



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1153470
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: _____



1153470

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: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Eakin 7-7
Doc ID	1153470

All Electric Logs Run

Dual Induction
Compensated Nuutron
Micro
Sonic
Cement Bond



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal BLVD.
Suite C
Hays Kansas, 67601

ATTN:

Eakin #7-7

7/22s/16w/Pawnee

Start Date: 2013.06.08 @ 03:45:00

End Date: 2013.06.08 @ 13:10:30

Job Ticket #: 17592 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.06.08 @ 13:27:20



DRILL STEM TEST REPORT

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN:

Eakin #7-7

Job Ticket: 17592

DST#: 1

Test Start: 2013.06.08 @ 03:45:00

GENERAL INFORMATION:

Formation: **Conglomerate/Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:44:00

Time Test Ended: 13:10:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/50/Great Bend

Interval: 3844.00 ft (KB) To 3867.00 ft (KB) (TVD)

Reference Elevations: 2019.00 ft (KB)

Total Depth: 3867.00 ft (KB) (TVD)

2006.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 13.00 ft

Serial #: 8405

Inside

Press @ RunDepth: 1132.86 psia @ 3863.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.06.08

End Date: 2013.06.08

Last Calib.: 2013.06.08

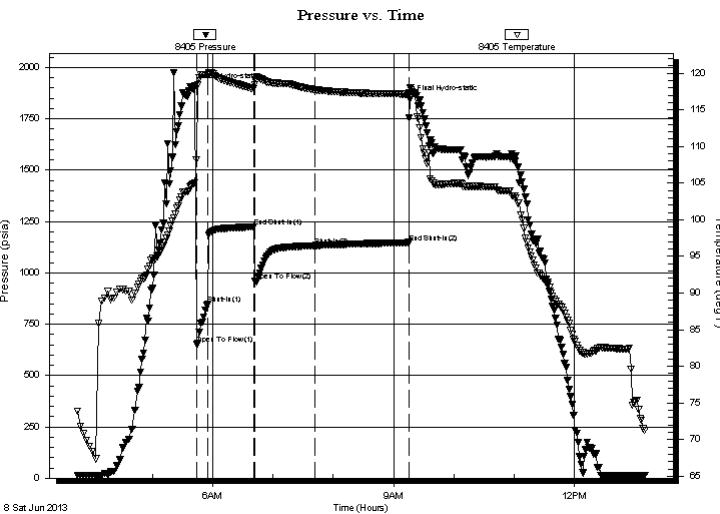
Start Time: 03:45:00

End Time: 13:10:30

Time On Btm: 2013.06.08 @ 05:38:30

Time Off Btm: 2013.06.08 @ 09:16:30

TEST COMMENT: 1st Open/ 10 Minutes. Strong blow built to bottom of 5 gallon bucket in 20 seconds.
1st Shut In/ 45 Minutes. Good blow back built to bottom of 5 gallon bucket in 4 Minutes then died back to 8 inches.
2nd Open/ 60 Minutes. Strong blow built to bottom of 5 gallon bucket in 40 seconds. Gas at surface. Gas was



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1902.33	104.68	Initial Hydro-static
6	651.87	108.21	Open To Flow (1)
17	848.57	119.82	Shut-In(1)
63	1223.61	117.87	End Shut-In(1)
64	958.89	118.43	Open To Flow (2)
123	1132.86	117.76	Shut-In(2)
217	1147.64	117.16	End Shut-In(2)
218	1845.40	117.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3003.00	clean oil.	39.12
0.00	Oil gravity was 47	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.32	2.36
Last Gas Rate	0.13	4.03	1.51
Max. Gas Rate	0.13	6.32	2.36



DRILL STEM TEST REPORT

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN:

Eakin #7-7

Job Ticket: 17592

DST#: 1

Test Start: 2013.06.08 @ 03:45:00

GENERAL INFORMATION:

Formation: **Conglomerate/Chert**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:44:00

Time Test Ended: 13:10:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/50/Great Bend

Interval: 3844.00 ft (KB) To 3867.00 ft (KB) (TVD)

Reference Elevations: 2019.00 ft (KB)

Total Depth: 3867.00 ft (KB) (TVD)

2006.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 13.00 ft

Serial #: 8400 Outside

Press @ Run Depth: 1148.47 psia @ 3864.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.06.08

End Date: 2013.06.08

Last Calib.: 2013.06.08

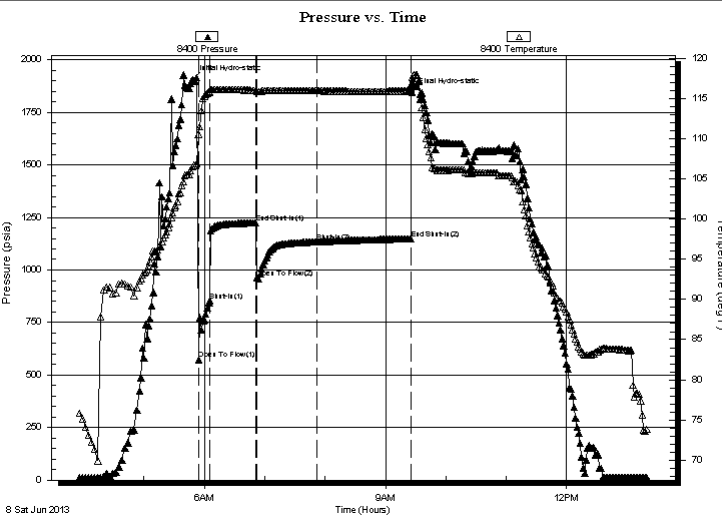
Start Time: 03:55:00

End Time: 13:20:00

Time On Btm: 2013.06.08 @ 05:48:00

Time Off Btm: 2013.06.08 @ 09:26:30

TEST COMMENT: 1st Open/ 10 Minutes. Strong blow built to bottom of 5 gallon bucket in 20 seconds.
1st Shut In/ 45 Minutes. Good blow back built to bottom of 5 gallon bucket in 4 Minutes then died back to 8 inches.
2nd Open/ 60 Minutes. Strong blow built to bottom of 5 gallon bucket in 40 seconds. Gas at surface. Gas was



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1907.00	106.50	Initial Hydro-static
6	574.05	110.60	Open To Flow (1)
17	854.34	115.90	Shut-In(1)
63	1224.57	116.01	End Shut-In(1)
64	961.16	115.88	Open To Flow (2)
124	1133.82	115.99	Shut-In(2)
217	1148.47	115.98	End Shut-In(2)
219	1846.18	117.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3003.00	clean oil.	39.12
0.00	Oil gravity was 47	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.32	2.36
Last Gas Rate	0.13	4.03	1.51
Max. Gas Rate	0.13	6.32	2.36



DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN:

Eakin #7-7

Job Ticket: 17592

DST#: 1

Test Start: 2013.06.08 @ 03:45:00

Tool Information

Drill Pipe:	Length: 3506.00 ft	Diameter: 3.80 inches	Volume: 49.18 bbl	Tool Weight: 2000.00 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: 330.00 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose: 92000.00 lb
			<u>Total Volume: 50.80 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	3844.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3821.00	
Hydraulic Tool	5.00			3826.00	
Jars	6.00			3832.00	
Safety Joint	2.00			3834.00	
Packer	5.00			3839.00	28.00 Bottom Of Top Packer
Packer	5.00			3844.00	
Anchor	18.00			3862.00	
Recorder	1.00	8405	Inside	3863.00	
Recorder	1.00	8400	Outside	3864.00	
Bullnose	3.00			3867.00	23.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN:

Eakin #7-7

Job Ticket: 17592

DST#: 1

Test Start: 2013.06.08 @ 03:45:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3003.00	clean oil.	39.118
0.00	Oil gravity w as 47	0.000

Total Length: 3003.00 ft Total Volume: 39.118 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Reversed all fluid out to transport truck.



