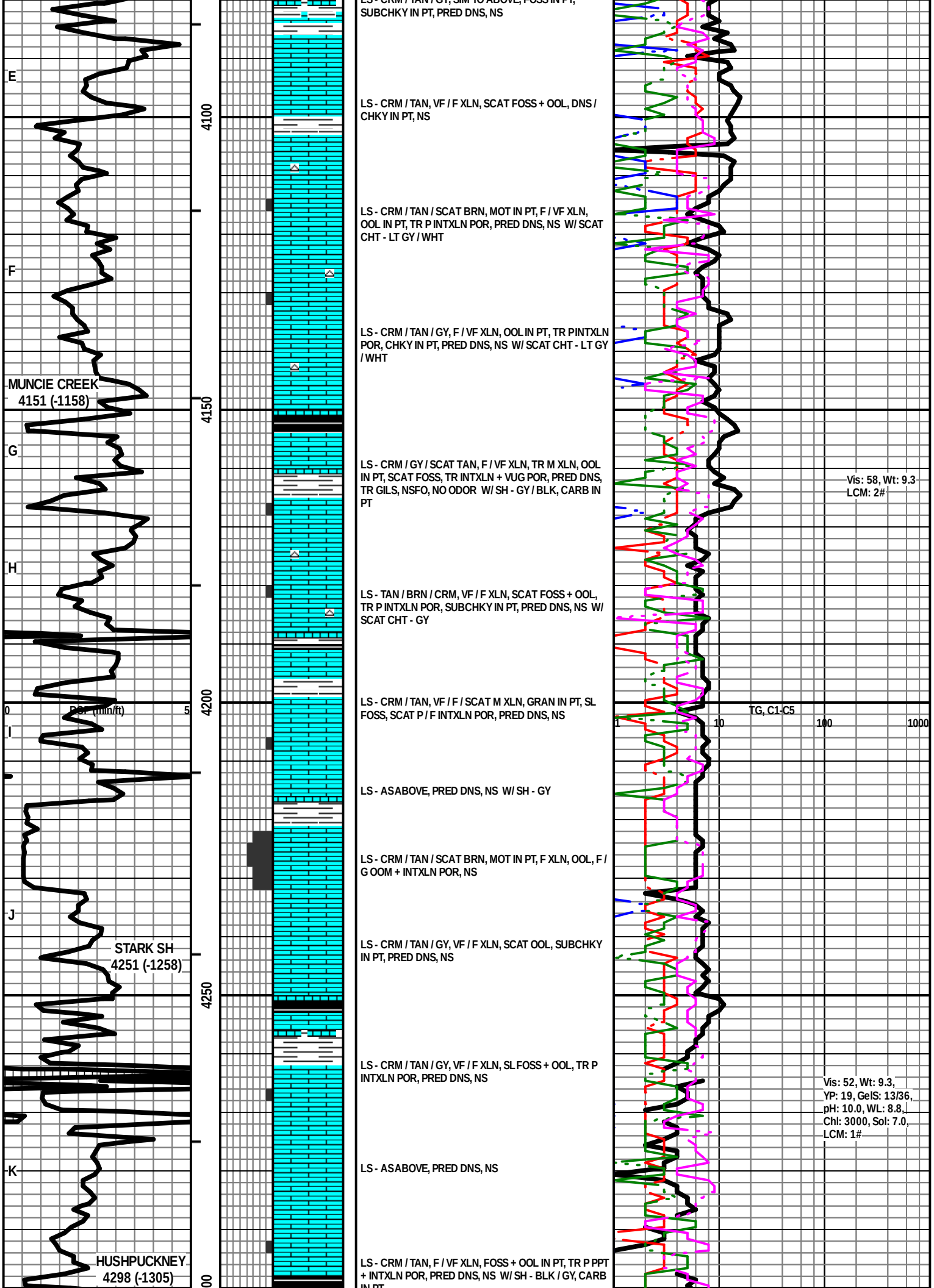
Dst_1_t
Dst_1_b
Dst

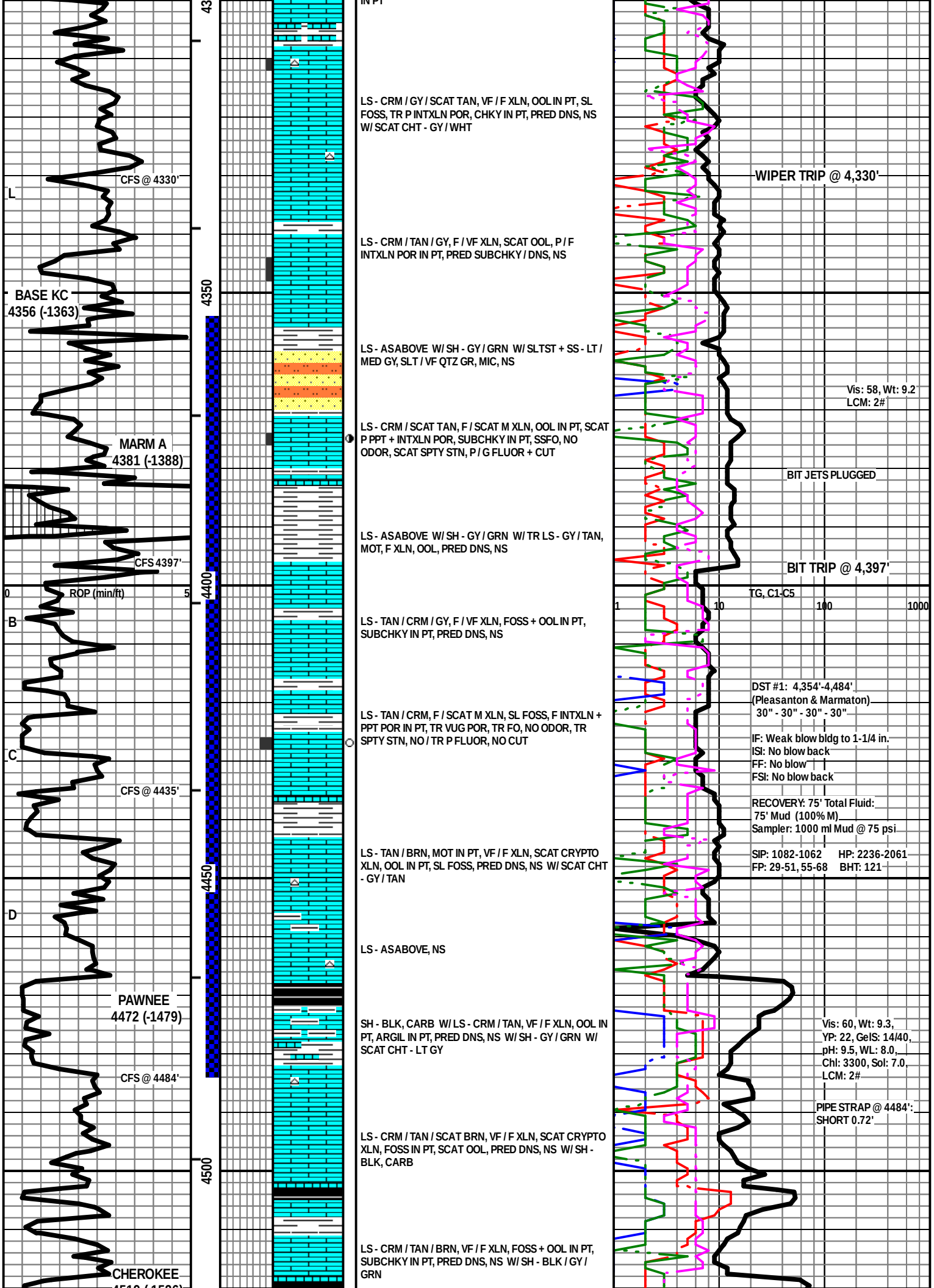
EVENTS

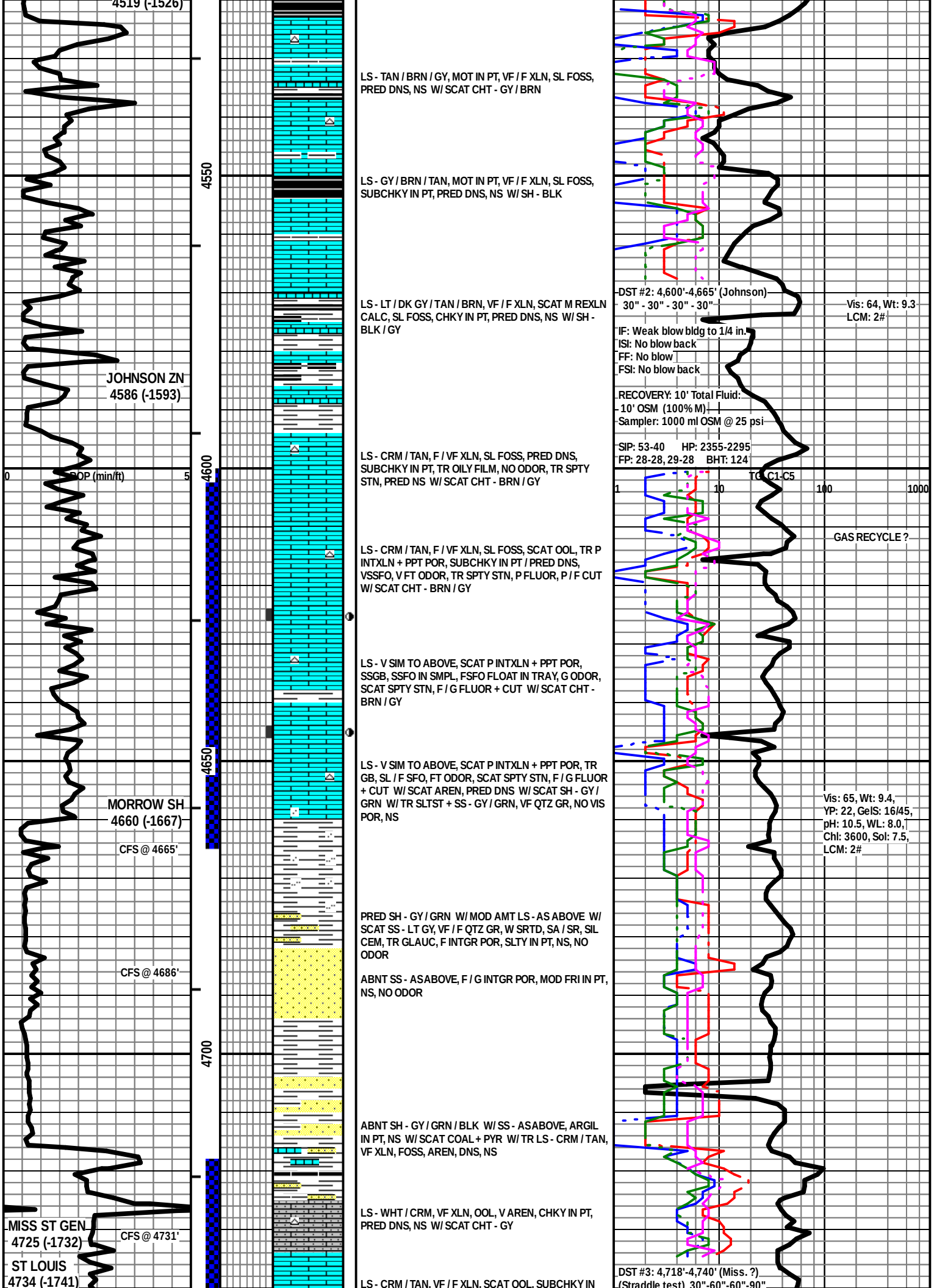
Rft
Sidewall
Conn

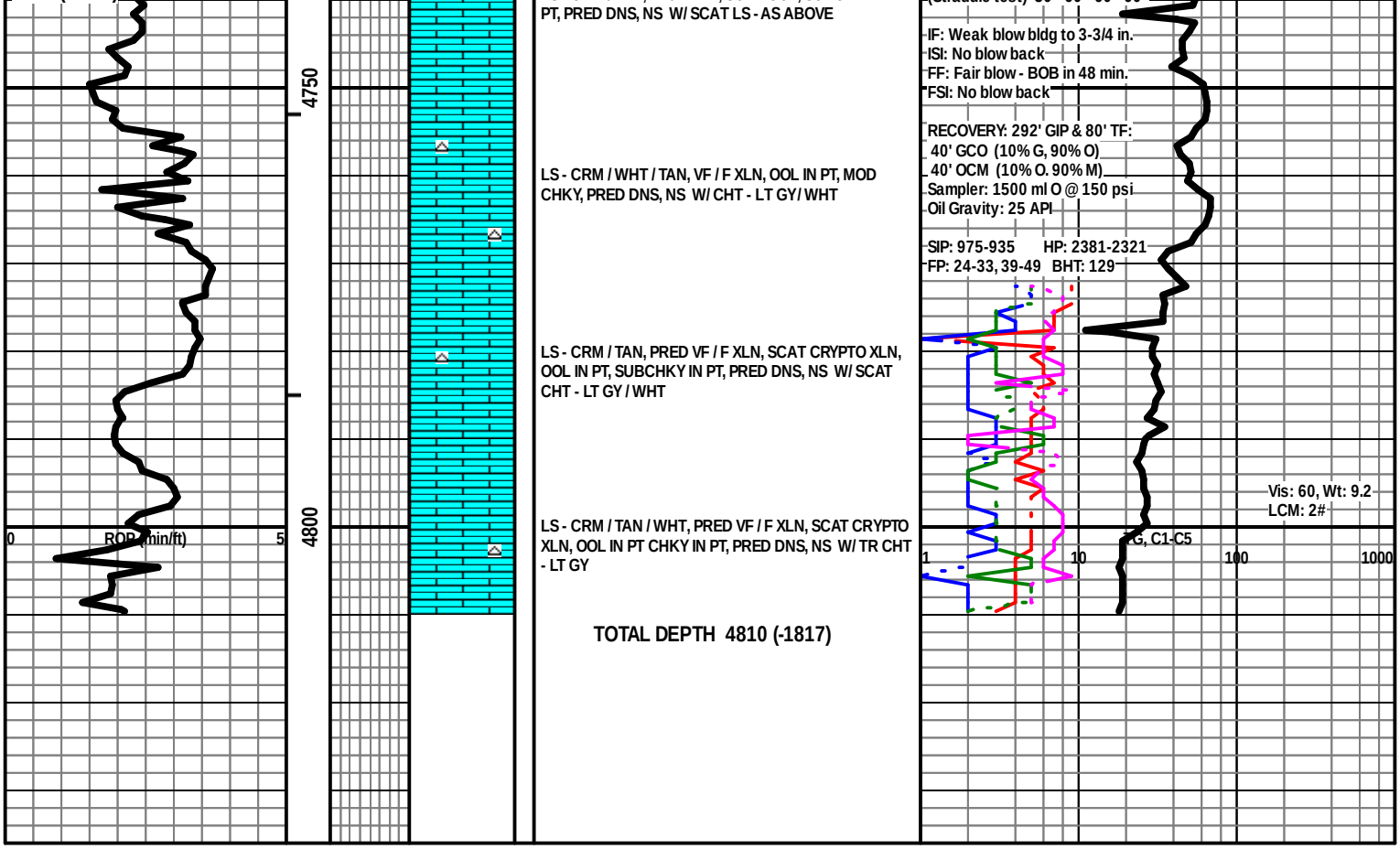

Curve Track 1
ROP (min/ft)
Depth
Porosity
24%
18%
12%
6%
Lithology
Oil Shows
Geological Descriptions
TG, C1-C5
TG (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)
0
ROP (min/ft)
5
TG, C1-C5
1
10
100
1000
DRLG WITH BIT #3: 7-7/8" NEW PDC
Ulterra-U516M; JETS: 15-15-15-15-15
DISPLACE MUD SYSTEM AT 3,000'
SHORT TRIP & WIRELINE SURVEY @ 3,510'
Vis: 71, Wt: 8.9,
YP: 21, GelS: 14/44,
pH: 9.0, WL: 10.4,
Chl: 11000, Sol: 3.6,
LCM: 2#
3700
3750
3800
3850
LS - CRM / TAN / GY, F XLN, FOSS IN PT, P / F PPT + INTXLN POR IN PT, SS ASPH, TR FO, NO ODOR, SCAT SPTY BLK STN
LS - SIM TO ABOVE, PRED DNS / SCAT CHKY W/ SH - GY


