

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1270852  
OIL & GAS CONSERVATION DIVISION

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 # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1270852



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

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

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i>			PRODUCTION INTERVAL: Top _____ Bottom _____	

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

TUBING RECORD:	Size:	Set At:	Packer At:
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Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	Dairy 2-18
Doc ID	1270852

All Electric Logs Run

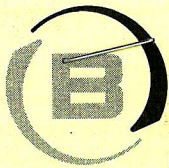
Comp. Sonic w/Integrated Transit Time True Vertical Depth Log
Comp. Sonic w/Integrated Transit Time Log
Compact Photo Density Comp. Neutron True Vertical Depth Log
Compact Photo Density Comp. Neutron Microresistivity Log
Array Induction Elec. Log True Vertical Depth Log
Array Induction Shallow Focused Elec. Log
Caliper Log
Borehole Verticality Log
Radial Sector Bond Log w/Gamma Ray
Microresistivity Log True Vertical Depth
Microresistivity Log

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	Dairy 2-18
Doc ID	1270852

Tops

Name	Top	Datum
B/Anhydrite	2352	+645
Heebner	3932	-935
Lansing	3980	-983
Mun Cr Sh	4158	-1161
Stark Sh	4253	-1256
Hush Sh	4295	-1298
Marmaton	4378	-1381
Pawnee	4465	-1468
Cher Sh	4513	-1516
Lwr Ck Sh	4544	-1547
John Zone	4577	-1580
Mw Sh	4648	-1651
B/Penn Sd	4663	-1666
Miss	4729	-1732





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

PRODUCTION

FIELD SERVICE TICKET  
1718 12688 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <u>8-29-15</u> DISTRICT _____		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:								
CUSTOMER <u>Stalbor Oil Corp., INC.</u>		LEASE <u>Dairy</u>		WELL NO. <u>2-18</u>						
ADDRESS _____		COUNTY <u>Scott</u>		STATE <u>Ks</u>						
CITY _____ STATE _____		SERVICE CREW <u>Scott, Mike, Bryan, Martin</u>								
AUTHORIZED BY <u>Ty Lud</u>		JOB TYPE: <u>5 1/2 long string 2 stage CNG</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>77463</u>	<u>1.75</u>					ARRIVED AT JOB	<u>8/28/15</u>			<u>9:30</u>
<u>73768</u>	<u>.5</u>					START OPERATION	<u>8/29/15</u>			<u>1:55</u>
<u>37724</u>	<u>.75</u>					FINISH OPERATION	<u>8/29/15</u>			<u>7:45</u>
						RELEASED	<u>8/29/15</u>			<u>9:00</u>
						MILES FROM STATION TO WELL _____				

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA7 Cement	SK	150		2550.00
CP101	A-Con Blend Common	SK	300		5400.00
CP100C	Common Cement	SK	170		1970.00
CC113	Gypsum	lb	705		578.75
CC111	S.G.H	lb	828		414.00
CC129	FLA-322	lb	106		795.00
CC105	C-41P	lb	36		144.00
CC201	Gulsonite	lb	750		502.50
CC102	Celluloflake	lb	143		529.10
CC109	Calcium chloride	lb	1072		1175.60
CF1251	Auto fill float shoe 5 1/2	ea	1		360.00
CF451	Two stage Cement collar 5 1/2	ea	1		4500.00
CF1901	5 1/2 Basket	ea	1		290.00
CF1651	Turbolizer 5 1/2	ea	20		2700.00
CF3000	Industrial Rubber threadlock	ea	1		34.00
CC155	Super Flush II	gal	500		765.00
E101	Heavy Equipment Mileage	MI	300		2250.00
CF240	Blending & Mixing service	SK	570		798.00
E113	PROP + BULK Delivery	TM	2686		6700.00
SUB TOTAL					

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<u>16</u>

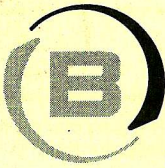
SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO. \_\_\_\_\_

SURFACE

FIELD SERVICE TICKET

1718 12706 A



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

18-17-32

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <b>8-23-15</b> DISTRICT <b>Pratt</b>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <b>Stellar oil corp inc</b>		LEASE <b>DAILY</b> WELL NO. <b>2-18</b>							
ADDRESS		COUNTY <b>SCOTT</b> STATE <b>KS</b>							
CITY STATE		SERVICE CREW <b>MATTAL, GIANTS, McGINN</b>							
AUTHORIZED BY		JOB TYPE: <b>CNW 8 5/8 SURFACE</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<b>27467</b>	<b>.5</b>						<b>8-23-15</b>	<b>PM</b>	<b>6:00</b>
						ARRIVED AT JOB		<b>PM</b>	<b>10:40</b>
<b>21010</b>	<b>.5</b>					START OPERATION	<b>8-23</b>	<b>AM</b>	<b>12:35</b>
						FINISH OPERATION		<b>PM</b>	<b>1:00</b>
						RELEASED		<b>AM</b>	<b>1:30</b>
						MILES FROM STATION TO WELL			<b>85</b>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: X Alan Lotth  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<b>CP103</b>	<b>60/40 P02</b>	<b>SK</b>	<b>250</b>		<b>3,000 00</b>
<b>CC109</b>	<b>calcium chloride</b>	<b>lb</b>	<b>645</b>		<b>677 25</b>
<b>CC102</b>	<b>cellulose</b>	<b>lb</b>	<b>63</b>		<b>233 10</b>
<del>CP153</del>	<del>wood plug 8 5/8</del>	<del>ea</del>	<del>1</del>		
<b>E101</b>	<b>HEAVY CR MILLS</b>	<b>mi</b>	<b>170</b>		<b>1,275 00</b>
<b>CC240</b>	<b>Blend + mix charge</b>	<b>sq</b>	<b>250</b>		<b>350 00</b>
<b>E113</b>	<b>PROP + bulk dol.</b>	<b>TM</b>	<b>914</b>		<b>2,284 38</b>
<b>CC200</b>	<b>DEPTH charge 0-5W</b>	<b>4hr</b>	<b>1</b>		<b>1,000 00</b>
<del>CC250</del>	<del>plug container</del>	<del>sub</del>	<del>1</del>		
<b>E100</b>	<b>P.M. MILLS</b>	<b>mi</b>	<b>85</b>		<b>382 50</b>
<b>S003</b>	<b>SUPERVISOR</b>	<b>ea</b>	<b>1</b>		<b>175 00</b>
SUB TOTAL					<b>9,377 23</b>

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<b>4,219.75</b>

SERVICE REPRESENTATIVE <b>MIKE MARRU</b>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>X Alan Lotth</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	--

FIELD SERVICE ORDER NO.



## DRILL STEM TEST REPORT

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

1625 N Waterfront Pkwy  
Ste 200  
Wichita, KS 67206

ATTN: Dave Goldak

### **Dairy #2-18**

### **18-17s-32w Scott,KS**

Start Date: 2015.08.26 @ 06:42:00

End Date: 2015.08.26 @ 14:01:30

Job Ticket #: 61822                      DST #: 1

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

Printed: 2015.08.28 @ 13:56:09





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Stelbar Oil Corporation, Inc  
1625 N Waterfront Pkwy  
Ste 200  
Wichita, KS 67206  
ATTN: Dave Goldak

**18-17s-32w Scott,KS**

**Dairy #2-18**

Job Ticket: 61822

**DST#: 1**

Test Start: 2015.08.26 @ 06:42:00

## GENERAL INFORMATION:

Formation: **Pleasanton - Marmato**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:00:00

Time Test Ended: 14:01:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

**Interval: 4354.00 ft (KB) To 4430.00 ft (KB) (TVD)**

Reference Elevations: 2997.00 ft (KB)

Total Depth: 4430.00 ft (KB) (TVD)

2984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

**Serial #: 8365**

**Inside**

Press@RunDepth: 25.55 psig @ 4355.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.26

End Date:

2015.08.26

Last Calib.:

2015.08.26

Start Time:

06:42:05

End Time:

14:01:29

Time On Btm:

2015.08.26 @ 09:59:45

Time Off Btm:

2015.08.26 @ 12:10:45

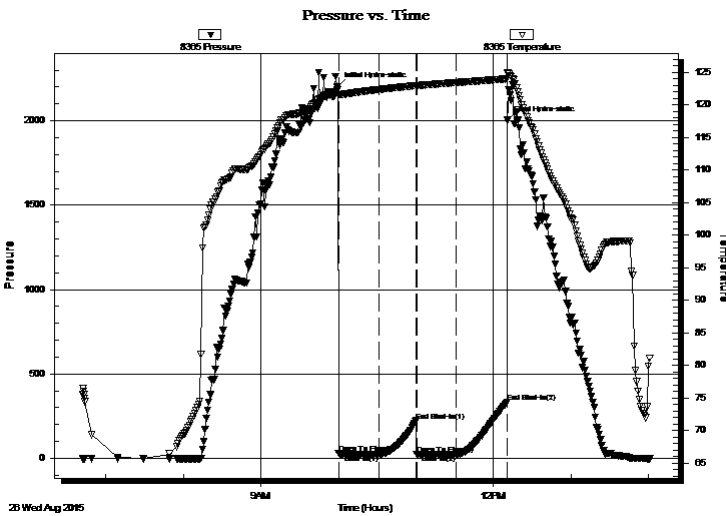
TEST COMMENT: IF: 1/4" blow, died @ 14 min.

IS: No return

FF: No blow.

FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2201.83	122.30	Initial Hydro-static
1	28.94	121.53	Open To Flow (1)
32	24.96	122.34	Shut-In(1)
61	222.39	122.95	End Shut-In(1)
61	25.77	122.96	Open To Flow (2)
92	25.55	123.43	Shut-In(2)
131	333.08	123.99	End Shut-In(2)
131	2003.05	124.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Stelbar Oil Corporation, Inc

**18-17s-32w Scott, KS**

1625 N Waterfront Pkwy  
Ste 200  
Wichita, KS 67206  
ATTN: Dave Goldak

**Dairy #2-18**

Job Ticket: 61822

**DST#: 1**

Test Start: 2015.08.26 @ 06:42:00

## GENERAL INFORMATION:

Formation: **Pleasanton - Marmato**

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Total Depth: 4430.00 ft (KB) (TVD)

2984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

**Serial #: 8522 Outside**

Press@RunDepth: psig @ 4355.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.26

End Date:

2015.08.26

Last Calib.:

2015.08.26

Start Time: 06:42:05

End Time:

14:01:29

Time On Btm:

Time Off Btm:

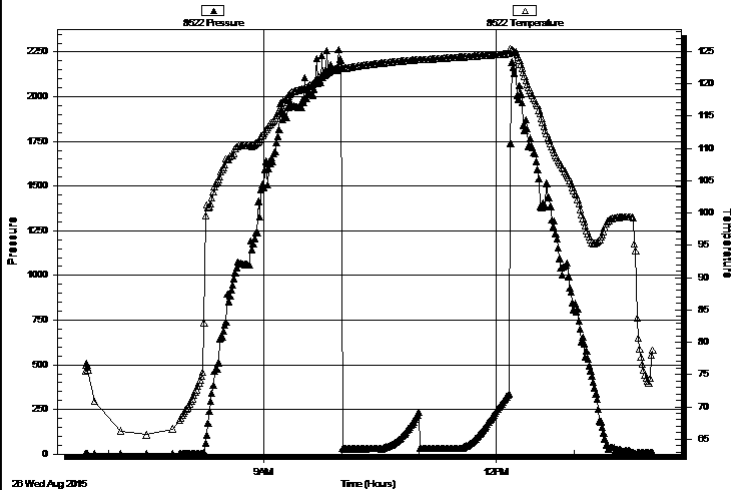
TEST COMMENT: IF: 1/4" blow , died @ 14 min.

