



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1218809
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: _____

1218809

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
--	---

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> _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Vaughn Trust 1-27
Doc ID	1218809

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources L.L.C**

445 Union Blvd Suite 208 Lakewood CO 80228

ATTN: Keith Reavis

Vaughan Trust #1-27

27-21s-17w Pawnee

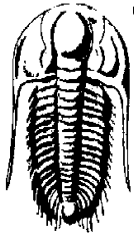
Start Date: 2014.08.02 @ 19:40:00

End Date: 2014.08.03 @ 02:48:30

Job Ticket #: 60351 DST #: 1

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

Printed: 2014.08.03 @ 03:20:50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60351

DST#: 1

Test Start: 2014.08.02 @ 19:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:52:00

Time Test Ended: 02:48:30

Interval: 3780.00 ft (KB) To 3890.00 ft (KB) (TVD)

Total Depth: 3890.00 ft (KB) (TVD)

Hole Diameter: 6.75 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3335-Great Bend - 60

Reference Elevations: 2055.00 ft (KB)

2046.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6551

Press@RunDepth: 1106.40 psig @ ft (KB)

Start Date: 2014.08.02

End Date:

2014.08.03

Start Time: 19:40:00

End Time:

02:48:30

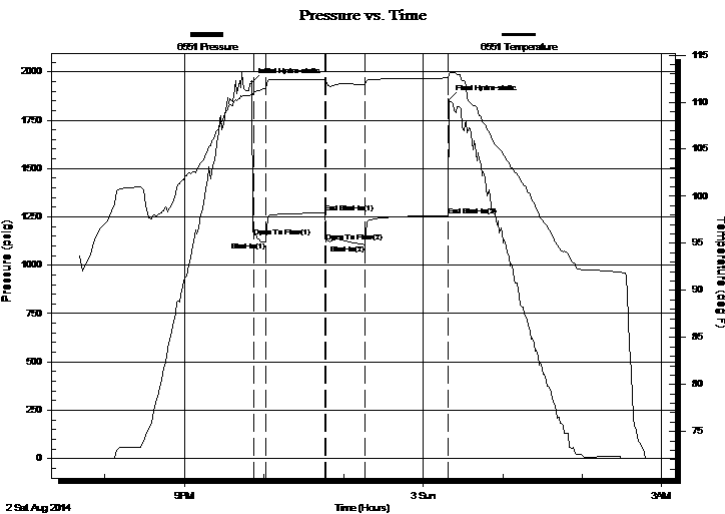
Capacity: 5000.00 psig

Last Calib.: 2014.08.03

Time On Btm: 2014.08.02 @ 21:51:00

Time Off Btm: 2014.08.03 @ 00:19:30

TEST COMMENT: 1st Opening 10 Minutes-Strong blow built bottom of bucket in 30 sec gas to surface 2 minutes see gas report
1st Shut-in 45 Minutes-Yes blow back
2nd Opening 30 Minutes-Strong blow built bottom of bucket in 30 sec gas sample was taken
2nd Shut-in 60 Minutes-Yes blow back



PRESSURE SUMMARY

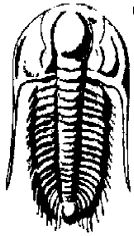
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1945.11	110.92	Initial Hydro-static
1	1144.35	111.14	Open To Flow (1)
11	1122.17	111.53	Shut-In(1)
55	1269.65	112.38	End Shut-In(1)
56	1121.93	112.22	Open To Flow (2)
86	1106.40	111.87	Shut-In(2)
148	1256.48	112.56	End Shut-In(2)
149	1854.85	112.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud 100%	0.59
0.00	3458 feet of gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.50	26.50	2500.56
Last Gas Rate	1.50	72.00	5282.36
Max. Gas Rate	1.50	72.00	5282.36



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60351

DST#: 1

Test Start: 2014.08.02 @ 19:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:52:00

Time Test Ended: 02:48:30

Interval: 3780.00 ft (KB) To 3890.00 ft (KB) (TVD)

Total Depth: 3890.00 ft (KB) (TVD)

Hole Diameter: 6.75 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3335-Great Bend - 60

Reference Elevations: 2055.00 ft (KB)

2046.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8938

Press@RunDepth: 1256.62 psig @ ft (KB)

Start Date: 2014.08.02

End Date:

2014.08.03

Start Time: 19:40:00

End Time:

02:49:00

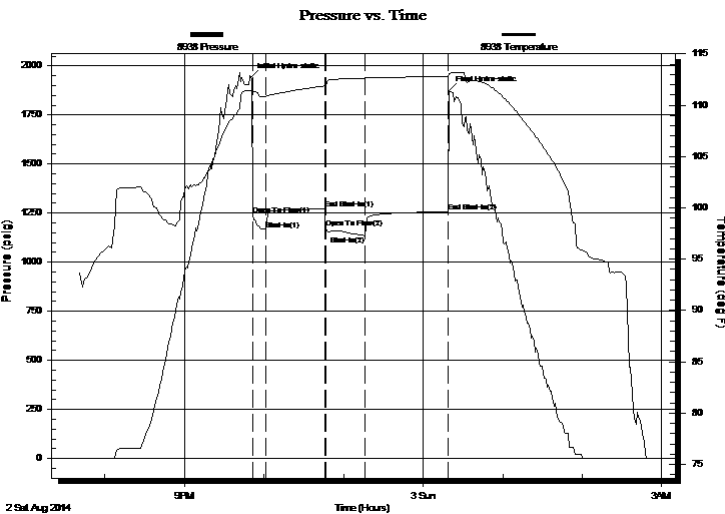
Capacity: 5000.00 psig

Last Calib.: 2014.08.03

Time On Btm: 2014.08.02 @ 21:50:00

Time Off Btm: 2014.08.03 @ 00:19:30

TEST COMMENT: 1st Opening 10 Minutes-Strong blow built bottom of bucket in 30 sec gas to surface 2 minutes see gas report
1st Shut-in 45 Minutes-Yes blow back
2nd Opening 30 Minutes-Strong blow built bottom of bucket in 30 sec gas sample was taken
2nd Shut-in 60 Minutes-Yes blow back



PRESSURE SUMMARY

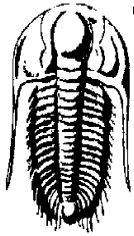
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.22	111.44	Initial Hydro-static
2	1240.60	111.30	Open To Flow (1)
12	1163.82	110.87	Shut-In(1)
56	1269.94	111.86	End Shut-In(1)
57	1174.77	111.91	Open To Flow (2)
87	1135.07	112.60	Shut-In(2)
149	1256.62	112.82	End Shut-In(2)
150	1873.25	113.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud 100%	0.59
0.00	3458 feet of gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.50	26.50	2500.56
Last Gas Rate	1.50	72.00	5282.36
Max. Gas Rate	1.50	72.00	5282.36



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60351

DST#: 1

Test Start: 2014.08.02 @ 19:40:00

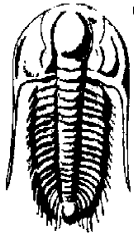
Tool Information

Drill Pipe:	Length: 3573.00 ft	Diameter: 3.80 inches	Volume: 50.12 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 51.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	3780.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	138.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Gas to surface see gas report /Gas sample was taken /H2S was present/

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3757.00	
Hydraulic tool	5.00			3762.00	
Jars	6.00			3768.00	
Safety Joint	2.00			3770.00	
Packer	5.00			3775.00	28.00 Bottom Of Top Packer
Packer	5.00			3780.00	
Anchor	3.00			3783.00	
Change Over Sub	0.75			3783.75	
Drill Pipe	63.50			3847.25	
Change Over Sub	0.75			3848.00	
Anchor	37.00			3885.00	
Recorder	1.00			3886.00	
Recorder	1.00			3887.00	
Bullnose	3.00			3890.00	110.00 Bottom Packers & Anchor

Total Tool Length: 138.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

Job Ticket: 60351

DST#: 1

ATTN: Keith Reavis

Test Start: 2014.08.02 @ 19:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud 100%	0.590
0.00	3458 feet of gas in pipe	0.000

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

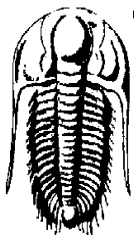
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gas to surface see gas report /Gas sample was taken/H₂S gas was present/



