

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1248979  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1248979

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	Wiechman Trust 1-13
Doc ID	1248979

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Stelbar Oil Corporation, Inc.
Well Name	Wiechman Trust 1-13
Doc ID	1248979

Tops

Name	Top	Datum
B/Anhydrite	2349	+638
Heebner	3923	-936
Lansing	3968	-981
Mun Cr Sh	4140	-1153
Stark Sh	4243	-1256
Hush Sh	4286	1299
Marmaton	4368	-1381
Pawnee	4455	-1468
Cher Sh	4503	-1516
Lwr Ck Sh	4533	-1546
John Zone	4566	-1579
MW Sh	4637	-1650
Miss	4675	-1688





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Stelbar Oil. Corp.  
1625 N Waterfront PKWY  
Wichita Ks, 67202  
ATTN: Dave Goldax

**13-17s-33w Scott County**  
**Wiechman Trust #1-13**  
Job Ticket: 61521 **DST#: 1**  
Test Start: 2015.02.19 @ 05:48:00

## GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: No Whipstock: 0.00 ft (KB)  
Time Tool Opened: 08:35:45  
Time Test Ended: 14:38:15  
Interval: **4340.00 ft (KB) To 4417.00 ft (KB) (TVD)**  
Total Depth: 4417.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Justin Harris  
Unit No: 71  
Reference Elevations: 2987.00 ft (KB)  
2982.00 ft (CF)  
KB to GR/CF: 5.00 ft

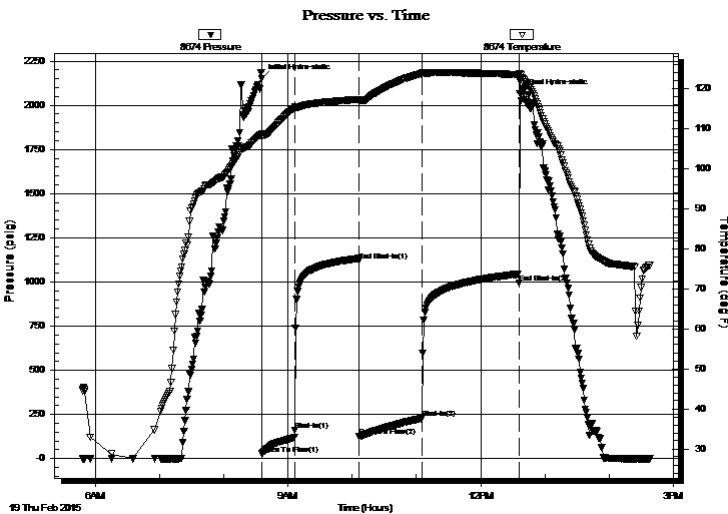
## Serial #: 8674

Inside

Press@RunDepth: 227.49 psig @ 4341.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.02.19 End Date: 2015.02.19 Last Calib.: 2015.02.19  
Start Time: 05:48:05 End Time: 14:38:15 Time On Btm: 2015.02.19 @ 08:35:15  
Time Off Btm: 2015.02.19 @ 12:36:30

TEST COMMENT: 30: B.O.B in 18 mins.  
60: No Return.  
60: B.O.B in 25 mins.  
90: No Return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2151.90	108.55	Initial Hydro-static
1	26.82	107.83	Open To Flow (1)
31	161.94	115.09	Shut-In(1)
91	1122.04	117.17	End Shut-In(1)
92	126.26	116.75	Open To Flow (2)
150	227.49	123.62	Shut-In(2)
241	993.45	123.37	End Shut-In(2)
242	2065.06	123.67	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
126.00	mcw 30m 70w	0.67
340.00	mcw 10m 90w	4.77

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Stelbar Oil. Corp.

**13-17s-33w Scott County**

1625 N Waterfront PKWY  
Wichita Ks, 67202

**Wiechman Trust #1-13**

Job Ticket: 61521

**DST#: 1**

ATTN: Dave Goldax

Test Start: 2015.02.19 @ 05:48:00

### 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:

38000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 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
126.00	mcw 30m 70w	0.674
340.00	mcw 10m 90w	4.769

Total Length: 466.00 ft      Total Volume: 5.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW .2 @ 64 F

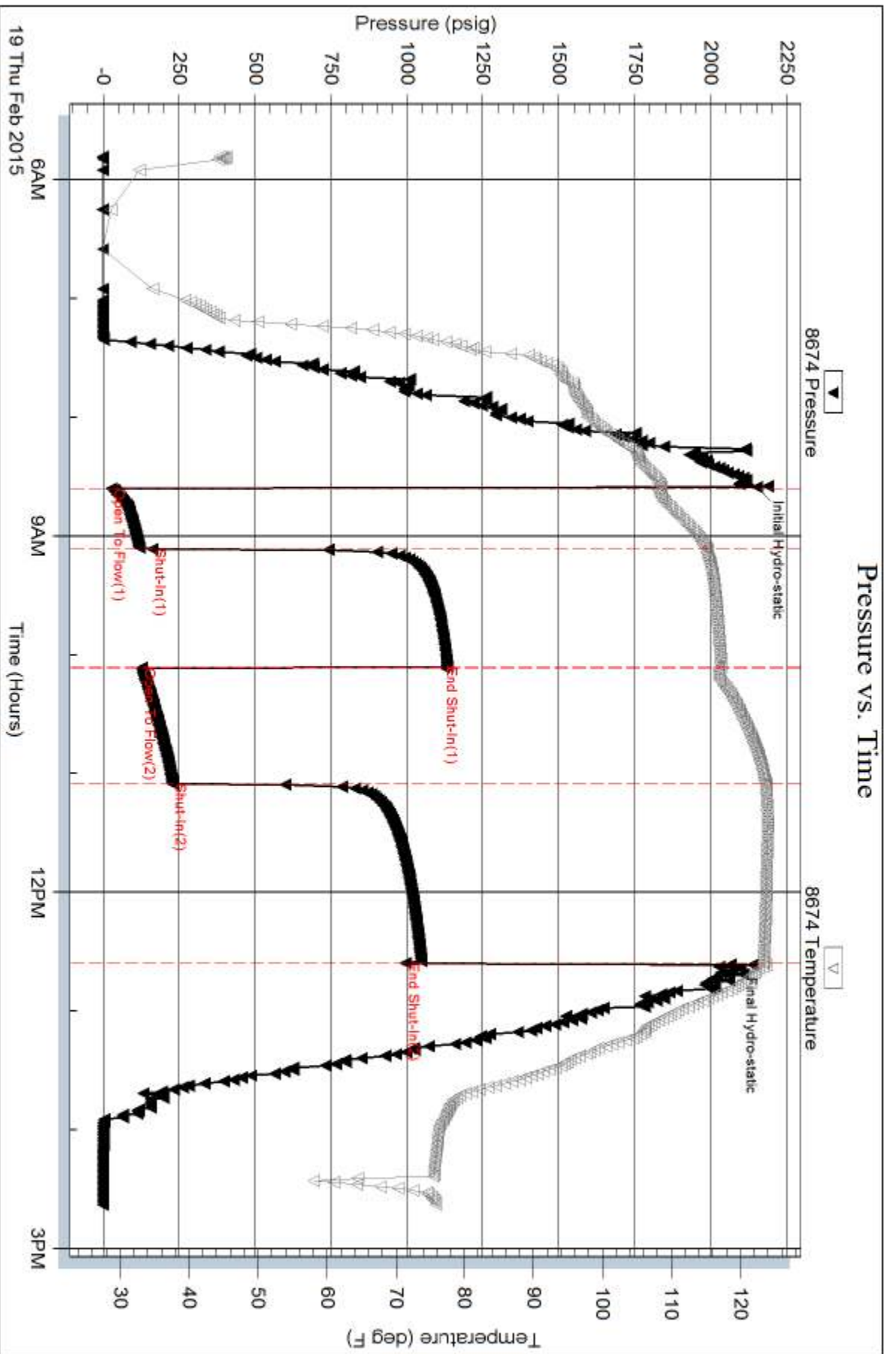
Serial #: 8674

Inside

Stellar Oil, Corp.