IS: No return

FF: No blow .

FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Stelbar Oil Corporation, Inc

**18-17s-32w Scott,KS**

1625 N Waterfront Pkwy  
Ste 200  
Wichita, KS 67206  
ATTN: Dave Goldak

**Dairy #2-18**

Job Ticket: 61822

**DST#: 1**

Test Start: 2015.08.26 @ 06:42:00

## Tool Information

Drill Pipe:	Length: 4272.00 ft	Diameter: 3.80 inches	Volume: 59.92 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: 25000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4354.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4326.00	
Shut In Tool	5.00			4331.00	
Sampler	2.00			4333.00	
Hydraulic tool	5.00			4338.00	
Jars	5.00			4343.00	
Safety Joint	2.00			4345.00	
Packer	5.00			4350.00	29.00 Bottom Of Top Packer
Packer	4.00			4354.00	
Stubb	1.00			4355.00	
Recorder	0.00	8365	Inside	4355.00	
Recorder	0.00	8522	Outside	4355.00	
Perforations	7.00			4362.00	
Change Over Sub	1.00			4363.00	
Drill Pipe	63.00			4426.00	
Change Over Sub	1.00			4427.00	
Bullnose	3.00			4430.00	76.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>105.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Stelbar Oil Corporation, Inc

**18-17s-32w Scott,KS**

1625 N Waterfront Pkw y  
Ste 200  
Wichita, KS 67206  
ATTN: Dave Goldak

**Dairy #2-18**

Job Ticket: 61822

**DST#: 1**

Test Start: 2015.08.26 @ 06:42:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler data- 2000ml Mud

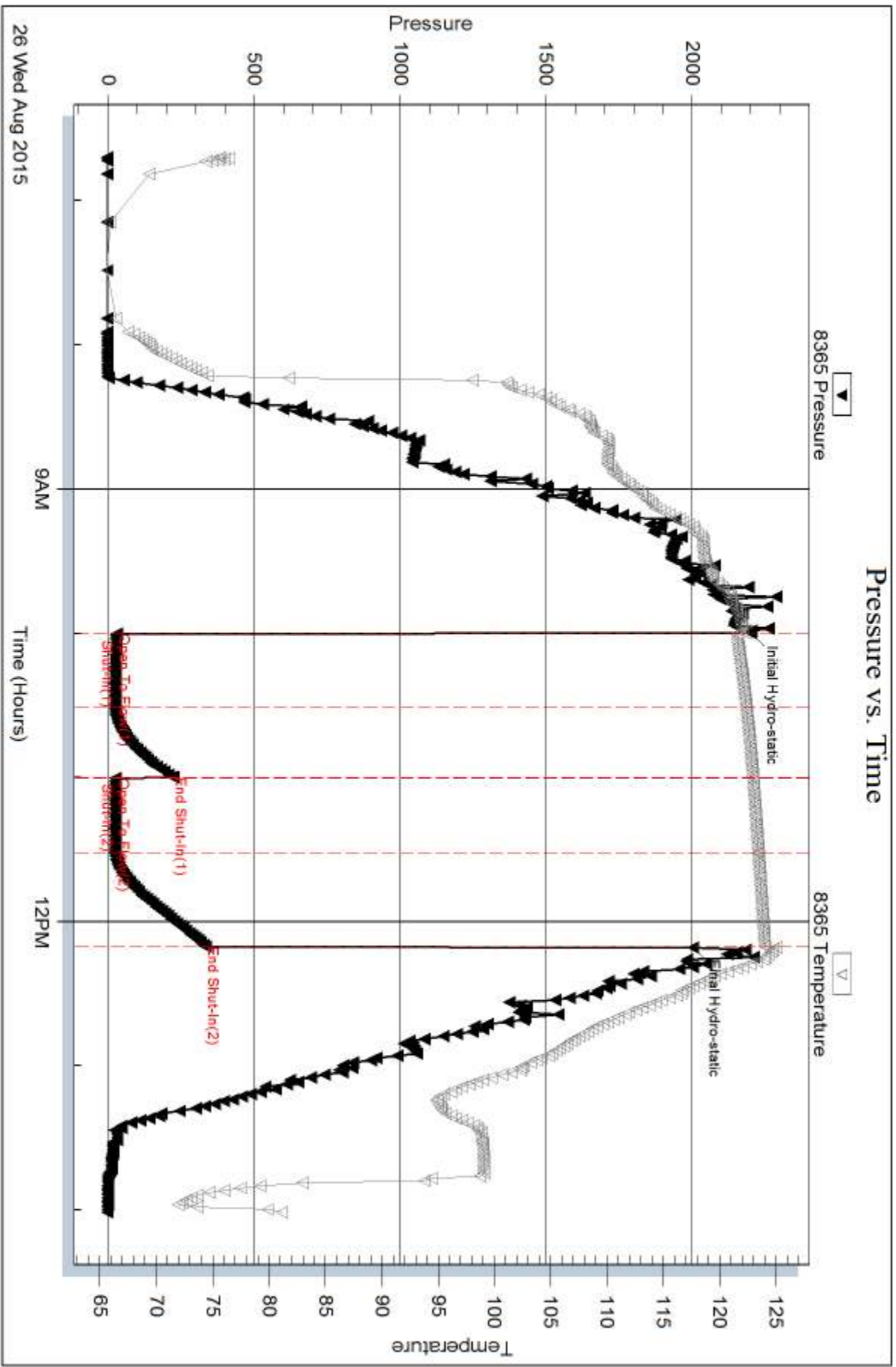
Serial #: 8365

Inside

Stalbar Oil Corporation, Inc

Dairy #2-18

DST Test Number: 1

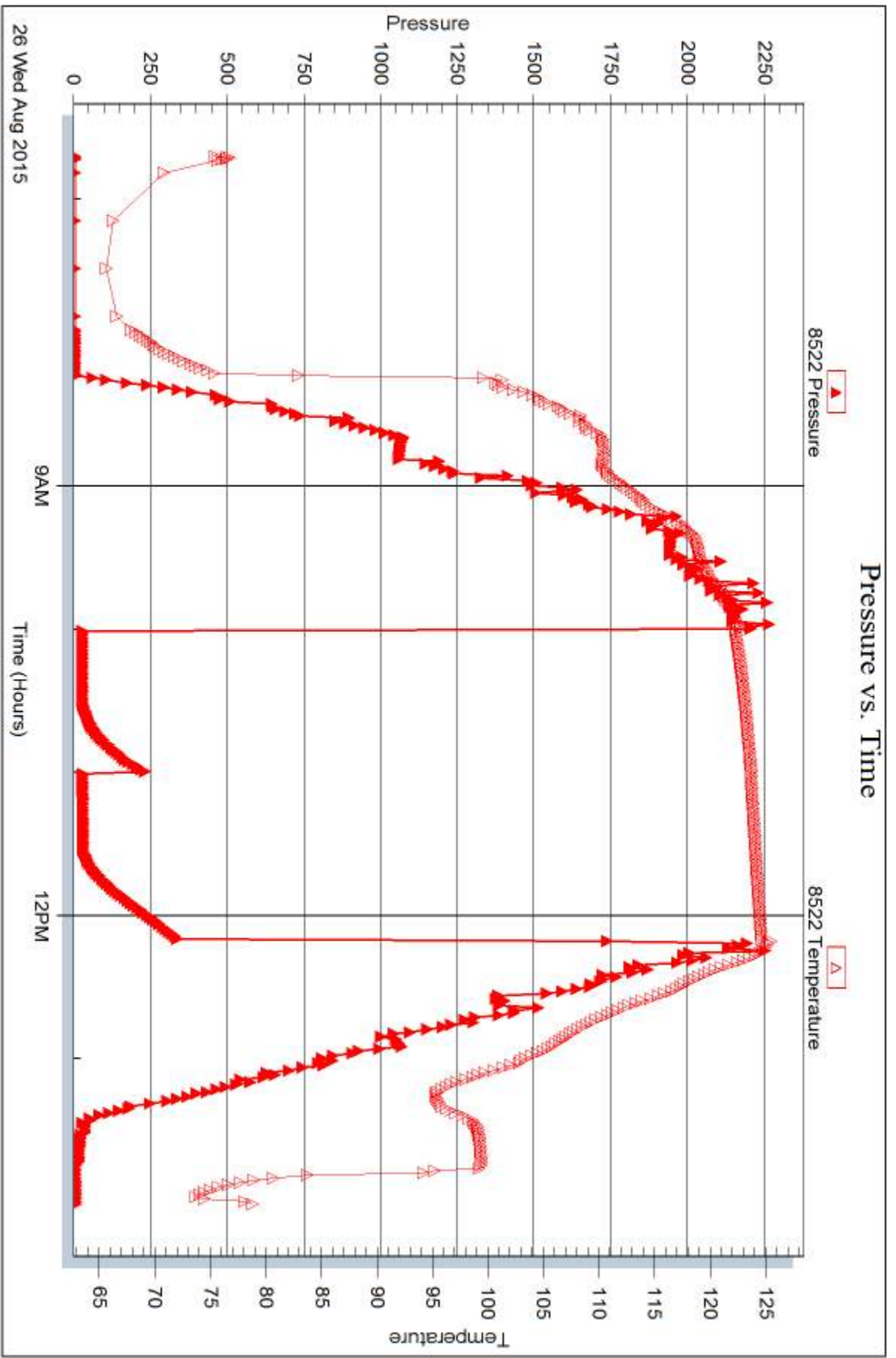


Serial #: 8522

Outside Stellar Oil Corporation, Inc

Dairy #2-18

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 61822

Printed: 2015.08.28 @ 13:56:11



## DRILL STEM TEST REPORT

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

1625 N Waterfront Pkwy  
Ste 200  
Wichita, KS 67206

ATTN: Dave Goldak

### **Dairy #2-18**

#### **18-17s-32w Scott,KS**

Start Date: 2015.08.27 @ 04:36:00

End Date: 2015.08.27 @ 14:19:00

Job Ticket #: 61823                      DST #: 2

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

Printed: 2015.08.28 @ 13:48:56

Stelbar Oil Corporation, Inc  
18-17s-32w Scott,KS  
Dairy #2-18  
DST # 2  
Basal Sand  
2015.08.27