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60351

DST#: 1

Test Start: 2014.08.02 @ 19:40:00

Gas Rates Information

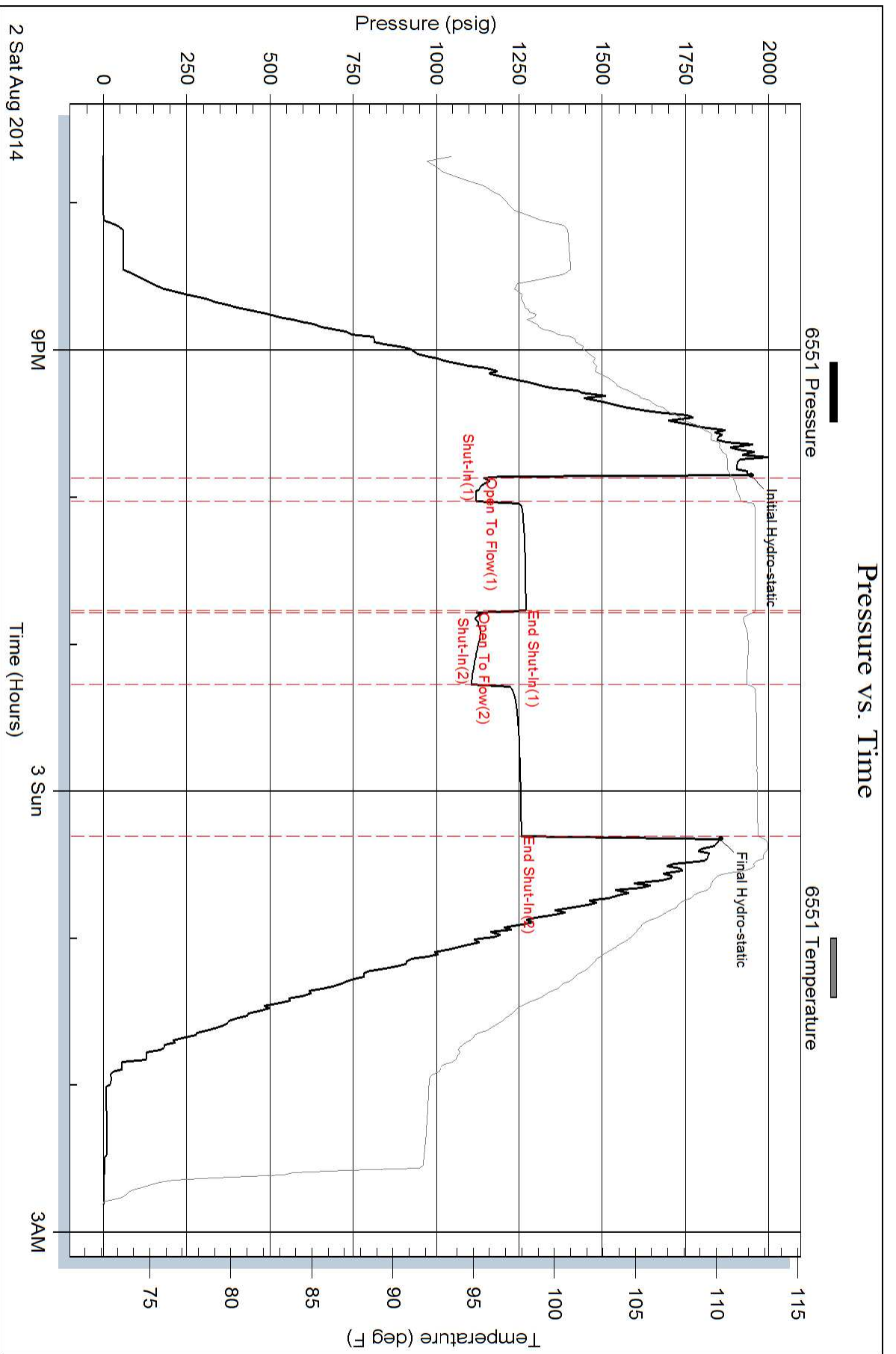
Temperature: 59 (deg F)

Relative Density: 0.65

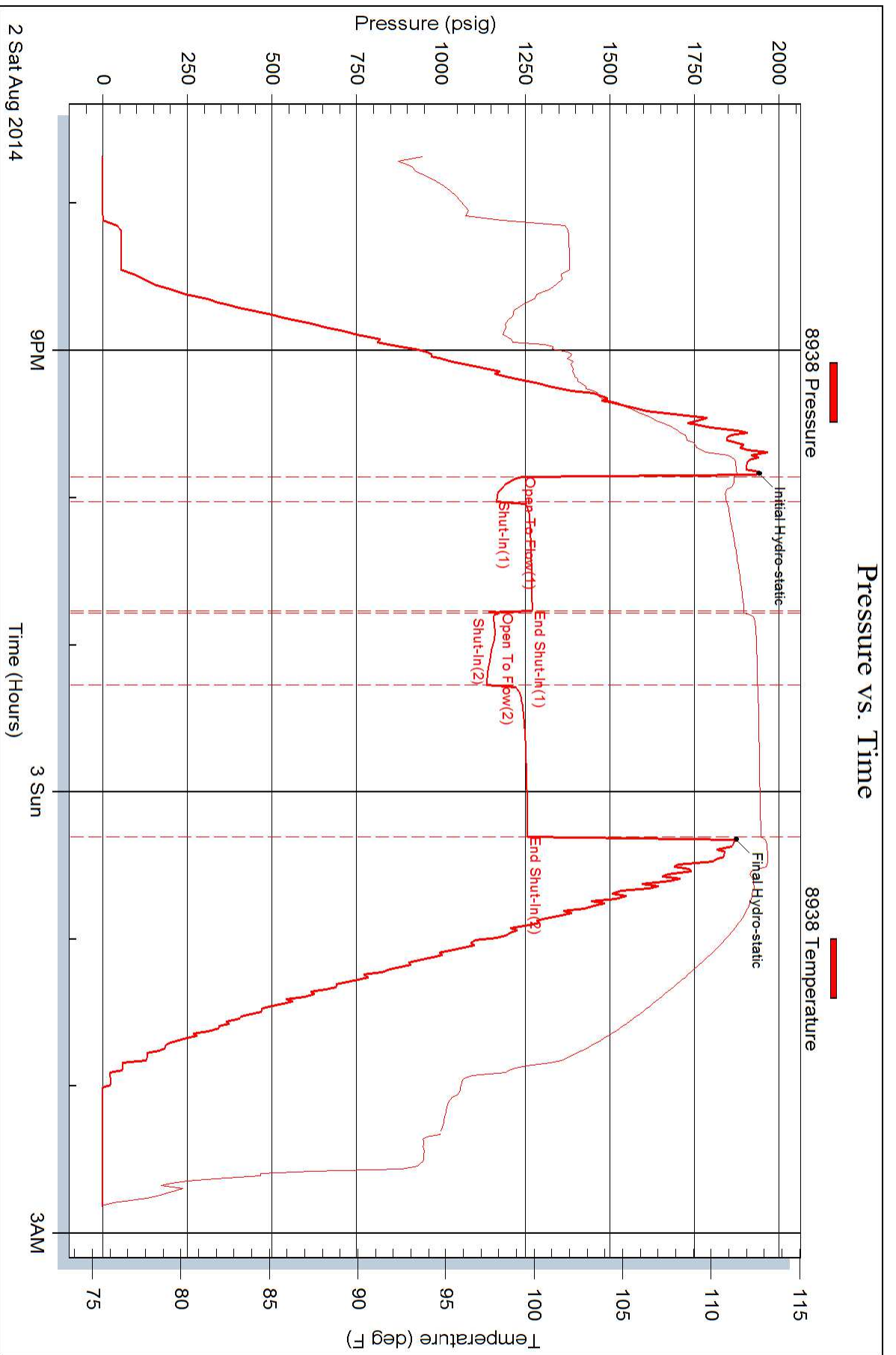
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	1.50	26.50	2500.56
2	10	1.50	35.00	3020.24
2	20	1.50	72.00	5282.36
2	30	1.50	72.00	5282.36



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Shelby Resources L.L.C**

445 Union Blvd Suite 208 Lakewood CO 80228

ATTN: Keith Reavis

Vaughan Trust #1-27

27-21s-17w Pawnee

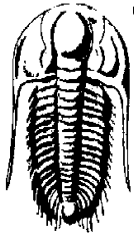
Start Date: 2014.08.03 @ 12:00:00

End Date: 2014.08.03 @ 19:40:00

Job Ticket #: 60352 DST #: 2

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

Printed: 2014.08.03 @ 20:32:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60352

DST#: 2

Test Start: 2014.08.03 @ 12:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:58:30

Time Test Ended: 19:40:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3335-Great Bend-60

Interval: 3893.00 ft (KB) To 3902.00 ft (KB) (TVD)

Reference Elevations: 2055.00 ft (KB)

Total Depth: 3902.00 ft (KB) (TVD)

2046.00 ft (CF)

Hole Diameter: 6.75 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6651

Press@RunDepth: 1206.02 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.08.03