Weechman Trust#1-13

DST Test Number: 1







**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Stelbar Oil. Corp.  
 1625 N Waterfront PKWY  
 Wichita Ks, 67202  
 ATTN: Dave Goldax

**13-17s-33w Scott County**  
**Wiechman Trust #1-13**  
 Job Ticket: 61522 **DST#: 2**  
 Test Start: 2015.02.20 @ 13:10:00

## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 15:44:00  
 Time Test Ended: 21:49:15  
 Interval: **4580.00 ft (KB) To 4639.00 ft (KB) (TVD)**  
 Total Depth: 4639.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Justin Harris  
 Unit No: 71  
 Reference Elevations: 2987.00 ft (KB)  
 2982.00 ft (CF)  
 KB to GR/CF: 5.00 ft

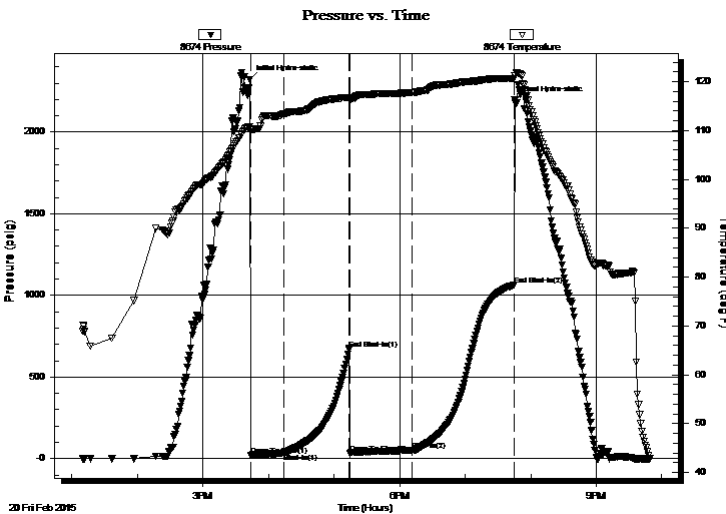
## Serial #: 8674

Inside

Press@RunDepth: 49.38 psig @ 4581.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.02.20 End Date: 2015.02.20 Last Calib.: 2015.02.20  
 Start Time: 13:10:05 End Time: 21:49:15 Time On Btm: 2015.02.20 @ 15:43:00  
 Time Off Btm: 2015.02.20 @ 19:45:30

TEST COMMENT: 30: Weak surface blow build to 3 1/2".  
 60: No Return.  
 60: B.O.B in 30 mins.  
 90: No Return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2323.51	110.85	Initial Hydro-static
1	19.45	110.09	Open To Flow (1)
31	33.66	113.37	Shut-In(1)
91	674.43	116.78	End Shut-In(1)
92	30.88	116.44	Open To Flow (2)
149	49.38	117.80	Shut-In(2)
242	1064.91	120.70	End Shut-In(2)
243	2195.61	121.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
95.00	ocm 10o 90m	0.47

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Stelbar Oil. Corp.

**13-17s-33w Scott County**

1625 N Waterfront PKWY  
Wichita Ks, 67202

**Wiechman Trust #1-13**

Job Ticket: 61522

**DST#: 2**

ATTN: Dave Goldax

Test Start: 2015.02.20 @ 13:10:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
95.00	ocm 10o 90m	0.467

Total Length: 95.00 ft      Total Volume: 0.467 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

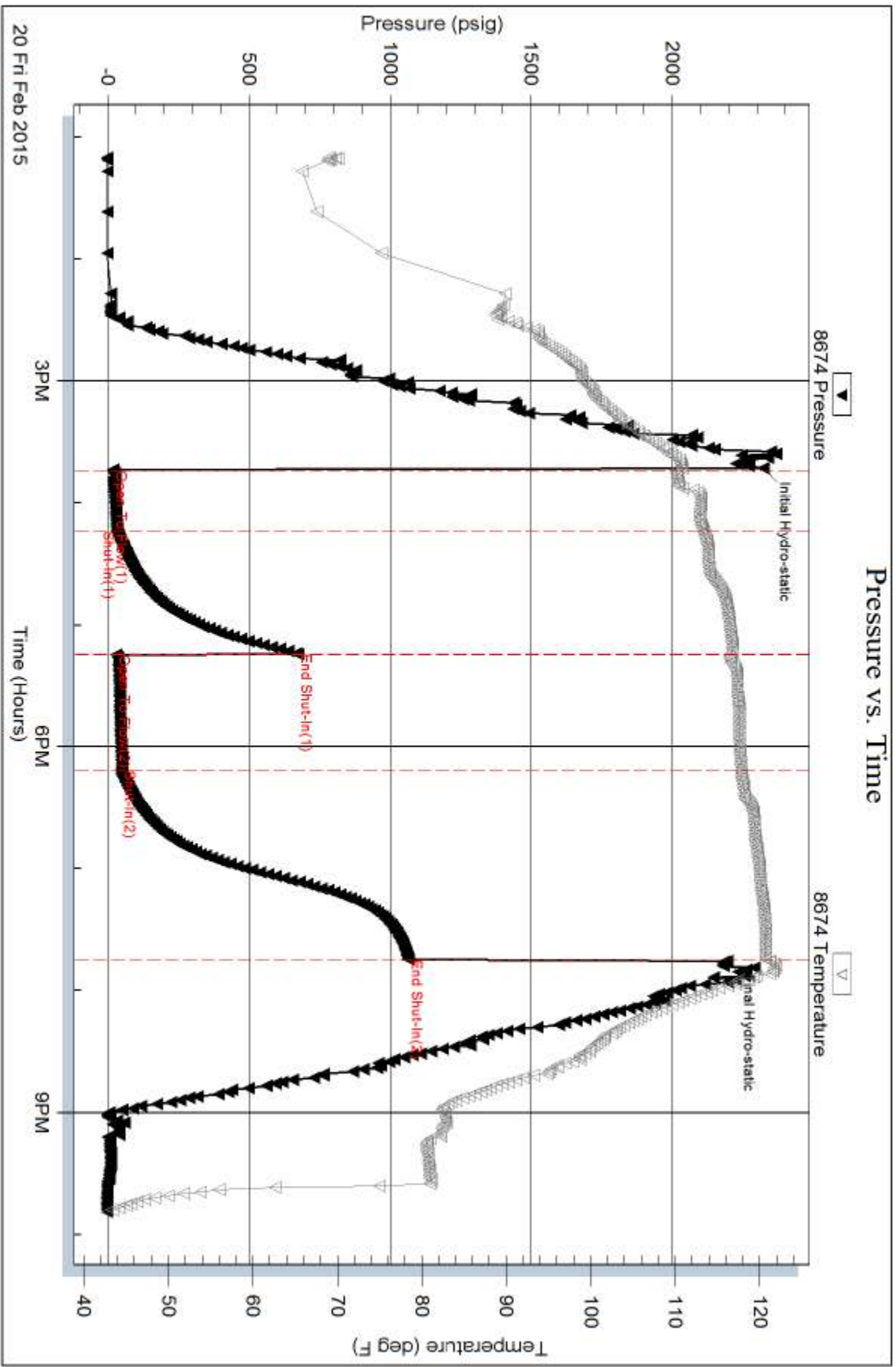
Serial #: 8674

Inside

Stebar Oil, Corp.

