

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

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

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

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

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

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

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

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

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

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

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

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

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

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

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

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

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

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

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

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

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	CIRCLE N TRUST 2-6(SE)
Doc ID	1408312

All Electric Logs Run

CNL/CDL
BHCS
DIL
MEL





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Falcon Exploration Inc.

**6-28s-30w Grey Co KS**

125 N. Market STE 1252  
Wichita KS  
67202  
ATTN: Keith Reavis

**Circle N. 2-6**

Job Ticket: 64428

**DST#: 1**

Test Start: 2018.02.17 @ 20:06:15

## GENERAL INFORMATION:

Formation: **Lansing H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:04:15

Time Test Ended: 06:24:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

**Interval: 4433.00 ft (KB) To 4461.00 ft (KB) (TVD)**

Reference Elevations: 2843.00 ft (KB)

Total Depth: 4461.00 ft (KB) (TVD)

2833.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

## Serial #: 8647

Press@RunDepth: 206.73 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.02.17 End Date: 2018.02.18

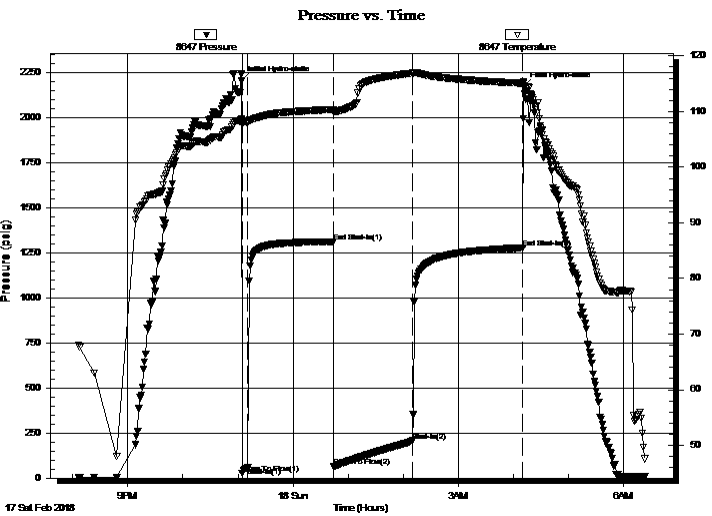
Last Calib.: 2018.02.18

Start Time: 20:06:15 End Time: 06:24:15

Time On Btm: 2018.02.17 @ 23:04:00

Time Off Btm: 2018.02.18 @ 04:11:15

TEST COMMENT: IF: Built to 4" blow (ipro)  
IS: No return blow  
FF: Built to 25.36 blow (ipro)  
FS: No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2201.51	108.77	Initial Hydro-static
1	27.86	107.67	Open To Flow (1)
7	58.95	108.08	Shut-In(1)
101	1310.53	110.36	End Shut-In(1)
101	63.10	109.87	Open To Flow (2)
187	206.73	116.87	Shut-In(2)
307	1276.50	115.10	End Shut-In(2)
308	2172.08	114.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
32.00	sw 100%sw (collar)	0.16
248.00	mcw 40%m 60%w	2.98
10.00	w cm 10%w 90%m	0.14

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Falcon Exploration Inc.  
 125 N. Market STE 1252  
 Wichita KS  
 67202  
 ATTN: Keith Reavis

**6-28s-30w Grey Co KS**

**Circle N. 2-6**

Job Ticket: 64428 **DST#: 1**  
 Test Start: 2018.02.17 @ 20:06:15

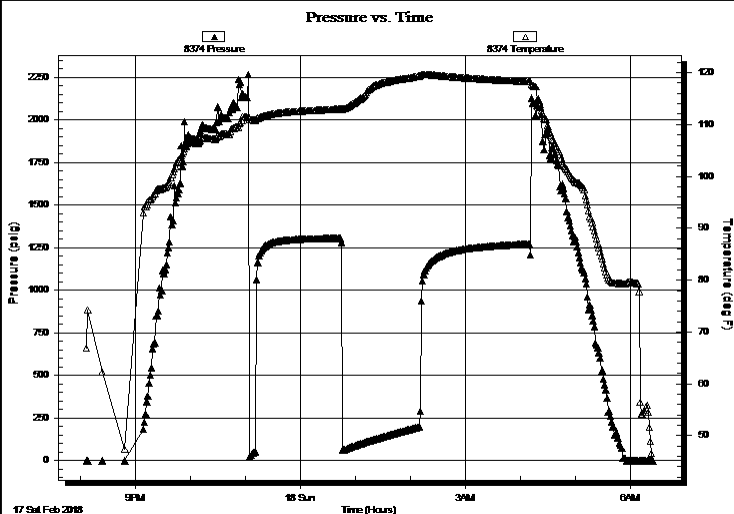
**GENERAL INFORMATION:**

Formation: **Lansing H**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 23:04:15 Tester: Mike Roberts  
 Time Test Ended: 06:24:15 Unit No: 81  
**Interval: 4433.00 ft (KB) To 4461.00 ft (KB) (TVD)** Reference Elevations: 2843.00 ft (KB)  
 Total Depth: 4461.00 ft (KB) (TVD) 2833.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

**Serial #: 8374**

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.02.17 End Date: 2018.02.18 Last Calib.: 2018.02.18  
 Start Time: 20:06:15 End Time: 06:24:30 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Built to 4" blow (ipro)  
 IS: No return blow  
 FF: Built to 25.36 blow (ipro)  
 FS: No return blow



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
32.00	sw 100%sw (collar)	0.16
248.00	mcw 40%m 60%w	2.98
10.00	w cm 10%w 90%m	0.14

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Falcon Exploration Inc.

**6-28s-30w Grey Co KS**

125 N. Market STE 1252

**Circle N. 2-6**

Wichita KS

Job Ticket: 64428

**DST#: 1**

67202

ATTN: Keith Reavis

Test Start: 2018.02.17 @ 20:06:15

## 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:

53000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
32.00	sw 100%sw (collar)	0.157
248.00	mcw 40%m 60%w	2.978
10.00	w cm 10%w 90%m	0.140

Total Length: 290.00 ft      Total Volume: 3.275 bbl

Num Fluid Samples: 0

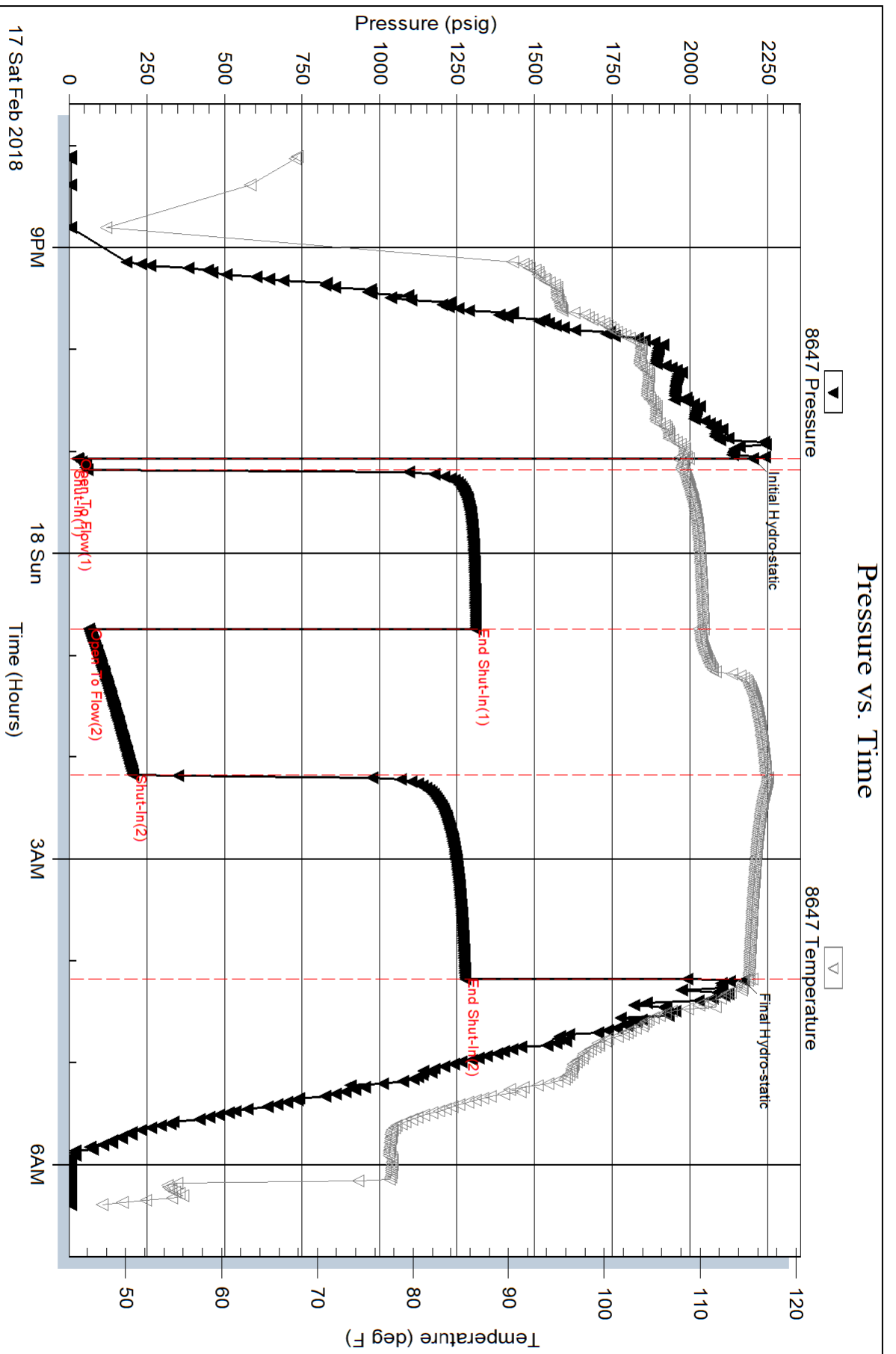
Num Gas Bombs: 0

Serial #:

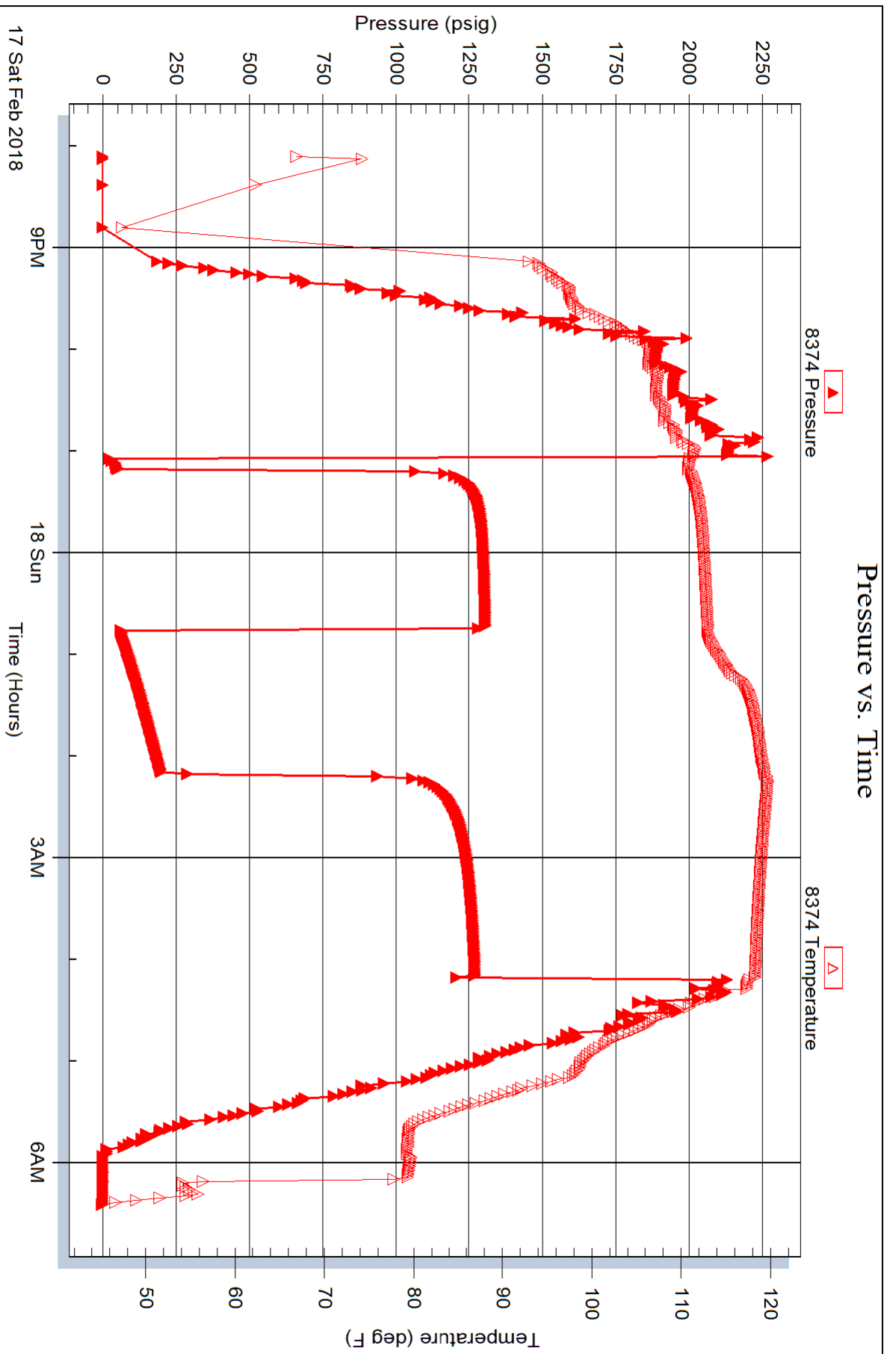
Laboratory Name:

Laboratory Location:

Recovery Comments: .262@39.6\*= 53,000 ppm









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TESTING, INC.**

# DRILL STEM TEST REPORT

Falcon Exploration Inc.

**6-28s-30w Gray,KS**

125 N. Market STE 1252  
Wichita KS 67202

**Circle N. 2-6**

ATTN: Keith Reavis

Job Ticket: 64429

**DST#: 2**

Test Start: 2018.02.20 @ 04:25:15

## GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:59:00

Time Test Ended: 14:04:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

**Interval: 4944.00 ft (KB) To 4987.00 ft (KB) (TVD)**

Reference Elevations: 2843.00 ft (KB)

Total Depth: 4944.00 ft (KB) (TVD)

2833.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8647**

**Inside**

Press@RunDepth: 53.03 psig @ 4982.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.02.20

End Date:

2018.02.20

Last Calib.:

2018.02.20

Start Time: 04:25:15

End Time:

14:04:45

Time On Btm:

2018.02.20 @ 06:57:45

Time Off Btm:

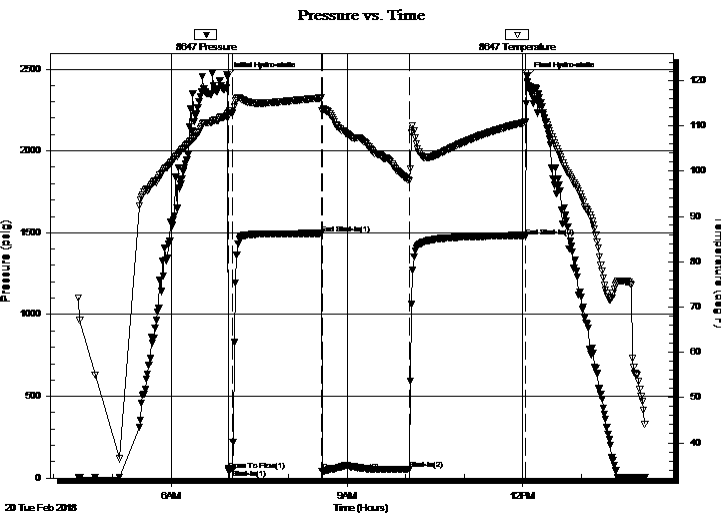
2018.02.20 @ 12:04:15

TEST COMMENT: IF:BOB in 30 seconds

IS:No return blow

FF:BOB instantly GTS in 15 min TSTM

FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2451.33	112.61	Initial Hydro-static
2	49.63	112.82	Open To Flow (1)
6	53.81	112.64	Shut-In(1)
96	1495.38	116.13	End Shut-In(1)
97	42.43	113.38	Open To Flow (2)
186	53.03	97.73	Shut-In(2)
305	1477.49	110.80	End Shut-In(2)
307	2456.63	121.09	Final Hydro-static

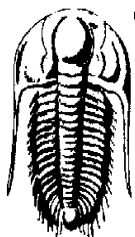
## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m (collar)	0.02
0.00	GTS	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Falcon Exploration Inc.  
125 N. Market STE 1252  
Wichita KS 67202  
ATTN: Keith Reavis

**6-28s-30w Gray, KS**

**Circle N. 2-6**

Job Ticket: 64429

**DST#: 2**

Test Start: 2018.02.20 @ 04:25:15

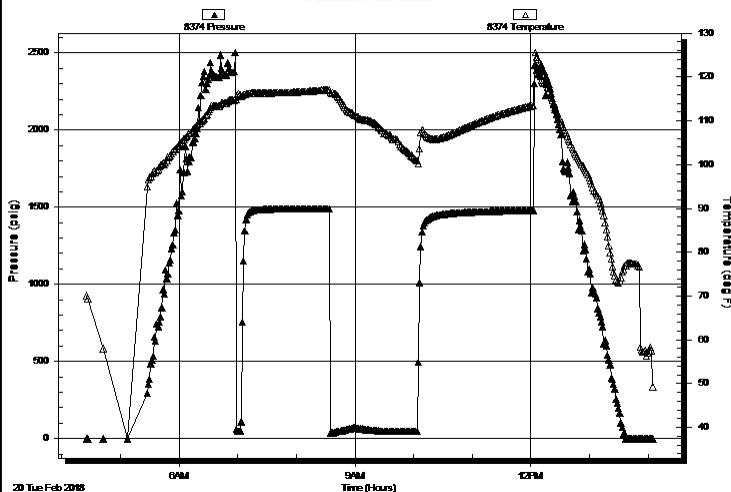
## GENERAL INFORMATION:

Formation: **Cherokee**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 06:59:00  
Time Test Ended: 14:04:45  
**Interval: 4944.00 ft (KB) To 4987.00 ft (KB) (TVD)**  
Total Depth: 4944.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Mike Roberts  
Unit No: 81  
Reference Elevations: 2843.00 ft (KB)  
2833.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8374      Outside**  
Press@RunDepth:                      psig @ 4982.00 ft (KB)                      Capacity: 8000.00 psig  
Start Date: 2018.02.20                      End Date: 2018.02.20                      Last Calib.: 2018.02.20  
Start Time: 04:25:15                      End Time: 14:05:00                      Time On Btm:  
Time Off Btm:

TEST COMMENT: IF:BOB in 30 seconds  
IS:No return blow  
FF:BOB instantly GTS in 15 min TSTM  
FS:No return blow

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m (collar)	0.02
0.00	GTS	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Falcon Exploration Inc.

