

1218693

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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. <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	Reif Trust 2-23
Doc ID	1218693

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2117 Canal Blvd,
Hays Ks, 67601

ATTN: Jeremy Schwartz

Reif Trust #2-23

23/18s/14w/Barton

Start Date: 2014.07.11 @ 19:05:00

End Date: 2014.07.12 @ 00:39:00

Job Ticket #: 18596 DST #: 1

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

Printed: 2014.07.12 @ 01:59:55



DRILL STEM TEST REPORT

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,
Hays Ks. 67601

Reif Trust #2-23

Job Ticket: 18596

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2014.07.11 @ 19:05:00

GENERAL INFORMATION:

Formation: **Lansing "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:22:00

Time Test Ended: 00:39:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/25/Great Bend

Interval: **3166.00 ft (KB) To 3230.00 ft (KB) (TVD)**

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3230.00 ft (KB) (TVD)

1900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: **8524** Inside

Press@RunDepth: 62.00 psig @ 3225.41 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.07.11

End Date:

2014.07.12

Last Calib.:

2014.07.12

Start Time: 19:05:00

End Time:

00:39:00

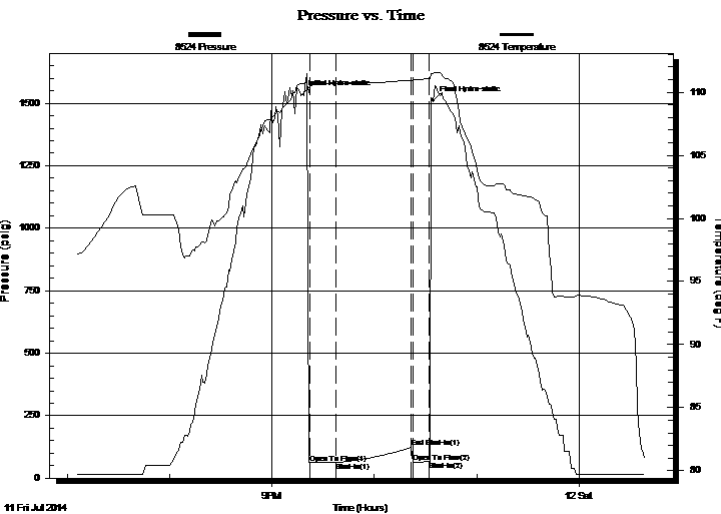
Time On Btm:

2014.07.11 @ 21:17:30

Time Off Btm:

2014.07.11 @ 22:34:30

TEST COMMENT: 1st Open/ 15 Minutes. Weak surface blow.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 10 Minutes. No blow, flushed tool had good flush bubbles and gained no blow. Pulled tool per Geo.
 2nd Shut In/ N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1533.39	110.69	Initial Hydro-static
5	61.10	110.50	Open To Flow (1)
20	62.00	110.66	Shut-In(1)
65	123.69	110.96	End Shut-In(1)
65	63.41	110.95	Open To Flow (2)
75	65.97	111.06	Shut-In(2)
77	1508.48	111.50	Final Hydro-static

Recovery

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

Gas Rates

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



DRILL STEM TEST REPORT

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,
Hays Ks. 67601

Reif Trust #2-23

Job Ticket: 18596

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2014.07.11 @ 19:05:00

GENERAL INFORMATION:

Formation: **Lansing "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:22:00

Time Test Ended: 00:39:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/25/Great Bend

Interval: **3166.00 ft (KB) To 3230.00 ft (KB) (TVD)**

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3230.00 ft (KB) (TVD)

1900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: **8159** Outside

Press@RunDepth: 123.79 psig @ 3226.41 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.07.11

End Date:

2014.07.12

Last Calib.:

2014.07.12

Start Time: 19:05:00

End Time:

00:40:30

Time On Btm:

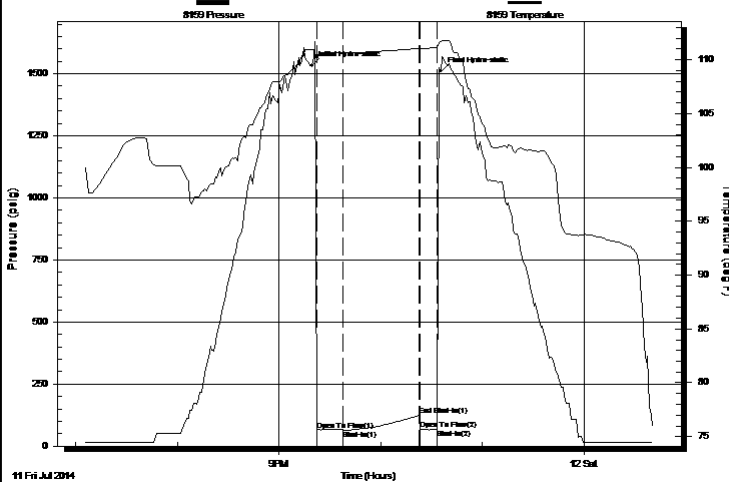
2014.07.11 @ 21:19:30

Time Off Btm:

2014.07.11 @ 22:35:30

TEST COMMENT: 1st Open/ 15 Minutes. Weak surface blow.
1st Shut In/ 45 Minutes. No blow back.
2nd Open/ 10 Minutes. No blow, flushed tool had good flush bubbles and gained no blow. Pulled tool per Geo.
2nd Shut In/ N/A

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1532.97	110.94	Initial Hydro-static
3	61.97	110.02	Open To Flow (1)
18	65.84	110.63	Shut-In(1)
63	123.79	111.03	End Shut-In(1)
64	66.39	111.03	Open To Flow (2)
74	68.17	111.13	Shut-In(2)
76	1508.96	111.69	Final Hydro-static

Recovery

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

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,
Hays Ks. 67601

Reif Trust #2-23

Job Ticket: 18596

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2014.07.11 @ 19:05:00

Tool Information

Drill Pipe:	Length: 2932.00 ft	Diameter: 3.80 inches	Volume: 41.13 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: 218.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 42.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	3166.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.41 ft			
Tool Length:	91.41 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3143.00	
Hydraulic tool	5.00			3148.00	
Jars	6.00			3154.00	
Safety Joint	2.00			3156.00	
Packer	5.00			3161.00	28.00 Bottom Of Top Packer
Packer	5.00			3166.00	
Anchor	5.00			3171.00	
Change Over Sub	0.75			3171.75	
Drill Pipe	31.91			3203.66	
Drill Pipe	0.00			3203.66	
Change Over Sub	0.75			3204.41	
Anchor	20.00			3224.41	
Recorder	1.00	8524	Inside	3225.41	
Recorder	1.00	8159	Outside	3226.41	
Bullk Plug	3.00			3229.41	63.41 Bottom Packers & Anchor

Total Tool Length: 91.41



DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,
Hays Ks. 67601

Reif Trust #2-23

Job Ticket: 18596

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2014.07.11 @ 19:05:00

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: 50.00 sec/qt

Cushion Volume: bbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

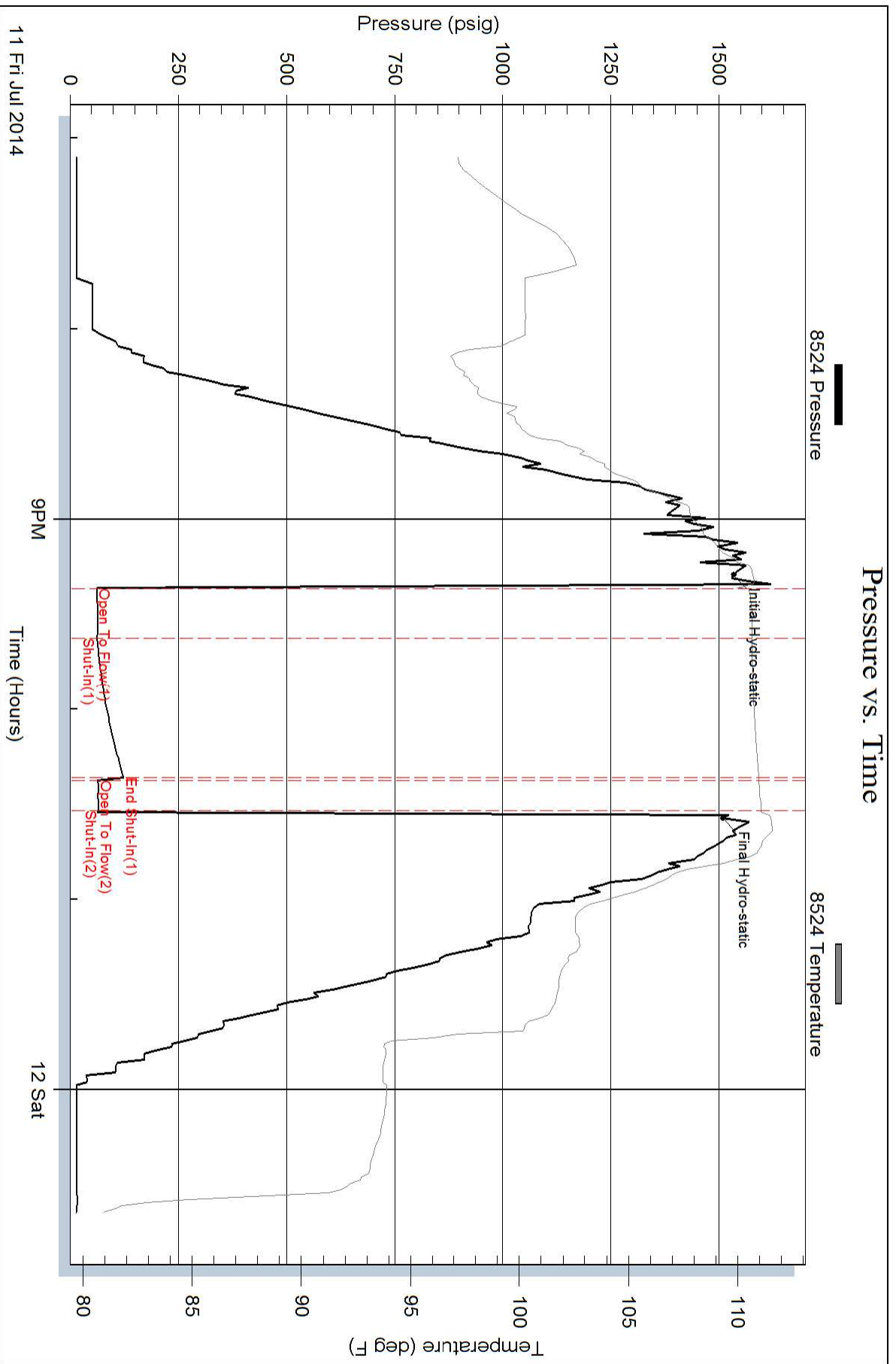
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2117 Canal Blvd,
Hays Ks, 67601