HEEBNER
3932 (-939)
TORONTO
3951 (-958)
LANSING
3975 (-982)
A
B
C
D
3900
3950
4000
4050
0
ROP (min/ft)
5
LS - CRM / GY, PRED VF / F XLN, SCAT M XLN, FOSS IN PT, SCAT OOL, SCAT P / TR F INTXLN POR, TR PPT POR, CHKY IN PT / DNS, NS
LS - CRM / TAN / GY, F / VF XLN, OOL IN PT, F / G PPT + VUG POR, F INTXLN POR, DNS / CHKY IN PT, SCAT GILS STN, NSFO, NO ODOR
LS - ASABOVE W/ LS - CRM / TAN, F / VF XLN, FOSS + OOL IN PT, P / F INTXLN POR, TR G POR, SL / F S GILS STN, NSFO, NO ODOR
SH - BLK, CARB W/ LS - TAN / BRN, VF / F XLN, TR FOSS, PRED DNS, NS W/ SH - GY, SLTYIN PT
LS - CRM / TAN / SCAT WHT, VF / F XLN, OOL IN PT, SCAT FOSS, P / F PPT + INTXLN POR, CHKY IN PT / DNS, NS W/ CHT / LT GY / WHT / TAN
LS - CRM / WHT, PRED VF / F XLN, SCAT M XLN, OOL IN PT, SCAT P/ F INTXLN + PPT POR, SUBCHKY IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / WHT
LS - ASABOVE, SUBCHKY / DNS, NS
LS - CRM / TAN / WHT, F / VF XLN, FOSS + OOL IN PT, TR P / F INTXLN POR, SCAT GILS + ASPH, SCAT SPTY BLK STN, NSFO, NO ODOR
LS - CRM / GY / WHT, VF / F XLN, SL FOSS, MOD CHKY, PRED DNS, NS W/ SCAT CHT - LT GY / WHT
LS - CRM / TAN / GY, MOT IN PT, F XLN, SCAT M REXLN CALC, SCAT OOL, PRED DNS, NS
LS - CRM / TAN / GY, SIM TO ABOVE, FOSS IN PT
Vis: 64, Wt: 9.1
LCM: 2#
TG, C1-C5
1
10
100
1000
Vis: 64, Wt: 9.1
LCM: 2#


E
F
G
H
I
J
K
MUNCIE CREEK
4151 (-1158)
STARK SH
4251 (-1258)
HUSHPUCKNEY
4298 (-1305)
4100
4150
4200
4250
0
ROP (min/ft)
5
TG, C1-C5
1
10
100
1000
LS - CRM / TAN / GY, SIM TO ABOVE, FOSS IN PT, SUBCHKY IN PT, PRED DNS, NS
LS - CRM / TAN, VF / F XLN, SCAT FOSS + OOL, DNS / CHKY IN PT, NS
LS - CRM / TAN / SCAT BRN, MOT IN PT, F / VF XLN, OOL IN PT, TR P INTXLN POR, PRED DNS, NS W/ SCAT CHT - LT GY / WHT
LS - CRM / TAN / GY, F / VF XLN, OOL IN PT, TR P INTXLN POR, CHKY IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / WHT
LS - CRM / GY / SCAT TAN, F / VF XLN, TR M XLN, OOL IN PT, SCAT FOSS, TR INTXLN + VUG POR, PRED DNS, TR GILS, NSFO, NO ODOR W/ SH - GY / BLK, CARB IN PT
Vis: 58, Wt: 9.3
LCM: 2#
LS - TAN / BRN / CRM, VF / F XLN, SCAT FOSS + OOL, TR P INTXLN POR, SUBCHKY IN PT, PRED DNS, NS W/ SCAT CHT - GY
LS - CRM / TAN, VF / F / SCAT M XLN, GRAN IN PT, SL FOSS, SCAT P / F INTXLN POR, PRED DNS, NS
LS - ASABOVE, PRED DNS, NS W/ SH - GY
LS - CRM / TAN / SCAT BRN, MOT IN PT, F XLN, OOL, F / G OOM + INTXLN POR, NS
LS - CRM / TAN / GY, VF / F XLN, SCAT OOL, SUBCHKY IN PT, PRED DNS, NS
LS - CRM / TAN / GY, VF / F XLN, SL FOSS + OOL, TR P INTXLN POR, PRED DNS, NS
Vis: 52, Wt: 9.3,
YP: 19, GelS: 13/36,
pH: 10.0, WL: 8.8,
Chl: 3000, Sol: 7.0,
LCM: 1#
LS - ASABOVE, PRED DNS, NS
LS - CRM / TAN, F / VF XLN, FOSS + OOL IN PT, TR P PPT + INTXLN POR, PRED DNS, NS W/ SH - BLK / GY, CARB IN PT