End Date: 2014.08.03

Last Calib.: 2014.08.03

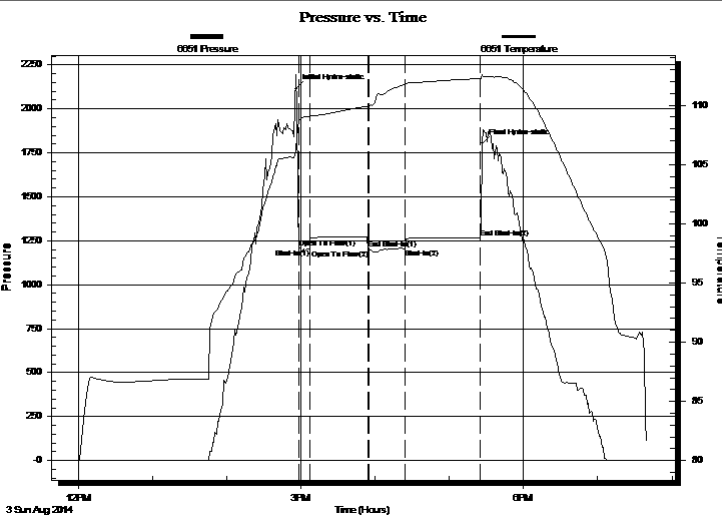
Start Time: 12:00:00

End Time: 19:40:00

Time On Btm: 2014.08.03 @ 14:56:00

Time Off Btm: 2014.08.03 @ 17:26:30

TEST COMMENT: 1st Opening 10 Minutes-Strong blow built bottom of bucket in 1 minute gas to surface 5 minutes see gas report
 1st Shut-in 45 Minutes-Yes blow back
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 30 sec gas sample was taken
 2nd Shut-in 60 Minutes-Yes blow back



PRESSURE SUMMARY

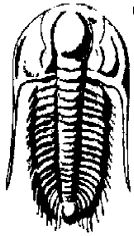
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.07	106.51	Initial Hydro-static
3	1206.82	108.74	Open To Flow (1)
11	1202.40	109.07	Shut-In(1)
58	1201.24	109.91	End Shut-In(1)
59	1196.17	109.92	Open To Flow (2)
88	1206.02	111.78	Shut-In(2)
149	1268.56	112.26	End Shut-In(2)
151	1803.73	112.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
885.00	water 95% water 5% mud	10.50
0.00	2786 feet gas in pipe	0.00
0.00	chlorides 28,000	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.50	2.00	1002.67
Last Gas Rate	1.50	30.40	2739.00
Max. Gas Rate	1.50	30.40	2739.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60352

DST#: 2

Test Start: 2014.08.03 @ 12:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:58:30

Time Test Ended: 19:40:00

Interval: 3893.00 ft (KB) To 3902.00 ft (KB) (TVD)

Total Depth: 3902.00 ft (KB) (TVD)

Hole Diameter: 6.75 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3335-Great Bend-60

Reference Elevations: 2055.00 ft (KB)

2046.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8938

Press@RunDepth: 1267.21 psig @ ft (KB)

Start Date: 2014.08.03

End Date: 2014.08.03

Start Time: 12:00:00

End Time: 19:40:30

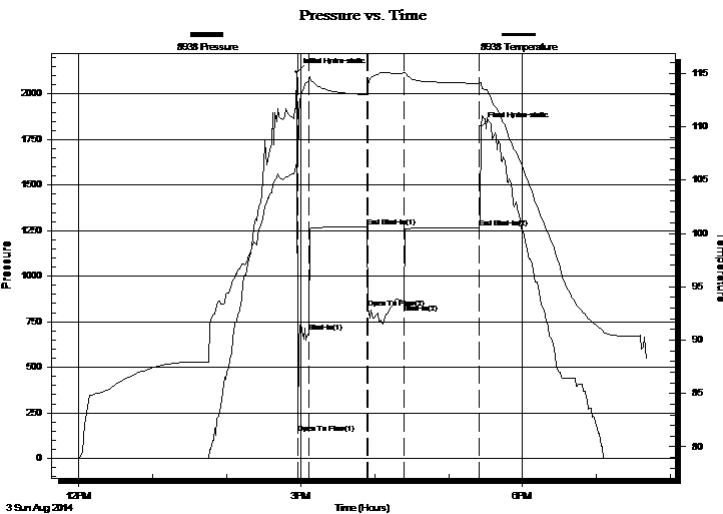
Capacity: 5000.00 psig

Last Calib.: 2014.08.03

Time On Btm: 2014.08.03 @ 14:57:00

Time Off Btm: 2014.08.03 @ 17:26:30

TEST COMMENT: 1st Opening 10 Minutes-Strong blow built bottom of bucket in 1 minute gas to surface 5 minutes see gas report
1st Shut-in 45 Minutes-Yes blow back
2nd Opening 30 Minutes-Strong blow built bottom of bucket in 30 sec gas sample was taken
2nd Shut-in 60 Minutes-Yes blow back



PRESSURE SUMMARY

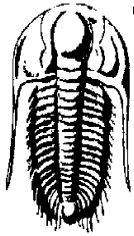
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2118.65	106.55	Initial Hydro-static
1	136.70	106.61	Open To Flow (1)
10	692.56	114.38	Shut-In(1)
57	1269.89	112.97	End Shut-In(1)
58	824.92	113.88	Open To Flow (2)
87	846.51	115.04	Shut-In(2)
148	1267.21	114.05	End Shut-In(2)
150	1823.06	114.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
885.00	water 95% water 5% mud	10.50
0.00	2786 feet gas in pipe	0.00
0.00	chlorides 28,000	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.50	2.00	1002.67
Last Gas Rate	1.50	30.40	2739.00
Max. Gas Rate	1.50	30.40	2739.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60352

DST#: 2

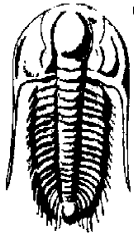
Test Start: 2014.08.03 @ 12:00:00

Tool Information

Drill Pipe:	Length: 3671.00 ft	Diameter: 3.80 inches	Volume: 51.49 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 52.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	3893.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Gas to surface 5 minutes see gas report / Gas sample was taken/ Chlorides 28,000 Looks like some plugging

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3870.00	
Hydraulic tool	5.00			3875.00	
Jars	6.00			3881.00	
Safety Joint	2.00			3883.00	
Packer	5.00			3888.00	28.00 Bottom Of Top Packer
Packer	5.00			3893.00	
Recorder	1.00			3894.00	
Recorder	1.00			3895.00	
Anchor	4.00			3899.00	
Bullnose	3.00			3902.00	9.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

Job Ticket: 60352

DST#: 2

ATTN: Keith Reavis

Test Start: 2014.08.03 @ 12:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
885.00	water 95%water 5%mud	10.501
0.00	2786 feet gas in pipe	0.000
0.00	chlorides 28,000	0.000

Total Length: 885.00 ft Total Volume: 10.501 bbl

Num Fluid Samples: 0

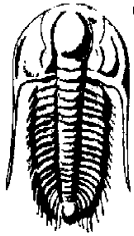
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: gas to surface 5 minutes see gas report/gas sample was taken chlorides 28,00 Looks like some plugging