ATTN: Jeremy Schwartz

Reif Trust #2-23

23/18s/14w/Barton

Start Date: 2014.07.13 @ 08:10:00

End Date: 2014.07.13 @ 12:59:00

Job Ticket #: 18597 DST #: 2

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

Printed: 2014.07.13 @ 14:29:07



DRILL STEM TEST REPORT

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,
Hays Ks. 67601

Reif Trust #2-23

Job Ticket: 18597

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.13 @ 08:10:00

GENERAL INFORMATION:

Formation: **Kansas City "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:50:30

Time Test Ended: 12:59:00

Test Type: Conventional Straddle (Initial)

Tester: Shane Konzem

Unit No: 3330/25/Great Bend

Interval: **3286.00 ft (KB) To 3326.00 ft (KB) (TVD)**

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3530.00 ft (KB) (TVD)

1900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 8159

Inside

Press@RunDepth: 48.13 psig @ 3316.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.07.13

End Date: 2014.07.13

Last Calib.: 2014.07.13

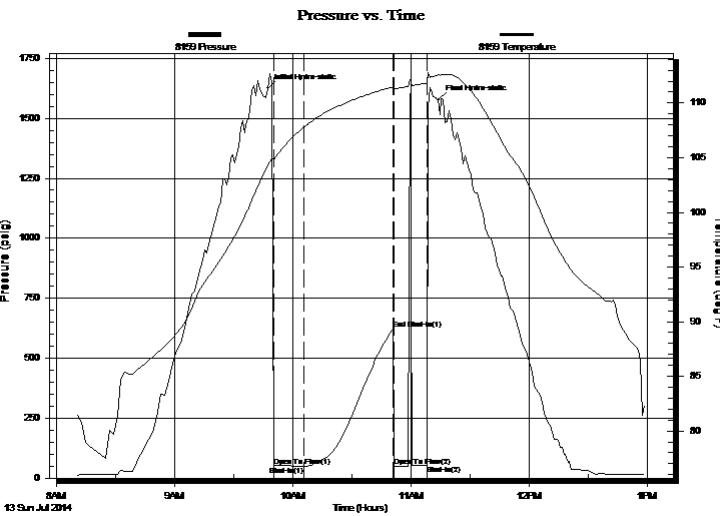
Start Time: 08:10:00

End Time: 12:59:00

Time On Btm: 2014.07.13 @ 09:47:30

Time Off Btm: 2014.07.13 @ 11:14:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak surface blow.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 15 Minutes. No blow, flushed tool had good flush bubbles. Gained no blow, pulled test per Geo.
 2nd Shut In/ N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.09	104.28	Initial Hydro-static
3	47.99	104.81	Open To Flow (1)
18	48.13	107.78	Shut-In(1)
64	622.58	111.45	End Shut-In(1)
64	49.35	111.30	Open To Flow (2)
81	54.42	111.82	Shut-In(2)
87	1576.96	112.57	Final Hydro-static

Recovery

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

Gas Rates

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



DRILL STEM TEST REPORT

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,
Hays Ks. 67601

Reif Trust #2-23

Job Ticket: 18597

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.13 @ 08:10:00

GENERAL INFORMATION:

Formation: **Kansas City "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:50:30

Time Test Ended: 12:59:00

Test Type: Conventional Straddle (Initial)

Tester: Shane Konzem

Unit No: 3330/25/Great Bend

Interval: **3286.00 ft (KB) To 3326.00 ft (KB) (TVD)**

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3530.00 ft (KB) (TVD)

1900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: **6806** Outside

Press@RunDepth: 607.01 psig @ 3317.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.07.13