Wechman Trust#1-13

DST Test Number: 2





**CONSOLIDATED**  
Oil Well Services, LLC

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

2154  
2092  
**INVOICE # 803408**

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

TICKET NUMBER 49403  
LOCATION Oakley KS  
FOREMAN Dave Retzloff

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-13-15	7396	Wierchman Trust #1-13	13	17	33	Scott
CUSTOMER		Oakley KS		TRUCK#		DRIVER
MAILING ADDRESS		South to Hwy 4 Just 2 miles South West into		722		Mike
CITY		STATE		460		Lance
		ZIP CODE				

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 302 CASING SIZE & WEIGHT 8 5/8 24 LBS  
 CASING DEPTH 295.12 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk 6.5 CEMENT LEFT in CASING 20  
 DISPLACEMENT 17.96 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting. Rig up. Break circulation. mix 200 sks of Class A 3% cc 2% gel Displace 18 BBLs of water. Shut in. Rig down. Cement did circulate.

*Thanks Dave & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54013	1	PUMP CHARGE	1150.00	1150.00
5406	35	MILEAGE	5.25	183.75
5407a	9.4	Ton Mileage Delivery	6.75	634.50
1104s	200 sks	Class A cement	18.55	3710.00
1102	564 #	Calcium Chloride	.94	530.16
1108	376 #	Pentonite	1.27	477.72
			546	6251.18
			less 15%	937.68
			Total	5313.50

Ravin 9737  SALES TAX 300.77  
ESTIMATED TOTAL 5614.28  
AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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.

## TERMS

In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

## SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS, Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) COWS makes no guarantee of the effectiveness of any COWS' products, supplies or materials, or the results of any COWS' treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.

(e) COWS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that COWS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

## WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.

7:00 PM

2214

3314

4:00 AM



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

FIELD TICKET & TREATMENT REPORT  
CEMENT

TICKET NUMBER 47807  
LOCATION Oakley Ks  
FOREMAN Jerry Y

2150  
INVOICE # 883467

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-21-15	7396	Wichman Trust 1-B	13	17	33W	Scott
CUSTOMER			4883' ch			
MAILING ADDRESS			1 mile S			
CITY			1/2 N			
STATE			E into			
ZIP CODE						
			TRUCK #	DRIVER	TRUCK #	DRIVER
			445	Jordan		
			693	Lance		

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4370 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: Safety meeting & rig up on WWS plugs ordered with 270 sks  
60/40 pozmix 4% gel 1/4" flo seal  
50 @ 2380'  
80 @ 1460'  
40 @ 720'  
50 @ 330'  
20 @ 60'  
30 RA

Thank you  
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1395.00	1395.00
5406	35	MILEAGE	5.33	186.75
5407A	11.6	ton mileage delivery	1.75	203.00
1131	270 sks	60/40 pozmix	15.86	4282.20
11186	929 #	gel	2.7	2508.30
1107	68 #	Flo seal	2.92	201.36
1111	100 #	Salt	NC	NC
			Subtotal	7024.82
			-15% disc	1053.73
			Subtotal	5971.12
			SALES TAX	328.02
			ESTIMATED TOTAL	6299.15

Ravin 3737

AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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.

## TERMS

In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

## SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS, Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) COWS makes no guarantee of the effectiveness of any COWS' products, supplies or materials, or the results of any COWS' treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.

(e) COWS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that COWS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

## WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.

# GEOLOGIC REPORT

## DAVID J. GOLDAK

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

Well Name: Wiechman Trust #1-13  
Location: Section 13 - T17S - R33W  
License Number: API: 15-171-21127  
Spud Date: 02 / 13 / 2015  
Surface Coordinates: 1466' FSL and 2136' FEL  
SE - SW - NW - SE  
Region: Scott Co., KS  
Drilling Completed: 02 / 21 / 2015  
Bottom Hole Coordinates:  
Ground Elevation (ft): 2982' K.B. Elevation (ft): 2987'  
Logged Interval (ft): 3700' To: 4756' Total Depth (ft): 4756'  
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: WW Drilling, Rig #8

#### BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	Smith-?	15-14-14	302	302	2.25
2	7-7/8	Smith-F27	15-14-14	4756	4454	105.75

SURVEYS: 302'-0.75, 4417'-1.00, 4756'-1.25

#### GENERAL DRILLING & PUMP INFORMATION:

Drilling with 8 stands of collars (6.25"x2.25"): 477.15'  
Drilling with 38,000-39,000 lbs on bit and 80-85 RPM.  
Pumping 57 S/M; 7.35 B/M; 800-900 psi at the standpipe.



## Daily Status

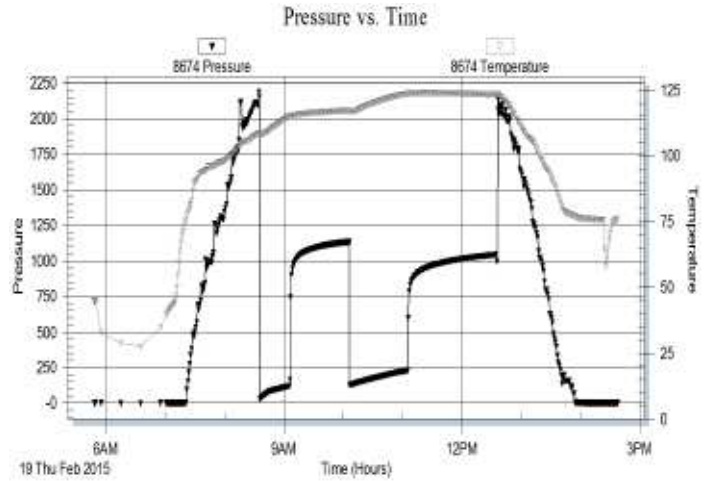
02/13/15 - Spud at 2:00 PM; Set 8-5/8" csg at 301'  
 02/14/15 - 880' Drilling; Lost circ & stuck @ 2,620'  
 02/15/15 - 2,620' Stuck; Spot oil @ 6:15 AM, free at 6:15 PM  
 02/16/15 - 3,042' Drilling; Displace mud @ 3,366'  
 02/17/15 - 3,698' Drilling; Short trip @ 4,019'  
 02/18/15 - 4,162' Drilling  
 02/19/15 - 4,417' TIH with DST #1  
 02/20/15 - 4,605' Drilling; DST #2 @ 4,639'  
 02/21/15 - 4,727' Drilling; TD @ 4,756'; Log in PM