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60352

DST#: 2

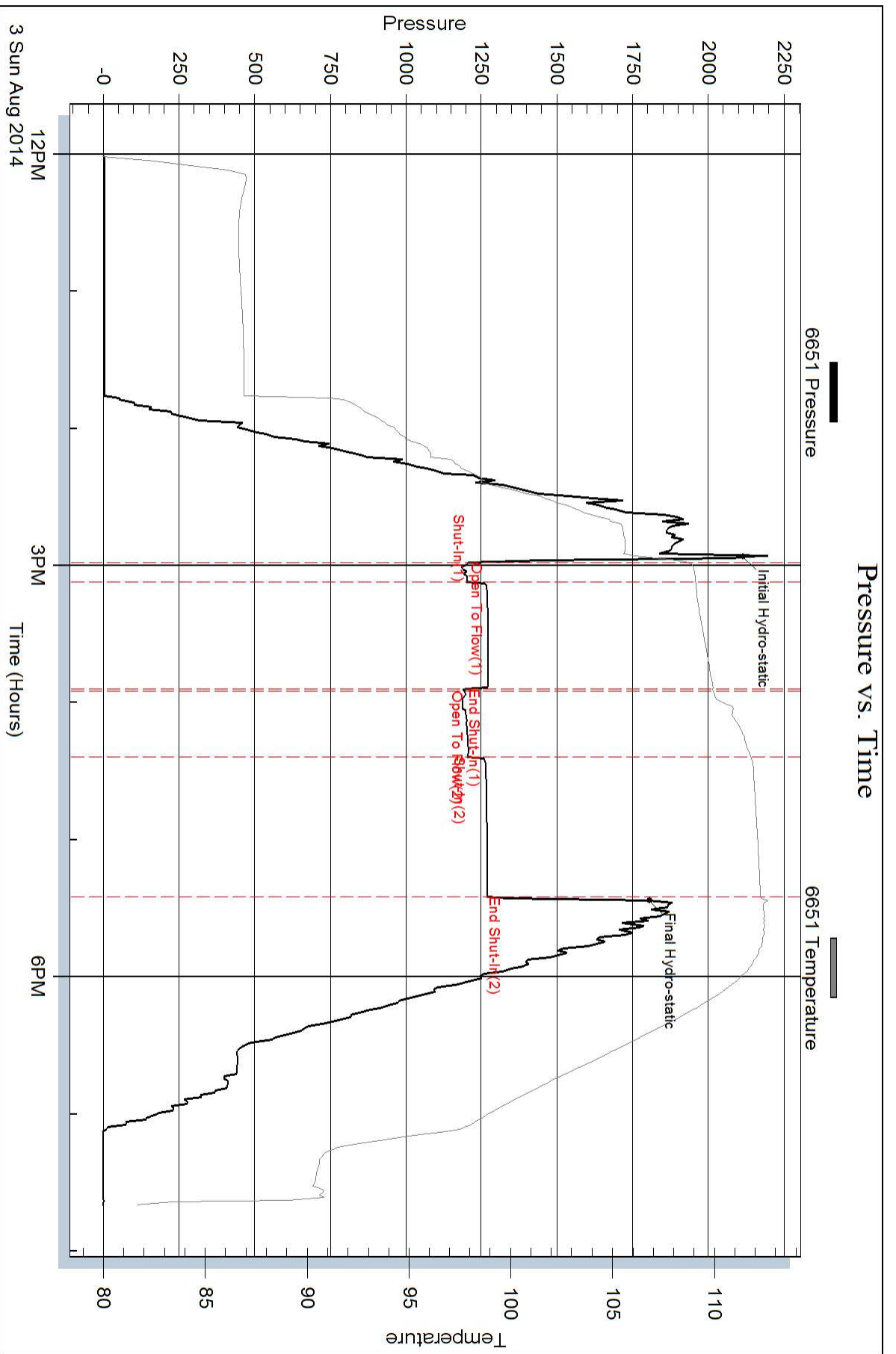
Test Start: 2014.08.03 @ 12:00:00

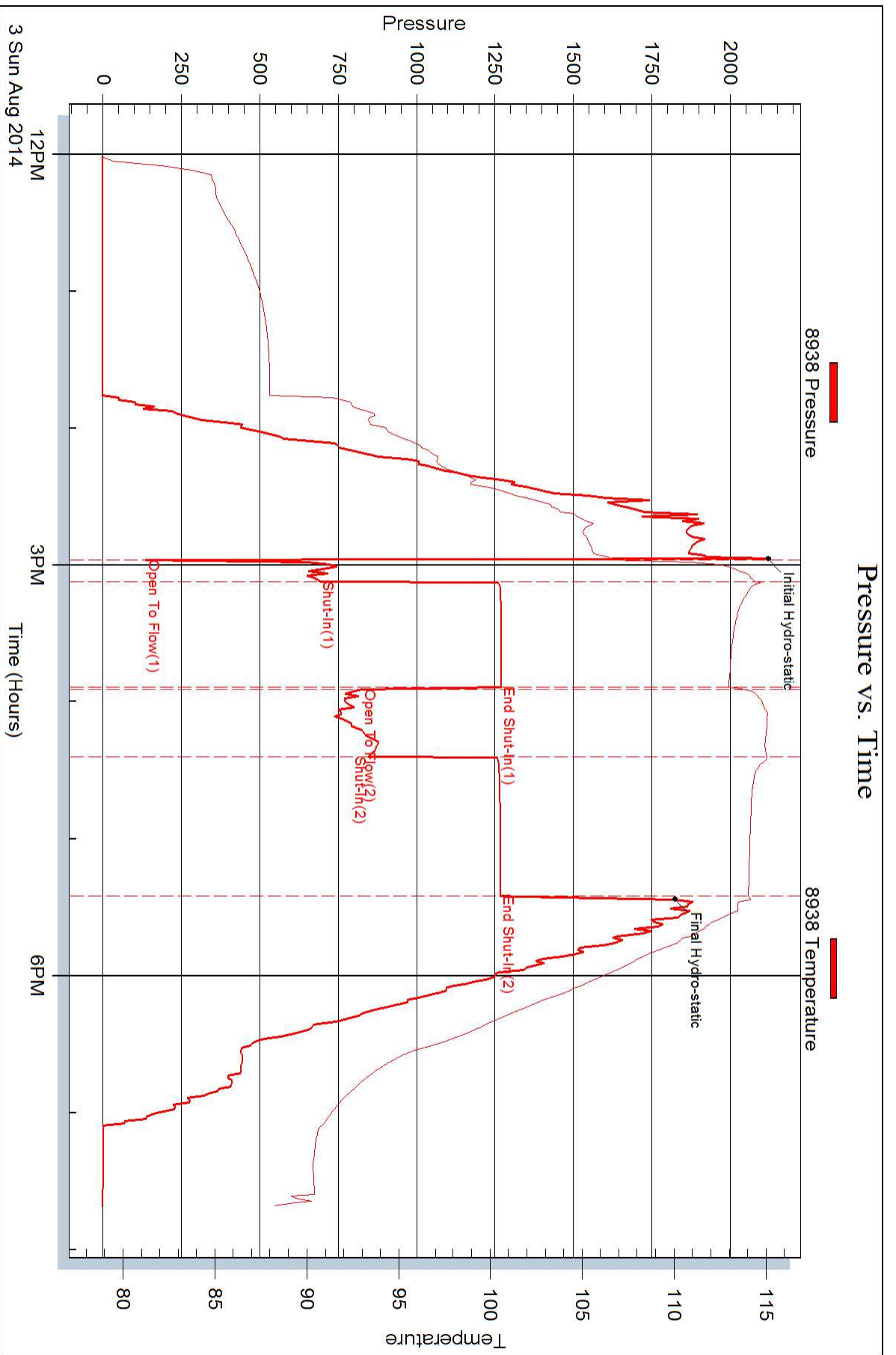
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	1.50	2.00	1002.67
2	10	1.50	20.00	2103.16
2	20	1.50	30.40	2739.00
2	30	1.50	30.40	2739.00







DRILL STEM TEST REPORT

Prepared For: **Shelby Resources L.L.C**

445 Union Blvd Suite 208 Lakewood CO 80228

ATTN: Keith Reavis

Vaughan Trust #1-27

27-21s-17w Pawnee

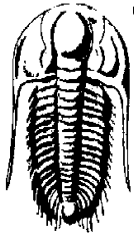
Start Date: 2014.08.05 @ 09:30:00

End Date: 2014.08.05 @ 16:41:30

Job Ticket #: 60353 DST #: 3

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

Printed: 2014.08.05 @ 19:07:29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60353

DST#: 3

Test Start: 2014.08.05 @ 09:30:00

GENERAL INFORMATION:

Formation: **Lansing K zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:48:30

Time Test Ended: 16:41:30

Test Type: Conventional Straddle (Initial)

Tester: Jared Scheck

Unit No: S4-Great Bend-60 RT

Interval: 3710.00 ft (KB) To 4209.00 ft (KB) (TVD)

Reference Elevations: 2055.00 ft (KB)

Total Depth: 4209.00 ft (KB) (TVD)

2046.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6651

Press@RunDepth: 187.35 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.08.05

End Date:

2014.08.05

Last Calib.:

2014.08.05

Start Time: 09:30:00

End Time:

16:41:30

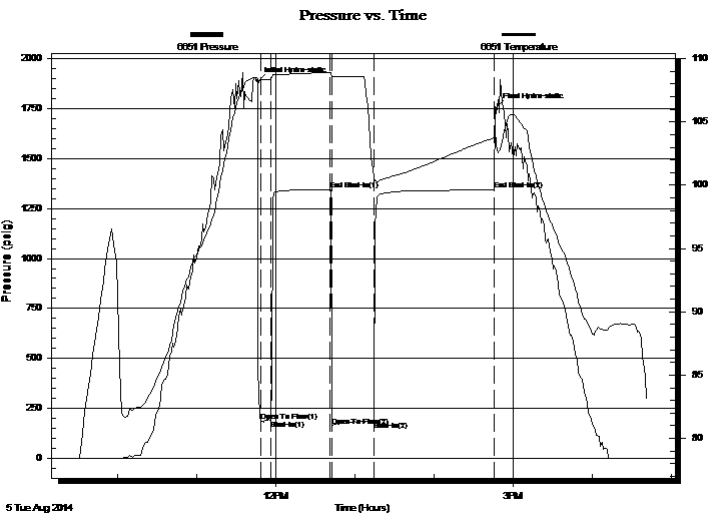
Time On Btm:

2014.08.05 @ 11:46:00

Time Off Btm:

2014.08.05 @ 14:47:00

TEST COMMENT: 1st Opening 10 Minutes-Strong blow built bottom of bucket in 10 sec
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 10 sec gas to surface 3 minutes see gas report
 2nd Shut-in 90 Minutes-Yes blow back



PRESSURE SUMMARY

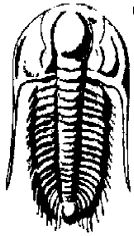
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.10	108.46	Initial Hydro-static
3	187.34	108.32	Open To Flow (1)
10	190.94	108.35	Shut-In(1)
55	1343.23	108.91	End Shut-In(1)
57	163.96	108.55	Open To Flow (2)
89	187.35	100.57	Shut-In(2)
180	1341.02	103.75	End Shut-In(2)
181	1752.92	103.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud w ater 30% mud 70% w ater	0.59
0.00	3360 gas in pipe	0.00
0.00	chlorides 38,000	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.50	0.30	898.74
Last Gas Rate	1.50	1.88	995.34
Max. Gas Rate	1.50	1.88	995.34