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Stelbar Oil Corporation, Inc

**18-17s-32w Scott,KS**

1625 N Waterfront Pkwy  
Ste 200  
Wichita, KS 67206  
ATTN: Dave Goldak

**Dairy #2-18**

Job Ticket: 61823

**DST#: 2**

Test Start: 2015.08.27 @ 04:36:00

## GENERAL INFORMATION:

Formation: **Basal Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:27:45

Time Test Ended: 14:19:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

**Interval: 4652.00 ft (KB) To 4695.00 ft (KB) (TVD)**

Reference Elevations: 2997.00 ft (KB)

Total Depth: 4695.00 ft (KB) (TVD)

2984.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

**Serial #: 8365 Inside**

Press@RunDepth: 112.55 psig @ 4653.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.08.27

End Date:

2015.08.27

Last Calib.:

2015.08.27

Start Time: 04:36:05

End Time:

14:19:00

Time On Btm:

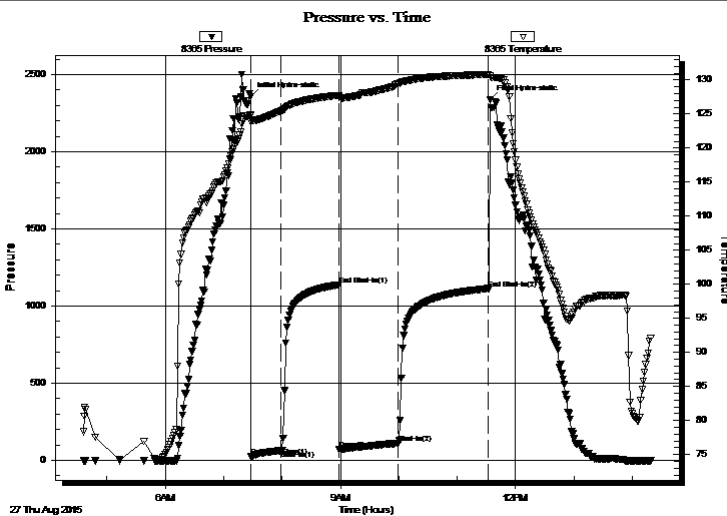
2015.08.27 @ 07:27:30

Time Off Btm:

2015.08.27 @ 11:33:45

TEST COMMENT: IF: 4" blow.  
IS: No return.  
FF: 9" blow.  
FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2358.37	124.83	Initial Hydro-static
1	24.54	123.91	Open To Flow (1)
31	63.15	125.42	Shut-In(1)
91	1137.56	127.76	End Shut-In(1)
91	71.70	127.48	Open To Flow (2)
152	112.55	129.45	Shut-In(2)
245	1113.53	130.83	End Shut-In(2)
247	2335.29	130.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
170.00	gocm 10g 15o 75m	1.84
55.00	oil 100o	0.77

## Gas Rates

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

\* Recovery from multiple tests





# DRILL STEM TEST REPORT

Stelbar Oil Corporation, Inc  
 1625 N Waterfront Pkwy  
 Ste 200  
 Wichita, KS 67206  
 ATTN: Dave Goldak

18-17s-32w Scott,KS

Dairy #2-18

Job Ticket: 61823

DST#: 2

Test Start: 2015.08.27 @ 04:36:00

## GENERAL INFORMATION:

Formation: **Basal Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:27:45

Time Test Ended: 14:19:00

Interval: **4652.00 ft (KB) To 4695.00 ft (KB) (TVD)**

Total Depth: 4695.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Reference Elevations: 2997.00 ft (KB)

2984.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: **8522** Outside

Press@RunDepth: psig @ 4653.00 ft (KB)

Start Date: 2015.08.27 End Date: 2015.08.27

Start Time: 04:36:05 End Time: 14:19:00

Capacity: 8000.00 psig

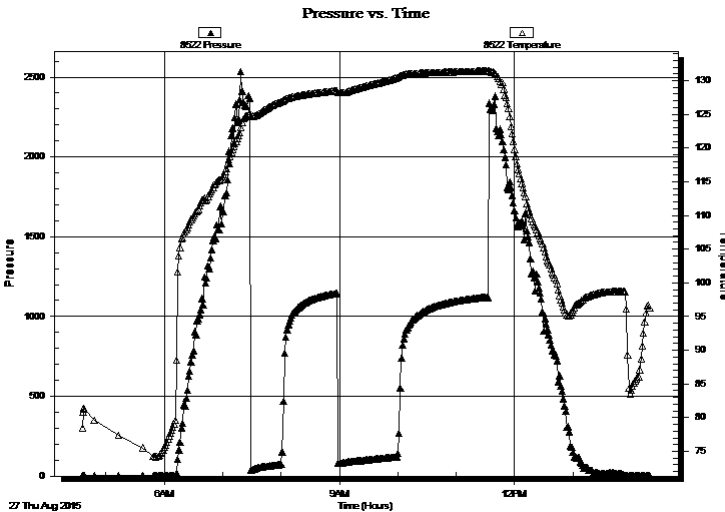
Last Calib.: 2015.08.27

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 4" blow.  
 IS: No return.  
 FF: 9" blow.  
 FS: No return.

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
170.00	gocm 10g 15o 75m	1.84
55.00	oil 100o	0.77

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Stelbar Oil Corporation, Inc

**18-17s-32w Scott,KS**

1625 N Waterfront Pkwy  
Ste 200  
Wichita, KS 67206  
ATTN: Dave Goldak

**Dairy #2-18**

Job Ticket: 61823

**DST#: 2**

Test Start: 2015.08.27 @ 04:36:00

## Tool Information

Drill Pipe:	Length: 4589.00 ft	Diameter: 3.80 inches	Volume: 64.37 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:	25000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 64.67 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4652.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 ft				
Tool Length:	72.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4624.00	
Shut In Tool	5.00			4629.00	
Sampler	2.00			4631.00	
Hydraulic tool	5.00			4636.00	
Jars	5.00			4641.00	
Safety Joint	2.00			4643.00	
Packer	5.00			4648.00	29.00 Bottom Of Top Packer
Packer	4.00			4652.00	
Stubb	1.00			4653.00	
Recorder	0.00	8365	Inside	4653.00	
Recorder	0.00	8522	Outside	4653.00	
Perforations	6.00			4659.00	
Change Over Sub	1.00			4660.00	
Drill Pipe	31.00			4691.00	
Change Over Sub	1.00			4692.00	
Bullnose	3.00			4695.00	43.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>72.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Stelbar Oil Corporation, Inc

**18-17s-32w Scott,KS**

1625 N Waterfront Pkw y  
Ste 200  
Wichita, KS 67206  
ATTN: Dave Goldak

**Dairy #2-18**

Job Ticket: 61823

**DST#: 2**

Test Start: 2015.08.27 @ 04:36:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 63.00 sec/qt

Water Loss: 7.99 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
170.00	gocm 10g 15o 75m	1.838
55.00	oil 100o	0.772

Total Length: 225.00 ft      Total Volume: 2.610 bbl

Num Fluid Samples: 0

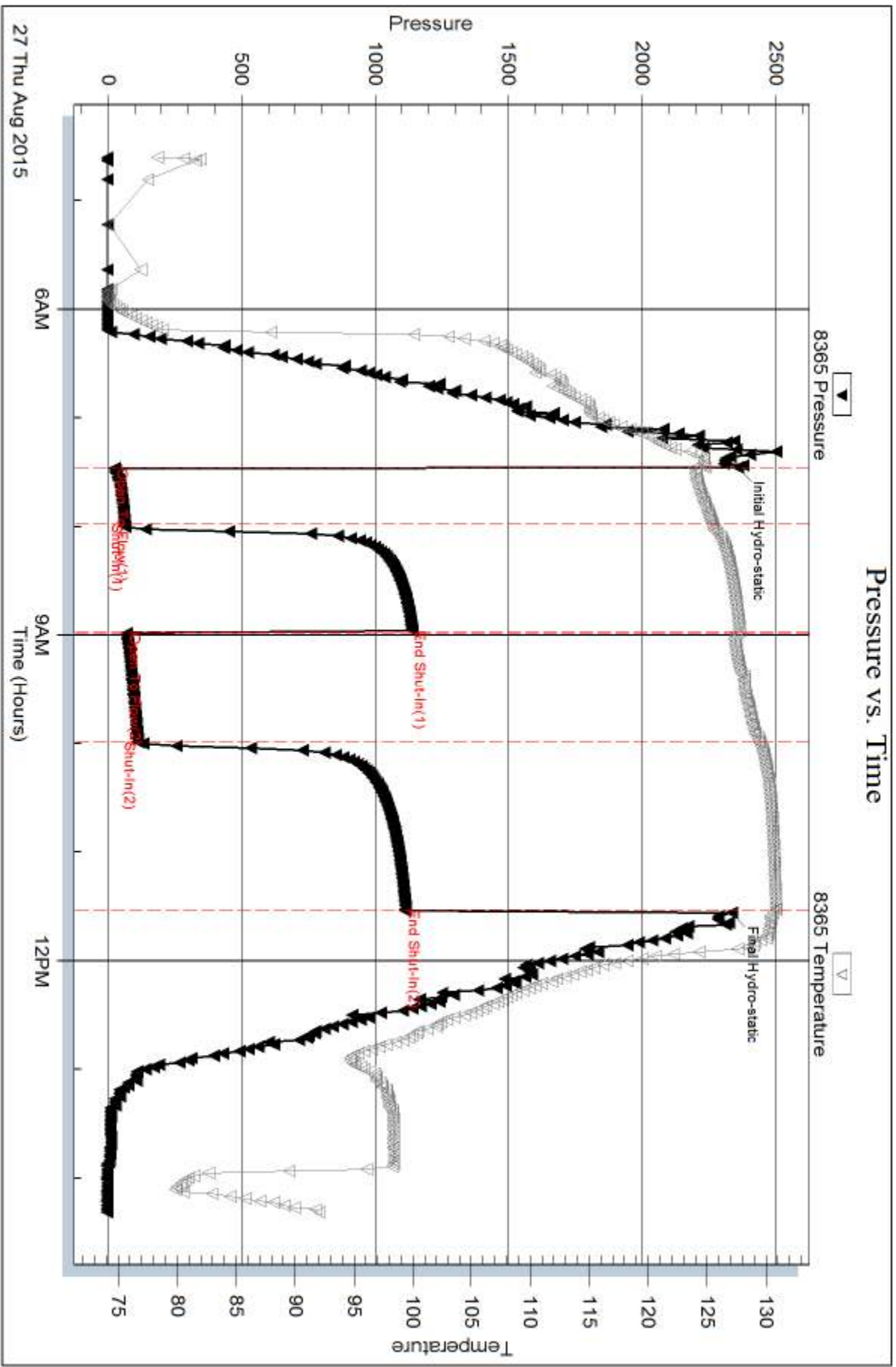
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler 400ml mud 1600ml oil @ 225psi