DRILL STEM TEST REPORT

GAS RATES

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN:

Eakin #7-7

Job Ticket: 17592

DST#: 1

Test Start: 2013.06.08 @ 03:45:00

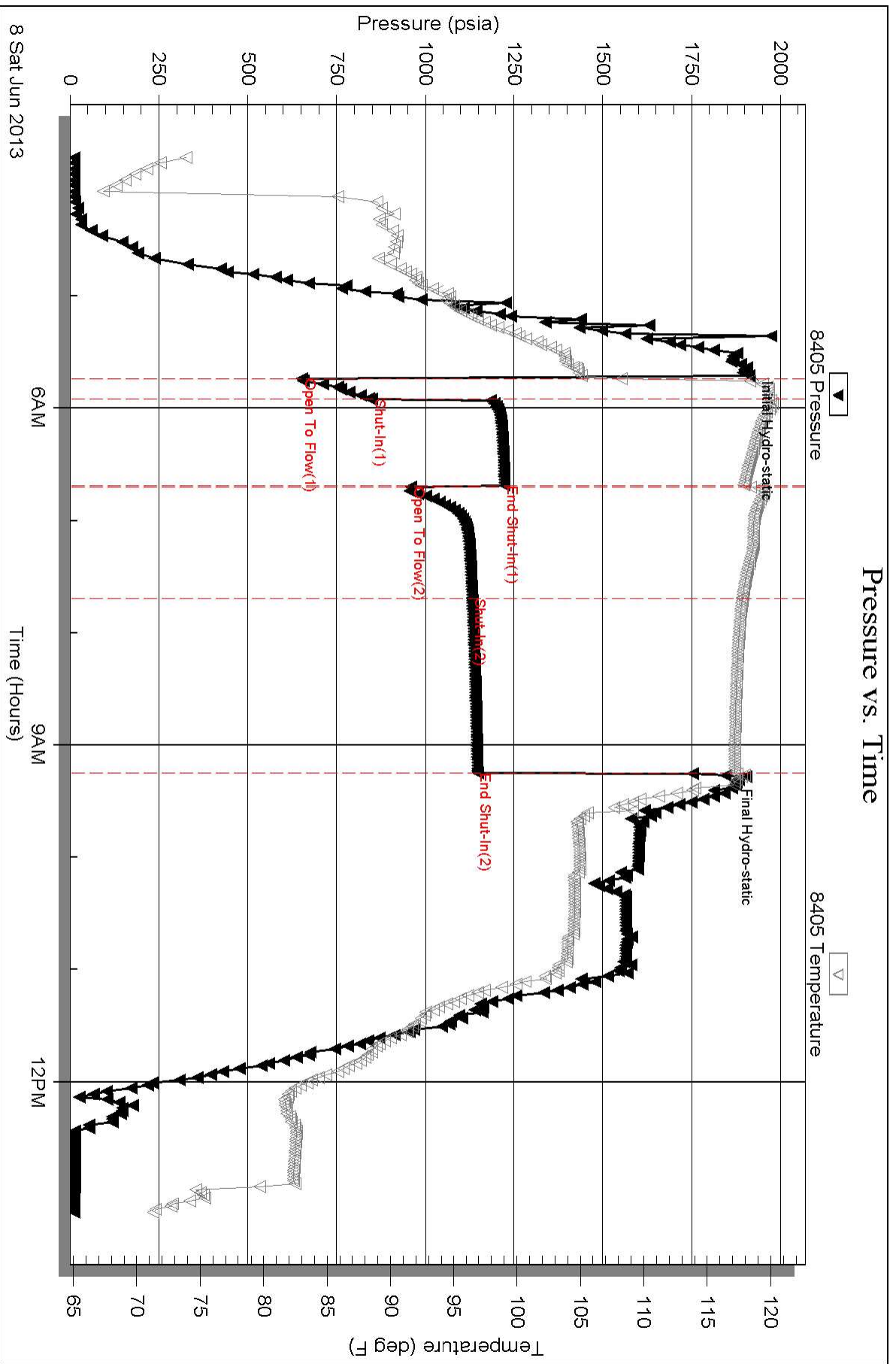
Gas Rates Information

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

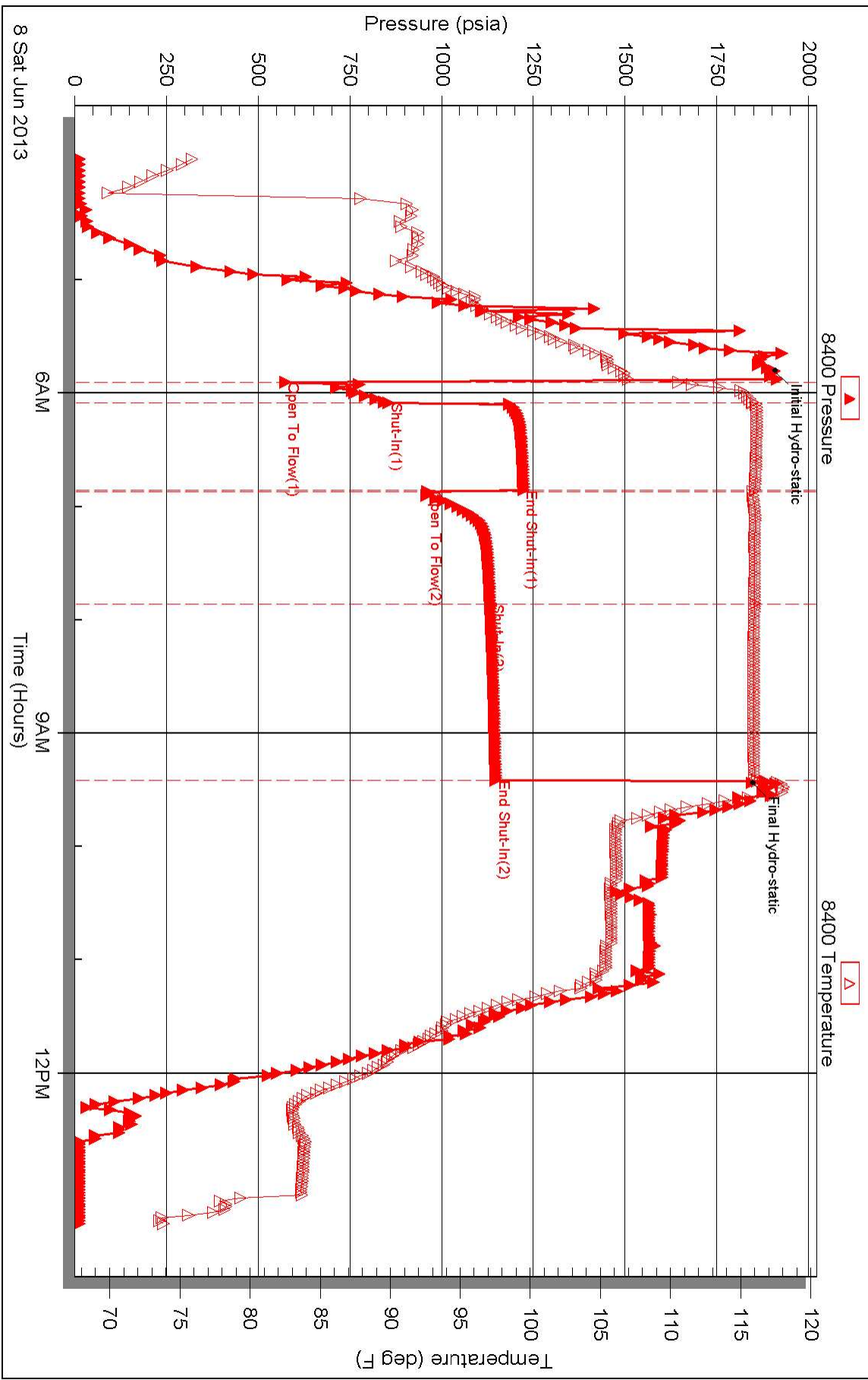
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	5	0.13	6.32	2.36
2	5	0.13	6.32	2.36
2	10	0.13	4.90	1.83
2	20	0.13	4.03	1.51
2	30	0.13	4.03	1.51

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal BLVD.
Suite C
Hays Kansas, 67601

ATTN: Keith

Eakin #7-7

7/22s/16w/Pawnee

Start Date: 2013.06.09 @ 21:20:00

End Date: 2013.06.10 @ 06:37:30

Job Ticket #: 17593 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.06.09 @ 06:52:50