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60353

DST#: 3

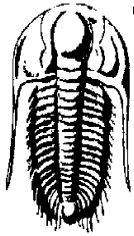
Test Start: 2014.08.05 @ 09:30:00

Tool Information

Drill Pipe:	Length: 3480.00 ft	Diameter: 3.80 inches	Volume: 48.82 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 49.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	3710.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	3740.00 ft			
Interval between Packers:	30.00 ft			
Tool Length:	514.50 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments: Gas to surface 3 minutes into 2nd open see gas report / 2 gas samples was taken

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3687.00	
Hydraulic tool	5.00			3692.00	
Jars	6.00			3698.00	
Safety Joint	2.00			3700.00	
Packer	5.00			3705.00	28.00 Bottom Of Top Packer
Packer	5.00			3710.00	
Anchor	27.50			3737.50	
Recorder	1.00		Inside	3738.50	
Recorder	1.00		Outside	3739.50	
Blank Off Sub	0.50			3740.00	30.00 Tool Interval
Packer	5.00			3745.00	
Change Over Sub	0.75			3745.75	
Drill Pipe	446.00			4191.75	
Change Over Sub	0.75			4192.50	
Recorder	1.00			4193.50	
Bullnose	3.00			4196.50	456.50 Bottom Packers & Anchor
Total Tool Length:	514.50				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

Job Ticket: 60353

DST#: 3

ATTN: Keith Reavis

Test Start: 2014.08.05 @ 09:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mud w ater 30% mud 70% w ater	0.590
0.00	3360 gas in pipe	0.000
0.00	chlorides 38,000	0.000

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

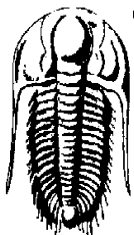
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gas to surface 3 minutes int 2nd open see gas report / 2 gas samples w as taken



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60353

DST#: 3

Test Start: 2014.08.05 @ 09:30:00

Gas Rates Information

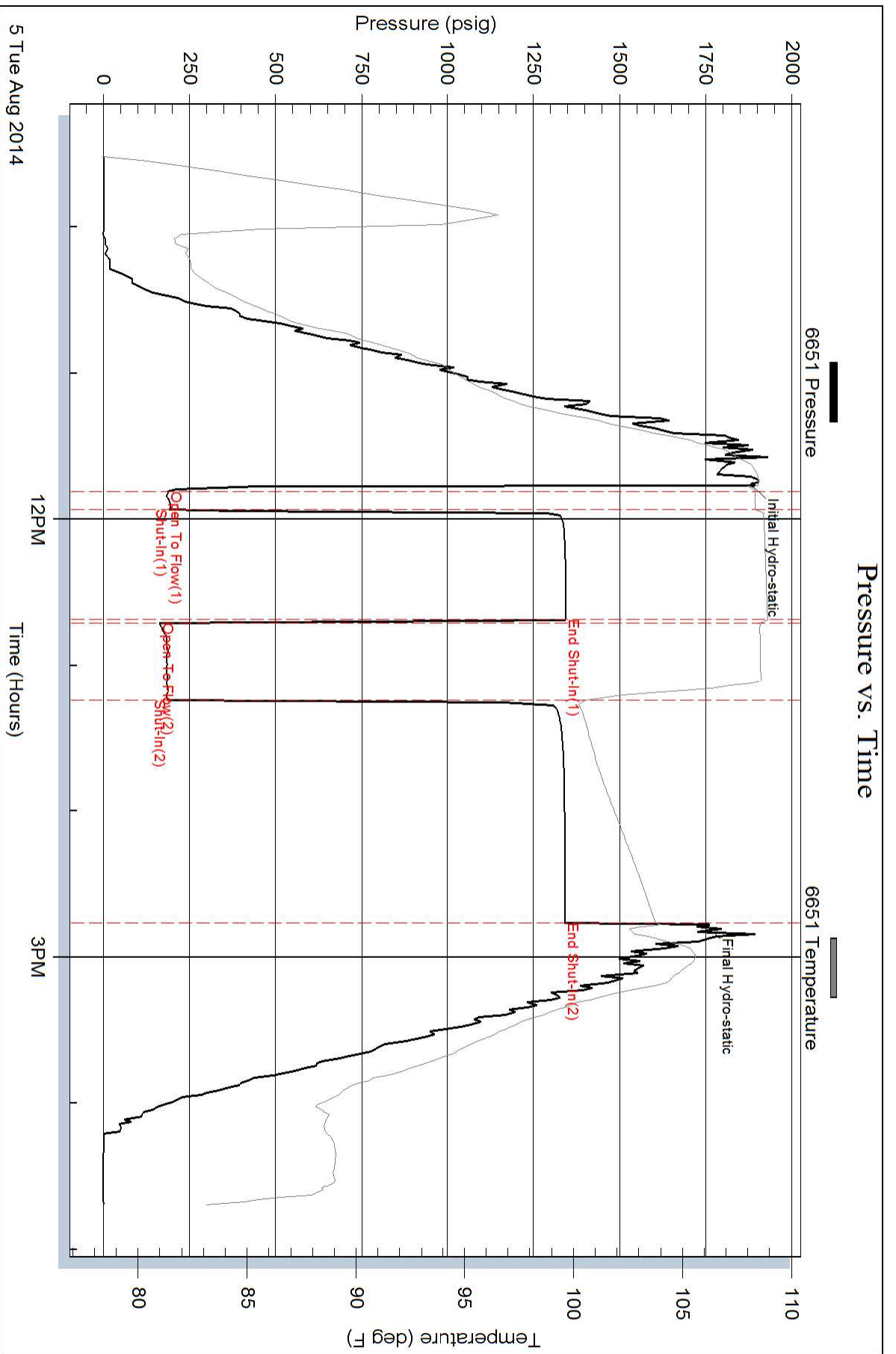
Temperature: 59 (deg F)

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	5	1.50	0.30	898.74
2	5	1.50	0.30	898.74
2	10	1.50	0.40	904.85
2	20	1.50	1.88	995.34





DRILL STEM TEST REPORT

Prepared For: **Shelby Resources L.L.C**

445 Union Blvd Suite 208 Lakewood CO 80228

ATTN: Keith Reavis

Vaughan Trust #1-27

27-21s-17w Pawnee

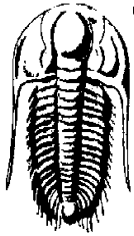
Start Date: 2014.08.05 @ 17:05:00

End Date: 2014.08.05 @ 23:43:30

Job Ticket #: 60354 DST #: 4

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

Printed: 2014.08.05 @ 23:55:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60354

DST#: 4

Test Start: 2014.08.05 @ 17:05:00

GENERAL INFORMATION:

Formation: **Lansing H zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:04:00

Time Test Ended: 23:43:30

Test Type: Conventional Straddle (Initial)

Tester: Jared Scheck

Unit No: S4-Great Bend-60 RT

Interval: 3640.00 ft (KB) To 3665.00 ft (KB) (TVD)

Reference Elevations: 2055.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

2046.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6651

Press@RunDepth: 76.81 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.08.05

End Date:

2014.08.05

Last Calib.:

2014.08.05

Start Time: 17:05:00

End Time:

23:43:30

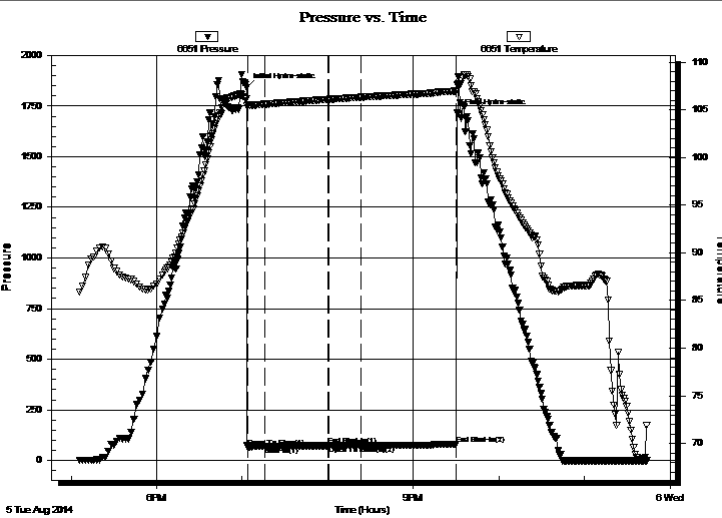
Time On Btm:

2014.08.05 @ 19:03:00

Time Off Btm:

2014.08.05 @ 21:31:00

TEST COMMENT: 1st Opening 10 Minutes-Strong blow built 8 inches into bucket w ater
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 30 Minutes-No blow w hile turning tabe head joint hit bells checking to make shure did not back out lost count turns