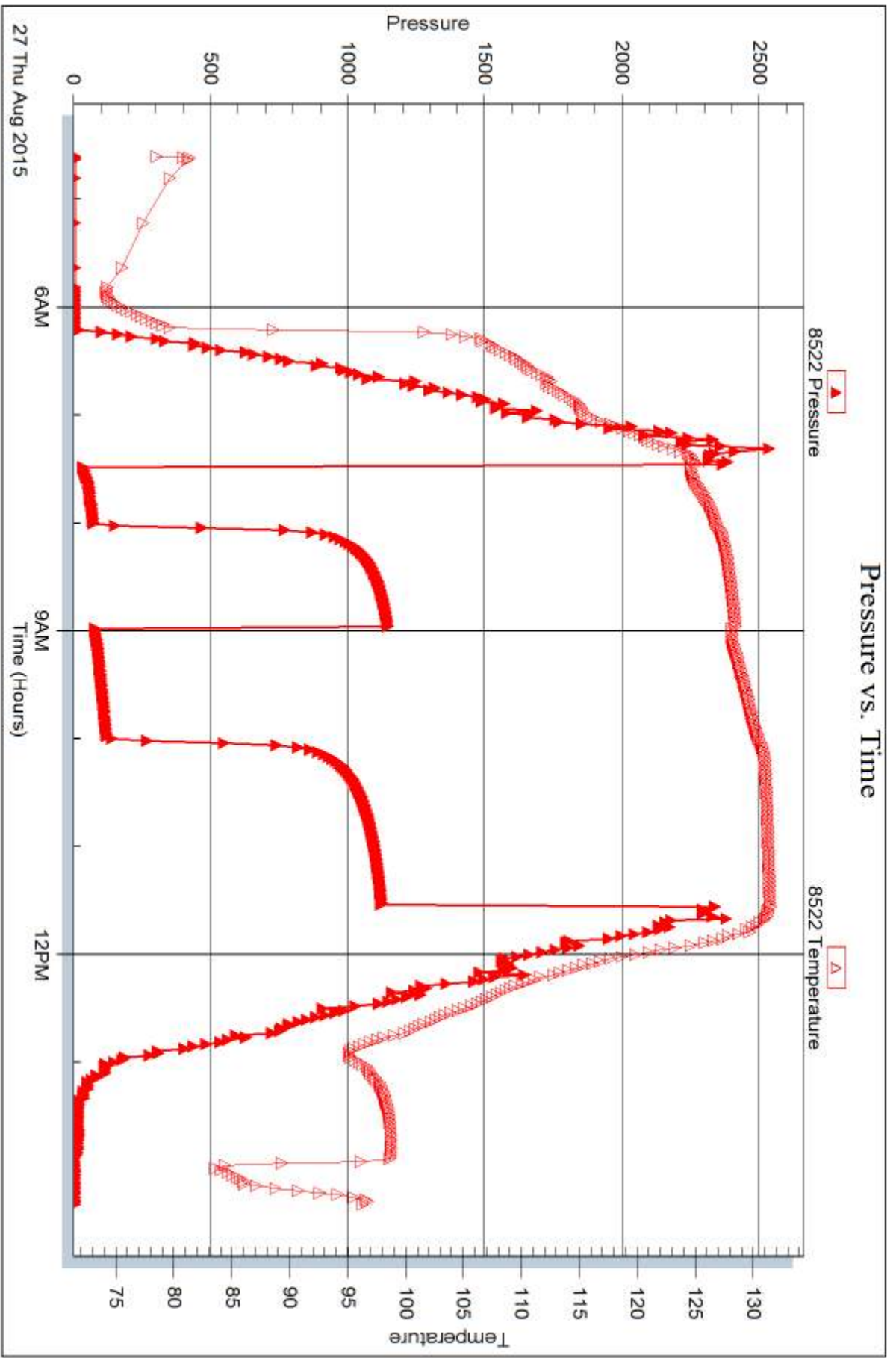


Serial #: 8522

Outside Stellar Oil Corporation, Inc

Dairy #2-18

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61823

Printed: 2015.08.28 @ 13:48:58



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61822

Well Name & No. Dairy #2-18 Test No. 1 Date 6/26/2015  
 Company Stelbar Oil Corp. Inc Elevation 2997 KB 2984 GL  
 Address 1625 N Waterfront Pkwy Ste 200 Wichita, KS 67206  
 Co. Rep / Geo. Dave Goldak Rig Sterling #5  
 Location: Sec. 18 Twp. 17s Rge. 32 w Co. Scott State Ks

Interval Tested 4354 - 4430 Zone Tested Pleasanton - Marmaton.  
 Anchor Length 76' Drill Pipe Run 4272 Mud Wt. 9.4  
 Top Packer Depth 4349 Drill Collars Run 60' Vis 58  
 Bottom Packer Depth 4354 Wt. Pipe Run Ø WL 7.2  
 Total Depth 4430 Chlorides 2000 ppm System LCM 2#

Blow Description IF1 1/4" blow died @ 14 min.  
ISI: No return.  
FF: No blow.  
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD</u>			<u>100</u>	

Rec Total 5 BHT 124 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>2202</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0615</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0641</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0959</u>
(D) Initial Shut-In <u>222</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>1159</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1402</u>
(F) Second Final Flow <u>26</u>	<input checked="" type="checkbox"/> Mileage <u>1927</u>	Comments <u>w/o/o 1hr</u>
(G) Final Shut-In <u>333</u>	<input checked="" type="checkbox"/> Sampler <u>250</u>	<u>to pick up tool</u>
(H) Final Hydrostatic <u>200.3</u>	<input type="checkbox"/> Straddle	<u>hole 7° off</u>
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Initial Open <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	Total <u>1744</u>
Final Flow <u>30</u>	Sub Total <u>1744</u>	MP/DST Disc't
Final Shut-In <u>30</u>		

Approved By \_\_\_\_\_ Our Representative [Signature]

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



# TRILOBITE TESTING, INC.

1515 Commerce Parkway • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 61822 Date 8/26/2015  
 Company Name Stelhar Oil Corp  
 Lease Dairy #2-18 Test No. 1  
 County Scott Sec. 14 Twp. 17S Rng. 32W

### SAMPLER RECOVERY

Gas \_\_\_\_\_ ML  
 Oil \_\_\_\_\_ ML  
 Mud 2000 ML  
 Water \_\_\_\_\_ ML  
 Other \_\_\_\_\_ ML  
 Pressure \_\_\_\_\_ ML  
 Total \_\_\_\_\_ ML

### PIT MUD ANALYSIS

Chlorides 2800 ppm.  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Viscosity 56  
 Mud Weight 9.1  
 Filtrate 7.2  
 Other 2# Lcm

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides 2800 ppm.  
 Gravity \_\_\_\_\_ corrected @60F

### PIPE RECOVERY

**TOP**  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides 2800 ppm.  
**MIDDLE**  
 Resistivity 2800 ohms @ \_\_\_\_\_ F  
 Chlorides 2800 ppm.  
**BOTTOM**  
 Resistivity 2 ohms @ \_\_\_\_\_ F  
 Chlorides 2800 ppm.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61823

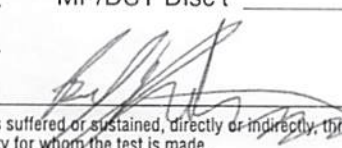
Well Name & No. Dairy # 2-18 Test No. 2 Date 8/27/2015  
 Company Stelbar Oil Corp Inc. Elevation 2997 KB 2994 GL  
 Address 1625 N Waterfront Pkwy Ste 200 Wichita, KS 67206  
 Co. Rep / Geo. \_\_\_\_\_ Rig Sterling 5 47206  
 Location: Sec. 18 Twp. 17S Rge. 32W Co. Scott State KC

Interval Tested 4652 - 4695 Zone Tested Basal Sand  
 Anchor Length 4647 43 Drill Pipe Run 4589 Mud Wt. 9.4  
 Top Packer Depth 4647 Drill Collars Run 60 Vis 63  
 Bottom Packer Depth 4652 Wt. Pipe Run 0 WL 810  
 Total Depth 4695 Chlorides 2000 ppm System LCM 1#  
 Blow Description IF: 4" blow  
ISI: No return.  
FF: 9" blow  
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>170</u>	<u>60cm</u>	<u>10</u>	<u>15</u>	<u>75</u>	
<u>55</u>	<u>Oil</u>		<u>100</u>		
	<u>No Gas detected in pipe</u>				

Rec Total 225' BHT 131 Gravity 19 API RW - @ - ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2358</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0320</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0336</u>
(C) First Final Flow <u>63</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0728</u>
(D) Initial Shut-In <u>1138</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1128</u>
(E) Second Initial Flow <u>72</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1419</u>
(F) Second Final Flow <u>113</u>	<input checked="" type="checkbox"/> Mileage <u>19 RT X2</u> <u>38</u>	Comments <u>p/u Tool @ 1200 8/28</u>
(G) Final Shut-In <u>1114</u>	<input checked="" type="checkbox"/> Sampler <u>250</u>	
(H) Final Hydrostatic <u>2335</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1763</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1763</u>	

Approved By \_\_\_\_\_ Our Representative 

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





# TRILOBITE TESTING, INC.

1515 Commerce Parkway • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 61823 Date 8/27/2015  
 Company Name Stelbar  
 Lease Dairy #2-18 Test No. 2  
 County Scott Sec. 18 Twp. 17E Rng. 32W

### SAMPLER RECOVERY

Gas — ML  
 Oil 1600 ML  
 Mud 400 ML  
 Water \_\_\_\_\_ ML  
 Other \_\_\_\_\_ ML  
 Pressure 225 <sup>PSI</sup> <sub>ML</sub>  
 Total \_\_\_\_\_ ML

### PIT MUD ANALYSIS

Chlorides 2,000 ppm.  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Viscosity 63  
 Mud Weight 9.4  
 Filtrate 8.0  
 LCM 1#  
 Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Chlorides <sup>MUP</sup> 2000 ppm.  
 Gravity 19 corrected @60F

### PIPE RECOVERY

**TOP**  
 Resistivity MUD ohms @ \_\_\_\_\_ F  
 Chlorides 2000 ppm.  
**MIDDLE**  
 Resistivity MUD ohms @ \_\_\_\_\_ F  
 Chlorides 2000 ppm.  
**BOTTOM**  
 Resistivity MUP ohms @ \_\_\_\_\_ F  
 Chlorides 2000 ppm.