**6-28s-30w Gray,KS**

125 N. Market STE 1252  
Wichita KS 67202

**Circle N. 2-6**

Job Ticket: 64429

**DST#: 2**

ATTN: Keith Reavis

Test Start: 2018.02.20 @ 04:25:15

### 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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m (collar)	0.025
0.00	GTS	0.000

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

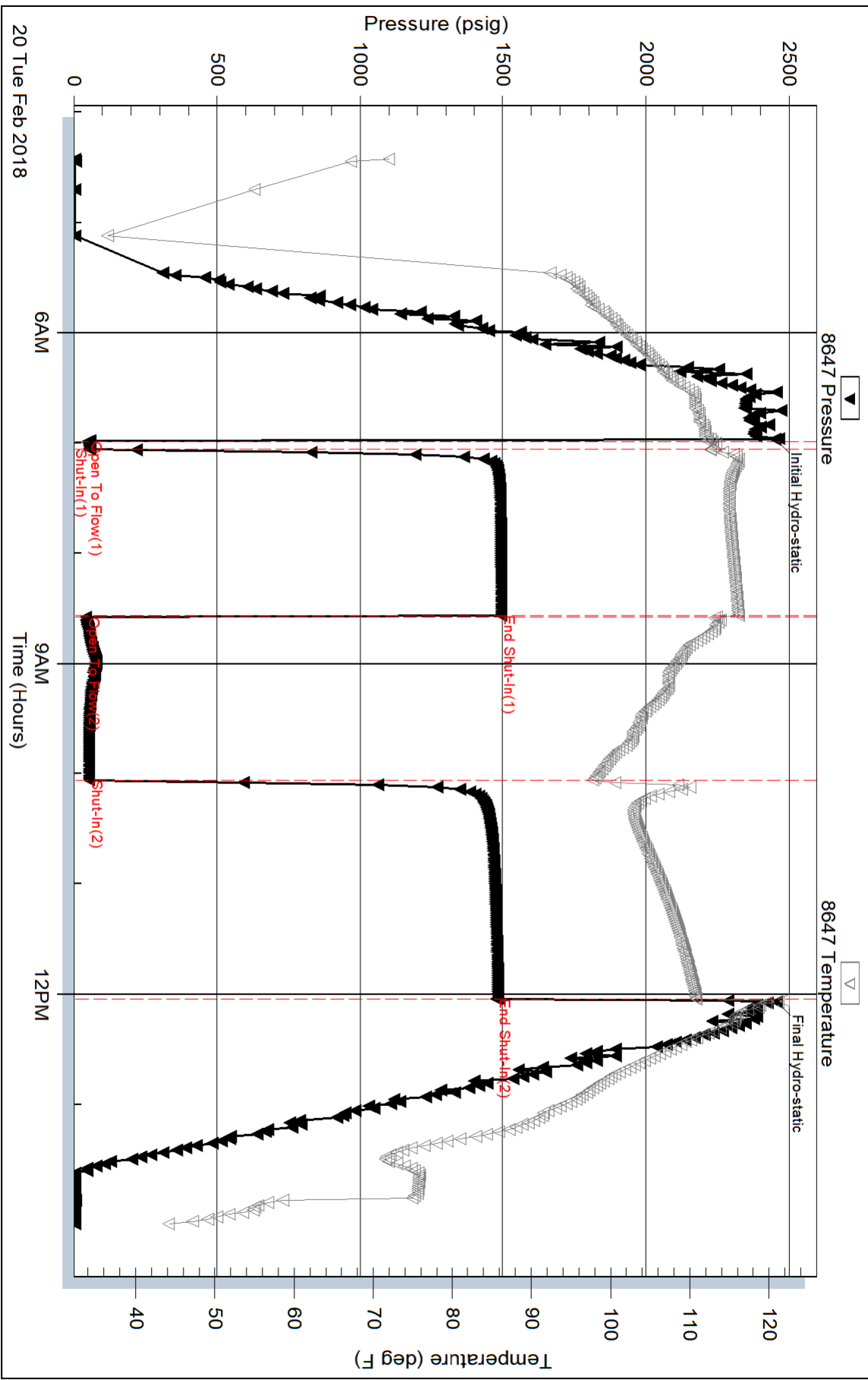
Serial #:

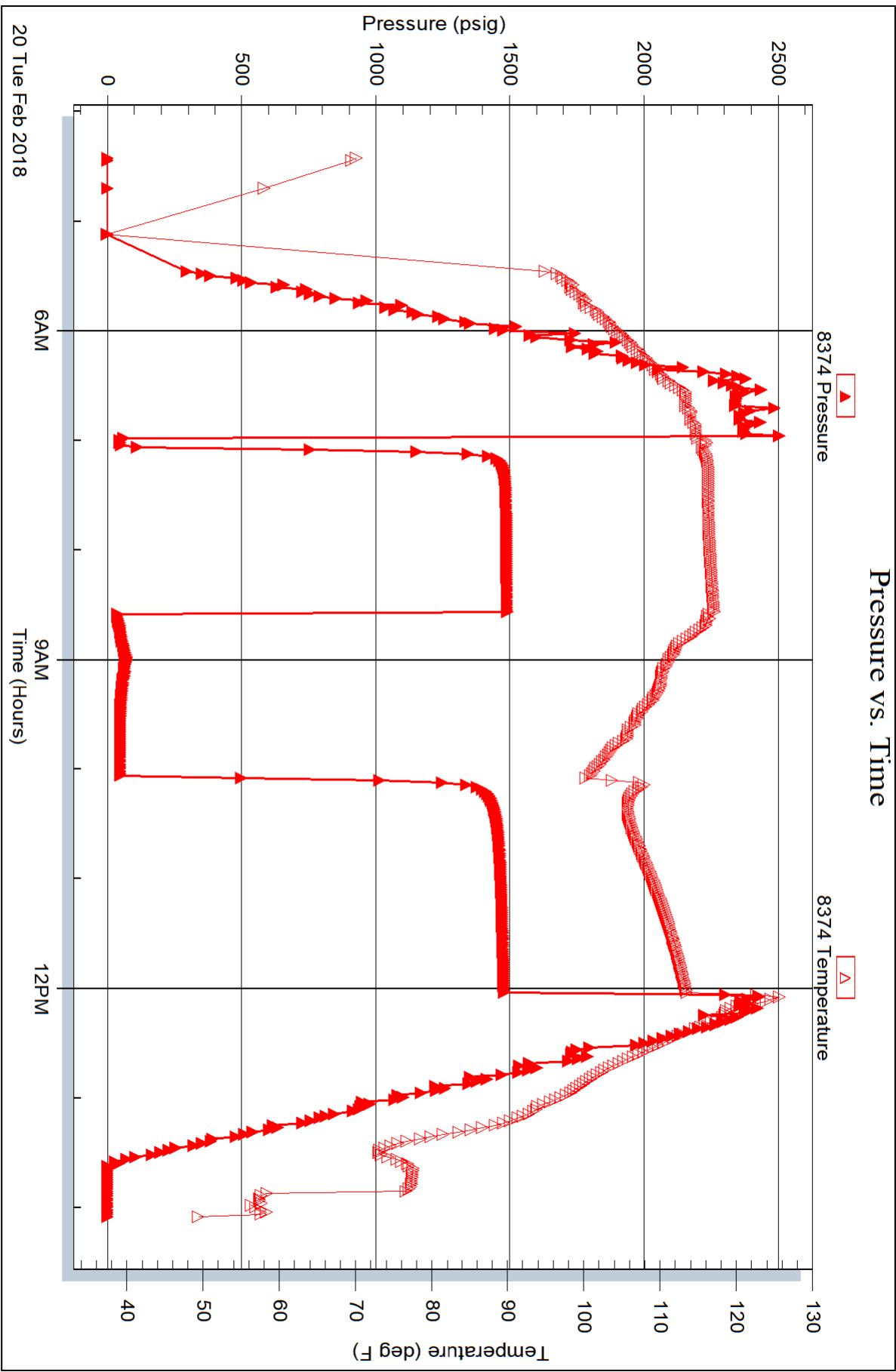
Laboratory Name:

Laboratory Location:

Recovery Comments: Gas to surface low odor.

# Pressure vs. Time







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Falcon Exploration Inc.  
125 N. Market STE 1252  
Wichita KS  
67202  
ATTN: Keith Reavis

**6-28s-30w Gray Co KS**

**Circle N. 2-6**

Job Ticket: 64430

**DST#: 3**

Test Start: 2018.02.22 @ 06:09:15

## GENERAL INFORMATION:

Formation: **St.Louis**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 08:21:45  
 Tester: Mike Roberts  
 Time Test Ended: 15:56:00  
 Unit No: 81  
 Interval: **5306.00 ft (KB) To 5326.00 ft (KB) (TVD)**  
 Reference Elevations: 2843.00 ft (KB)  
 Total Depth: 5326.00 ft (KB) (TVD)  
 2833.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 10.00 ft

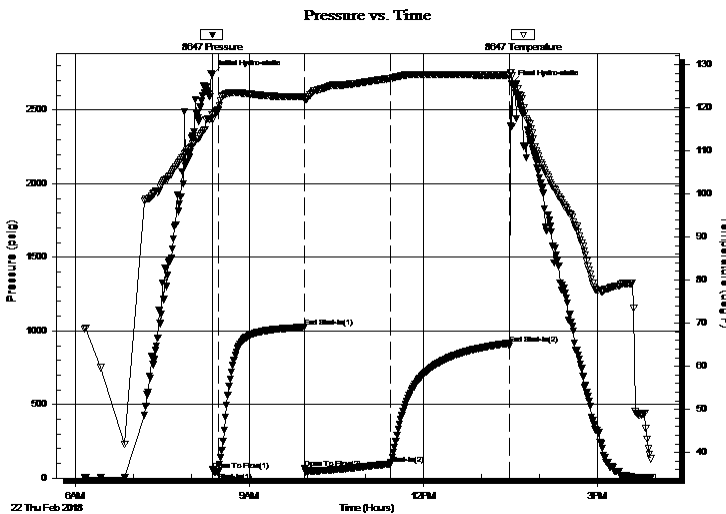
**Serial #: 8647**

**Inside**

Press@RunDepth: 95.28 psig @ 5307.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.02.22 End Date: 2018.02.22 Last Calib.: 2018.02.22  
 Start Time: 06:09:15 End Time: 15:56:00 Time On Btm: 2018.02.22 @ 08:21:30  
 Time Off Btm: 2018.02.22 @ 13:31:00