End Date: 2014.07.13

Last Calib.: 2014.07.13

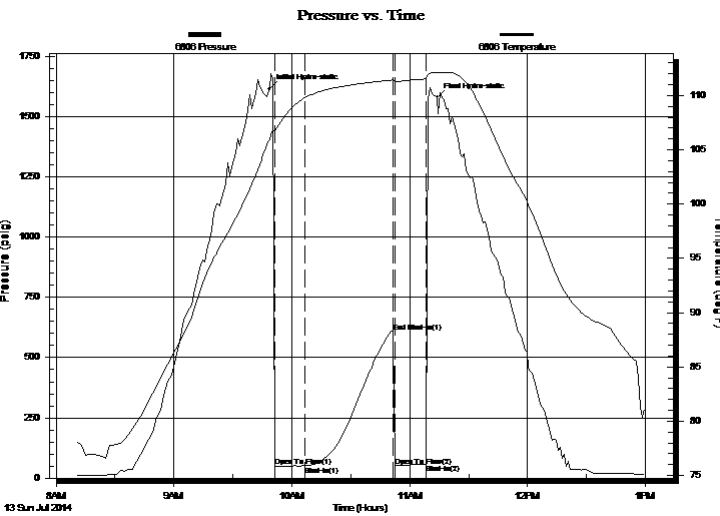
Start Time: 08:10:00

End Time: 13:00:00

Time On Btm: 2014.07.13 @ 09:48:30

Time Off Btm: 2014.07.13 @ 11:14:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak surface blow.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 15 Minutes. No blow, flushed tool had good flush bubbles. Gained no blow, pulled test per Geo.
 2nd Shut In/ N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1614.28	105.97	Initial Hydro-static
3	47.91	106.71	Open To Flow (1)
18	50.79	109.77	Shut-In(1)
63	607.01	111.43	End Shut-In(1)
64	50.78	111.30	Open To Flow (2)
80	57.17	111.54	Shut-In(2)
86	1579.54	112.10	Final Hydro-static

Recovery

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

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,
Hays Ks. 67601

Reif Trust #2-23

Job Ticket: 18597

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.13 @ 08:10:00

Tool Information

Drill Pipe:	Length: 3049.00 ft	Diameter: 3.80 inches	Volume: 42.77 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: 218.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 43.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	3286.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	3317.75 ft			
Interval between Packers:	31.75 ft			
Tool Length:	267.49 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3263.00		
Hydraulic tool	5.00			3268.00		
Jars	6.00			3274.00		
Safety Joint	2.00			3276.00		
Packer	5.00			3281.00	28.00	Bottom Of Top Packer
Packer	5.00			3286.00		
Anchor	29.00		Outside	3315.00		
Recorder	1.00	8159	Inside	3316.00		
Recorder	1.00	6806	Outside	3317.00		
Blank Off Sub	0.75			3317.75	31.75	Tool Interval
Packer	5.00			3322.75		
Perforations	6.00			3328.75		
Change Over Sub	0.75			3329.50		
Drill Pipe	191.24			3520.74		
Change Over Sub	0.75		Below	3521.49		
Recorder	1.00	8524	Below	3522.49		
Bullnose	3.00			3525.49	207.74	Bottom Packers & Anchor
Total Tool Length:	267.49					



DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,
Hays Ks. 67601

Reif Trust #2-23

Job Ticket: 18597

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.13 @ 08:10:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 11.18 in³
Resistivity: ohm.m
Salinity: 6800.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