# GEOLOGIC REPORT

## DAVID J. GOLDAK

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

Well Name: Dairy #2-18  
Location: Section 12 - T17S - R32W  
License Number: API: 15-171-21141  
Spud Date: 08 / 22 / 2015  
Surface Coordinates: 1592' FNL and 513' FWL  
NE - NW - SW - NW  
Region: Scott Co., KS  
Drilling Completed: 08 / 28 / 2015  
Bottom Hole Coordinates:  
Ground Elevation (ft): 2984' K.B. Elevation (ft): 2997'  
Logged Interval (ft): 3700' To: 4840' Total Depth (ft): 4840'  
Formation: Mississippian - St Louis  
Type of Drilling Fluid: Chemical - Mud-Co

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

### OPERATOR

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

### GEOLOGIST

Name: David J. Goldak  
Company: D. J. GOLDAK, INC.  
Address: 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-HAOTC	3-16s	315	315	2.75
2	7-7/8	JZ-HAIPG	3-15s	398	83	0.75
3	7-7/8	Ulterra-U516M	5-15s	4840	4442	62.00

SURVEYS: 315'-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"): 535.95'  
Pumping 60-66 S/M; 9.2-10.2 B/M; 900-1000 psi at standpipe.

## Daily Status

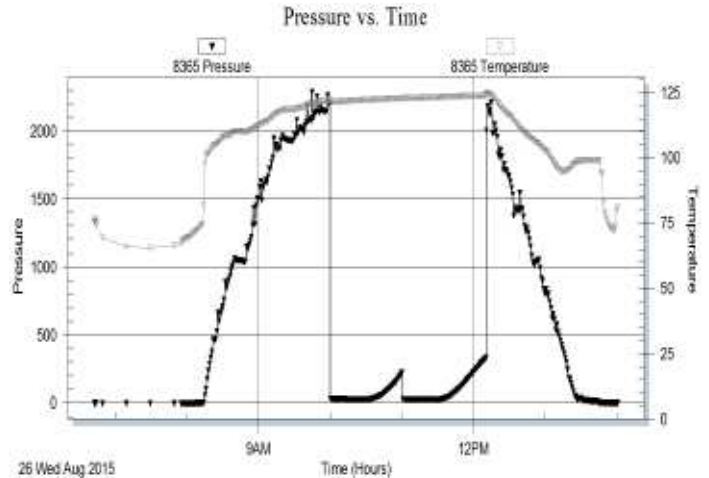
08/22/15 - Spud at 4:00 PM; Set 8-5/8" csg at 310'  
 08/23/15 - 315' WOC; DP at 9:00 PM; Bit trip at 398'  
 09/24/15 - 2,554' Drilling; Displace mud @ 3,510'  
 08/25/15 - 3,988' Drilling; Wiper-trp @ 4,339'  
 08/26/15 - 4,430' Prep for DST #1  
 08/27/15 - 4,695' TIH for DST #2  
 08/28/15 - 4,840' Logging

**DST #1: 4,354' - 4,430' (Pleasanton & Marmaton)**  
30" - 30" - 30" - 30"

IF: 1/4 inch blow, died in 14 minutes  
 ISI: No blow back  
 FF: No blow  
 FSI: No blow back

RECOVERY: 5' Total Fluid, consisting of:  
 5' Mud (100% M)  
 Sampler: 000 ml Mud @ 0 psi

SIP: 222-333; FP: 29-25, 26-26; HP: 2202-2003; BHT: 124

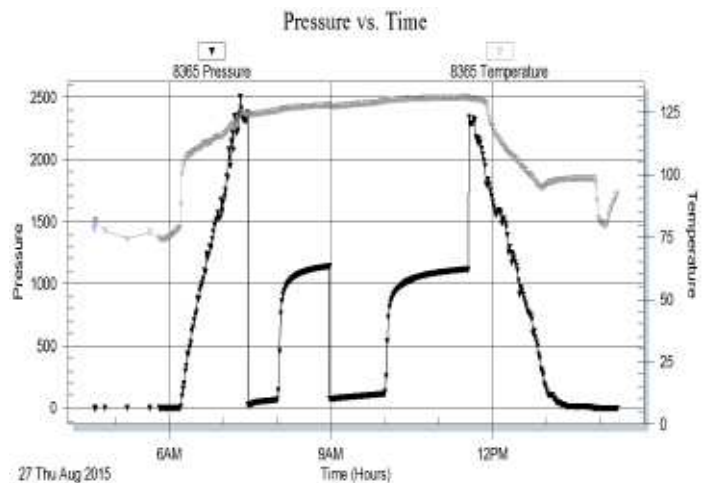


**DST #2: 4,652' - 4,695' (Basal Penn Sand)**  
30" - 60" - 60" - 90"

IF: Fair blow building to 4 inches  
 ISI: No blow back  
 FF: Fair blow building to 9 inches  
 FSI: No blow back

RECOVERY: 225' Total Fluid, consisting of:  
 55' CO (100% O); Oil gravity: 19 API  
 170' G&OCM (10% G, 15% O, 75% M)  
 Sampler: 1600 ml Oil & 400 ml Mud @ 225 psi

SIP: 1138-1114; FP: 25-63, 72-113; HP: 2358-2335; 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
- Silty