**TEST COMMENT:** IF:BOB in 3 min...No gas smell  
 IS:No return blow  
 FF:BOB instantly ...No gas smell  
 FS:Bled off 20 min....BOB instantly

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2741.59	118.32	Initial Hydro-static
1	56.53	117.36	Open To Flow (1)
6	39.02	119.45	Shut-In(1)
95	1024.74	122.61	End Shut-In(1)
96	66.32	122.09	Open To Flow (2)
185	95.28	126.78	Shut-In(2)
307	913.46	127.52	End Shut-In(2)
310	2676.69	128.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocmg 10%o 30%m 60%g (Collar)	0.30
134.00	gco 40%g 60%o	1.63
0.00	GIP= 2835 Ft	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Falcon Exploration Inc.  
125 N. Market STE 1252  
Wichita KS  
67202  
ATTN: Keith Reavis

**6-28s-30w Gray Co KS**

**Circle N. 2-6**

Job Ticket: 64430

**DST#: 3**

Test Start: 2018.02.22 @ 06:09:15

## GENERAL INFORMATION:

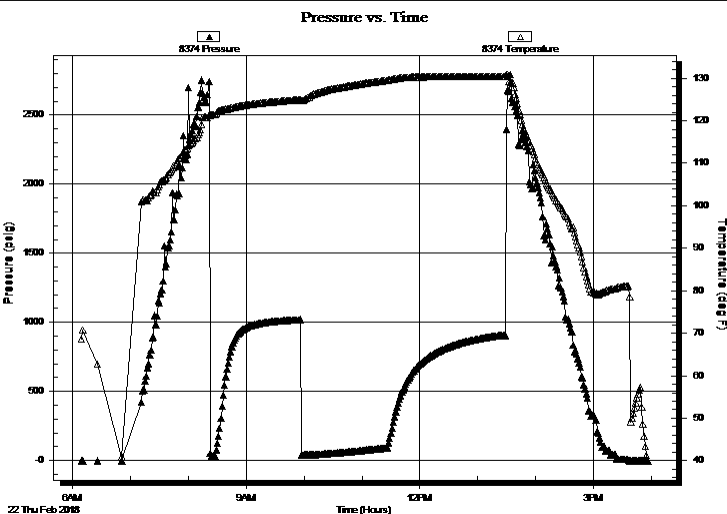
Formation: **St. Louis**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 08:21:45  
 Tester: Mike Roberts  
 Time Test Ended: 15:56:00  
 Unit No: 81  
 Interval: **5306.00 ft (KB) To 5326.00 ft (KB) (TVD)**  
 Reference Elevations: 2843.00 ft (KB)  
 Total Depth: 5326.00 ft (KB) (TVD)  
 2833.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 10.00 ft

**Serial #: 8374**

**Outside**

Press@RunDepth: psig @ 5307.00 ft (KB)  
 Capacity: 8000.00 psig  
 Start Date: 2018.02.22 End Date: 2018.02.22 Last Calib.: 2018.02.22  
 Start Time: 06:09:15 End Time: 15:56:15  
 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF:BOB in 3 min...No gas smell  
 IS:No return blow  
 FF:BOB instantly ...No gas smell  
 FS:Bled off 20 min....BOB instantly



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocmg 10%o 30%m 60%g (Collar)	0.30
134.00	gco 40%g 60%o	1.63
0.00	GIP= 2835 Ft	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Falcon Exploration Inc.

**6-28s-30w Gray Co KS**

125 N. Market STE 1252

**Circle N. 2-6**

Wichita KS

Job Ticket: 64430

**DST#: 3**

67202

ATTN: Keith Reavis

Test Start: 2018.02.22 @ 06:09:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 77.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
60.00	ocmg 10%o 30%m 60%g (Collar)	0.295
134.00	gco 40%g 60%o	1.634
0.00	GIP= 2835 Ft	0.000