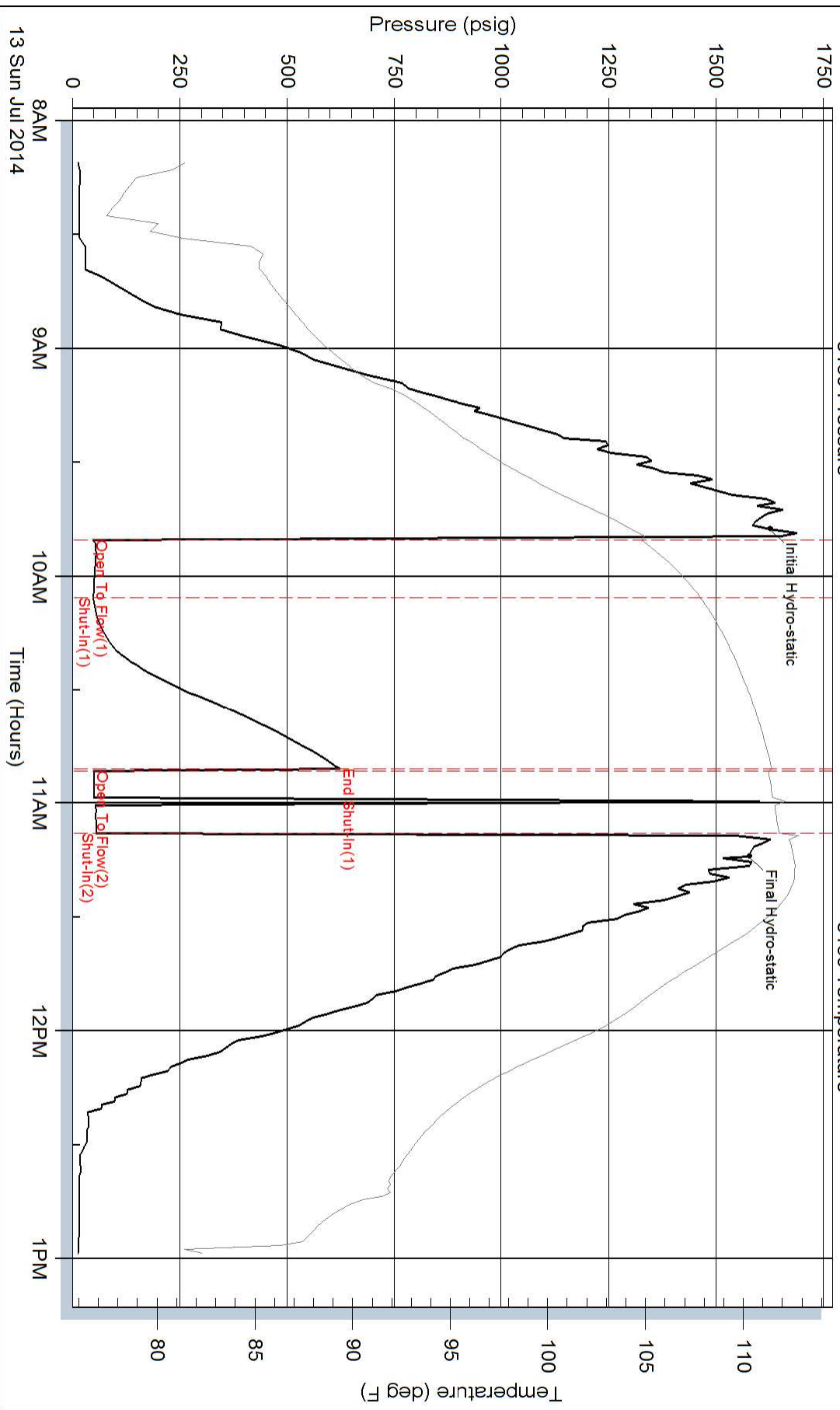
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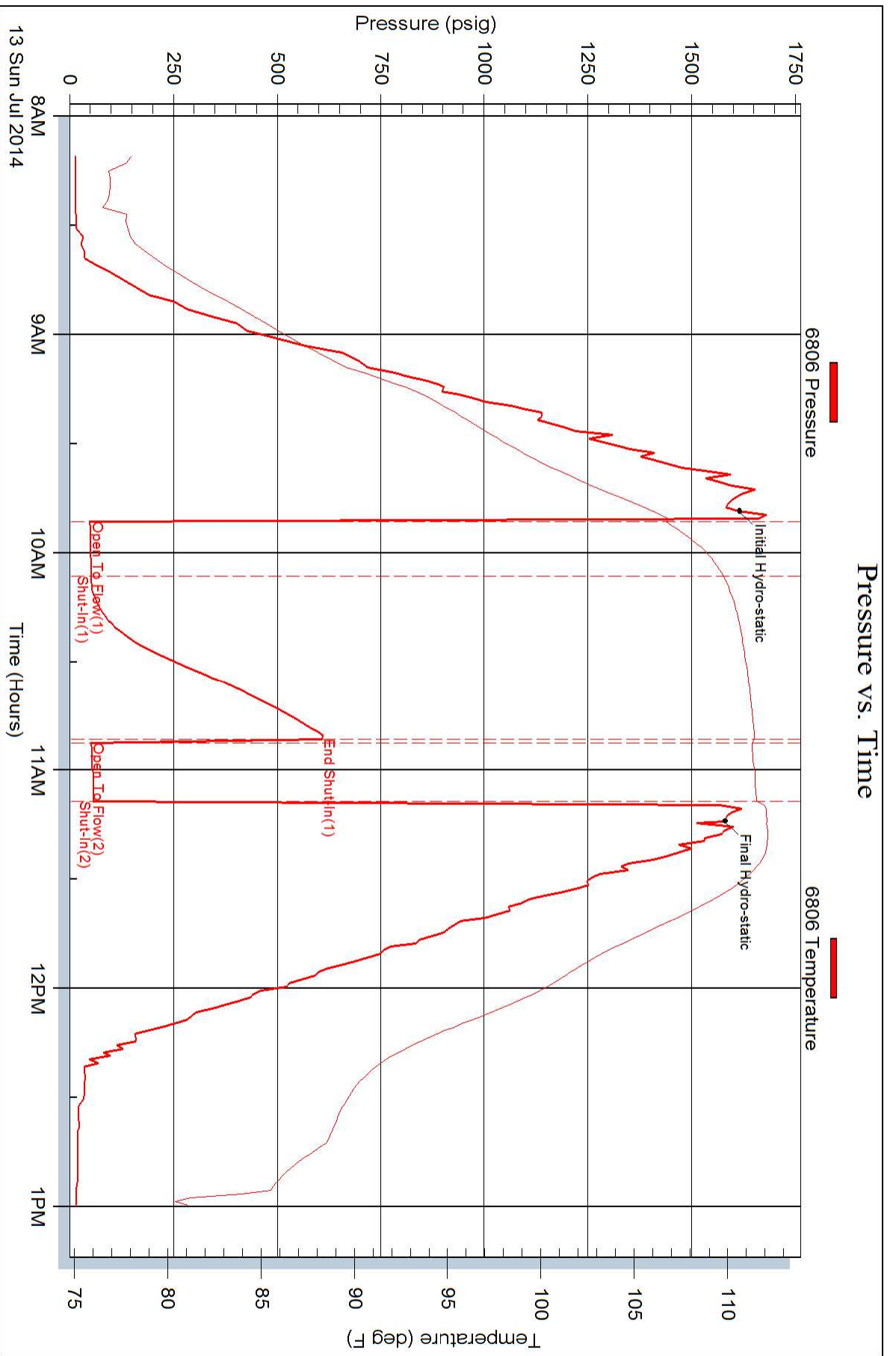
Laboratory Name:

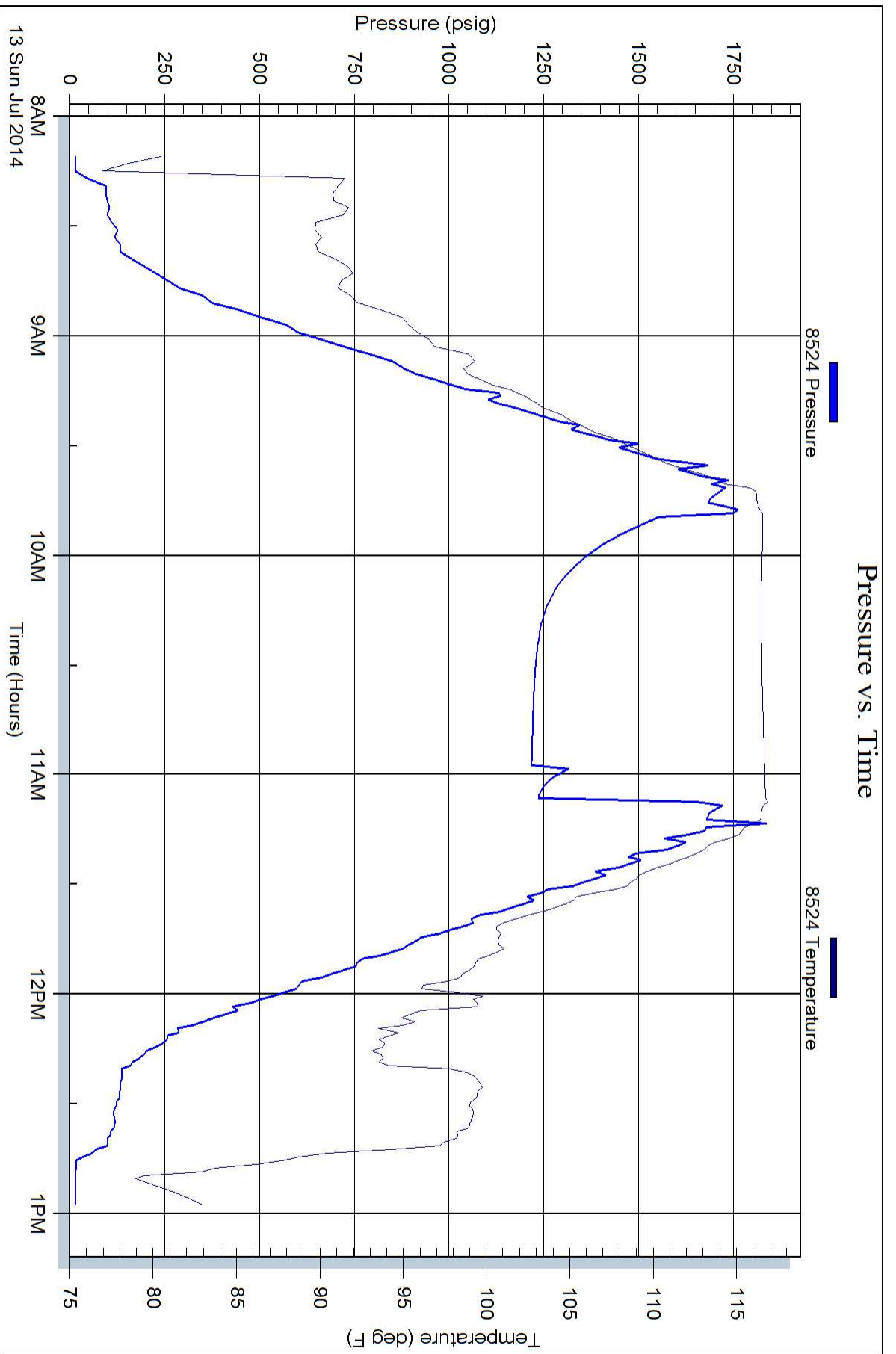
Laboratory Location:

Recovery Comments:

Pressure vs. Time









Scale 1:240 Imperial

Well Name: Reif Trust #2-23
 Surface Location: 940' FSL_509' FWL Sec 23-18S-14W
 Bottom Location:
 API: 15-009-25998-00-00
 License Number:
 Spud Date: 7/7/2014 Time: 3:15 PM
 Region: Barton County
 Drilling Completed: 7/13/2014 Time: 6:00 AM
 Surface Coordinates: Y = 655310 & X = 1900812
 Bottom Hole Coordinates:
 Ground Elevation: 1900.00ft
 K.B. Elevation: 1909.00ft
 Logged Interval: 2800.00ft To: 3530.00ft
 Total Depth: 3530.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Shelby Resources, LLC
 Address: 445 Union Blvd, Suite 208
 Lakewood, CO 80228
 Contact Geologist: Janine Sturdavant
 Contact Phone Nbr: 303-907-2209 / 720-274-4682
 Well Name: Reif Trust #2-23
 Location: 940' FSL_509' FWL Sec 23-18S-14W API: 15-009-25998-00-00
 Pool: Field: Wildcat
 State: Kansas Country: USA

LOGGED BY



Company: Shelby Resources, LLC
 Address: 445 UNION BLVD. Suite 208
 LAKEWOOD, CO. 80228
 Phone Nbr: 203-671-6034
 Logged By: Geologist Name: Jeremy Schwartz

NOTES

The Shelby Resources, LLC Reif Trust #2-23 was drilled to a total depth of 3530', bottoming in the Arbuckle. A TookeDag gas detector was employed in the drilling of said well.

2 DST's were conducted throughout the Lansing Kansas-City and Arbuckle Zones. The DST reports can be found at the bottom of this log.

Due to the DST results, sample shows, gas kicks, and log analysis it was determined by all parties involved to plug and abandon the well. The dry samples were saved and will be available for further review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted,
Jeremy Schwartz
Geologist

SURFACE CO-ORDINATES

Well Type: Vertical

Longitude: N/S Co-ord: Y = 655310
 E/W Co-ord: X = 1900812

Latitude:

CONTRACTOR

Contractor: Sterling Drilling Co
 Rig #: 4
 Rig Type: mud rotary
 Spud Date: 7/7/2014
 TD Date: 7/13/2014
 Rig Release:
 Time: 3:15 PM
 Time: 6:00 AM
 Time:

ELEVATIONS

K.B. Elevation: 1909.00ft
 K.B. to Ground: 9.00ft
 Ground Elevation: 1900.00ft

DATE	DEPTH	ACTIVITY
Friday, July 11, 2014	2950'	Geologist Jeremy Schwartz on location @ 0005hrs, DRLG ahead through Topeka, Heebner, Toronto, Douglas Shale, Brown Lime, CFS @ 3167', Conduct Short Trip,
	3167'	Resume DRLG ahead through LKC, CFS @ 3224', Resume DRLG, CFS @ 3230'
		Conduct DST #1 in LKC "A-D"
Saturday, July 12, 2014	3230'	Successful Test, Resume DRLG ahead through LKC, CFS @ 3250', Resume DRLG
	3404'	ahead through LKC "G", Muncie Creek, CFS @ 3386', Resume DRLG, CFS @ 3404',
	3412'	Resume DRLG, CFS @ 3412', CFS @ 3425', CFS @ 3448', DRLG ahead to TD @ 3530
	3530	TD Reached @ 2305hrs, CTCH 1hour
Sunday, July 13, 2014	3530	Conduct Logging Operations, Logging Operations complete @ 0600hrs,
		Conduct Straddle Test in Lansing "H", Successful Test
		Geologist Jeremy Schwartz off location @ 1300hrs

CLIENT:	SHELBY RESOURCES, LLC
WELL NAME:	REIF TRUST #2-23
LEGAL:	E/2 NW SW SW 23-18S-14W
COUNTY:	BARTON
API:	15-009-25998-00-00
DRLG CONTRACTOR:	STERLING DRILLING CO.
RIG #:	4
DOGHOUSE #:	620-388-4192
TOOLPUSHER:	LANNY SALOGA
CELL #:	620-388-4193