DRILL STEM TEST REPORT

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN: Keith

Eakin #7-7

Job Ticket: 17593

DST#: 2

Test Start: 2013.06.09 @ 21:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:18:30

Time Test Ended: 06:37:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/50/Great Bend

Interval: 3870.00 ft (KB) To 3882.00 ft (KB) (TVD)

Reference Elevations: 2019.00 ft (KB)

Total Depth: 3882.00 ft (KB) (TVD)

2006.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 13.00 ft

Serial #: 8405 Inside

Press @ RunDepth: 591.29 psia @ 3878.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.06.09

End Date: 2013.06.10

Last Calib.: 2013.06.09

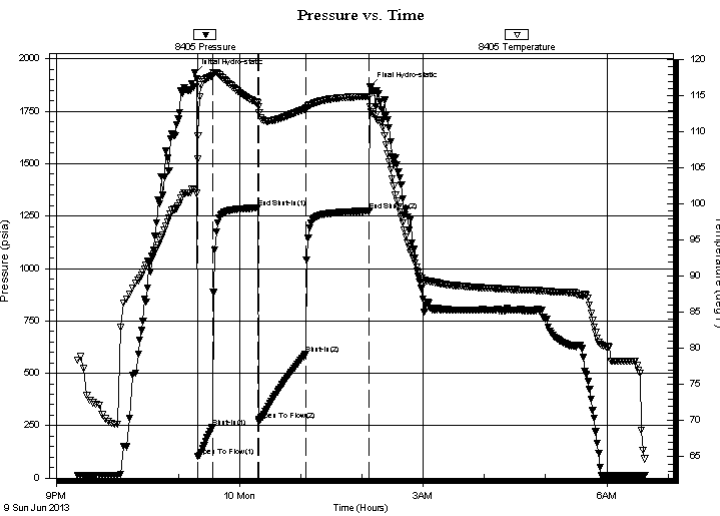
Start Time: 21:20:00

End Time: 06:37:30

Time On Btm: 2013.06.09 @ 23:16:00

Time Off Btm: 2013.06.10 @ 02:08:00

TEST COMMENT: 1st Open. 15 Minutes. Strong blow built to bottom of five gallon bucket in one minutes.
1st Shut In. 45 Minutes Fair blow back built to bottom of five gallon bucket in ten minutes. Then backed off to 8 inches at end of shut in.
2nd Open. 45 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes. Gas to surface in 40 Minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1931.01	102.02	Initial Hydro-static
3	103.43	106.22	Open To Flow (1)
17	242.92	117.78	Shut-In(1)
62	1288.64	113.97	End Shut-In(1)
63	278.20	113.47	Open To Flow (2)
109	591.29	113.18	Shut-In(2)
171	1273.71	114.91	End Shut-In(2)
172	1864.99	113.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1632.00	Clean Oil	19.89
0.00	Gravity corrected 46.	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.50	1.68
Last Gas Rate	0.13	4.50	1.68



DRILL STEM TEST REPORT

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN: Keith

Eakin #7-7

Job Ticket: 17593

DST#: 2

Test Start: 2013.06.09 @ 21:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:18:30

Time Test Ended: 06:37:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/50/Great Bend

Interval: 3870.00 ft (KB) To 3882.00 ft (KB) (TVD)

Reference Elevations: 2019.00 ft (KB)

Total Depth: 3882.00 ft (KB) (TVD)

2006.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 13.00 ft

Serial #: 8400 Outside

Press @ RunDepth: 1274.43 psia @ 3879.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.06.09

End Date:

2013.06.10

Last Calib.:

2013.06.09

Start Time: 21:30:00

End Time:

06:47:00

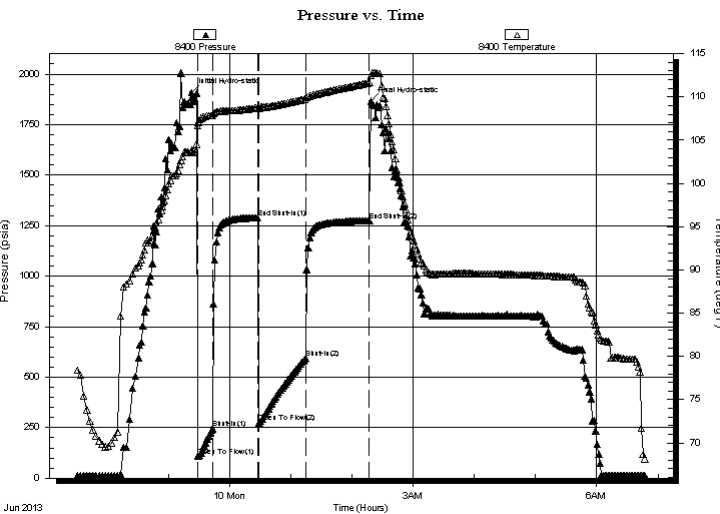
Time On Btm:

2013.06.09 @ 23:22:30

Time Off Btm:

2013.06.10 @ 02:18:30

TEST COMMENT: 1st Open. 15 Minutes. Strong blow built to bottom of five gallon bucket in one minutes.
1st Shut In. 45 Minutes Fair blow back built to bottom of five gallon bucket in ten minutes. Then backed off to 8 inches at end of shut in.
2nd Open. 45 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes. Gas to surface in 40 Minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1909.16	103.70	Initial Hydro-static
6	106.33	106.66	Open To Flow (1)
21	244.44	107.87	Shut-In(1)
66	1289.60	108.77	End Shut-In(1)
67	274.71	108.72	Open To Flow (2)
112	592.75	109.77	Shut-In(2)
175	1274.43	111.64	End Shut-In(2)
176	1866.13	112.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1632.00	Clean Oil	19.89
0.00	Gravity corrected 46.	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.50	1.68
Last Gas Rate	0.13	4.50	1.68



DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN: Keith

Eakin #7-7

Job Ticket: 17593

DST#: 2

Test Start: 2013.06.09 @ 21:20:00

Tool Information

Drill Pipe:	Length: 3537.00 ft	Diameter: 3.80 inches	Volume: 49.61 bbl	Tool Weight: 2000.00 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: 330.00 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 51.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	3870.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3852.00	
Hydraulic Tool	5.00			3857.00	
Jars	6.00			3863.00	
Safety Joint	2.00			3865.00	
Packer	5.00			3870.00	23.00 Bottom Of Top Packer
Anchor	7.00			3877.00	
Recorder	1.00	8405	Inside	3878.00	
Recorder	1.00	8400	Outside	3879.00	
Bullnose	3.00			3882.00	12.00 Anchor Tool
Total Tool Length:	35.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN: Keith

Eakin #7-7

Job Ticket: 17593

DST#: 2

Test Start: 2013.06.09 @ 21:20:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 47.00 sec/qt
Water Loss: 10.00 in³
Resistivity: ohm.m
Salinity: 4900.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1632.00	Clean Oil	19.887
0.00	Gravity corrected 46.	0.000

Total Length: 1632.00 ft Total Volume: 19.887 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Reversed all fluid out to a transport truck.