**DST #1: 4,340' - 4,417' (Marmaton)**  
30" - 60" - 60" - 90"

**IF:** Blow built to BOB in 18 minutes  
**ISI:** No blow back  
**FF:** Blow built to BOB in 25 minutes  
**FSI:** No blow back

**RECOVERY:** 466' Total Fluid, consisting of:  
 466' MW (85% W, 15% M)  
**Chlorides recovery:** 38,000 ppm  
**Sampler:** 500 ml Mud & 1500 ml Water

**SIP:** 1122-993; **FP:** 27-162, 126-227; **HP:** 2152-2065;  
**BHT:** 123

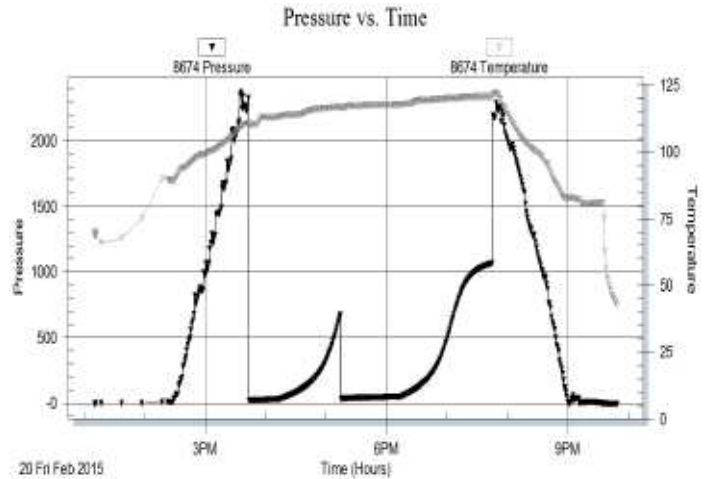


**DST #2: 4,580' - 4,639' (Johnson Zone)**  
30" - 60" - 60" - 90"

**IF:** Weak blow building to 3-1/2 inches  
**ISI:** No blow back  
**FF:** Fair blow building to BOB in 30 minutes  
**FSI:** No blow back

**RECOVERY:** 95' Total Fluid, consisting of:  
 95' OCM (10% O, 90% M)  
**Sampler:** 1800 ml Oil & 100 ml M  
**Oil Gravity:** 30 API