IN PT
LS - CRM / GY / SCAT TAN, VF / F XLN, OOL IN PT, SL FOSS, TR P INTXLN POR, CHKY IN PT, PRED DNS, NS W/ SCAT CHT - GY / WHT
LS - CRM / TAN / GY, F / VF XLN, SCAT OOL, P / F INTXLN POR IN PT, PRED SUBCHKY / DNS, NS
LS - ASABOVE W/ SH - GY / GRN W/ SLTST + SS - LT / MED GY, SLT / VF QTZ GR, MIC, NS
LS - CRM / SCAT TAN, F / SCAT M XLN, OOL IN PT, SCAT P PPT + INTXLN POR, SUBCHKY IN PT, SSFO, NO ODOR, SCAT SPTY STN, P / G FLUOR + CUT
LS - ASABOVE W/ SH - GY / GRN W/ TR LS - GY / TAN, MOT, F XLN, OOL, PRED DNS, NS
LS - TAN / CRM / GY, F / VF XLN, FOSS + OOL IN PT, SUBCHKY IN PT, PRED DNS, NS
LS - TAN / CRM, F / SCAT M XLN, SL FOSS, F INTXLN + PPT POR IN PT, TR VUG POR, TR FO, NO ODOR, TR SPTY STN, NO / TR P FLUOR, NO CUT
LS - TAN / BRN, MOT IN PT, VF / F XLN, SCAT CRYPTO XLN, OOL IN PT, SL FOSS, PRED DNS, NS W/ SCAT CHT - GY / TAN
LS - ASABOVE, NS
SH - BLK, CARB W/ LS - CRM / TAN, VF / F XLN, OOL IN PT, ARGIL IN PT, PRED DNS, NS W/ SH - GY / GRN W/ SCAT CHT - LT GY
LS - CRM / TAN / SCAT BRN, VF / F XLN, SCAT CRYPTO XLN, FOSS IN PT, SCAT OOL, PRED DNS, NS W/ SH - BLK, CARB
LS - CRM / TAN / BRN, VF / F XLN, FOSS + OOL IN PT, SUBCHKY IN PT, PRED DNS, NS W/ SH - BLK / GY / GRN
CFS @ 4330'
L
BASE KC
4356 (-1363)
MARM A
4381 (-1388)
CFS 4397'
0
ROP (min/ft)
5
B
C
CFS @ 4435'
D
PAWNEE
4472 (-1479)
CFS @ 4484'
CHEROKEE
4350
4400
4450
4500
WIPER TRIP @ 4,330'
Vis: 58, Wt: 9.2
LCM: 2#
BIT JETS PLUGGED
BIT TRIP @ 4,397'
TG, C1-C5
1
10
100
1000
DST #1: 4,354'-4,484'
(Pleasanton & Marmaton)
30" - 30" - 30" - 30"
IF: Weak blow bldg to 1-1/4 in.
ISI: No blow back
FF: No blow
FSI: No blow back
RECOVERY: 75' Total Fluid:
75' Mud (100% M)
Sampler: 1000 ml Mud @ 75 psi
SIP: 1082-1062 HP: 2236-2061
FP: 29-51, 55-68 BHT: 121
Vis: 60, Wt: 9.3,
YP: 22, GelS: 14/40,
pH: 9.5, WL: 8.0,
Chl: 3300, Sol: 7.0,
LCM: 2#
PIPE STRAP @ 4484':
SHORT 0.72'