DRILL STEM TEST REPORT

GAS RATES

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN: Keith

Eakin #7-7

Job Ticket: 17593

DST#: 2

Test Start: 2013.06.09 @ 21:20:00

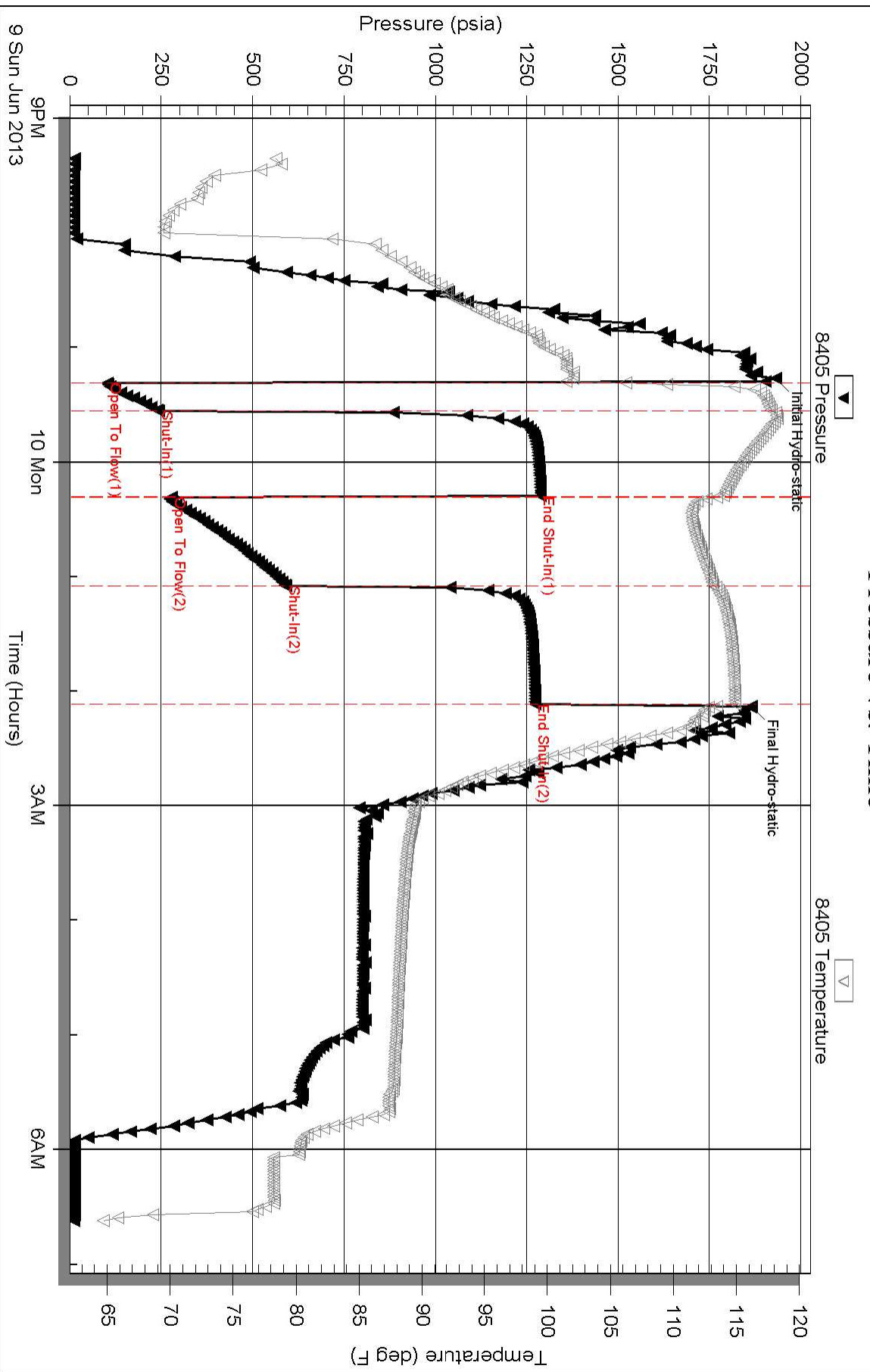
Gas Rates Information

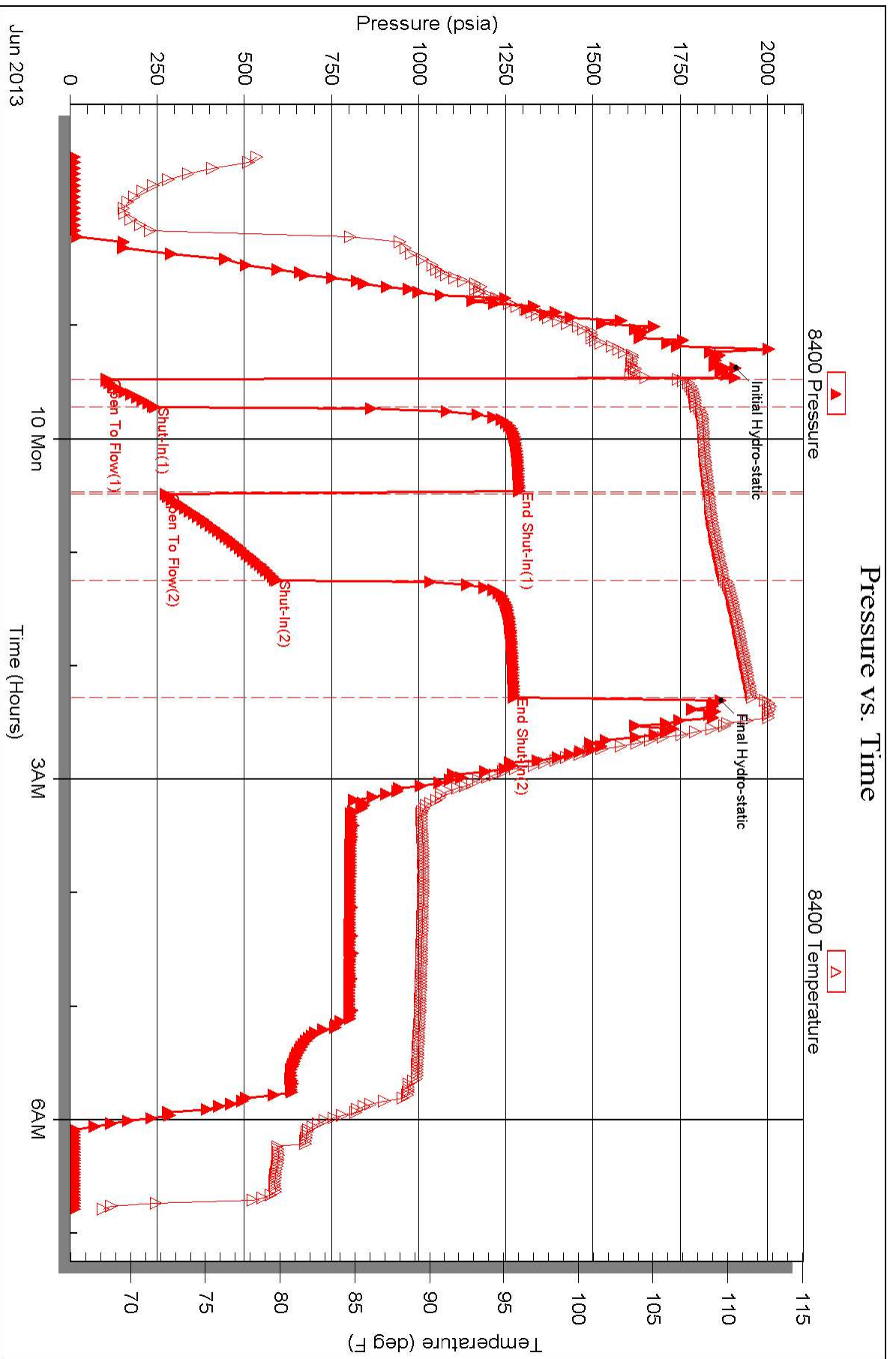
Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	40	0.13	4.50	1.68
2	40	0.13	4.50	1.68

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal BLVD.
Suite C
Hays Kansas, 67601

ATTN: Keith

Eakin #7-7

7/22s/16w/Pawnee

Start Date: 2013.06.09 @ 13:35:00

End Date: 2013.06.09 @ 21:01:30

Job Ticket #: 17594 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.06.09 @ 21:18:13



DRILL STEM TEST REPORT

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN: Keith

Eakin #7-7

Job Ticket: 17594

DST#: 3

Test Start: 2013.06.09 @ 13:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:29:30

Time Test Ended: 21:01:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/50/Great Bend

Interval: 3889.00 ft (KB) To 3895.00 ft (KB) (TVD)

Reference Elevations: 2019.00 ft (KB)

Total Depth: 3895.00 ft (KB) (TVD)

2006.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8405

Press @ RunDepth: 230.24 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.06.09

End Date:

2013.06.09

Last Calib.:

2013.06.09

Start Time: 13:35:00

End Time:

21:01:30

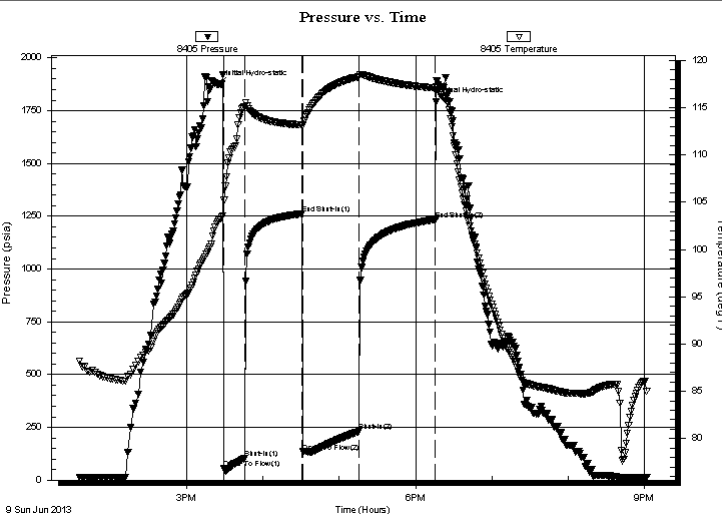
Time On Btm:

2013.06.09 @ 15:25:30

Time Off Btm:

2013.06.09 @ 18:16:00

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 1 minute 45 seconds.
1st Shut In/ 45 Minutes. Blow back built to bottom of 5 gallon bucket in 43 minutes.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 4 minutes and 45 seconds. No gas to surface.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1876.00	103.09	Initial Hydro-static
4	54.32	105.18	Open To Flow (1)
20	102.67	115.14	Shut-In(1)
65	1261.94	113.19	End Shut-In(1)
66	133.66	113.07	Open To Flow (2)
110	230.24	118.28	Shut-In(2)
170	1234.26	117.06	End Shut-In(2)
171	1791.89	117.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2709 feet gas	0.00
720.00	clean oil	7.09
10.00	50% oil, 50% mud	0.14
0.00	Oil gravity was 47 corrected.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN: Keith

Eakin #7-7

Job Ticket: 17594

DST#: 3

Test Start: 2013.06.09 @ 13:35:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:29:30

Time Test Ended: 21:01:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/50/Great Bend

Interval: 3889.00 ft (KB) To 3895.00 ft (KB) (TVD)

Reference Elevations: 2019.00 ft (KB)

Total Depth: 3895.00 ft (KB) (TVD)

2006.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8400

Press @ RunDepth: 1234.30 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.06.09

End Date: 2013.06.09

Last Calib.: 2013.06.09

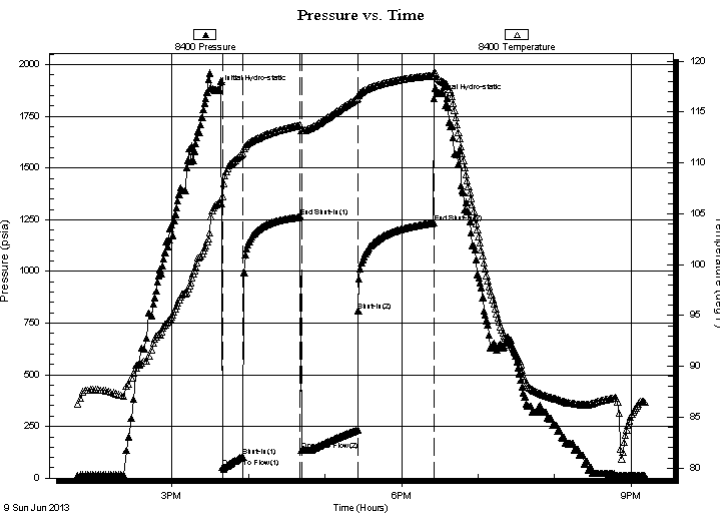
Start Time: 13:45:00

End Time: 21:11:00

Time On Btm: 2013.06.09 @ 15:35:30

Time Off Btm: 2013.06.09 @ 18:25:30

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 1 minute 45 seconds.
1st Shut In/ 45 Minutes. Blow back built to bottom of 5 gallon bucket in 43 minutes.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 4 minutes and 45 seconds. No gas to surface.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1877.19	105.97	Initial Hydro-static
4	52.02	106.72	Open To Flow (1)
20	104.63	110.94	Shut-In(1)
65	1262.35	113.70	End Shut-In(1)
66	135.62	113.21	Open To Flow (2)
111	808.10	116.64	Shut-In(2)
170	1234.30	118.58	End Shut-In(2)
170	1836.75	118.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2709 feet gas	0.00
720.00	clean oil	7.09
10.00	50% oil, 50% mud	0.14
0.00	Oil gravity was 47 corrected.	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN: Keith

Eakin #7-7

Job Ticket: 17594

DST#: 3

Test Start: 2013.06.09 @ 13:35:00

Tool Information

Drill Pipe:	Length: 3567.00 ft	Diameter: 3.80 inches	Volume: 50.04 bbl	Tool Weight: 2000.00 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: 330.00 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose: 92000.00 lb
			<u>Total Volume: 51.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	3889.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	29.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

SHut-InTool	5.00		Inside	3871.00	
Hydraulic Tool	5.00			3876.00	
Jars	6.00			3882.00	
Safety Joint	2.00			3884.00	
Packer	5.00			3889.00	23.00 Bottom Of Top Packer
Anchor	1.00			3890.00	
Recorder	1.00	8405	Inside	3891.00	
Recorder	1.00	8400	Outside	3892.00	
Bullnose	3.00			3895.00	6.00 Anchor Tool
Total Tool Length:	29.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

7/22s/16w/Pawnee

2717 Canal BLVD.
Suite C
Hays Kansas, 67601
ATTN: Keith

Eakin #7-7

Job Ticket: 17594

DST#: 3

Test Start: 2013.06.09 @ 13:35:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 6100.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2709 feet gas	0.000
720.00	clean oil	7.094
10.00	50% oil, 50% mud	0.140
0.00	Oil gravity w as 47 corrected.	0.000