**SIP:** 674-1065; **FP:** 19-34, 34-49; **HP:** 2324-2196;  
**BHT:** 121



## 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
- Sltly

#### 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

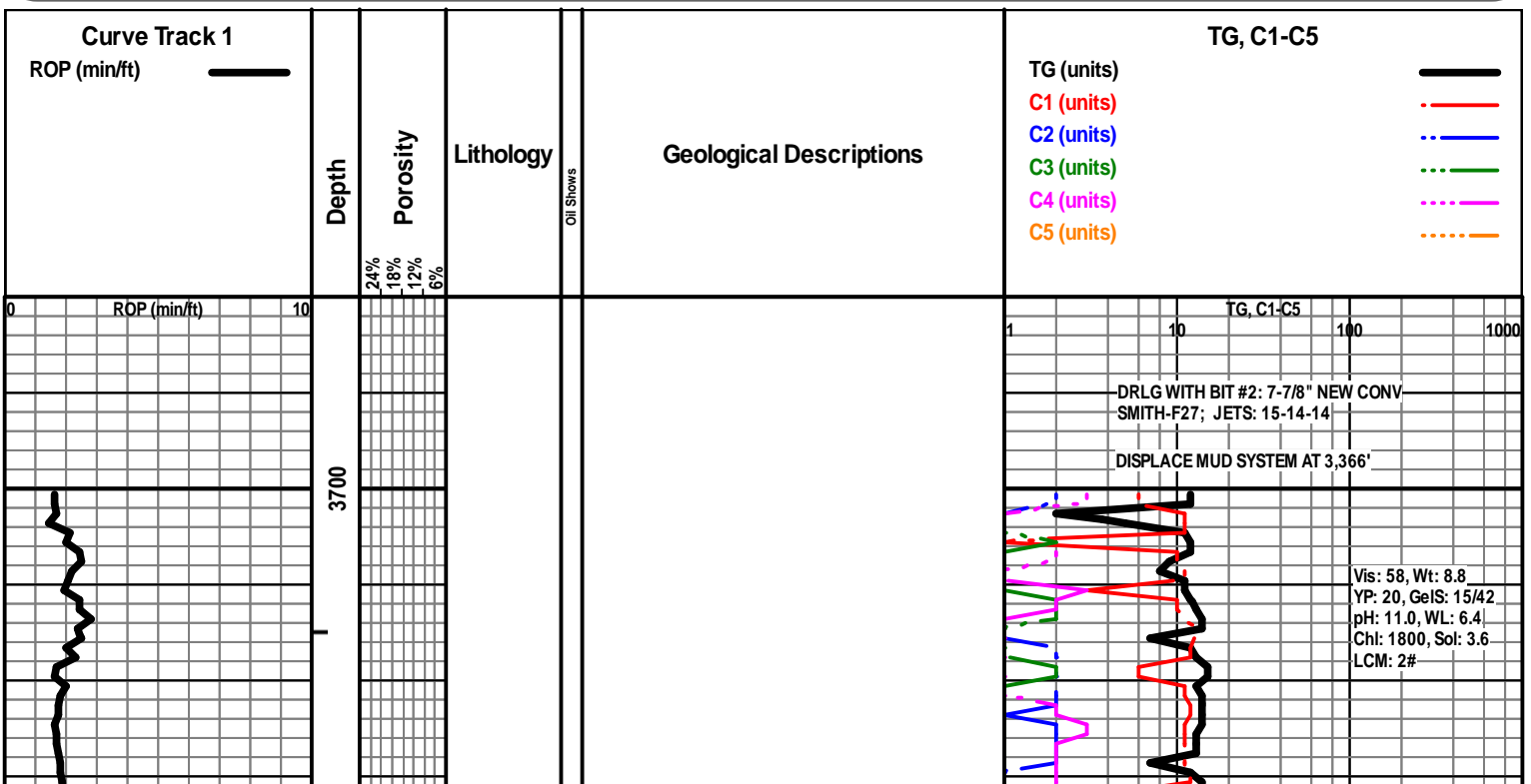
#### INTERVALS

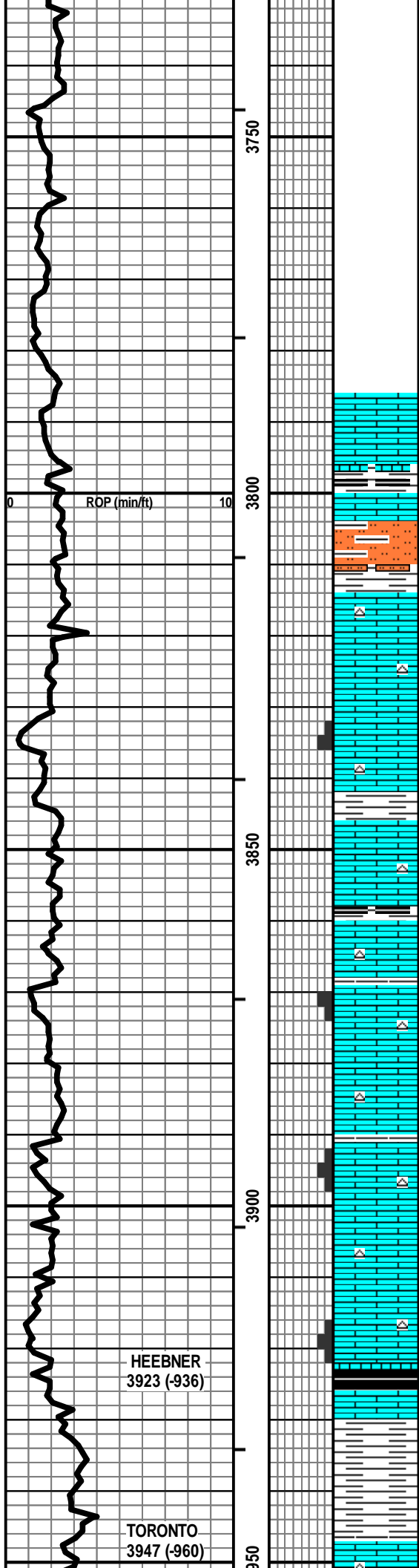
- Core
- Dst

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

#### EVENTS

- Rft
- Sidewall
- Conn





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

LS - TAN / BRN / GY, VF / F XLN, FOSS IN PT, CHKY IN PT, PRED DNS, NS W/ SH + SLTST - LT / MED GY

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

LS - CRM / TAN, F / VF XLN, OOL IN PT, SL FOSS, SCAT P / F INTPART POR, SUBCHKY IN PT, SS ASPH + GILS, NO ODOR, SCAT SPTY BLK STN W/ SCAT CHT - AS ABOVE

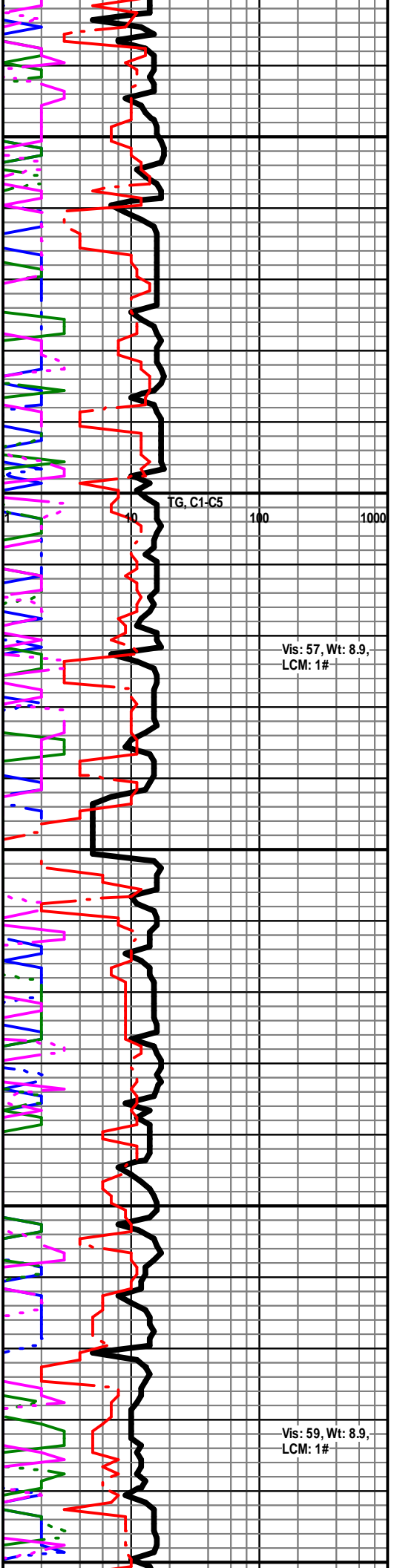
LS - CRM / TAN / SCAT GY, VF / F XLN, OOL + FOSS IN PT, CHKY IN PT, PRED DNS, NS W/ SCAT CHT - AS ABOVE W/ SCAT SH - GY / BLK

LS - CRM / TAN, F / VF XLN, FOSS IN PT, SCAT OOL, P / F PPT + INTXLN POR, SUBCHKY IN PT / DNS, NS W/ CHT - AS ABOVE

LS - TAN / CRM / SCAT BRN, F XLN, FOSS + OOL IN PT, F / G INTXLN + PPT POR, TR VUG POR, SCAT GILS STN, NO ODOR W/ SCAT CHT - AS ABOVE

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

LS - TAN / BRN, VF / F XLN, SL FOSS, PRED DMS, NS W/ SH - GY / GRN, SLTY IN PT



HEEBNER  
3923 (-936)

TORONTO  
3947 (-960)

Vis: 57, Wt: 8.9,  
LCM: 1#

Vis: 59, Wt: 8.9,  
LCM: 1#

LS - CRM / WHT / SCAT LT GY, VF / F XLN, SCAT M  
REXLN CALC, TR FOSS, TR P INTXLN POR, SUBCHKY  
IN PT, PRED DNS, NS W/ CHT - WHT / LT GY / CRM

LANSING  
3968 (-981)

LS - CRM / TAN, F XLN, OOL, SL FOSS, P / F INTOOL +  
PPT POR, SUBCHKY IN PT / DNS, NS

LS - CRM / TAN, VF / F XLN / SCAT M XLN, OOL IN PT,  
TR P INTXLN POR, PRED DNS, NS

LS - CRM / TAN / SCAT LT GY, F XLN, OOL IN PT, SL  
FOSS, SCAT P / TR F PPT + INTXLN POR, TR VUG POR,  
VSSFO, SS ASPH, NO ODOR, SPTY STN, F / G FLUOR, P /  
G CUT, SCAT BARR POR

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

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

LS - CRM / TAN / SCAT BRN, F XLN, OOL IN PT, TR  
FOSS, TR VP INTXLN POR, PRED DNS, V FT ODOR,  
NSFO, TR SPTY STN

LS - CRM / SCAT TAN, VF / F / SCAT M XLN, TR OOL,  
SCAT P / TR F INTXLN + PPT POR, TR P VUG POR,  
SUBCHKY IN PT / DNS, NS

LS - CRM / LT GY / SCAT TAN, F / VF XLN, OOL IN PT, P /  
F INTXLN POR IN PT, NS

LS - SIM TO ABOVE, SCAT CHKY, PRED DNS, NS

LS - CRM / TAN / GY, F / VF XLN, SL FOSS + OOL, SCAT  
P INTXLN POR, TR P FOSSMOLD POR, CHKY IN PT, NS  
W/ SCAT CHT - GY / TAN

MUNCIE CREEK  
4140 (-1153)

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

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

LS - CRM / TAN / GY, VF / F XLN, OOL IN PT, P / F INTOOL POR IN PT, NS W/ CHT - GY / TAN

A

B

C

D

E

F

G

H

OP (min/ft)

CFS @ 4019'

TG, C1-C5

SHORT TRIP @ 4,019'