Total Length: 194.00 ft      Total Volume: 1.929 bbf

Num Fluid Samples: 0

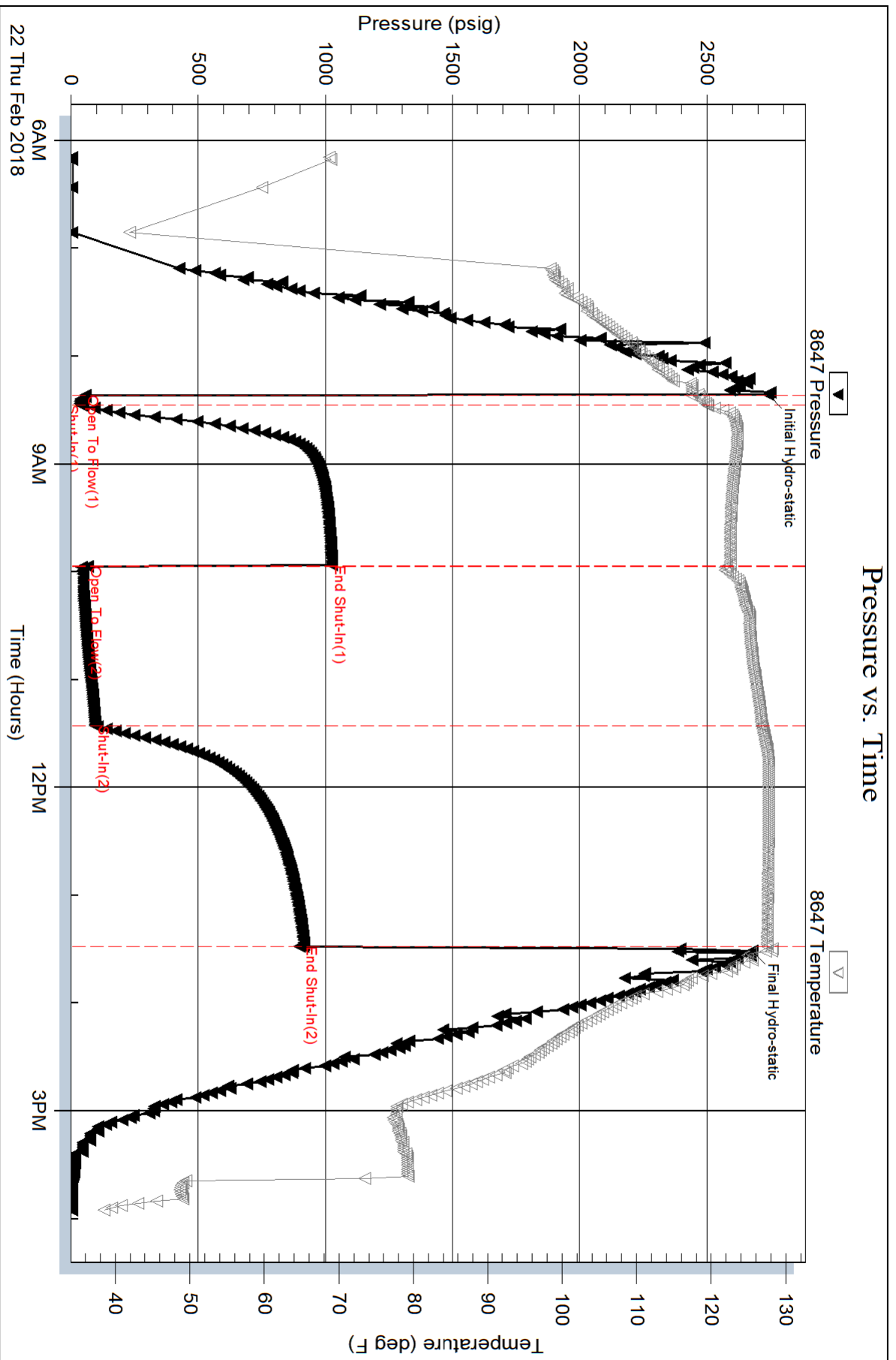
Num Gas Bombs: 0

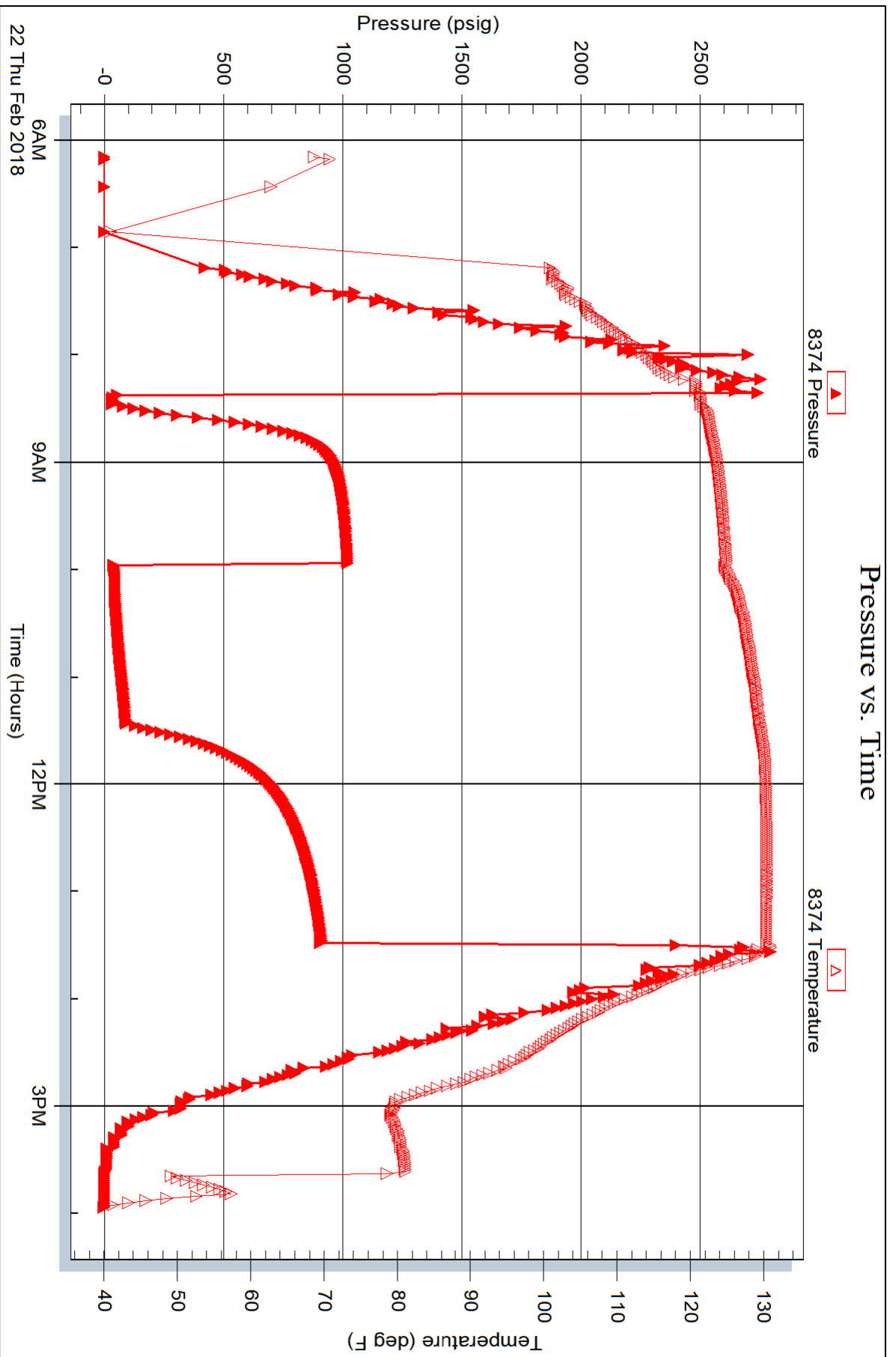
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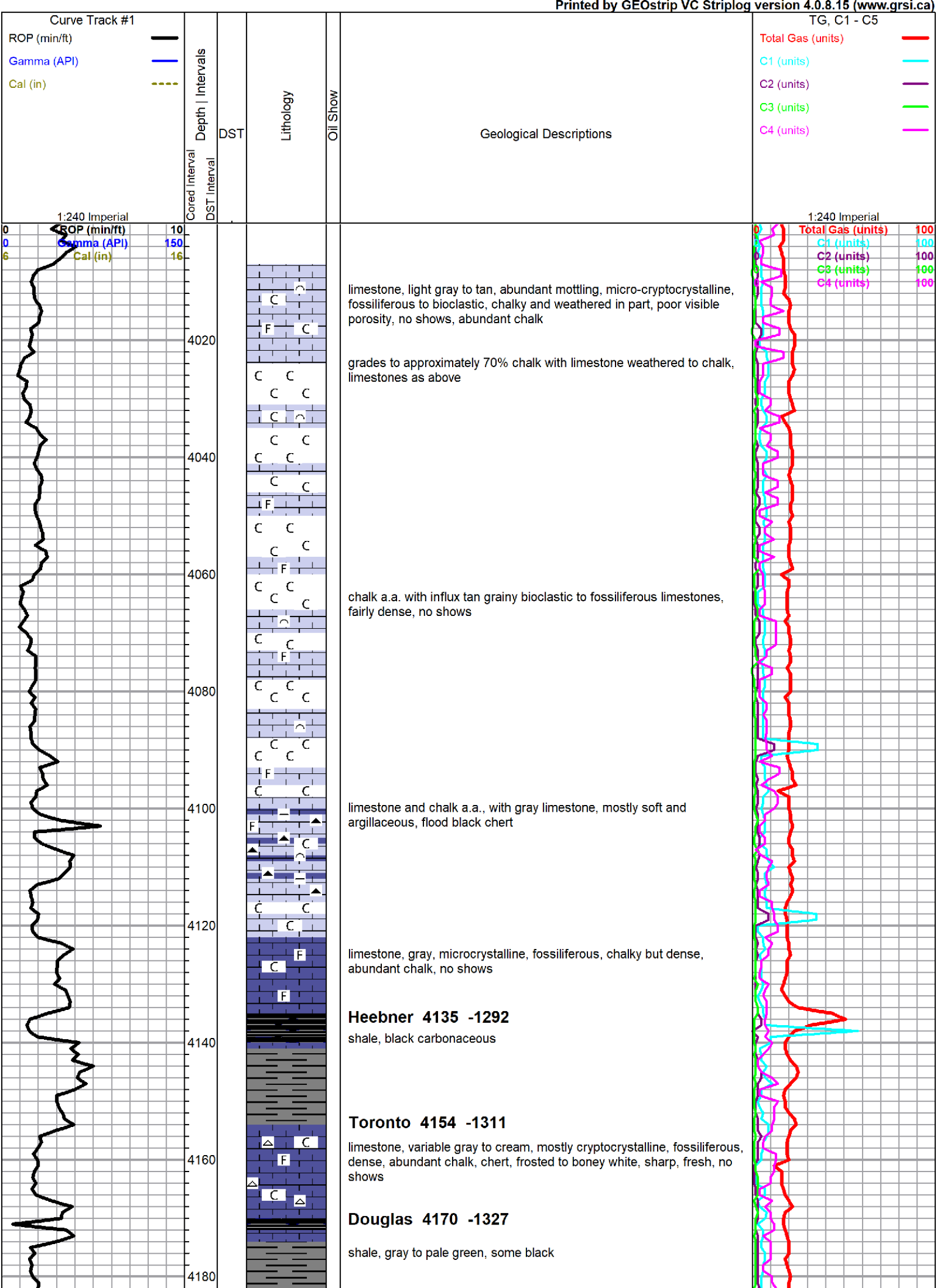
Laboratory Name:

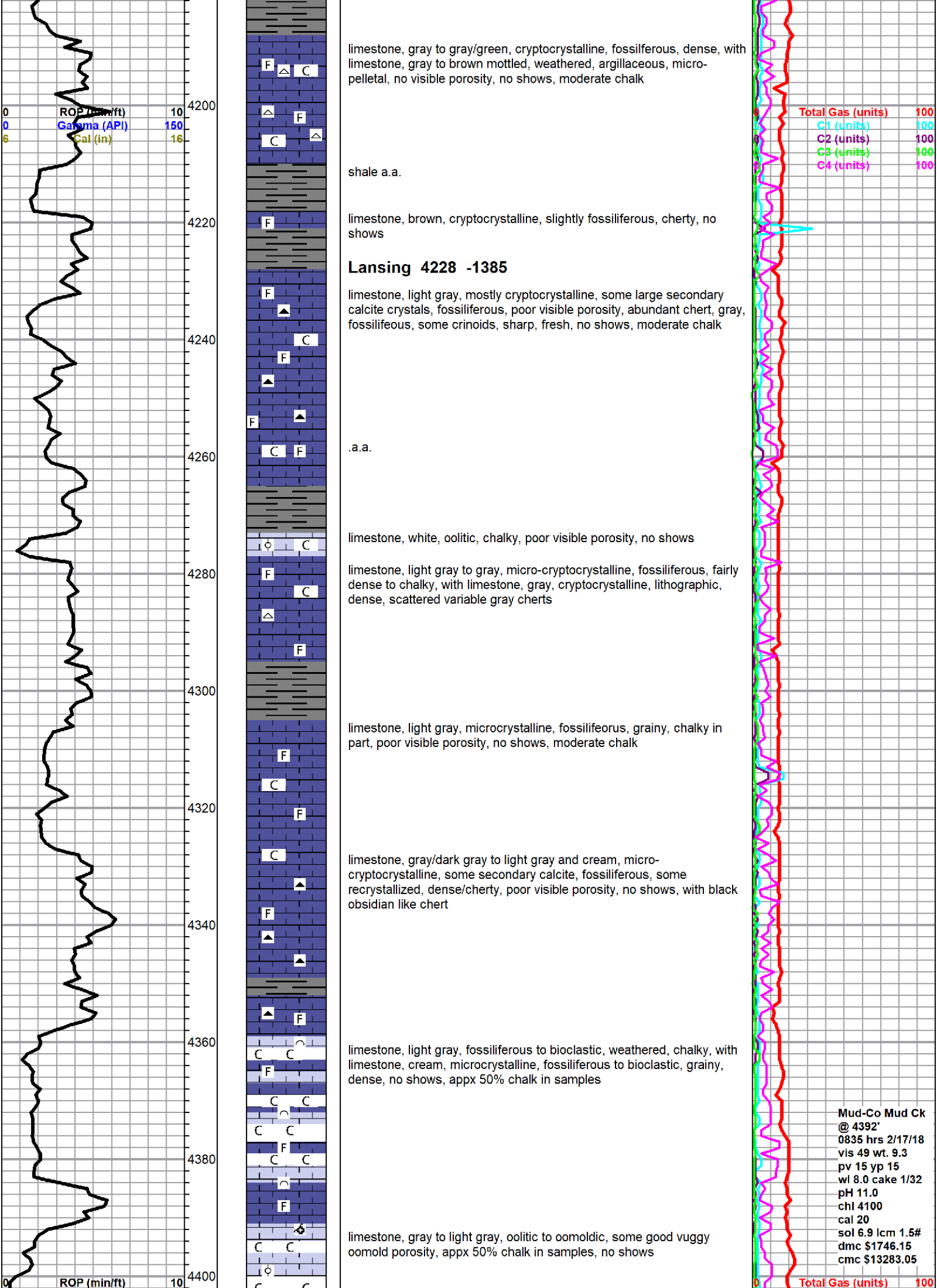
Laboratory Location:

Recovery Comments: API= 25@ 40 corrected to 27 @ 60









limestone, gray to gray/green, cryptocrystalline, fossiliferous, dense, with limestone, gray to brown mottled, weathered, argillaceous, micropelletal, no visible porosity, no shows, moderate chalk

shale a.a.

limestone, brown, cryptocrystalline, slightly fossiliferous, cherty, no shows

**Lansing 4228 -1385**

limestone, light gray, mostly cryptocrystalline, some large secondary calcite crystals, fossiliferous, poor visible porosity, abundant chert, gray, fossiliferous, some crinoids, sharp, fresh, no shows, moderate chalk

.a.a.

limestone, white, oolitic, chalky, poor visible porosity, no shows

limestone, light gray to gray, micro-cryptocrystalline, fossiliferous, fairly dense to chalky, with limestone, gray, cryptocrystalline, lithographic, dense, scattered variable gray cherts

limestone, light gray, microcrystalline, fossiliferous, grainy, chalky in part, poor visible porosity, no shows, moderate chalk

limestone, gray/dark gray to light gray and cream, micro-cryptocrystalline, some secondary calcite, fossiliferous, some recrystallized, dense/cherty, poor visible porosity, no shows, with black obsidian like chert

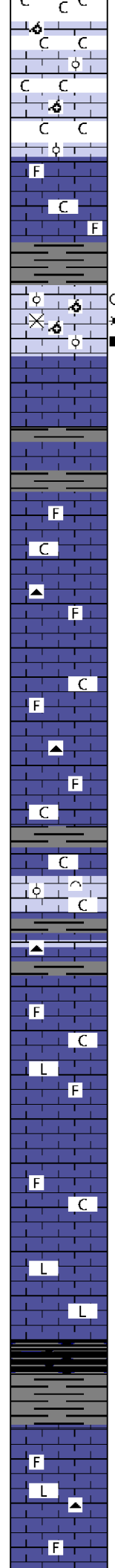
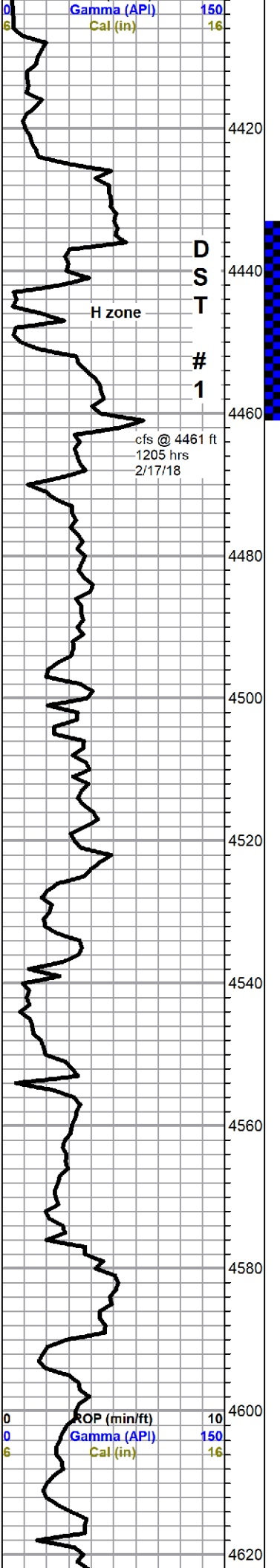
limestone, light gray, fossiliferous to bioclastic, weathered, chalky, with limestone, cream, microcrystalline, fossiliferous to bioclastic, grainy, dense, no shows, appx 50% chalk in samples

limestone, gray to light gray, oolitic to oomoldic, some good vuggy oomold porosity, appx 50% chalk in samples, no shows

Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100

**Mud-Co Mud Ck @ 4392'**  
 0835 hrs 2/17/18  
 vis 49 wt. 9.3  
 pv 15 yp 15  
 wl 8.0 cake 1/32  
 pH 11.0  
 chl 4100  
 cal 20  
 sol 6.9 lcm 1.5#  
 dmc \$1746.15  
 cmc \$13283.05

Total Gas (units)	100
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limestone, gray to dark gray, crypto-microcrystalline, fossiliferous, chalky but dense, no shows

gray mushy shale

limestone, tan, oolitic, some oomoldic, oolites variable 0.5-2 mm, mostly recrystallized, cherty, some secondary calcite and loose crystals, scattered fair solution vugs and molds, good odor, no stain wet or dry, 2 small droplets black oil noted in 30 min wet sample tray, trace gas bubbles, fair green fluorescence, poor cut, fair halo

limestone, light gray to cream and tan, microcrystalline, fossiliferous, grainy and chalky in part, poor visible porosity, scattered tan and gray cherts, sharp, fresh, moderate chalk, no shows

a.a.

a.a. some scattered tan oolitic, gray chalky bioclastic, marked increase in chalk, influx gray shales

limestone, variable gray, micro-cryptocrystalline, mixed chalky, grainy fossiliferous to bioclastic, dense sub-lithographic, slightly fossiliferous, abundant chalk, poor visible porosity, no shows

a.a.

limestone, mostly gray, dense compact lithographic

**Stark Shale 4590 -1747**

shale, black carbonaceous

limestone, mixed gray to cream, micro-cryptocrystalline, dense to chalky fossiliferous, with variable gray, dense lithographic cryptocrystalline, some chalk, trace pyrite and chert, no shows