PRESSURE SUMMARY

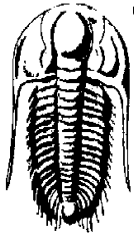
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1840.24	106.15	Initial Hydro-static
1	66.85	105.54	Open To Flow (1)
13	68.80	105.57	Shut-In(1)
57	73.03	106.09	End Shut-In(1)
58	72.94	106.10	Open To Flow (2)
80	76.81	106.32	Shut-In(2)
147	79.92	106.95	End Shut-In(2)
148	1712.24	107.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	mud	0.44

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

ATTN: Keith Reavis

Job Ticket: 60354

DST#: 4

Test Start: 2014.08.05 @ 17:05:00

Tool Information

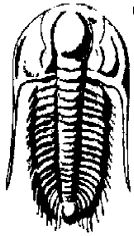
Drill Pipe:	Length: 3432.00 ft	Diameter: 3.80 inches	Volume: 48.14 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 49.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	3640.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	3665.00 ft			
Interval between Packers:	25.00 ft			
Tool Length:	607.50 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3617.00	
Hydraulic tool	5.00			3622.00	
Jars	6.00			3628.00	
Safety Joint	2.00			3630.00	
Packer	5.00			3635.00	28.00 Bottom Of Top Packer
Packer	5.00			3640.00	
Anchor	22.00			3662.00	
Recorder	1.00			3663.00	
Recorder	1.00			3664.00	
Blank Off Sub	1.00			3665.00	25.00 Tool Interval
Packer	5.00			3670.00	
Change Over Sub	0.75			3670.75	
Drill Pipe	544.00			4214.75	
Change Over Sub	0.75			4215.50	
Recorder	1.00			4216.50	
Bullnose	3.00			4219.50	554.50 Bottom Packers & Anchor
Total Tool Length:	607.50				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources L.L.C

27-21s-17w Pawnee

445 Union Blvd Suite 208 Lakewood CO 80228

Vaughan Trust #1-27

Job Ticket: 60354

DST#: 4

ATTN: Keith Reavis

Test Start: 2014.08.05 @ 17:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	mud	0.443

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

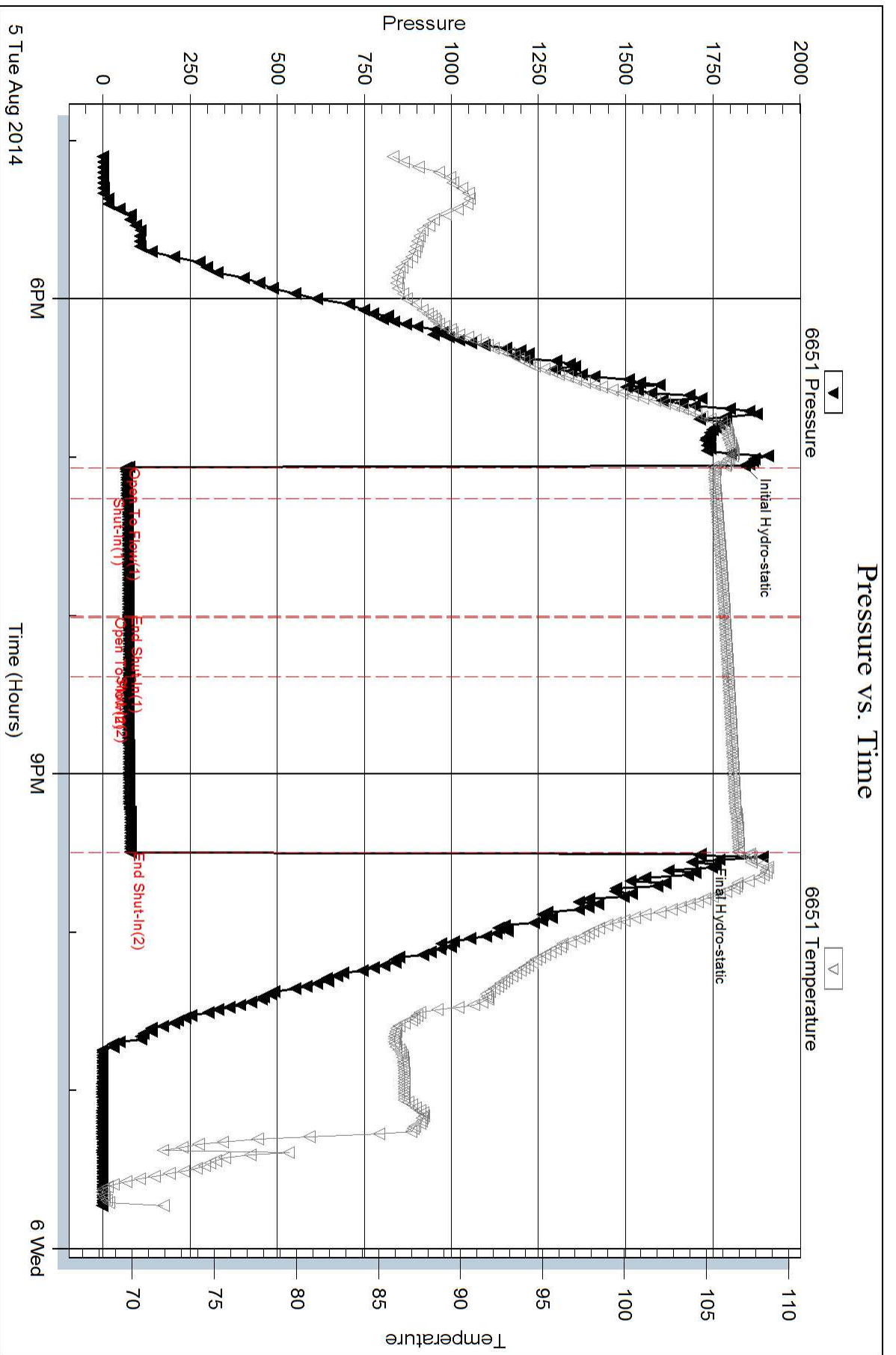
Num Gas Bombs: 0

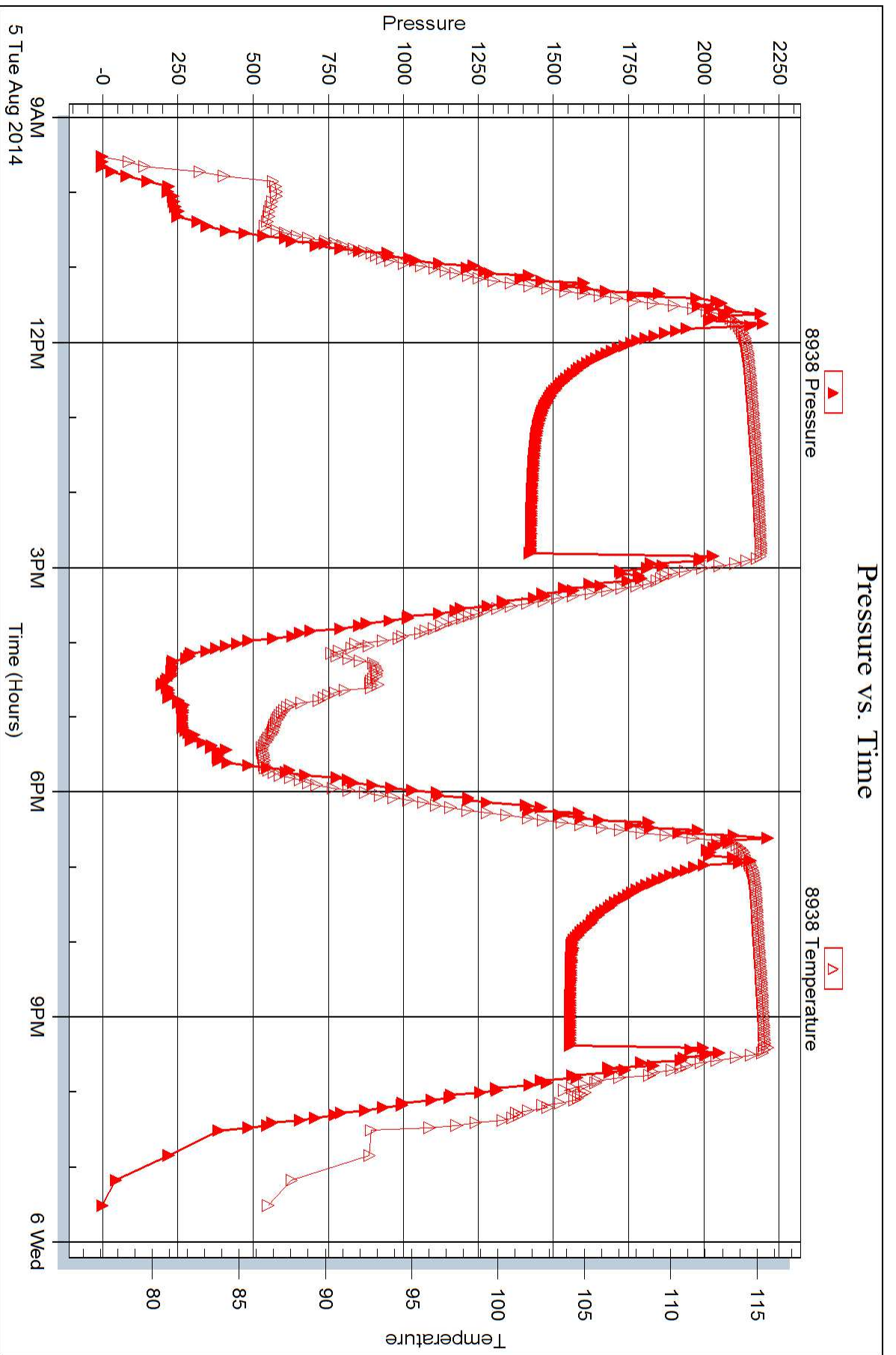
Serial #:

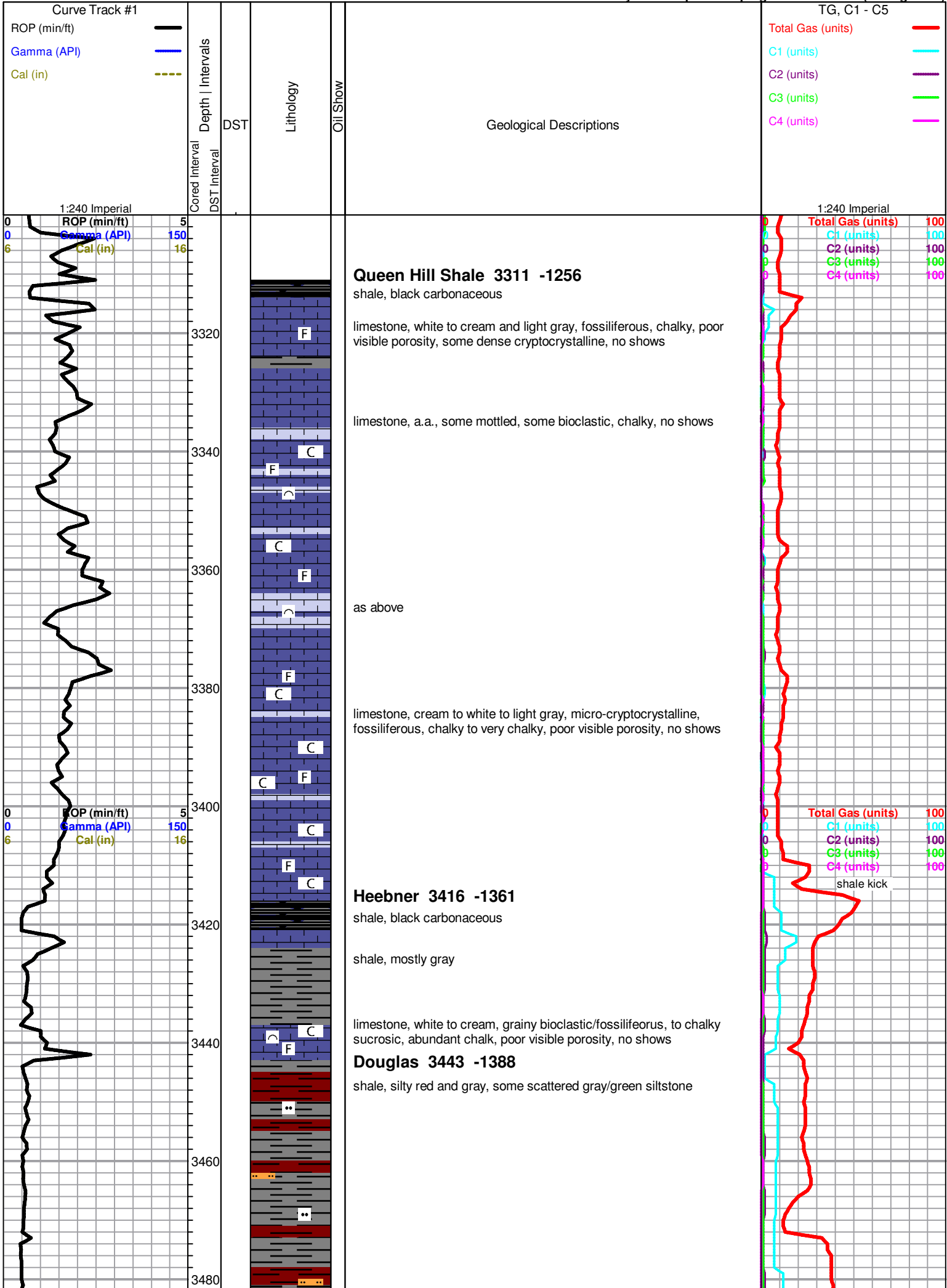
Laboratory Name:

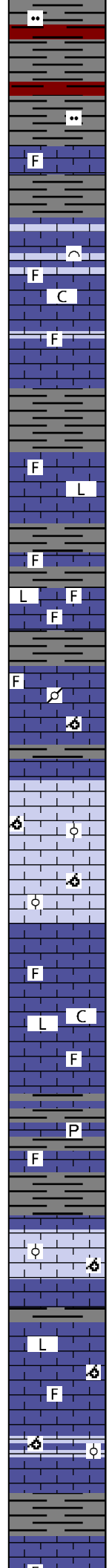
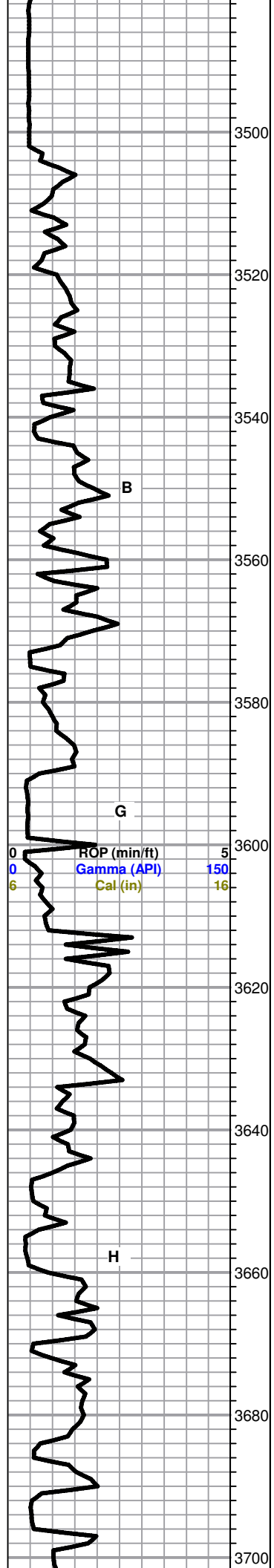
Laboratory Location:

Recovery Comments:









Brown Lime 3502 -1447

limestone, gray to tan, cryptocrystalline, fossiliferous, dense, no shows

Lansing 3512 -1457

limestone, white to light gray, micro-cryptocrystalline, fossiliferous, some bioclastic, poor visible porosity, chalky in part, no shows

limestone, white to light gray, mostly cryptocrystalline, slightly fossiliferous, with white and gray cryptocrystalline, dense lithographic, no shows

limestone, as above, more fossiliferous

limestone, mixed cream to tan, crypto-microcrystalline, fossiliferous, some pelletal, trace sub-oomoldic, with limestone, pale green, microcrystalline, fossiliferous, sub-sucrosic, no shows

limestone, light gray to tan, oomoldic to oolitic, some fair oomold and vuggy porosity, barren

limestone, mixed cream to light gray fossiliferous, some dense lithographic, some chalk, no shows

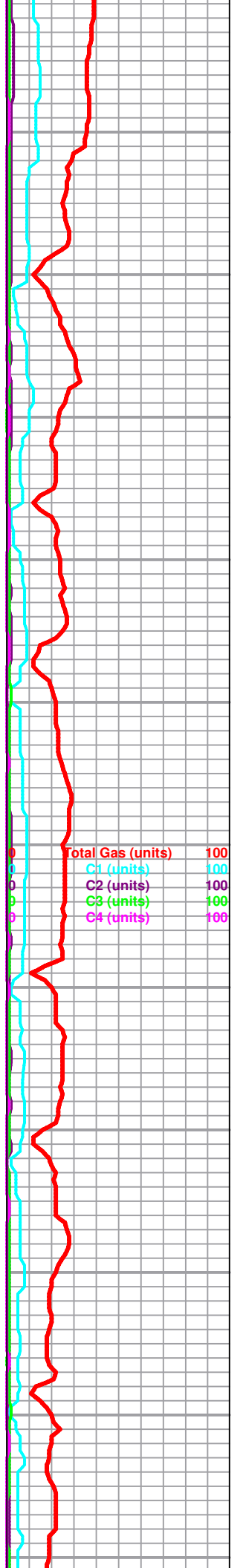
grading to: limestones, gray to tan, some brown, fossiliferous, dense, some pyritic, no shows