### FOSSIL

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



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

### STRINGER

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



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

### TEXTURE

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

## OTHER SYMBOLS

### POROSITY TYPE

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

### SORTING

- Well
- Moderate
- Poor

### ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

### OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

### INTERVALS

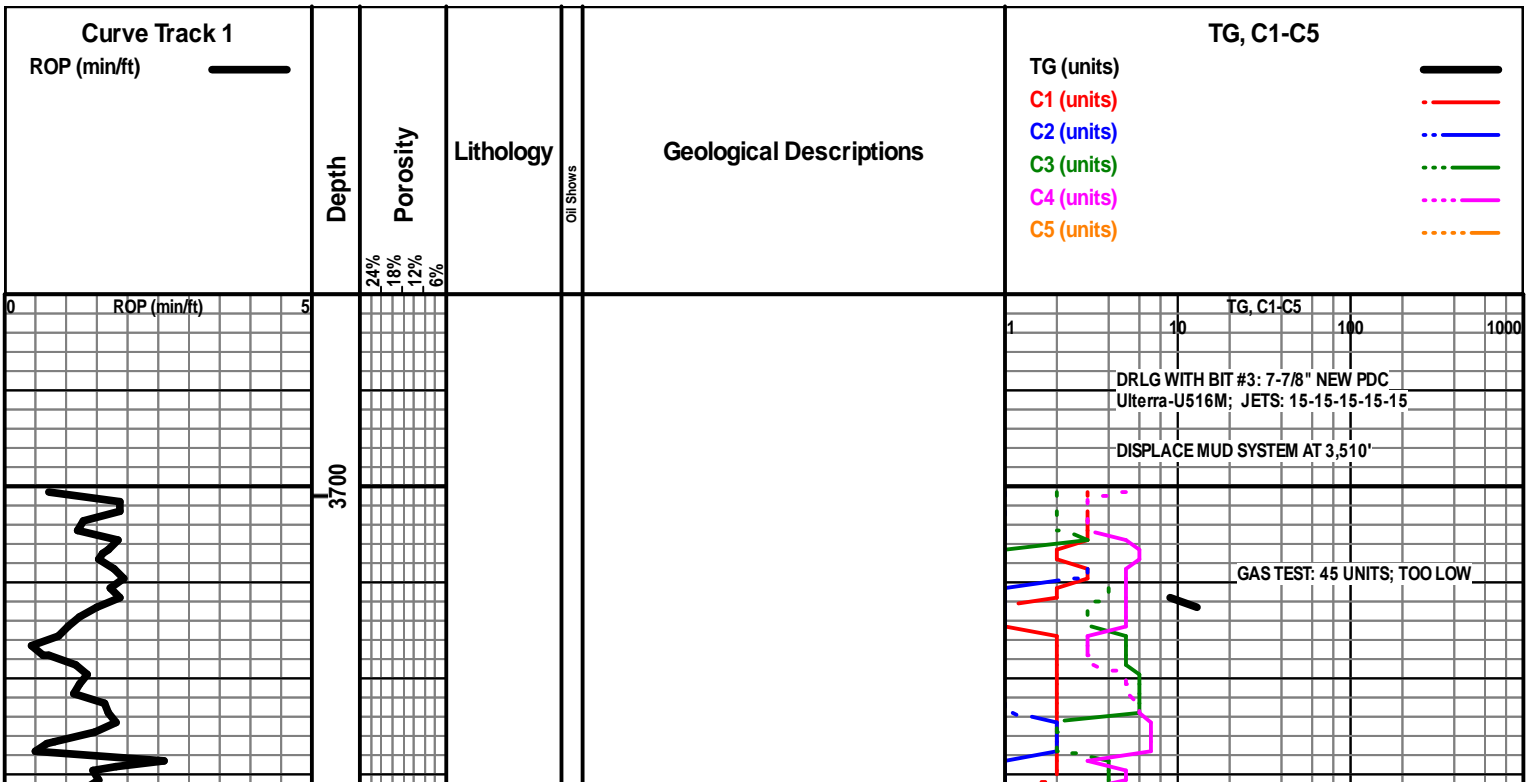
- Core
- Dst

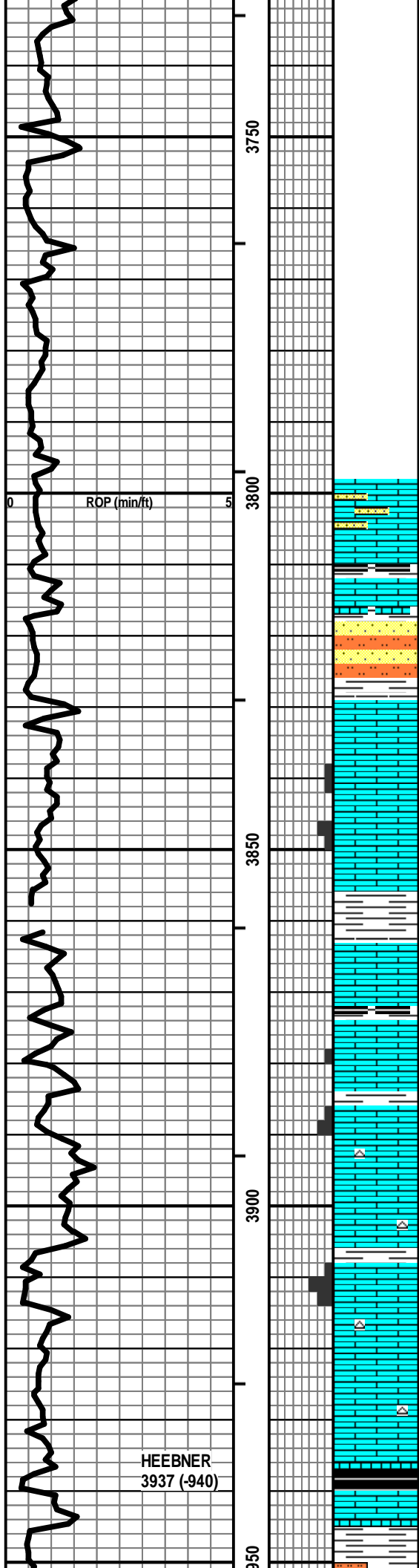


- Dst\_1\_t
- Dst\_1\_b
- Dst

### EVENTS

- Rft
- Sidewall
- Conn





LS - TAN / CRM, VF / F XLN, SL FOSS, CHKY IN PT, TR P INTXLN POR, PRED DNS, SCAT GILS, NSFO, NO ODOR W/ SH - GY/BLK W/SLTST - LT GY/GRN W/SS - LT GY, SLT / VF QTZ GR, W SRTD, MOD MIC, F INTGR POR IN PT, NS

LS - CRM / SCAT TAN + BRN, F / VF XLN, OOL + FOSS IN PT, P / F INTXLN / INTPART POR, TR PPT POR, SCAT ASPH + GILS, VSSFO, NO ODOR, SCAT SPTY STN, F / G FLUOR + CUT

LS - ASABOVE, SCAT BARR POR, CHKY IN PT, NO ODOR

LS - TAN / GY / SCAT CRM, F XLN, SL FOSS, GRAN / DOLO IN PT, P / F INTXLN + PPT POR IN PT, NS W/ SH - GY / SCAT BLK

LS - ASABOVE W/LS - TAN / GY / CRM, MOT IN PT, FOSS IN PT, SCAT CHKY, PRED DNS, NS W/ SCAT CHT - LT GY / WHT

LS - TAN / BRN / CRM, F / VF XLN, SL FOSS, GRAN / DOLO IN PT, F / G INTXLN + PPT POR, TR VUG POR, ARGIL IN PT, NS W/ SCAT CHT - LT GY / WHT

LS - ASABOVE, PRED P POR / DNS, CHKY IN PT, NS W/ SCAT CHT - GY / TAN / WHT

SH - BLK, CARB W/LS - TAN, VF / F XLN, FOSS IN PT, PRED DNS, NS W/ SH + SLTST - GY / SCAT GRN

WORKING ON GAS UNIT

TG, C1-C5

EVACUATE GAS UNIT LINE

Vis: 57, Wt: 8.7,  
YP: 18, GeIS: 14/38,  
pH: 11.0, WL: 7.2,  
Ch: 2000, Sol: 2.8,  
LCM: 2#

REPLACE EXTRACTOR AND GAS UNIT LINE

GAS TEST:  
105 UNITS

HEEBNER  
3937 (-940)

TORONTO  
3960 (-963)

LANSING  
3985 (-988)

MUNCIE CK  
4163 (-1166)

LS - CRM / SCAT WHT + TAN, VF / F XLN, SL FOSS, P/F  
INTXLN + PPT POR IN PT, SCAT CHKY/DNS, NS W/  
CHT - WHT / LT GY

LS - CRM / WHT / SCAT TAN, VF / F XLN, SL FOSS +  
OOL, P / SCAT F INTXLN POR IN PT, CHKY IN PT / DNS,  
NS

LS - ASABOVE W/ SH - GY / GRN / SCAT BLK

LS - CRM / TAN, F / VF XLN, SCAT M REXLN CALC,  
FOSS IN PT, F VUG + PPT POR IN PT, SCAT SUBCHKY /  
DNS, VSSFO, SCAT ASPH, SCAT BARR POR, NO ODOR,  
SCAT SPTY STN

LS - CRM / GY / SCAT TAN, VF / F XLN, SL FOSS,  
SUBCHKY IN PT, PRED DNS, NS

LS - CRM / TAN, VF / F XLN, SL FOSS, TR P / F VUG POR,  
P INTXLN POR, PRED DNS, VSSFO + ASPH, SCAT BARR  
POR, F ODOR, SCAT SPTY STN, P / G FLUOR + CUT

LS - CRM / TAN, F XLN, OOL IN PT, SL FOSS, SCAT P /  
TR F INTXLN POR, TR FO, SCAT SPTY STN (POSS  
CAVINGS ?), V FT ODOR, PRED DNS W/ CHT / WHT / LT  
GY / TAN

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

LS - CRM / LT GY, VF / F XLN, SCAT M REXLN CALC,  
OOL IN PT, SCAT P / F INTXLN + PPT + VUG POR, NS

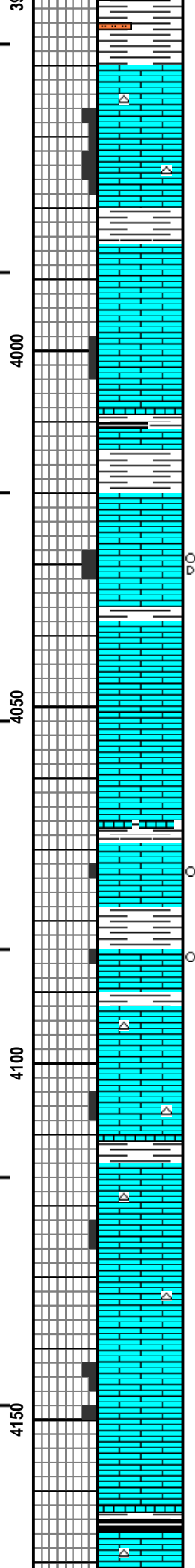
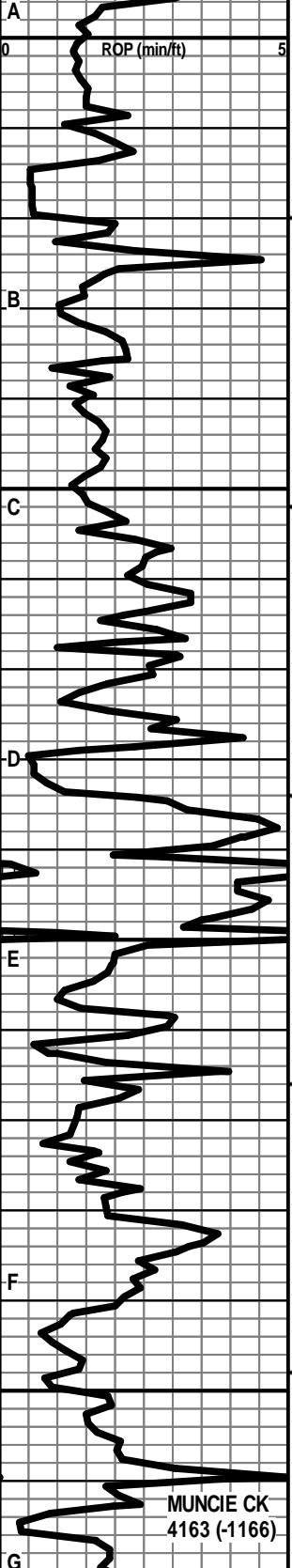
LS - ASABOVE, PRED DNS, NS W/ SH - BLK, CARB W/  
LS - TAN / BRN, VF / F XLN, PRED DNS, NS W/ CHT - GY  
/ TAN

Vis: 50, Wt: 9.0,  
LCM: 2#

TG, C1-C5  
10 100 1000

RECALIBRATE

Vis: 58, Wt: 9.0,  
LCM: 2#



LS - CRM / SCAT WHT + TAN, VF / F XLN, SL FOSS, P/F  
INTXLN + PPT POR IN PT, SCAT CHKY/DNS, NS W/  
CHT - WHT / LT GY

LS - CRM / WHT / SCAT TAN, VF / F XLN, SL FOSS +  
OOL, P / SCAT F INTXLN POR IN PT, CHKY IN PT / DNS,  
NS

LS - ASABOVE W/ SH - GY / GRN / SCAT BLK

LS - CRM / TAN, F / VF XLN, SCAT M REXLN CALC,  
FOSS IN PT, F VUG + PPT POR IN PT, SCAT SUBCHKY /  
DNS, VSSFO, SCAT ASPH, SCAT BARR POR, NO ODOR,  
SCAT SPTY STN

LS - CRM / GY / SCAT TAN, VF / F XLN, SL FOSS,  
SUBCHKY IN PT, PRED DNS, NS

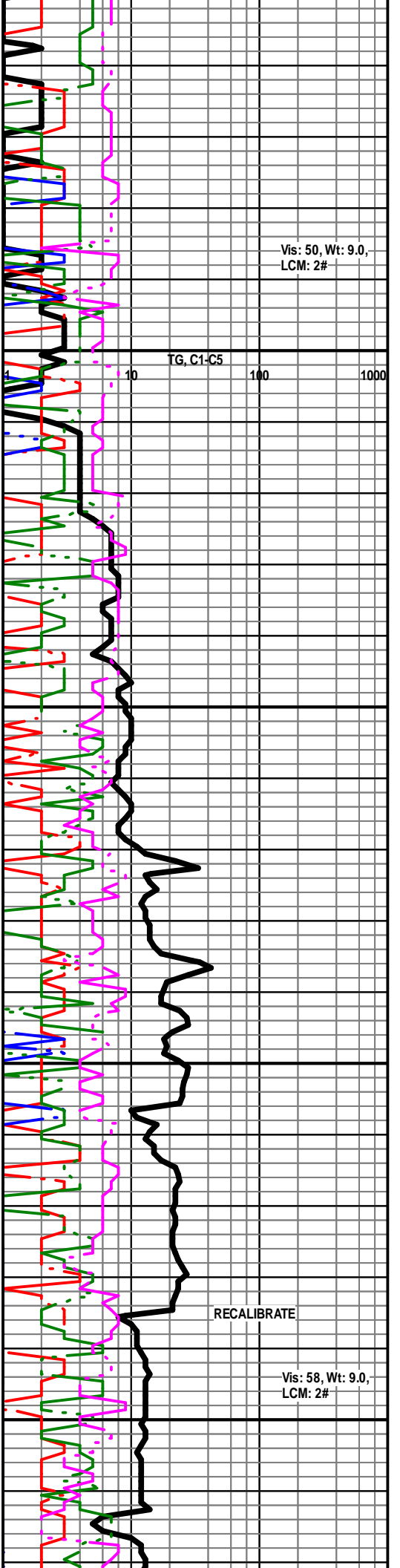
LS - CRM / TAN, VF / F XLN, SL FOSS, TR P / F VUG POR,  
P INTXLN POR, PRED DNS, VSSFO + ASPH, SCAT BARR  
POR, F ODOR, SCAT SPTY STN, P / G FLUOR + CUT