4519 (-1526)
4550
JOHNSON ZN
4586 (-1593)
4600
0
ROP (min/ft)
5
4650
MORROW SH
4660 (-1667)
CFS @ 4665'
CFS @ 4686'
4700
MISS ST GEN
4725 (-1732)
CFS @ 4731'
ST LOUIS
4734 (-1741)
LS - TAN / BRN / GY, MOT IN PT, VF / F XLN, SL FOSS, PRED DNS, NS W/ SCAT CHT - GY / BRN
LS - GY / BRN / TAN, MOT IN PT, VF / F XLN, SL FOSS, SUBCHKY IN PT, PRED DNS, NS W/ SH - BLK
LS - LT / DK GY / TAN / BRN, VF / F XLN, SCAT M REXLN CALC, SL FOSS, CHKY IN PT, PRED DNS, NS W/ SH - BLK / GY
LS - CRM / TAN, F / VF XLN, SL FOSS, PRED DNS, SUBCHKY IN PT, TR OILY FILM, NO ODOR, TR SPTY STN, PRED NS W/ SCAT CHT - BRN / GY
LS - CRM / TAN, F / VF XLN, SL FOSS, SCAT OOL, TR P INTXLN + PPT POR, SUBCHKY IN PT / PRED DNS, VSSFO, V FT ODOR, TR SPTY STN, P FLUOR, P / F CUT W/ SCAT CHT - BRN / GY
LS - V SIM TO ABOVE, SCAT P INTXLN + PPT POR, SSGB, SSFO IN SMPL, FSFO FLOAT IN TRAY, G ODOR, SCAT SPTY STN, F / G FLUOR + CUT W/ SCAT CHT - BRN / GY
LS - V SIM TO ABOVE, SCAT P INTXLN + PPT POR, TR GB, SL / F SFO, FT ODOR, SCAT SPTY STN, F / G FLUOR + CUT W/ SCAT AREN, PRED DNS W/ SCAT SH - GY / GRN W/ TR SLTST + SS - GY / GRN, VF QTZ GR, NO VIS POR, NS
PRED SH - GY / GRN W/ MOD AMT LS - AS ABOVE W/ SCAT SS - LT GY, VF / F QTZ GR, W SRTD, SA / SR, SIL CEM, TR GLAUC, F INTGR POR, SLTY IN PT, NS, NO ODOR
ABNT SS - AS ABOVE, F / G INTGR POR, MOD FRI IN PT, NS, NO ODOR
ABNT SH - GY / GRN / BLK W/ SS - AS ABOVE, ARGIL IN PT, NS W/ SCAT COAL + PYR W/ TR LS - CRM / TAN, VF XLN, FOSS, AREN, DNS, NS
LS - WHT / CRM, VF XLN, OOL, V AREN, CHKY IN PT, PRED DNS, NS W/ SCAT CHT - GY
LS - CRM / TAN, VF / F XLN, SCAT OOL, SUBCHKY IN
DST #2: 4,600'-4,665' (Johnson)
30" - 30" - 30" - 30"
IF: Weak blow bldg to 1/4 in.
ISI: No blow back
FF: No blow
FSI: No blow back
RECOVERY: 10' Total Fluid:
10' OSM (100% M)
Sampler: 1000 ml OSM @ 25 psi
SIP: 53-40 HP: 2355-2295
FP: 28-28, 29-28 BHT: 124
Vis: 64, Wt: 9.3
LCM: 2#
TG: C1-C5
1
10
100
1000
GAS RECYCLE ?
Vis: 65, Wt: 9.4,
YP: 22, GelS: 16/45,
pH: 10.5, WL: 8.0,
Chl: 3600, Sol: 7.5,
LCM: 2#
DST #3: 4,718'-4,740' (Miss. ?)
(Straddle test) 30"-60"-60"-90"