C1 (units) 100  
 C2 (units) 100  
 C3 (units) 100  
 C4 (units) 100

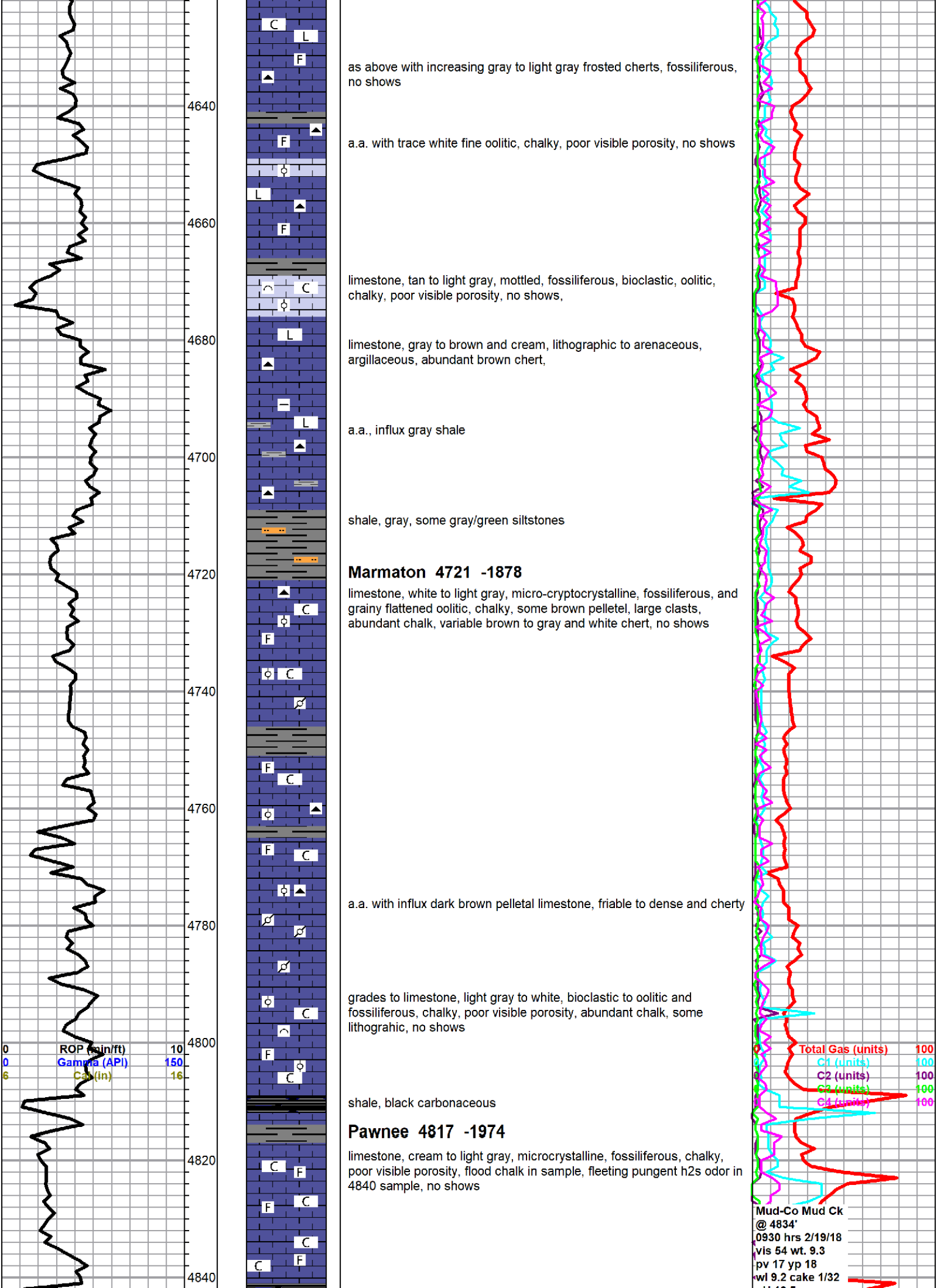
41 unit total

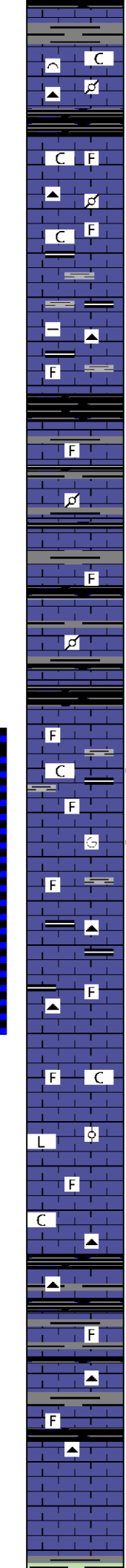
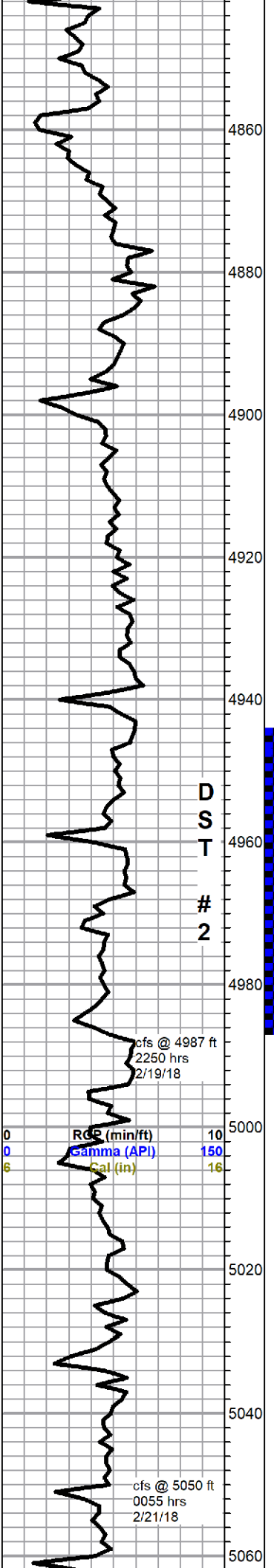
**Mud-Co Mud Ck @ 4461'**  
 0730 hrs 2/18/18  
 vis 61 wt. 9.3  
 pv 17 yp 18  
 wl 7.2 cake 1/32  
 pH 11.0  
 chl 5300  
 cal 20  
 sol 6.8 lcm 2#  
 dmc \$997.56  
 cmc \$14280.61

Strap 0.49 short  
 to board  
 deviation survey  
 3/4 deg

shale kick

Total Gas (units) 100  
 C1 (units) 100  
 C2 (units) 100  
 C3 (units) 100  
 C4 (units) 100





limestone, light gray, bioclastic to pelletal, very chalky, grainy, no visible porosity, scattered gray fossiliferous cherts, no shows

**Cherokee 4857 -2014**

shale, black carbonaceous  
 limestone, mixed grays and brown, micro-cryptocrystalline, fossiliferous to pelletal, mixed chalky to cherty and dense, abundant chalk, abundant gray and dark brown cherts, no shows

limestone a.a. with influx black and gray shales, gray, black and brown dense argillaceous limestones, no shows,

decrease in chert

shale, black carbonaceous

limestones and shale a.a., cherts and chalk drop out

a.a.

4960 sample - limestone, light gray, gray and brown, crypto-crystalline to arenaceous, chalky to dense, fossiliferous some small solution vugs, slight staining in vugs, trace oil droplets both free and on break, faint odor, poor fluorescence, slow but fair cut

4970 sample - limestone, brown, cryptocrystalline, dense, fossiliferous with ammonites, some small solution vugs, staining in vugs and within clasts, bleeding some oil, show of oil in vugs and clasts, good odor, poor fluorescence, slow but good cut

limestones a.a., show drops out, influx dense black shales, brown and gray cherts

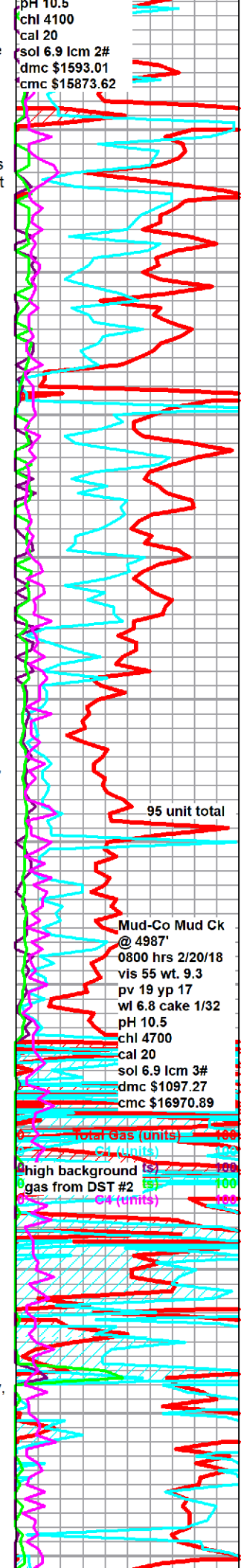
limestone, gray to tan and brown, microcrystalline, fossiliferous, dense to chalky, grainy, some flattened oolitic, with cryptocrystalline dense lithographic, no shows

5030 sample, a.a. with flood black and dark gray shale and chert

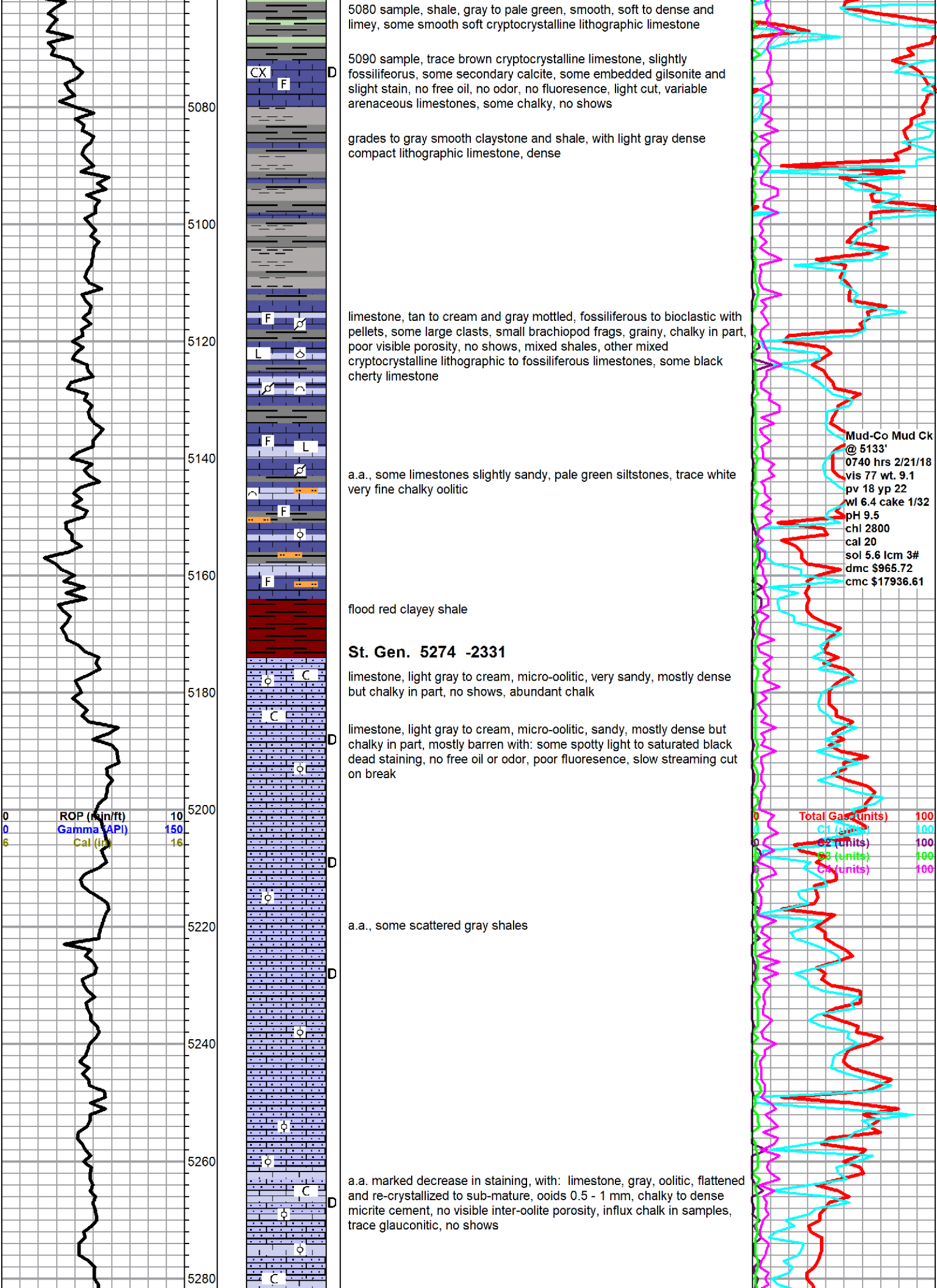
limestone, brown, cryptocrystalline, dense, fossiliferous with: light gray, gray and brown, crypto-crystalline to arenaceous, chalky to dense, fossiliferous, abundant gray and black shales, some black cherts