Total Length: 730.00 ft Total Volume: 7.234 bbl

Num Fluid Samples: 0

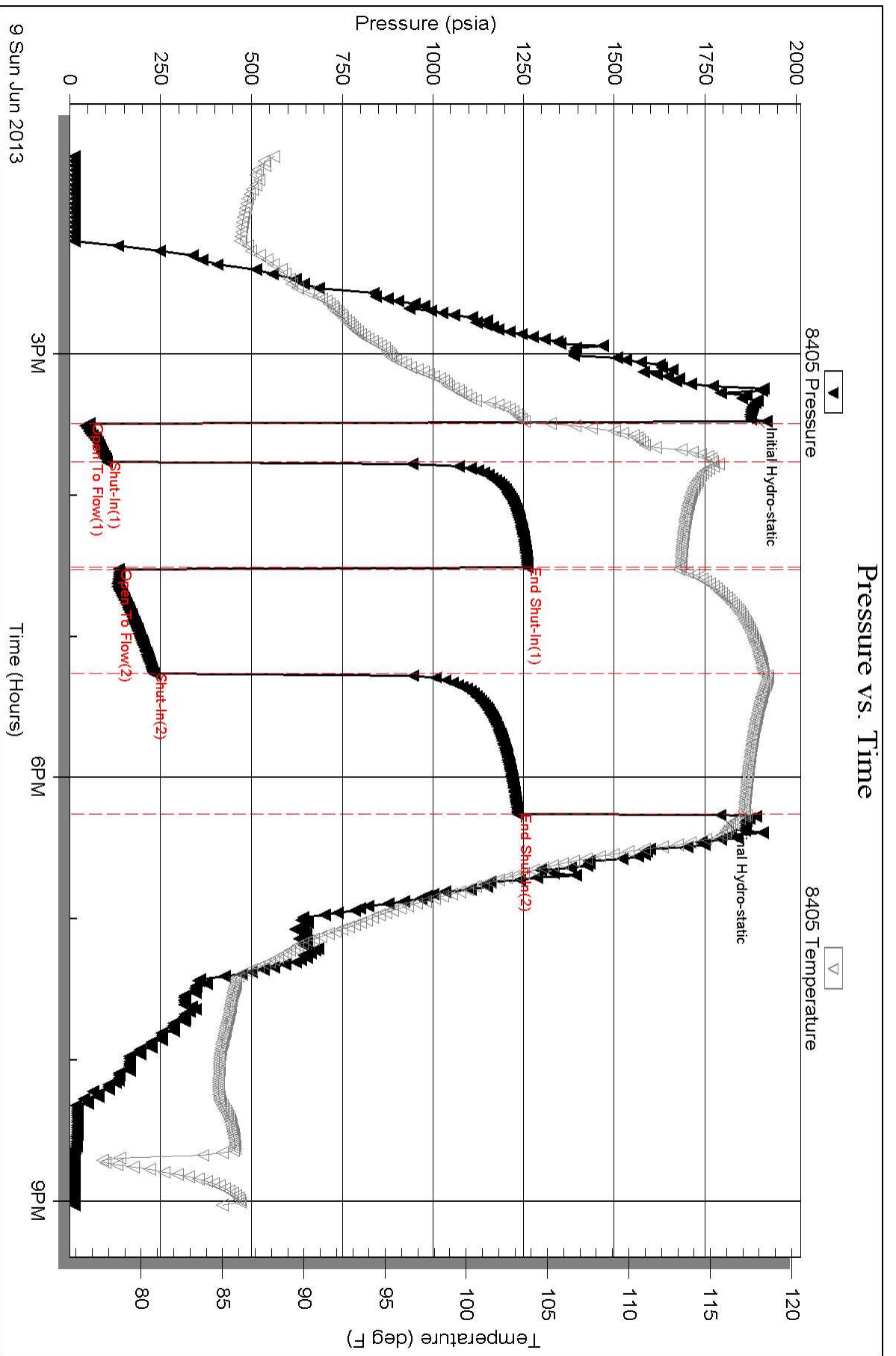
Num Gas Bombs: 0

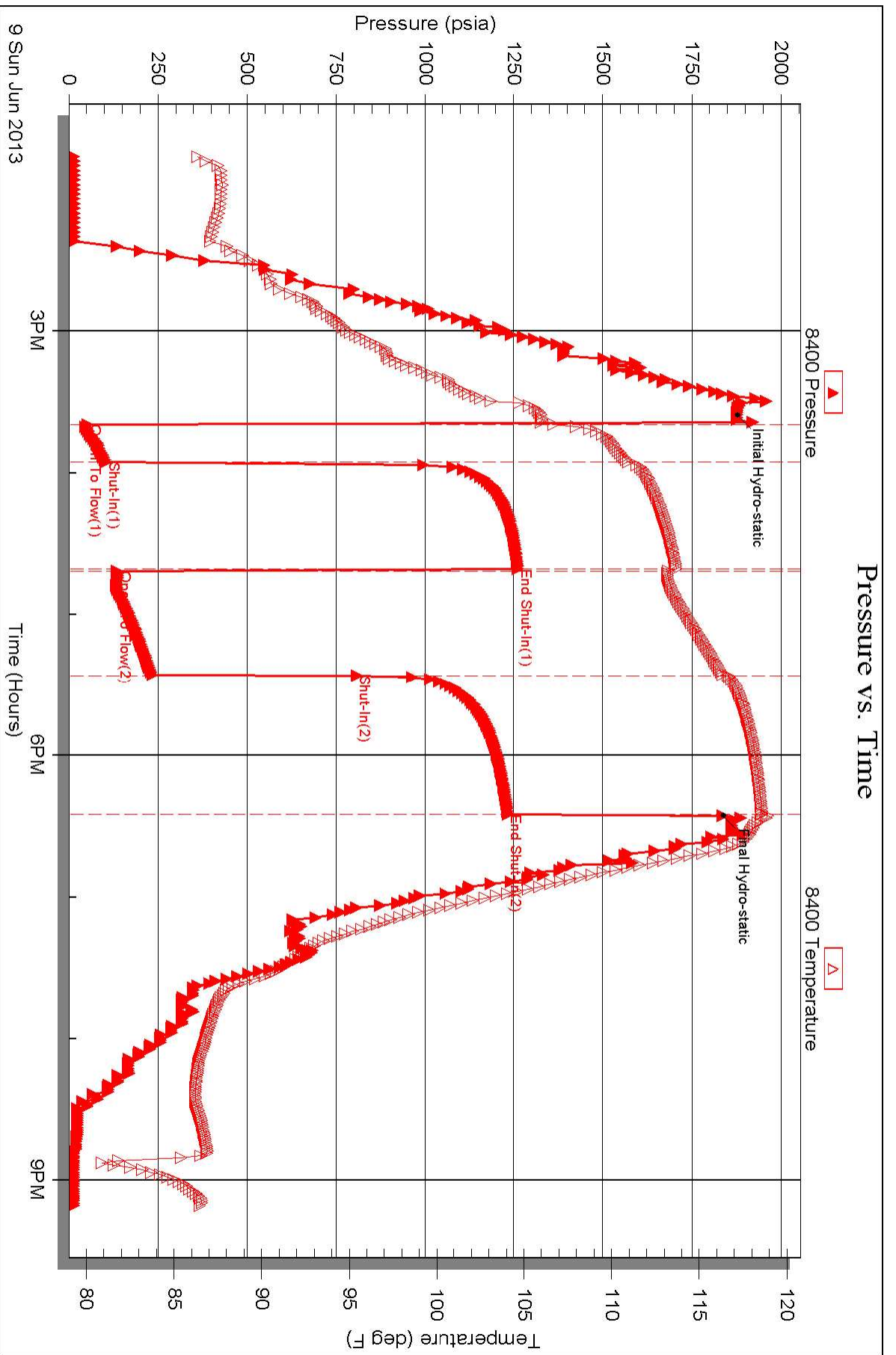
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





OPERATOR

Company: Shelby Resources/Captiva II
 Address: 445 Union Blvd.
 Ste. 208
 Lakewood, CO 80228
 Contact Geologist: Janine Sturdavant
 Contact Phone Nbr: 720-274-4682
 Well Name: Eakin #7-7
 Location: Sec. 7 - T22S - R16W
 Pool: API: 15-145-21715-0000
 State: Kansas Field: Larned West
 Country: USA



Shelby Resources L.L.C.

Scale 1:240 Imperial

Well Name: Eakin #7-7
 Surface Location: Sec. 7 - T22S - R16W
 Bottom Location:
 API: 15-145-21715-0000
 License Number: 31725
 Spud Date: 5/31/2013 Time: 00:00
 Region: Pawnee County Time: 02:35
 Drilling Completed: 6/10/2013
 Surface Coordinates: 1906' FNL & 1980' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2006.00ft
 K.B. Elevation: 2019.00ft
 Logged Interval: 3300.00ft To: 3985.00ft
 Total Depth: 3985.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 1906' FNL
 E/W Co-ord: 1980' FEL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530
 Phone Nbr: 620-617-4091
 Logged By: KLG #136 Name: Keith Reavis and Jeremy Schwartz

CONTRACTOR

Contractor: Sterling Drilling Company
 Rig #: 5
 Rig Type: mud rotary
 Spud Date: 5/31/2013 Time: 00:00
 TD Date: 6/10/2013 Time: 02:35
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2019.00ft Ground Elevation: 2006.00ft
 K.B. to Ground: 13.00ft

NOTES

Due to positive results of Drill Stem Tests #1, #2 and #3, it was determined by all parties that 5 1/2" production casing would be set and cemented and the Arbuckle and Conglomerate be further tested through perforations and stimulation.

A Tooke Daq gas detection system owned and operated by Sterling Drilling was employed on this well. The ROP and gas curves were taken from said system and imported into this mudlog. The gamma ray and caliper curves from the electrical log suite were also imported into this mudlog.

The samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted,
 Keith Reavis and Jeremy Schwartz

Captiva II, LLC

DAILY DRILLING REPORT

DATE	7:00 AM DEPTH	REMARKS
06/07/2013		Geologist Keith Reavis on location @ 0835 hrs, 3360 ft., drilling ahead Topeka, Heebner, Douglas, LKC, Base KC, bit trip at 3809', pull PDC back in with button bit, resume drilling 2155 hrs, Marmaton
06/08/2013	3867	drill conglomerate chert, gas kick and show warrant test, TOH for DST #1 conducting and complete DST #1, successful test, TIH w/bit, resume drilling Arbuckle, show warrants test, TOH for DST #2, conducting DST #2
06/09/2013	3882	complete DST #2, successful test, TIH w/bit, resume drilling, cut to 3895', show warrant test, TOH for DST #3, conduct and complete DST #3 successful test, TIH w/bit, resume drilling
06/10/2013	3985	rathole and TD @ 3985', TOH for logs, conduct logging operations, geologist released @ 1000 hrs

Captiva II, LLC

WELL COMPARISON SHEET

DRILLING WELL					COMPARISON WELL			
Eakin #7-7					Captiva - Eakin #3-7			
1906' FNL & 1980' FEL					1238' FNL & 1780' FEL			
Sec. 7, T22S R16W					Sec. 7, T22S R16W			
2019 KB					2017 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Queen Hill	3317	-1298	3315	-1296	3316	-1299	1	3
Heebner	3425	-1406	3424	-1405	3426	-1409	3	4
Douglas	3460	-1441	3459	-1440	3461	-1444	3	4
Lansing	3534	-1515	3532	-1513	3535	-1518	3	5
Lansing B	3564	-1545	3562	-1543	3563	-1546	1	3
Lansing H	3666	-1647	3663	-1644	3670	-1653	6	9
Stark	3730	-1711	3729	-1710	3731	-1714	3	4
Base KC	3789	-1770	3784	-1765	3789	-1772	2	7
Arbuckle	3868	-1849	3869	-1850	3868	-1851	2	1
Total Depth	3985	-1966	3986	-1967	3994	-1977	11	10

Drill Stem Test #1

DRILL STEM TEST REPORT

Shelby Resources LLC
 2717 Canal BLVD.
 Suite C
 Hays Kansas, 67801
 ATTN: Keith

7/22s/16w/Pawnee

Eakin #7-7

Job Ticket: 17592 DST#: 1
 Test Start: 2013.06.08 @ 03:45:00

GENERAL INFORMATION:

Formation: Conglomerate/Chert
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 05:44:00
 Time Test Ended: 13:10:30
 Interval: 3844.00 ft (KB) To 3867.00 ft (KB) (TVD)
 Total Depth: 3867.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzern
 Unit No: 3330/50/Great Bend
 Reference Elevations: 2019.00 ft (KB)
 2006.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8405 Inside

Press@RunDepth: 1132.86 psia @ 3863.00 ft (KB)
 Start Date: 2013.06.08 End Date: 2013.06.08 Capacity: 5000.00 psia
 Start Time: 03:46:00 End Time: 13:10:30 Last Calib.: 2013.06.08
 Time On Btmr: 2013.06.08 @ 05:38:30
 Time Off Btmr: 2013.06.08 @ 09:16:30

TEST COMMENT: 1st Open/ 10 Minutes. Strong blow built to bottom of 5 gallon bucket in 20 seconds.
 1st Shut In/ 45 Minutes. Good blow back built to bottom of 5 gallon bucket then died back to 8 inches.
 2nd Open/ 60 Minutes. Strong blow built to bottom of 5 gallon bucket in 40 seconds. Gas at surface. Gas was

PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1902.33	104.68	Initial Hydro-static
6	651.87	108.21	Open To Flow (1)
17	848.57	119.82	Shut-In(1)
63	1223.61	117.87	End Shut-In(1)
64	958.89	118.43	Open To Flow (2)
123	1132.86	117.76	Shut-In(2)
217	1147.64	117.16	End Shut-In(2)
218	1845.40	117.95	Final Hydro-static

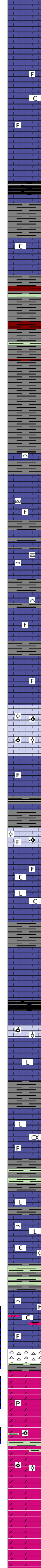
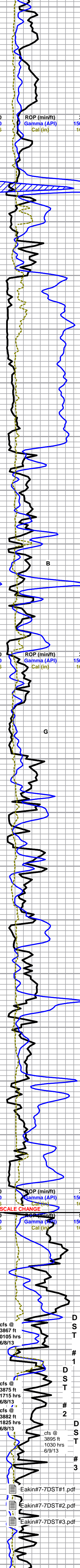
Recovery

Length (ft)	Discovery	Volume (bbl)
3258.00	clean oil.	42.70

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcfd)
First Gas Rate	0.13	6.32	2.36

3360
3380
3400
3420
3440
3460
3480
3500
3520
3540
3560
3580
3600
3620
3640
3660
3680
3700
3720
3740
3760
3780
3800
3820
3840
3860
3880
3900
3920
3940



LS, cream to gray with some light brown, vf-f xln, tight and dense with poor to no visible porosity, no shows

LS, cream to light gray, vf-f xln, slightly fossiliferous, poor to no visible porosity, slightly chalky, no shows

Heebner 3425 -1406

Shale, black carbonaceous
Shale, gray, mostly soft and waxy, also with some LS, cream to gray with some light brown, vf-f xln, poor to no visible porosity, no shows

LS, cream to white with some light gray, vf-f xln, tight with poor to no visible porosity, slightly chalky, no shows

Douglas 3460 -1441

LS as above, also with some mixed shale, gray to red with trace green, no shows

Shale, gray with trace red and green, most soft and waxy

Shale as above, mostly gray

Brown Lime 3526 -1507

LS, tan to light brown with some light gray, vf-xln, fossiliferous, dense with no visible porosity, no shows

Lansing 3534 -1515

LS, cream to light gray with few pieces white, vf-f xln, some slightly fossiliferous, most lithographic with poor to no visible porosity, slightly chalky, also with some light pink to translucent chert, no shows

LS, cream with some gray to gray mottled, vf-f xln, fossiliferous, poor to no visible porosity, also with some brown to pink and translucent chert and trace pyrite, no shows

LS, gray with some cream, vf-f xln, fossiliferous, poor visible porosity, no shows

LS, cream, vf-f xln, slightly fossiliferous, some with scattered slight development and very scattered very slight pinpoint porosity on few chips, poor overall visible porosity, trace translucent chert, slightly chalky, no shows

LS, cream to light gray, oomoldic, some slightly oolitic to oomoldic, poor oomold porosity, barren

LS, cream to light gray, vf-f xln, some slightly fossiliferous, dense with poor to no visible porosity, no shows

Lansing H 3666 -1647

LS, cream to gray, vf-f xln, slightly fossiliferous, oomoldic with some slightly oolitic to oomoldic, barren, overall poor visible porosity, slightly chalky, no shows

LS, cream, vf-f xln, lithographic, slightly chalky, poor to no visible porosity, no shows

LS as above, with abundant gray shale

LS, cream with some white, vf-f xln, few chips oolitic, poor to no visible porosity, no shows

Stark Shale 3730 -1711

Shale, black carbonaceous
LS, cream, vf-f xln, oolitic to oomoldic, barren, poor visible porosity, no shows

LS, cream, vf-f xln, mostly lithographic with poor to no visible porosity, no shows

limestone, cream to light gray, mostly cryptocrystalline and lithographic, some slightly fossiliferous, dense, no shows

Base KC 3789 -1770

green and gray shales

limestone, light gray to cream and pale green, crypto-microcrystalline, dense, arenaceous in part, no shows

limestone, cream to white, chalky, cryptocrystalline lithographic, pale green lithographic to arenaceous, limestone, cream, oolitic to bioclastic, dense, no shows

3840 sample, flood gray and green shales

limestone, white to cream and tan, chalky to dense fossiliferous to bioclastic, mostly dense but some pin-point type interclast porosity, no shows, some green arenaceous limestones as above, no show, chalky wash in samples

3860 and 67 samples, mixed limestones as above, fleeting odor, found 2 pieces re-worked and recrystallized dolomite, brown stained, show gas bubbles, show free oil in tray, slow milky cut

chert, white to translucent vitreous, sharp and fresh to brown stained tripolitic, bleeding oil and gas, good show free oil in tray, good odor, few clusters large cemented dolomite crystals, also stained and bleeding, bright white fluorescence