Vis: 60, Wt: 8.9,  
LCM: 1#

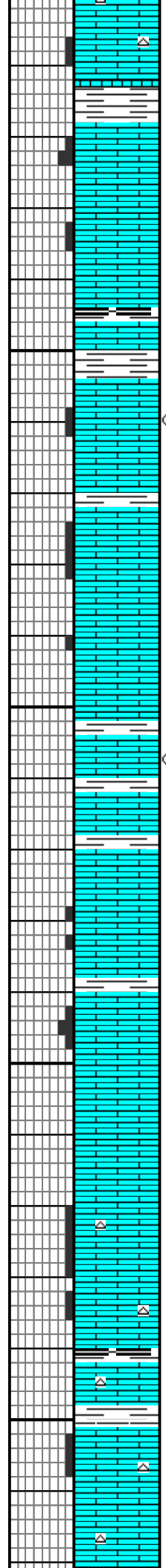
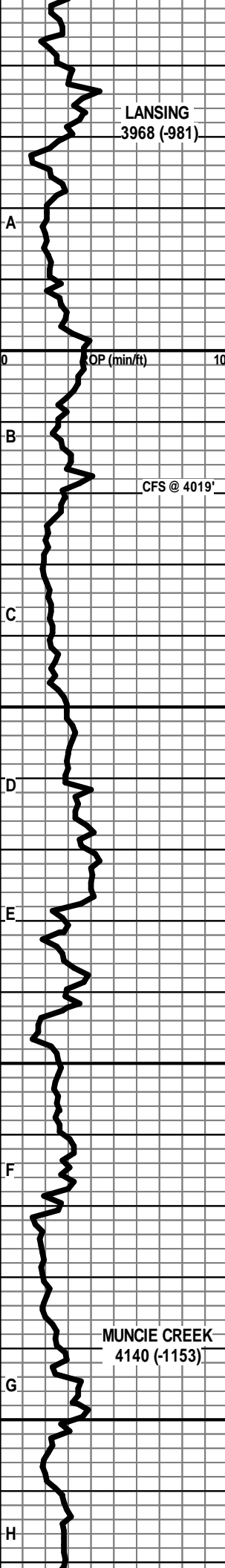
Vis: 57, Wt: 9.0  
YP: 19, GelS: 14/41  
pH: 10.0, WL: 7.2  
Chl: 2300, Sol: 4.9  
LCM: 1#

GAS EXTRACTOR PLUGGING

GAS EXTRACTOR PLUGGING

WORK ON GAS EXTRACTOR

30  
4000  
4050  
4100  
4150



LS - CRM / WHT / SCAT LT GY, VF / F XLN, SCAT M  
REXLN CALC, TR FOSS, TR P INTXLN POR, SUBCHKY  
IN PT, PRED DNS, NS W/ CHT - WHT / LT GY / CRM

LS - CRM / TAN, F XLN, OOL, SL FOSS, P / F INTOOL +  
PPT POR, SUBCHKY IN PT / DNS, NS

LS - CRM / TAN, VF / F XLN / SCAT M XLN, OOL IN PT,  
TR P INTXLN POR, PRED DNS, NS

LS - CRM / TAN / SCAT LT GY, F XLN, OOL IN PT, SL  
FOSS, SCAT P / TR F PPT + INTXLN POR, TR VUG POR,  
VSSFO, SS ASPH, NO ODOR, SPTY STN, F / G FLUOR, P /  
G CUT, SCAT BARR POR

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

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

LS - CRM / TAN / SCAT BRN, F XLN, OOL IN PT, TR  
FOSS, TR VP INTXLN POR, PRED DNS, V FT ODOR,  
NSFO, TR SPTY STN

LS - CRM / SCAT TAN, VF / F / SCAT M XLN, TR OOL,  
SCAT P / TR F INTXLN + PPT POR, TR P VUG POR,  
SUBCHKY IN PT / DNS, NS

LS - CRM / LT GY / SCAT TAN, F / VF XLN, OOL IN PT, P /  
F INTXLN POR IN PT, NS

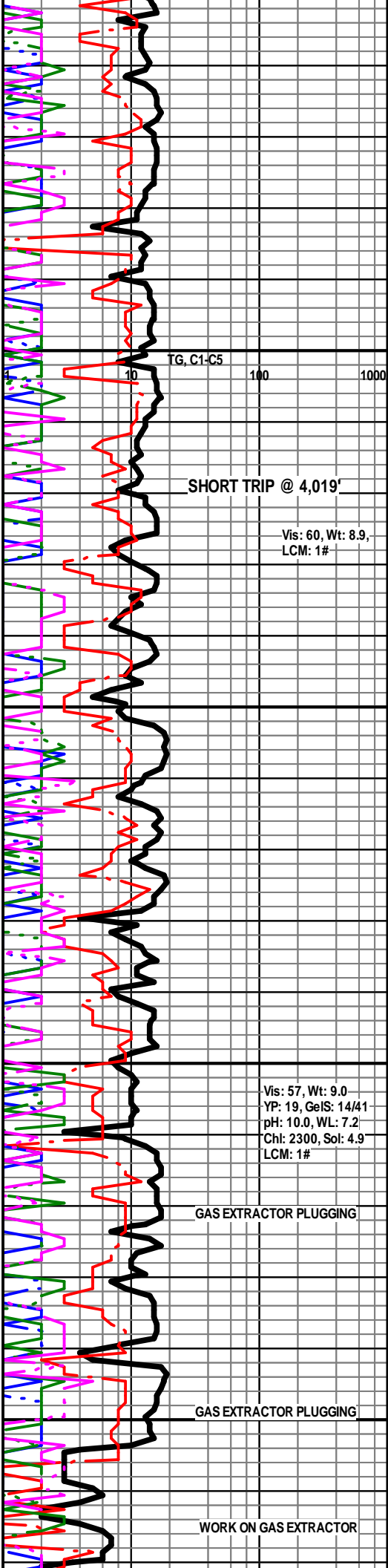
LS - SIM TO ABOVE, SCAT CHKY, PRED DNS, NS