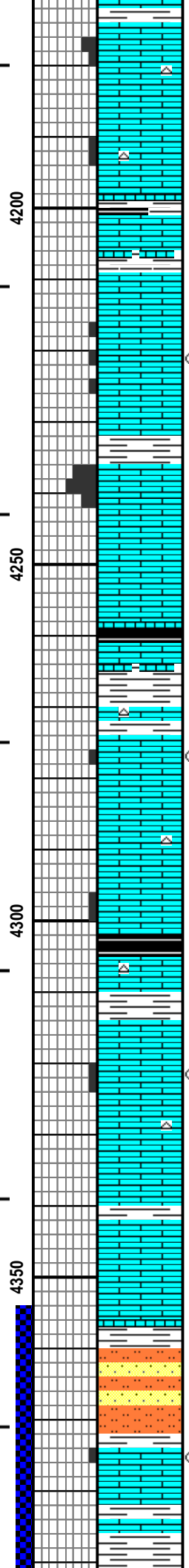
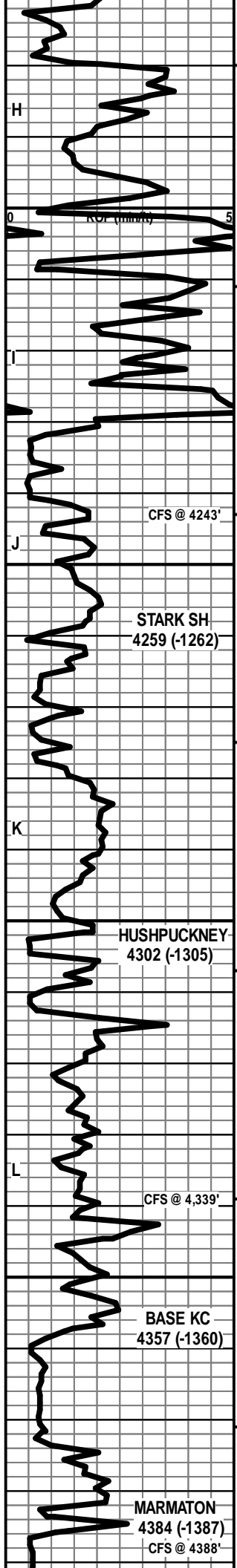
LS - CRM / TAN, F XLN, OOL IN PT, SL FOSS, SCAT P /  
TR F INTXLN POR, TR FO, SCAT SPTY STN (POSS  
CAVINGS ?), V FT ODOR, PRED DNS W/ CHT / WHT / LT  
GY / TAN

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

LS - CRM / LT GY, VF / F XLN, SCAT M REXLN CALC,  
OOL IN PT, SCAT P / F INTXLN + PPT + VUG POR, NS

LS - ASABOVE, PRED DNS, NS W/ SH - BLK, CARB W/  
LS - TAN / BRN, VF / F XLN, PRED DNS, NS W/ CHT - GY  
/ TAN





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

LS - CRM / TAN, V SIM TO ABOVE, SCAT P INTXLN POR, PRED DNS, NS W/ CHT - AS ABOVE

LS - CRM / TAN / GY, VF / F XLN, OOL IN PT, SL FOSS, SCAT P INTXLN POR, VSSFO, SCAT ASPH + GILS, FT ODOR, SCAT SPTY STN, F / G FLUOR + CUT, PRED NS

SH - GY / GRN W/ LS - CRM / TAN / LT GY, MOT IN PT, F / VF XLN, OOL, F / G OOM + INTXLN POR, NS

LS - CRM / TAN, VF / F XLN, SL FOSS + OOL, CHKY IN PT, PRED DNS, NS W/ SCAT SH - BLK, CARB

LS - CRM / GY / TAN, MOT IN PT, F / VF XLN, SL FOSS, SCAT P PPT + INTXLN POR, PRED DNS, VSSFO + ASPH, FT ODOR, SCAT SPTY STN P / G FLUOR, F / G CUT W/ SCAT CHT - GY

LS - CRM / TAN, VF / F XLN, FOSS IN PT, CHKY IN PT, TR P INTXLN POR, PRED DNS, NS W/ SCAT CHT - GY W/ SH - BLK, CARB

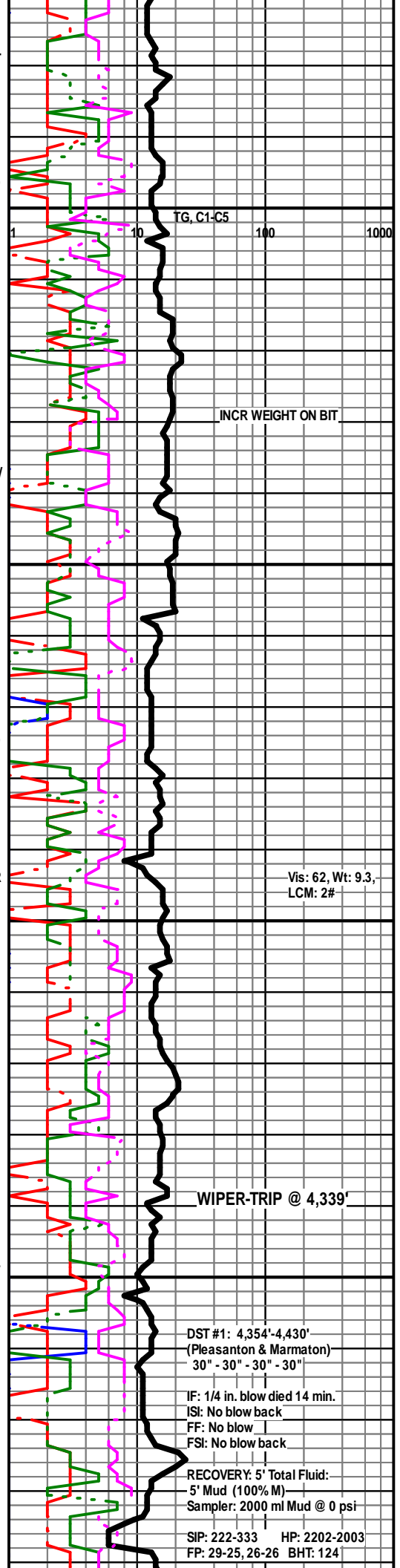
LS - CRM / TAN / SCAT BRN, VF / F XLN, SL OOL + FOSS, SCAT P INTXLN POR, CHKY IN PT, PRED DNS, VSSFO, SS OILY FILM, V FT ODOR, SCAT SPTY STN, F / G FLUOR + CUT W/ SCAT CHT - LT GY / WHT

LS - CRM / TAN / BRN, V SIM TO ABOVE, CHKY IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / WHT

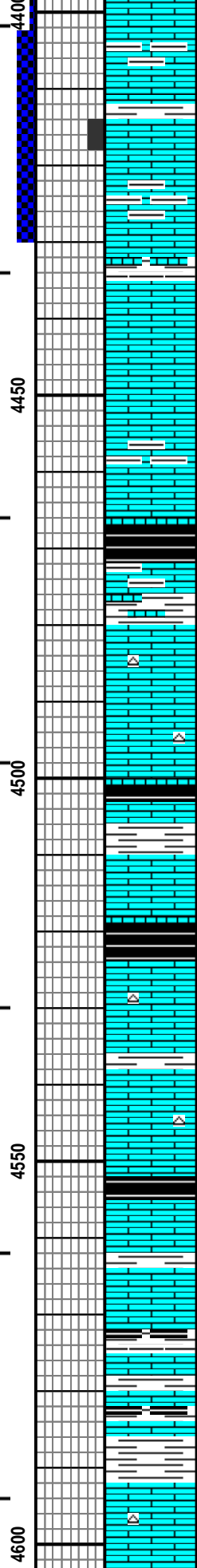
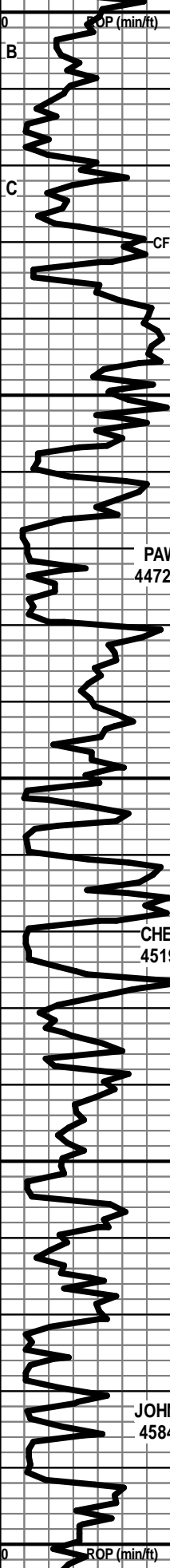
LS - CRM / TAN, VF / F XLN, OOL IN PT, SL FOSS, TR P INTXLN POR, SUBCHKY IN PT, PRED DNS, NS W/ SCAT CHT - LT GY

SLTST - GY / GRN W/ SCAT SS - GY, SLT / VF QTZ GR, MIC, P / F INTGR POR, NS W/ SH - GY / GRN

LS - CRM / TAN, MOT IN PT, F / VF XLN, SL OOL, GRAN IN PT, SCAT PPPT + INTXLN POR, SUBCHKY IN PT / PRED DNS, VSSFO, SS ASPH, V FT ODOR, SCAT SPTY STN, F / G FLUOR + CUT