Arbuckle 3868 -1849

dolomite, mixed color and crystalline, mostly recrystallized, some very pyritic, well stained, with some micro-fine crystalline rhombic, white to cream, fair staining, some profuse bleeding, good show free oil in tray and strong odor in wet cup, 60 min sample at 3882', influx cream to white cryptocrystalline lithographic, mostly barren with some stained fractures and slight stained edge etching, some waxy green shale adhesion

3882-3895 30 min sample, mixed cryptocrystalline dense lithographic to microcrystalline, slight scattered staining, light brown, abundant black gilsonitic staining, abundant gray to pale green oomoldic, good porosity, saturated brown staining, bleeding oil and gas, some micro-fine crystalline re-crystallized, fair saturated staining, some gassy, good fluorescence, overall fair show oil, 60 min sample, mixed crystalline and re-crystallized, decrease in staining overall, increase in gilsonitic staining, decrease oomoldic, flood green shale, decrease free oil from above, strong pungent odor in wet cups

3898-3910 Dolomite, light brown to white, mixed crystalline, some good intercrystalline porosity, some recrystallized, some friable, mostly saturated light brown stain, with oolitic and oomoldic dolomite, white, good oomold porosity and crystal filled vugs, heavy black intermold and oolitic staining, all samples gassy, fair show bleeding oil, fair odor in wet cup

Dolomite, mixed color and crystalline, with abundant white vf-cryo xln with poor visible porosity and no shows, some black gilsonitic stain, some with good visible porosity, also some light brown stain, gassy, very slight show free oil in tray, poor odor in wet cup, slightly chalky sample

Dolomite as above, gassy, VSSFO, poor odor in wet cup, slightly chalky

Dolomite, white to light brown, vf-f xln, abundant black gilsonitic stain, few chips

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

Mud-Co Mud chk @ 3450' 0950hrs. 6/7/13 Vis. 48 Wt. 8.7 PV 14 YP 11 WL 8.8 Cake 1/32, pH 10.5 CHL 4,000 ppm Ca 40 ppm Sol 2.7 LCM 2# DMC \$1,675.70 CMC \$8,379.45

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

extractor plugging here

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

bit trip @ 3809', trip out PDC in with button bit

strap: 2.02' stb deviation survey 1 deg

Mud-Co Mud chk @ 3867' 0950hrs. 6/8/13 Vis. 47 Wt. 9.3 PV 14 YP 11 WL 10.0 Cake 1/32, pH 9.5 CHL 4,900 ppm Ca 120 ppm Sol 6.8 LCM 2# DMC \$186.75 CMC \$8,566.20

75 unit total
Total Gas (units) 500
C1 (units) 500
C2 (units) 500
C3 (units) 500
C4 (units) 500

gas high background

Mud-Co Mud chk @ 3882' 0940hrs. 6/9/13 Vis. 49 Wt. 8.8 PV 15 YP 11 WL 8.0 Cake 1/32, pH 11 CHL 6,100ppm Ca 40ppm Sol 3.7 LCM 1# DMC \$2,650.80 CMC \$11,217.00

plugged extractor?

3960

3980



have very scattered slight brown stain, overall poor to fair visible porosity, also with some light brown to translucent chert, NSFO, very poor odor in wet cup, slightly chalky

Dolomite, cream to white with few chips light brown, v-f xln, some scattered black gilsonitic stain, overall poor visible porosity, also with some light brown to brown and translucent chert, NSFO, no odor in wet cup, chalky sample

Dolomite, white to light brown, v-f xln, no shows, poor visible porosity, few chips with black gilsonitic stain, chalky, NSFO, no odor in cup

Rotary TD 3985 ft @ 0235 hrs 6/10/13
Nabors Log TD 3986 ft
Complete logging operations 0930 hrs 6/10/13



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. 7903

Pawnee

Date	6-4-13	Sec.	7	Twp.	22	Range	16	County	Osage	State	Ks	On Location		Finish	7:45 PM		
Lease	Eakin							Well No.	7-7		Owner	Larned Ks - 1W on 56 Hwy, 1/2 W w/ SW to Rig					
Contractor	Sterling		# 5		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.												
Type Job	Surface																
Hole Size	12 1/4"		T.D.		1037'		Charge To									Captiva	
Csg.	8 5/8"		Depth		1032'		Street										
Tbg. Size			Depth				City									State	
Tool			Depth				The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.	37.45'		Shoe Joint		37.45'		Cement Amount Ordered									450 sx 60140 3% CC 2% bel	
Meas Line			Displace		63 1/4 BLS		1/4 # Flo-seal										
EQUIPMENT																	
Pumptrk	15	No.	Cementer	Nick		Common										270	
			Helper			Poz. Mix										180	
Bulktrk	13	No.	Driver	David L.		Gel.										9	
			Driver			Calcium										16	
Bulktrk	p.u.	No.	Driver	Rick		Hulls											
			Driver			Salt											
JOB SERVICES & REMARKS																	
Remarks:	Cement did Circulate.																
Rat Hole	Flowseal																
Mouse Hole	Kol-Seal																
Centralizers	Mud CLR 48																
Baskets	CFL-117 or CD110 CAF 38																
D/V or Port Collar	Sand																
	Handling															475	
	Mileage																
FLOAT EQUIPMENT																	
	Guide Shoe															1 Slip on	
	Centralizer																
	Baskets															1	
	AFU Inserts																
	Float Shoe																
	Latch Down																
	1 - Baffle plate																
	1 - Rubber plug																
	Pumptrk Charge															Long Surface	
	Mileage															31	
	Tax																
	Discount																
	Total Charge																
X Signature	Alon Loffler																



TREATMENT REPORT

Customer Shelby Resources LLC - CAPRI A2	Lease No.	Date 6-10-13			
Lease EAKIN	Well # 7-7				
Field Order # 08653	Station PRATT KS	Casing 5 1/2	Depth 3961.8	County Pawnee	State KS
Type Job CNW 5 1/2" L.S.	Formation	Legal Description 7-22-16			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2			CMT - 50 SKS SCRAVING	Pre Pad @ 14.4 PPG	Max		5 Min.	
Depth 3955	Depth	From	To	Pad 100 SKS AA2	Min	5.7	21125	10 Min.
Volume 945	Volume	From	To	Frac @ 15.3 PPG	Avg			15 Min.
Max Press 1500	Max Press	From	To		HHP Used			Annulus Pressure
Well Connection	Annulus Vol.	From	To	Flush 96	Gas Volume			Total Load
Plug Depth 2940.61	Packer Depth	From	To					

Customer Representative Chris Gotschalk	Station Manager Kevin Goldkey	Treater MATTAL / OILWAGO	
Service Units 28433	27463	19831	19862
Driver Names MATTAL	McGraw	Peirson	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:00 PM	6-10-13				ON LOCATION - SAFETY MEETING
6:10 PM					RUN 95 JTS. 5 1/2" X 14" CSG.
					TURBO - 1,2,4,6,8 BASKET ON 1
8:10 PM					CASING ON BOTTOM
9:15 PM					HOOK UP TO CSG. / BREAK CIRC W RIG
9:30 PM	350		5	6	H2O AHEAD
9:31 PM	300		12	6	PUMP @ 50 SKS SCRAVING @ 14.4 PPG
9:33 PM	250		24	6	PUMP 100 SKS AA2 @ 15.3 PPG
9:37 PM					RELEASE PUMP + LINES / DROP PLUG
9:42 PM	0		0	6	START DISPLACEMENT
9:55 PM	400		78	5	LIFT PRESSURE
9:57 PM	700		86	3	SLOW RATE
10:00 PM	1,500		96	3	PLUG DOWN - HOLD
			6.4		Circ. Thru JOB
					PLUG R.H. + M.H.
					JOB COMPLETE
					THANKS
					MIKE MATTAL

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 31, 2013

Chris Gottschalk
Shelby Resources LLC
2717 Canal Blvd.
Suite C
HAYS, KS 67601

Re: ACO1
API 15-145-21715-00-00
Eakin 7-7
NE/4 Sec.07-22S-16W
Pawnee County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Chris Gottschalk