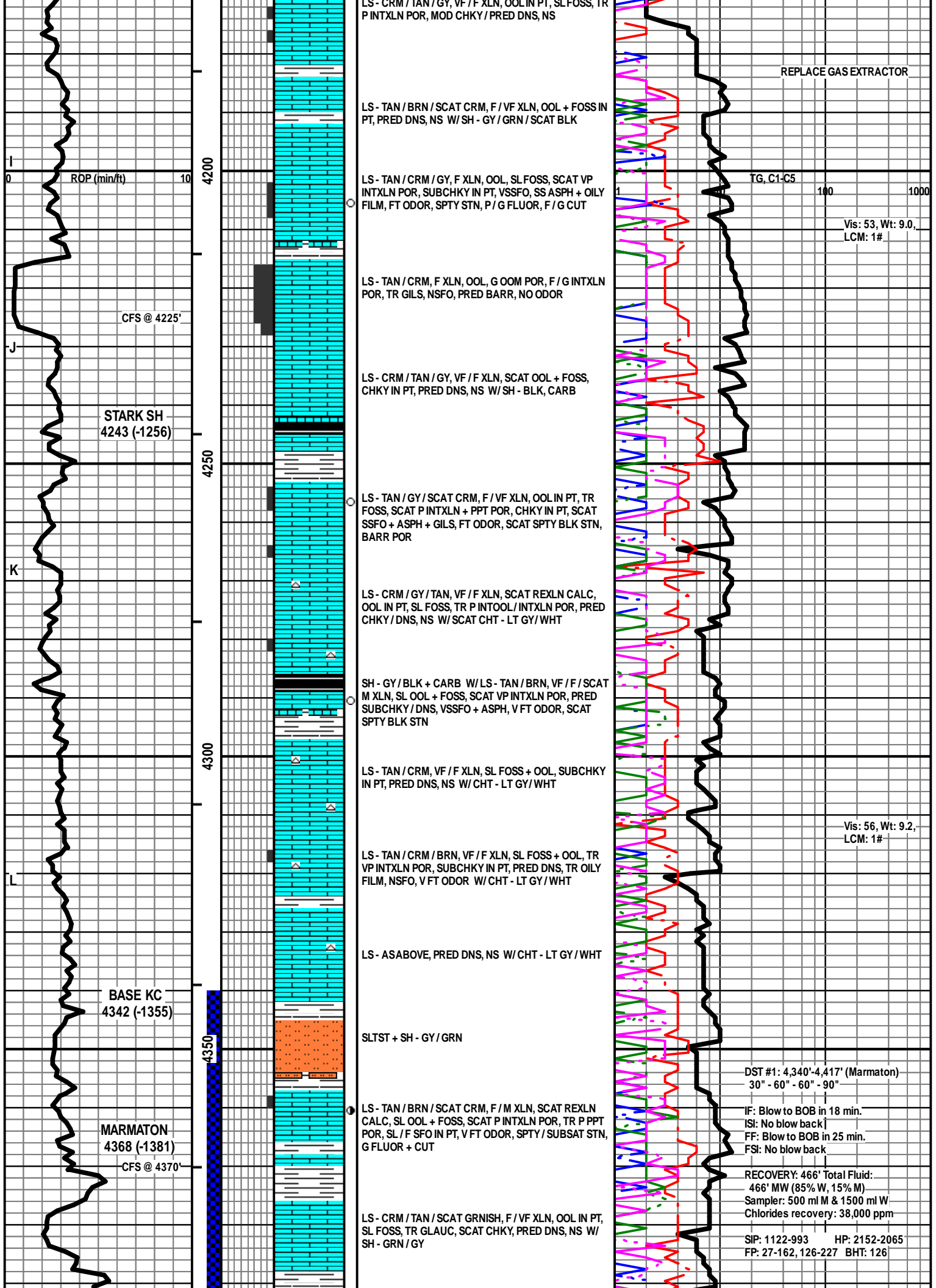
LS - CRM / TAN / GY, F / VF XLN, SL FOSS + OOL, SCAT  
P INTXLN POR, TR P FOSSMOLD POR, CHKY IN PT, NS  
W/ SCAT CHT - GY / TAN

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

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

LS - CRM / TAN / GY, VF / F XLN, OOL IN PT, P / F INTOOL POR IN PT, NS W/ CHT - GY / TAN





LS - CRM / TAN / GY, VF / F XLN, OOL IN PT, SL FOSS, TR P INTXLN POR, MOD CHKY / PRED DNS, NS

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

LS - TAN / CRM / GY, F XLN, OOL, SL FOSS, SCAT VP INTXLN POR, SUBCHKY IN PT, VSSFO, SS ASPH + OILY FILM, FT ODOR, SPTY STN, P / G FLUOR, F / G CUT

LS - TAN / CRM, F XLN, OOL, G OOM POR, F / G INTXLN POR, TR GILS, NSFO, PRED BARR, NO ODOR

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

LS - TAN / GY / SCAT CRM, F / VF XLN, OOL IN PT, TR FOSS, SCAT P INTXLN + PPT POR, CHKY IN PT, SCAT SSFO + ASPH + GILS, FT ODOR, SCAT SPTY BLK STN, BARR POR

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

SH - GY / BLK + CARB W/ LS - TAN / BRN, VF / F / SCAT M XLN, SL OOL + FOSS, SCAT VP INTXLN POR, PRED SUBCHKY / DNS, VSSFO + ASPH, V FT ODOR, SCAT SPTY BLK STN

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

LS - TAN / CRM / BRN, VF / F XLN, SL FOSS + OOL, TR VP INTXLN POR, SUBCHKY IN PT, PRED DNS, TR OILY FILM, NSFO, V FT ODOR W/ CHT - LT GY / WHT

LS - ASABOVE, PRED DNS, NS W/ CHT - LT GY / WHT

SLTST + SH - GY / GRN

LS - TAN / BRN / SCAT CRM, F / M XLN, SCAT REXLN CALC, SL OOL + FOSS, SCAT P INTXLN POR, TR P PPT POR, SL / F SFO IN PT, V FT ODOR, SPTY / SUBSAT STN, G FLUOR + CUT

LS - CRM / TAN / SCAT GRNISH, F / VF XLN, OOL IN PT, SL FOSS, TR GLAUC, SCAT CHKY, PRED DNS, NS W/ SH - GRN / GY

REPLACE GAS EXTRACTOR

TG, C1-C5

100 1000

Vis: 53, Wt: 9.0, LCM: 1#

Vis: 56, Wt: 9.2, LCM: 1#

DST #1: 4,340'-4,417' (Marmaton)  
30" - 60" - 60" - 90"

IF: Blow to BOB in 18 min.  
ISI: No blow back  
FF: Blow to BOB in 25 min.  
FSI: No blow back

RECOVERY: 466' Total Fluid:  
466' MW (85% W, 15% M)  
Sampler: 500 ml M & 1500 ml W  
Chlorides recovery: 38,000 ppm

SIP: 1122-993 HP: 2152-2065  
FP: 27-162, 126-227 BHT: 126

STARK SH  
4243 (-1256)

BASE KC  
4342 (-1355)

MARMATON  
4368 (-1381)

CFS @ 4225'

CFS @ 4370'

4200

4250

4300

4350

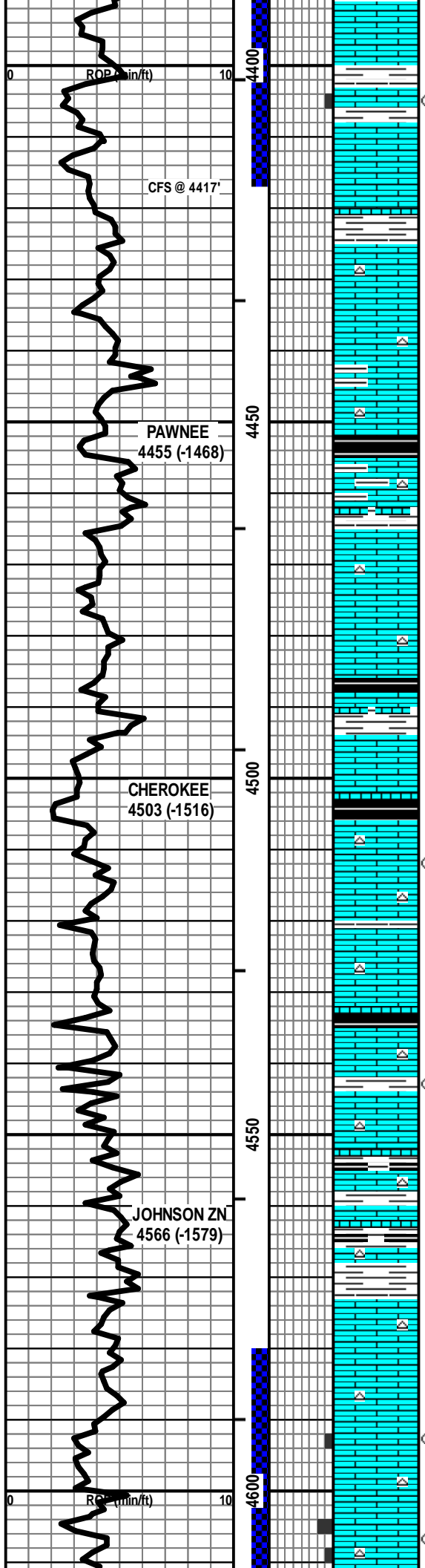
I

J

K

L

ROP (min/ft)