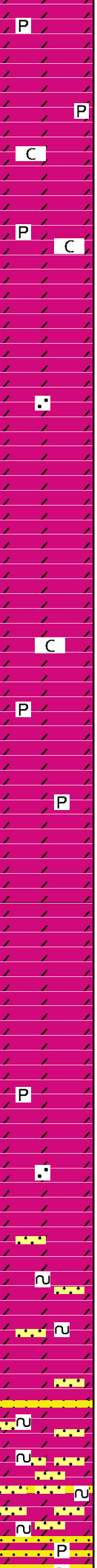
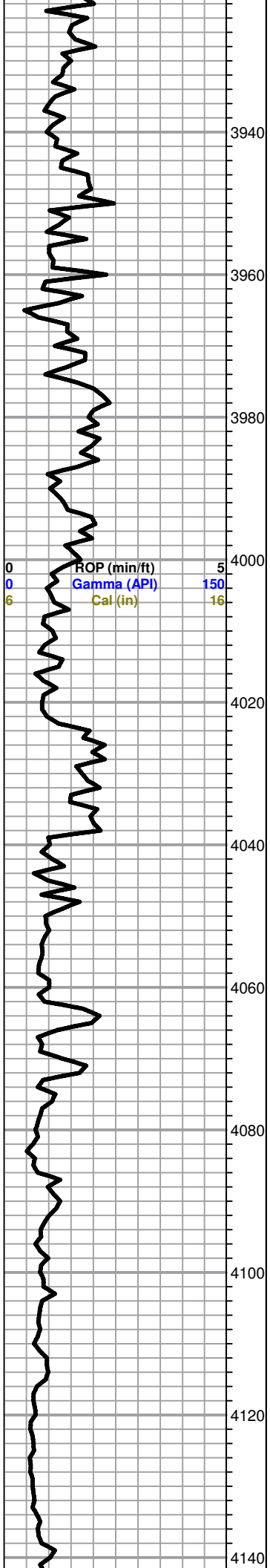
limestone, gray to tan to light gray, oomoldic, some oolitic, good oomold porosity, barren

limestone, light gray to tan, mostly cryptocrystalline, dense, lithographic to slightly fossiliferous, no shows

as above, some oolitic to sub oomoldic

limestone, white to light gray and cream, mixed crypto-microcrystalline, fossiliferous to lithographic. some oolitic and sub-oomoldic. no shows





dolomite, white, microcrystalline, dense, sucrosic, scattered dead oil staining, poor to fair intercrystalline porosity, free pyrite, no show, no odor, no fluorescence

dolomite, white to off white, microcrystalline, sub sucrosic, fair rhombic, poor to fair intercrystalline porosity, chalky, scattered free pyrite, no odor, no shows

dolomite, as above

dolomite, white, microcrystalline, sub sucrosic, some rhombic development, some fair intercrystalline porosity, scattered sand clusters, no odor, no shows

dolomite, as above

dolomite, white, microcrystalline, sub sucrosic, chalky, scattered free pyrite, poor visible intercrystalline porosity, dense, no odor, no shows

dolomite, white, microcrystalline, sub sucrosic, poor to fair visible intercrystalline porosity, dense in part, no fluorescence, no odor, no shows

dolomite, as above

dolomite, white to off white, microcrystalline, sub sucrosic, poor visible intercrystalline porosity, dense, scattered free pyrite, no odor, no shows

dolomite, white to off white, cryptocrystalline, mostly sandy, poor visible porosity, fragile to dense, glauconitic in part, fair to well sorted sand, very-fine to fine grained, sub rounded, no fluorescence, no odor, no shows

sandy dolomite as above

sandy dolomite, off white, more glauconitic, sub round to sub angular, fair sorting, v fine to fine grained,

dolomitic sand, off white, round to sub rounded, glauconitic, scattered pyritic sand. poor visible porosity. v.fine to fine grained. friable to hard.

pH 10.0
CHL 4200 ppm
Ca 40 ppm
Sol 5.4 LCM 2#
DMC \$1661.60
CMC \$9194.05

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

Mud-Co Mud chk @ 4045 ft.
1200 hrs. 8/4/14
Vis. 49 Wt. 9.3
PV 14 YP 12
WL 10.0
Cake 1/32,
pH 9.5
CHL 6000 ppm
Ca 60 ppm
Sol 6.8 LCM 4#
DMC \$1999.75
CMC \$11193.80

pyrite, garnet, porphyroblast porphyry, fine to fine grained, matrix to hard,
no fluorescence, no odor, no shows

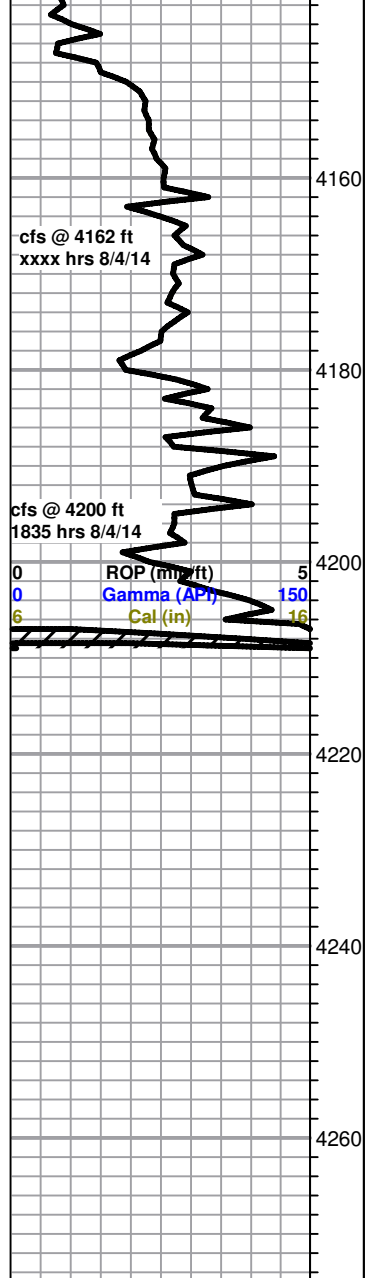
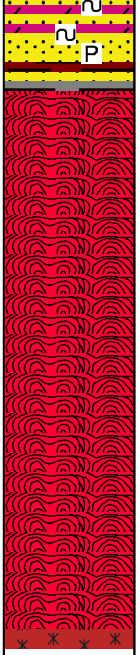
schist, brick red to gray, cryptocrystalline, blocky, dense, fractured in
part, recemented with mottled green yellow mineral which reacts in HCl,
no odor, no shows

schist, as above

schist, dark gray, blocky, cryptocrystalline, very dense, scattered bands
dark green quartz (chlorite?), scattered embedded pyrite, loose clear
quartz in sample, half rounded half crystalline, no odor, no shows

Rotary TD 4209' @ 2025hrs 8/4/14
Nabors Well Services Logging TD @ 4212'
Complete Logging Operations @ 0500 hrs 8/5/14
Geologist Ted Pfau off location @ xxxx hrs 8/5/14

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



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 100

Date	7-30-14	Sec.	27	Twp.	21	Range	17	County	Pawnee	State	Ks	On Location		Finish	2:30 PM
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Location Larned, Ks - 4W, 1/2N, E15

Lease	<u>Vaughn Trust</u>	Well No.	<u>1-27</u>	Owner	
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Contractor	<u>Stirling #4</u>	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
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Type Job	<u>Surface</u>	Charge To	<u>Shelby Resources</u>
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Hole Size	<u>12 1/4"</u>	T.D.	<u>1058'</u>	Street	
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Csg.	<u>8 5/8"</u>	Depth	<u>1043'</u>	City		State	
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Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
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Tool		Depth		Cement Amount Ordered	<u>400 60140 3% CC 2% Gel</u>
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Cement Left in Csg.	<u>32.80'</u>	Shoe Joint	<u>32.80'</u>		
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Meas Line		Displace	<u>64 1/2 BLS</u>	<u>1/4 # Flo-seal</u>
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EQUIPMENT

Pumptrk	<u>17</u>	No.		Cementer	<u>Lonnie W.</u>	Common	<u>240</u>
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Bulktrk	<u>4</u>	No.		Driver	<u>Taylor</u>	Poz. Mix	<u>160</u>
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Bulktrk	<u>p.u.</u>	No.		Driver	<u>Rick</u>	Gel.	<u>8</u>
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				Driver		Calcium	<u>15</u>
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JOB SERVICES & REMARKS

Remarks:	<u>Cement did Circulate.</u>	Hulls	
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Rat Hole		Salt	
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Mouse Hole		Flowseal	<u>100#</u>
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Centralizers		Kol-Seal	
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Baskets		Mud CLR 48	
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D/V or Port Collar		CFL-117 or CD110 CAF 38	
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		Sand	
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		Handling	<u>414</u>
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		Mileage	
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FLOAT EQUIPMENT

		Guide Shoe	<u>1</u>
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		Centralizer	<u>Baffle plate</u>
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		Baskets	<u>Rubber plug</u>
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		AFU Inserts	
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		Float Shoe	
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		Latch Down	
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		Pumptrk Charge	<u>Long Surface</u>
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		Mileage	<u>26</u>
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Tax

Discount

Total Charge

X Signature [Signature]