PRED SH - GY / SCAT GRN W/ SCAT LS - AS ABOVE



LS - CRM / GY / TAN, VF / F XLN, OOL IN PT, SL FOSS, SUBCHKY IN PT, PRED DNS, NS

LS - CRM / TAN, F / M XLN IN PT, PRED F / VF XLN, SL FOSS + OOL, F / G VUG + PPT POR, P / G INTXLN POR, SL / F SFO + ASPH, TR GB, FT ODOR, SPTY / SAT STN, G FLUOR + CUT W / SH - GY / GRN

LS - TAN / CRM / SCAT GY, VF / F XLN, FOSS IN PT, SCAT OOL, SUBCHKY IN PT, PRED DNS, NS

LS - ASABOVE, PRED DNS, NS

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

LS - CRM / TAN / BRN, VF / F XLN, SL FOSS, CHKY IN PT, PRED DNS, NS W / SCAT CHT - GY / TAN

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

LS - TAN / BRN / CRM, VF / F XLN, OOL + FOSS IN PT, SUBCHKY IN PT, PRED DNS, NS W / CHT - GY

LS - TAN / BRM / SCAT GY + CRM, VF / F XLN, SL FOSS + OOL, SUBCHKY IN PT, PRED DNS, NS W / SCAT CHT - GY / TAN W / SH - BLK

LS - TAN / CRM / BRN / SCAT GY, VF / F XLN, SL FOSS, PRED DNS, NS W / SH - GY / BLK / SCAT GRN

LS - CRM / TAN / BRN, VF / F XLN, OOL IN PT, SL FOSS, SUBCHKY IN PT, PRED DNS, NS W / CHT - GY / TAN

LS - CRM / TAN, VF / F XLN, OOL IN PT, SL FOSS, SCAT

TG, C1-C5 100 1000

Vis: 58, Wt: 9.4, YP: 21, GeIS: 14/44, pH: 10.0, WL: 7.2, Cht: 2800, Sol: 7.6, LCM: 2#

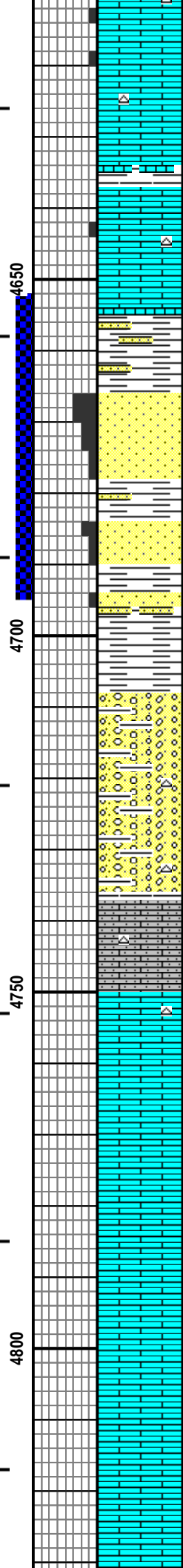
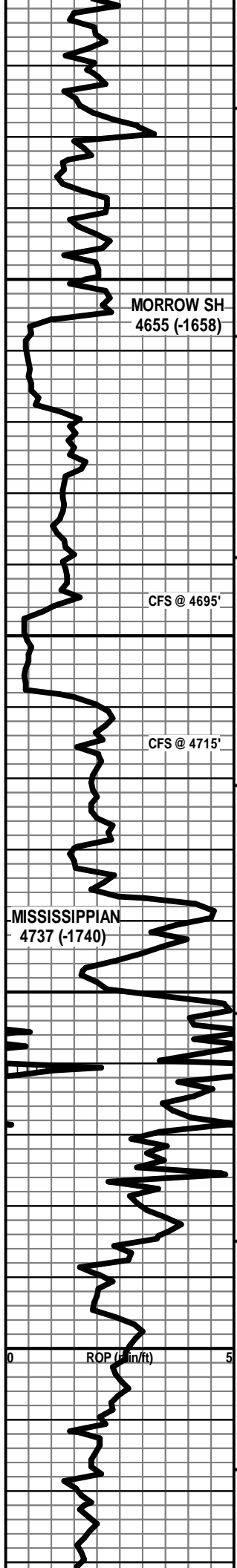
PIPE STRAP @ 4,430': SHORT 0.44'

Vis: 62, Wt: 9.4, LCM: 2#

TG, C1-C5 100 1000

DST #2: 4,652'-4,695' (Basal Sand)





P INTXLN POR, CHKY IN PT, PRED DNS, VSSFO + OILY FILM, V FT ODOR, TR SPTY STN, P/F FLUOR, NO/F CUT CUT W/ CHT - GY/ WHT/ TAN

LS - CRM / TAN, VF / F XLN, OOL IN PT, SL FOSS, SCAT P INTXLN POR, CHKY IN PT, PRED DNS, VSSFO, V FT ODOR, SCAT SPTY STN, P/F FLUOR, NO/F CUT CUT W/ CHT - GY/ WHT/ TAN

LS - AS ABOVE W/ SCAT SH - GY/ GRN W/ TR SS - LT GY/ GRN, SLT / VF QTZ GR, W SRTD, P/ NO INTGR POR, SS OILY FILM, NSFO, SCAT SPTYSTN

SS - LT GY, PRED VF / F QTZ GR, SCAT M GR, W SRTD, SA / R, SIL CEM, SL / MOD GLAUC + CHL IN PT, F / G INTGR POR, FRI IN PT, F / G SFO, F ODOR, SAT / SPTY STN, G FLUOR + CUT W/ ABNT LS CAVINGS

SS - AS ABOVE W/ SS - LT GY/ GRN, PRED VF QTZ GR, SA / SR, SIL CEM, MOD / ABNT CHL + GLAUC, P / F INTGR POR, SL / F SFO IN PT, F ODOR, SPTY STN IN PT, F / G FLUOR + CUT, MOD AMT VSSFO / BARR W/ SCAT SH - GY/ GRN W/ ABNT LS CAVINGS

ABNT SH - GY/ BLK W/ SS - GY/ WHT, VF QTZ GR, W SRTD, SA / SR, V CHKY IN PT, SCAT GLAUC + CHL, P / NO VIS POR, NS W/ ABNT LS CAVINGS AS ABOVE W/ SCAT SS CAVINGS AS ABOVE

SH - GY/ BLK W/ MOD AMT CHKYSS - AS ABOVE W/ ABNT LS CAVINGS AS ABOVE W/ SCAT CHT - GY/ TAN

SH - GY/ BLK W/ MOD AMT CHKYSS - AS ABOVE W/ ABNT LS CAVINGS AS ABOVE W/ SCAT CHT - GY/ TAN W/ SCAT LS - WHT / CRM, VF XLN, V AREN, OOL IN PT, CHKY / PRED DNS, NS

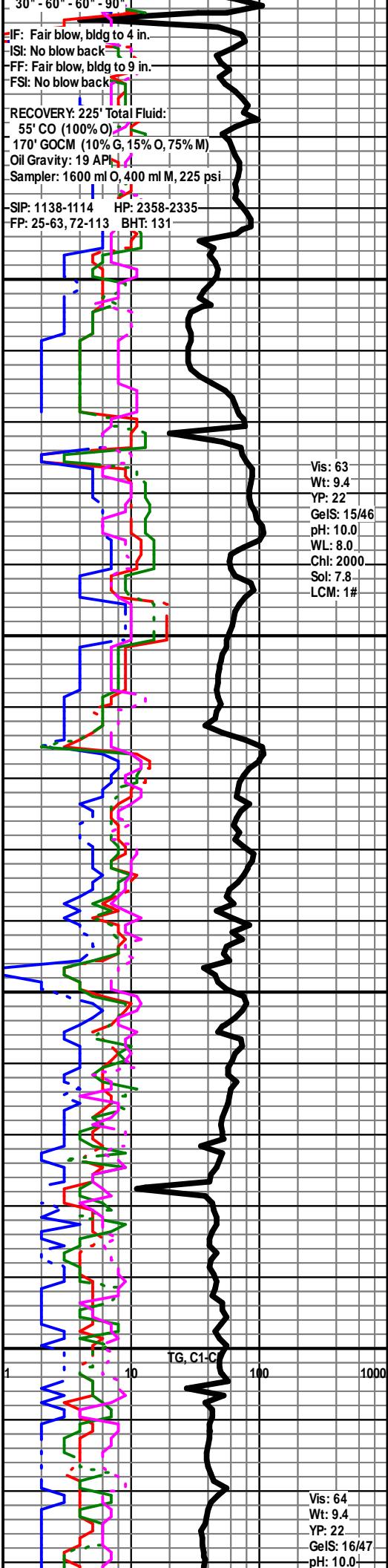
LS - WHT / CRM, VF XLN, V AREN, OOL IN PT, CHKY / PRED DNS, NS W/ SCAT LS - CRM / TAN, VF / F XLN, OOL IN PT, CHKY IN PT, PRED DNS, NS W/ SCAT CHT - GY / TAN W/ ABNT CAVINGS AS ABOVE

LS - CRM / TAN, VF / F XLN, OOL IN PT, CHKY IN PT, PRED DNS, NS

LS - CRM / TAN, VF / F XLN, OOL IN PT, CHKY IN PT, PRED DNS, NS

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

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



MORROW SH  
4655 (-1658)

CFS @ 4695'

CFS @ 4715'

MISSISSIPPIAN  
4737 (-1740)

ROP (ft/min)

4800

4750

4700

4650

30" - 60" - 60" - 90"  
 IF: Fair blow, bldg to 4 in.  
 IS: No blow back  
 FF: Fair blow, bldg to 9 in.  
 FS: No blow back

RECOVERY: 225' Total Fluid:  
 55' CO (100% O)  
 170' GOCM (10% G, 15% O, 75% M)  
 Oil Gravity: 19 API  
 Sampler: 1600 ml O, 400 ml M, 225 psi

SIP: 1138-1114 HP: 2358-2335  
 FP: 25-63, 72-113 BHT: 131

Vis: 63  
 Wt: 9.4  
 YP: 22  
 GelS: 15/46  
 pH: 10.0  
 WL: 8.0  
 Chl: 2000  
 Sol: 7.8  
 LCM: 1#

TG, C1-C

Vis: 64  
 Wt: 9.4  
 YP: 22  
 GelS: 16/47  
 pH: 10.0

LS - CRM / TAN, VF / F XLN, SCAT CRYPTO XLN, OOL IN  
PT, TR P INTPART POR, CHKY IN PT, PRED DNS, NS

WL: 8.0  
Chl: 2300  
Sol: 7.5  
LCM: 1#

TOTAL DEPTH 4840 (-1843)

4850