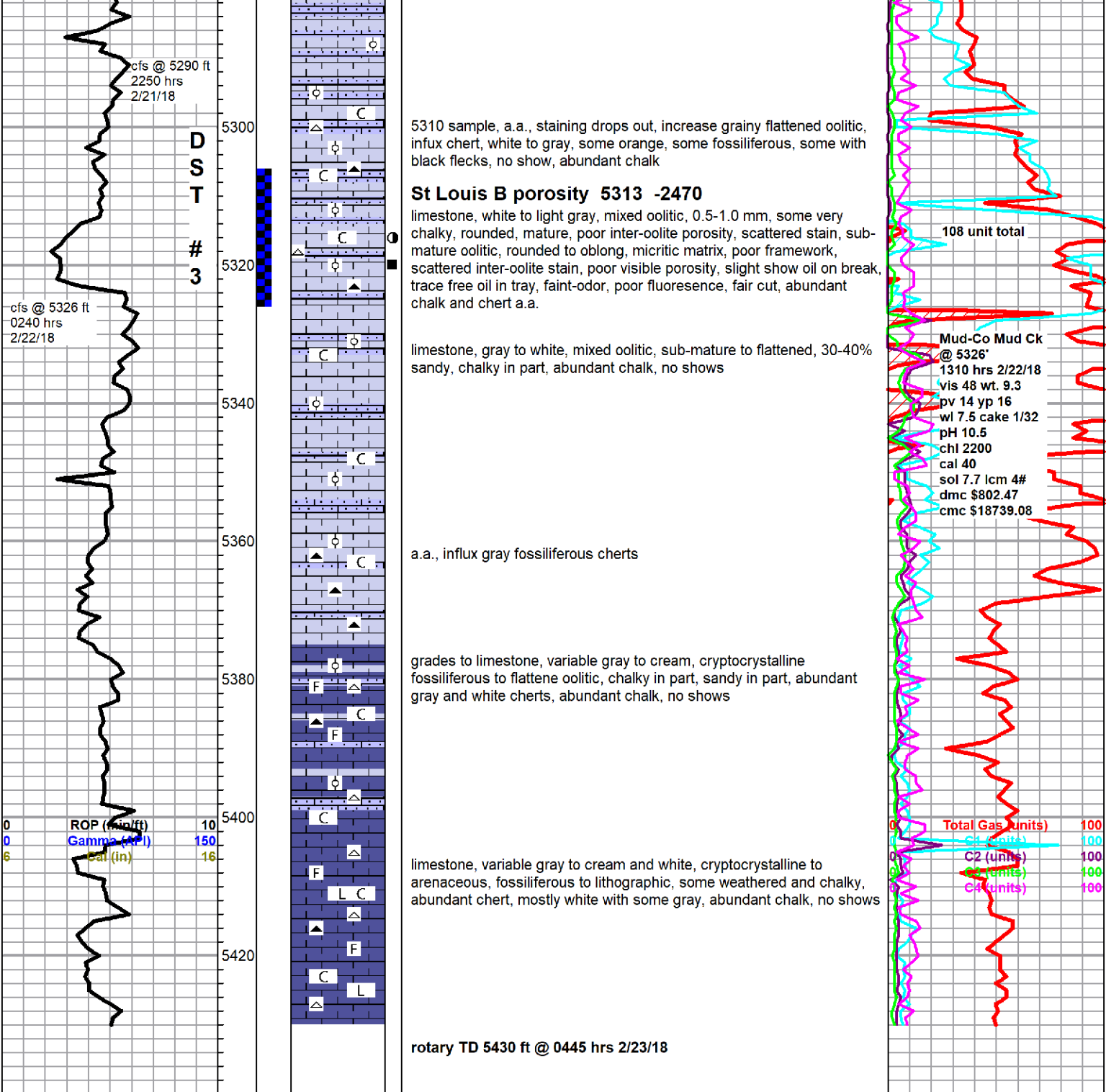
5060 & 70 samples, limestones a.a.

**Morrow 5060 -2217**









# GLOBAL OIL FIELD SERVICES, LLC

3259

REMIT TO 24 S. Lincoln  
Russell, KS 67665

SERVICE POINT: Russell KS

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
2-10-18							
LEASE	Circle M Trk		WELL # 2-5	LOCATION	6 3/4 mls North of Copland KS	COUNTY	Gray
OLD OR NEW (CIRCLE ONE)	1/2 wgs		N/A + C			STATE	KS

CONTRACTOR Sterling Drilling Rig # 5

TYPE OF JOB Surface

HOLE SIZE 17 1/8" T.D. DEPTH 620'

CASING SIZE 13 3/8" DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX. \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 4255'

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS \_\_\_\_\_

DISPLACEMENT \_\_\_\_\_

OWNER Falcon Exploration

CEMENT AMOUNT ORDERED 500 sks 60/40 P02

4% gel 3% CC Filled by 150 sks Com

3% CC 2% gel

COMMON \_\_\_\_\_ @ \_\_\_\_\_

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

ASC \_\_\_\_\_ @ \_\_\_\_\_

EQUIPMENT

PUMP TRUCK # 409 CEMENTER Cody

BULK TRUCK # 473 HELPER Justin

BULK TRUCK # 378 DRIVER Tam

BULK TRUCK # 378 DRIVER Kris Code

HANDLING MILEAGE \_\_\_\_\_

TOTAL \_\_\_\_\_

SERVICE \_\_\_\_\_

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

REMARKS:  
Rat 16 ft of 13 3/8 casing hooked to rig  
+ broke circulation dropped ball + opened  
to truck and pumped 500 sks Poz filled by  
150 sks com + Displaced 90 3/4 blms of H2O +  
shot in

CHARGE TO: Falcon Exploration

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Global Oil Field Services, LLC

You are hereby requested to send cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME \_\_\_\_\_

SIGNATURE \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

13 3/8 insert @ \_\_\_\_\_

D/B 3/8 Centralizers @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

# GLOBAL OIL FIELD SERVICES, LLC

3289

REMIT TO 24 S. Lincoln  
Russell, KS 67665

SERVICE POINT: Russell

2-12-18

DATE <u>1-12-18</u>	SEC. <u>6</u>	TWP. <u>28</u>	RANGE <u>30</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>5:50 AM</u>
LEASE <u>Circle</u>	WELL #. <u>2-6</u>	LOCATION <u>Copeland 6N</u>			COUNTY <u>GRAY</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR Sterling #5

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4 T.D. 18

CASING SIZE 8 1/2 #24 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX. MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 42

PERFS

DISPLACEMENT 110.82 bbls

OWNER

CEMENT AMOUNT ORDERED

500 lite 3% CC

150 com 3% CC 2% gel

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

EQUIPMENT

PUMP TRUCK # \_\_\_\_\_ CEMENTER Bill & Cody

HELPER JASON

BULK TRUCK # \_\_\_\_\_ DRIVER Chris

BULK TRUCK # \_\_\_\_\_ DRIVER Tom

REMARKS:

Pipe set @ 1876

Shoe 42 Insert 1834

Cent w/ 500 lbs lite 3% CC

Follow w/ 150 lbs com 3-2

Pump plug w/ 110.82 bbls

Cent did circ

CHARGE TO: FAICO

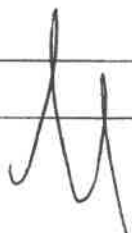
STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Global Oil Field Services, LLC

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME \_\_\_\_\_

SIGNATURE 

SERVICE

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE @ \_\_\_\_\_

MANIFOLD @ \_\_\_\_\_

TOTAL \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

Plug @ \_\_\_\_\_

3-Centr. @ \_\_\_\_\_

2-Basket @ \_\_\_\_\_

Insert @ \_\_\_\_\_

Guide shoe @ \_\_\_\_\_

TOTAL \_\_\_\_\_

SALES TAX (if Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



Liberal Yard #171 Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

**PRESSURE PUMPING Job Log**

Customer:	Falcon Exploration	Cement Pump No.:	38117, 19919 Hrs.	Operator TRK No.:	96816
Address:	125 North Market Street Ste 1251	Ticket #:	1718 15563 L	Bulk TRK No.:	14354, 19578 Ruben
City, State, Zip:	Wichita Ks 67202	Job Type:	Z42 - Cement Production Casing		
Service District:	1718 - Liberal, Ks.	Well Type:	OIL		
Well Name and No.:	Circle N Trust #2-6	Well Location:	6,28,30	County:	Gray
				State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
A-Con' Blend	50	2% Calcium Chloride, 1/4# Polyflake	14354, 19578 Ruben	Front	Back
AA2	165	5% W-60, 10% Salt, .5% C-17, 1/4# C41P, 5# Gilsomite	14354, 19578	Front	Back
A-Con' Blend (Rat & Mouse)	50	2% Calcium Chloride, 1/4# Polyflake	14354, 19578	Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
<b>Lead:</b>	11.4	2.95	18.1	147.5	TT Man Hours:	55.5
<b>Tail:</b>	14.8	1.51	6.65	249.15	# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
1:30							ON LOCATION (LAYING DOWN DRILL COLLARS)
4:30							RUN FLOAT EQUIPMENT
7:00 AM							SAFETY MEETING
7:35 AM							RIG TO CIRCULATE
9:00 AM							RIG TO P.T.
9:05 AM							PRESSURE TEST TO
9:10	5.8	11.9				640	PUMP 500 GALLONS MUD FLUSH
9:18		21.8 slurry					CEMENT RAT & MOUSE W/ 50SX @ 12#
9:27 AM	6.6	26.2 slurry				690	PUMP 50SX LEAD @ 11.4#
9:33	6.2	44.3 slurry				440	PUMP 165SX TAIL @ 14.8#
9:43							SHUTDOWN / DROP PLUG / W.P.
9:51	7	10 thru 40				200	DISPLACE
	7	50				200	
	7	60				200	
	7	70				200	
	7	80				350	
	7	90				570	
	7	100				810	
	6.7	110				1170	
10:10	2.2	115				870	SLOW RATE TO 2.2BPM @ 800PSI
10:15	2.1	125.8				1010	LAND PLUG / PRESSURE UP TO 2080PSI
10:17							RELEASE BACK --- FLOAT HELD
							JOB COMPLETE

Size Hole	7 7/8"	Depth			TYPE	Plug Container	
Size & Wt. Csg.	5 1/2" 15.5#	Depth	5329.00'	New / Used	Packer	Depth	
Landing Press.	726.7psi	Depth			Retainer	Depth	
Shoe Jt.	43.10'	Type			Perfs	CIBP	

Customer Signature: <i>[Signature]</i>	Basic Representative:	Daniel Beck
	Basic Signature:	<i>[Signature]</i>
	Date of Service:	2/24/2018