LS - CRM / TAN / GY, VF / F XLN, SL OOL, TR FOSS, SCAT CHKY, PRED DNS, NS

LS - CRM / TAN, F / SCAT M XLN, SCAT REXLN CALC, OOL + FOSS IN PT, P / F INTXLN POR, TR P VUG POR, SCAT CHKY, SL / F SFO IN PT, SSGB, V FT ODOR, SCAT SPTY STN, G FLUOR, PRED G CUT W/LS - CRM / TAN, F / VF XLN, SCAT REXLN CALC, PRED SUBCHKY / DNS, NS

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

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

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

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

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

LS - TAN / BRN / SCAT CRM, F / VF XLN, OOL IN PT, SL FOSS, TR VP INTOOL POR, PRED DNS, TR FO, NO ODOR, TR SPTY STN W/ CHT - GY / WHT / CRM

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

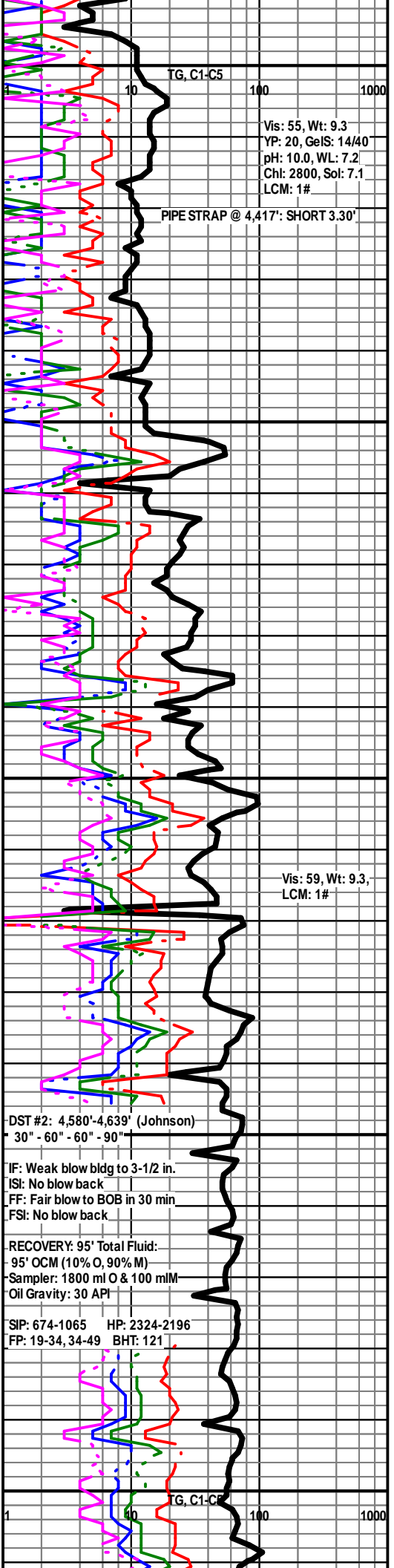
LS - CRM / TAN, VF / F XLN, SCAT OOL + FOSS, SUBCHKY IN PT, TR VP INTXLN POR, PRED DNS, TR FO, NO ODOR, TR SPTY STN W/ CHT - GY

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

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

LS - TAN / BRN / CRM, F / VF XLN, SCAT REXLN CALC, FOSS + OOL IN PT, SCAT P / TR F INTXLN POR, PRED DNS, SL / F SFO + GB, FT ODOR, SCAT SPTY STN, G FLUOR + CUT W/ CHT - GY / TAN / SCAT WHT

LS - TAN / CRM / BRN / SCAT GY, F / VF XLN, OOL IN PT, SL FOSS, SCAT P / F INTXLN + PPT POR, SL / F SFO + GB, G ODOR, SCAT SPTY / TR SAT STN, G FLUOR + CUT W/ CHT - AA



Vis: 55, Wt: 9.3  
 YP: 20, GelS: 14/40  
 pH: 10.0, WL: 7.2  
 Chl: 2800, Sol: 7.1  
 LCM: 1#

PIPE STRAP @ 4,417': SHORT 3.30'

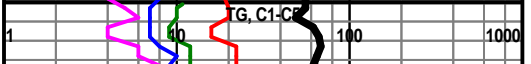
Vis: 59, Wt: 9.3,  
 LCM: 1#

DST #2: 4,580'-4,639' (Johnson)  
 30" - 60" - 60" - 90"

IF: Weak blow bldg to 3-1/2 in.  
 ISI: No blow back  
 FF: Fair blow to BOB in 30 min  
 FSI: No blow back

RECOVERY: 95' Total Fluid:  
 95' OCM (10% O, 90% M)  
 Sampler: 1800 ml O & 100 ml M  
 Oil Gravity: 30 API

SIP: 674-1065 HP: 2324-2196  
 FP: 19-34, 34-49 BHT: 121



COY W/CHT-AA

LS - CRM / TAN / BRN, F / VF XLN, SCAT REXLN CALC, SL OOL + FOSS, SUBCHKY IN PT, SCAT P / F INTXLN + PPT POR, TR P VUG POR, SL / F SFO + GB, G ODOR, SCAT SPTY / TR SAT STN, G FLUOR + CUT W/CHT-AA

LS - CRM / TAN / BRN, SIM TO ABOVE, PRED DNS, NS W/SCAT CHT - GY/TAN W/SCAT SH - GY/BLK

PRED SH - GY / GRN / SCAT BLK

PRED SH - GY / GRN / SCAT BLK, SLTYIN PT W/TR SS - GY/BLK, VF GR, P / NO INTGR POR, NS

SS - LT GY, VF / F GR, W SRTD, SA / SR, SIL CEM, SCAT CHL, P / G INTGR POR, NS W/SCAT SS - LT GY, F / M GR, F SRTD, SA / R, SIL CEM, F / G INTGR POR, NS

ABNT SS - AS ABOVE W/ ABNT SH - GRN / GY W/ SCAT LS - WHT / CRM / SCAT TAN, VF XLN, V AREN, SL OOL IN PT, CHKY / DNS, NS W/SCAT CHT - GY / TAN

LS - WHT / CRM, VF XLN, OOL, V AREN, CHKY / DNS, NS W/ ABNT SS & SH - AS ABOVE W/ TR CHT - GY

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

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

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

TOTAL DEPTH 4756 (-1769)

Vis: 54  
Wt: 9.4  
YP: 18  
GelS: 12/36  
pH: 9.5  
WL: 8.0  
Chl: 3400  
Sol: 7.4  
LCM: 1#

Vis: 50, Wt: 9.3,  
LCM: 1#

MORROW SH  
4637 (-1650)

CFS @ 4672'  
MISS ST GEN  
4675 (-1688)

ST LOUIS  
4715 (-1728)

4650

4700

4750