PT, PRED DNS, NS W/ SCAT LS - AS ABOVE
IF: Weak blow bldg to 3-3/4 in.
ISI: No blow back
FF: Fair blow - BOB in 48 min.
FSI: No blow back
RECOVERY: 292' GIP & 80' TF:
40' GCO (10% G, 90% O)
40' OCM (10% O. 90% M)
Sampler: 1500 ml O @ 150 psi
Oil Gravity: 25 API
SIP: 975-935 HP: 2381-2321
FP: 24-33, 39-49 BHT: 129
LS - CRM / WHT / TAN, VF / F XLN, OOL IN PT, MOD CHKY, PRED DNS, NS W/ CHT - LT GY/ WHT
LS - CRM / TAN, PRED VF / F XLN, SCAT CRYPTO XLN, OOL IN PT, SUBCHKY IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / WHT
LS - CRM / TAN / WHT, PRED VF / F XLN, SCAT CRYPTO XLN, OOL IN PT CHKY IN PT, PRED DNS, NS W/ TR CHT - LT GY
TOTAL DEPTH 4810 (-1817)
Vis: 60, Wt: 9.2
LCM: 2#
4750
4800
0
ROP (min/ft)
5
1
10
100
1000
C1-C5

3816
3722

CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 49474
LOCATION Oakley, KS
FOREMAN Kelly Gabel

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #805293

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-8-15	7396	Ellis 3-12	12	17	33W	Scott KS

CUSTOMER: Steinbar
MAILING ADDRESS:
CITY | STATE | ZIP CODE:

Scott City N to 4 to 83 to 1 W 1/4 S E N & W into

TRUCK #	DRIVER	TRUCK #	DRIVER
731	Jeremy	Jones	
693	Janice		
640			

JOB TYPE Surface HOLE SIZE 12¼ HOLE DEPTH 319 CASING SIZE & WEIGHT 8⅝ 24#
CASING DEPTH 319 DRILL PIPE TUBING OTHER
SLURRY WEIGHT 14.8 SLURRY VOL WATER gal/sk CEMENT LEFT in CASING 20'
DISPLACEMENT 19 DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safety meeting, rigged up on Sterling #5, broke circulation, mixed 215 SKS com 3% cc 2% gel, displaced with 19 bbl water, shut in

Cement did circulate
Approx 5 bbl to pit

Thank You
Kelly + Crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	1500.00
CE0002	40 mi	MILEAGE	7.15	286.00
CE0210	10.81 ton	ton mileage delivery	1.75	756.70
CC5871	215 SKS	Surface Blend II (com 3+2)	23.00	4945.00
			Sub	7487.70
			Less 30%	2246.31
			total	5241.39
			SALES TAX	294.23
			ESTIMATED TOTAL	$ 5535.62

Ravin 3737

AUTHORIZTION Alan Leffe TITLE DATE 8-8-15

I acknowledge that the payment 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

GP

3920
3833

1A

CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 47816
LOCATION Oakley KS
FOREMAN Jerry

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #805394 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-14-15	7396	Ellis 3-12	12	17	33w	Scott

CUSTOMER: Stelbar
MAILING ADDRESS:
CITY / STATE / ZIP CODE:

40 83 of 1/4 W 1/4 S W into

TRUCK #	DRIVER	TRUCK #	DRIVER
753	Michael		
566	Keith C		

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4660 CASING SIZE & WEIGHT
CASING DEPTH DRILL PIPE 4 1/2 TUBING OTHER
SLURRY WEIGHT 13.8 SLURRY VOL 1.42 WATER gal/sk CEMENT LEFT in CASING
DISPLACEMENT DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safty meeting & rig up on Sterling #5 plug as ordered with 290 sks 60/40 poz mix 4% gel 1/4# flo seal
50 sks @ 2340'
80 sks @ 1550'
50 sks @ 780'
40 sks @ 350'
20 sks @ 60'
30 sks RH & 20 sks MH

Thank you
Jerry + Crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	1500.00
CE0002	40	MILEAGE	7.15	286.00
CE0711	12.47	ton mileage delivery	1.73	87.290
CC5829	290 sks	Lite weight V (60/40 4%)	16.00	4640.00
CC6075	73 #	flo seal	2.00	146.00
			Subtotal	7444.90
			less 30% disc	2233.47
			subtotal	5211.43
			SALES TAX	284.76
			ESTIMATED TOTAL	5496.19

Ravin 3737

AUTHORIZTION Alan Lotte TITLE DATE

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