		SHELBY RESOURCES, LLC				L.D. DRILLING				ALPINE OIL & ROYALTY CO												
		REIF TRUST #1-23				LORETTA POLZIN TRUST #1-22				BRACK #1												
		NE SE NW SW 23-18S-14W				SE SW NE SW 22-18S-14W				C SE NE 23-18S-14W												
		1909		1914		1916		1900														
		LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.						
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.						
ANHYDRITE TOP	839	1070	842	1067	842	1072	-	2	-	5	856	1060	+	10	+	7	830	1070	+	0	-	3
BASE	872	1037	872	1037	870	1044	-	7	-	7	882	1034	+	3	+	3	860	1040	-	3	-	3
TOPEKA	2864	-955	2864	-955	2860	-946	-	9	-	9	2878	-962	+	7	+	7	2852	-952	-	3	-	3
HEEBNER SHALE	3080	-1171	3080	-1171	3076	-1162	-	9	-	9	3092	-1176	+	5	+	5	3074	-1174	+	3	+	3
TORONTO	3095	-1186	3095	-1186	3091	-1177	-	9	-	9	3100	-1184	-	2	-	2	3085	-1185	-	1	-	1
DOUGLAS SHALE	3110	-1201	3110	-1201	3106	-1192	-	9	-	9	3114	-1198	-	3	-	3	3100	-1200	-	1	-	1
BROWN LIME	3164	-1255	3164	-1255	3159	-1245	-	10	-	10	3167	-1251	-	4	-	4	3157	-1257	+	2	+	2
LKC	3176	-1267	3175	-1266	3168	-1254	-	13	-	12	3176	-1260	-	7	-	6	3165	-1265	-	2	-	1
LKC G	3262	-1353	3260	-1351	3251	-1337	-	16	-	14	3249	-1333	-	20	-	18	3236	-1336	-	17	-	15
MUNCIE CREEK	3300	-1391	3300	-1391	3294	-1380	-	11	-	11	3307	-1391	+	0	+	0	3290	-1390	-	1	-	1
LKC H	3304	-1395	3304	-1395	3298	-1384	-	11	-	11	3313	-1397	+	2	+	2	3298	-1398	+	3	+	3
STARK SHALE	3354	-1445	3355	-1446	3348	-1434	-	11	-	12	3363	-1447	+	2	+	1	3348	-1448	+	3	+	2
BKC	3380	-1471	3380	-1471	3372	-1458	-	13	-	13	3390	-1474	+	3	+	3	3376	-1476	+	5	+	5
CONGLOMERATE	3390	-1481	3390	-1481	3386	-1472	-	9	-	9	3395	-1479	-	2	-	2	3389	-1489	+	8	+	8
ARBUCKLE	3438	-1529	3437	-1528	3400	-1486	-	43	-	42	3424	-1508	-	21	-	20	3431	-1531	+	2	+	3
RTD			3530	-1621	3500	-1586	-		-	35	3550	-1634			+	13	3435	-1535				86
LTD	3531	-1622			3500	-1586	-	36			3549	-1633	+	11								

PROGNOSIS		
ANHYDRITE TOP	839	1070
HEEBNER SHALE	3073	-1164
LANSING	3165	-1256
BKC	3367	-1458
ARBUCKLE	3395	-1486
RTD	3500	-1591








TESTED	TESTED	TESTED
DST #1 (3166-3240) LKC "A-F" 15-45-45-90 Weak Blow built to 3' Weak Blow built 1" from BOB 300' MW (90%W, 10%M) 30" M w/trace oil SIP: 1024-1006	DST #1 (3174-3255) LKC "A-G" 30-45-45-60 Weak Surface Blow built to 7' Good Strong blow BOB 45' 185' GIP 155'WGOCM (71%M, 12%O, 10%G, 7%W) SIP: 870-865	DST #1 (3180 - 3240) LKC GTS 31MIN 1000' CO, 400'MO, 40'GCM BHP: 1055-685#/30' DST #2 (3294 - 3340) 60' GIP, 60' GCW w/spots oil, 300'WTR BHP: 1155-1060#/30'
DST #2 (3371-3411) Ar buckle 15-45-60-90 Strong Blow BOB 9.5'	DST #2 (3302-3376) LKC "H-K" 30-30-30-30 Blow Built to 2'	

<p>Strong Blow BOB 10.5'</p> <p>330' GCO (90%O, 10%G)</p> <p>390' GCO (90%O, 10%G)</p> <p>SIP: 1069-1059</p> <p>DST #3 (3413-3419) Arbuckle</p> <p>15-45-60-90</p> <p>Strong Blow BOB 5'</p> <p>BB 1'</p> <p>Strong blow BOB 6.5'</p> <p>BB 2'</p> <p>900' GO (85%O, 15%G)</p> <p>SIP: 1069-1029</p> <p>DST #4 (3420-3428) -1506 Arbuckle</p> <p>15-30-30-45</p> <p>Strong Blow BOB 1.5'</p> <p>Strong Blow BOB 2'</p> <p>1680' WTR</p> <p>SIP: 1126-1145</p>	<p>Blow Built to 2.5'</p> <p>5' GSOCM (89%M, 9%O, 2%G)</p> <p>SIP: 92-94</p> <p>DST #3 (3374-3436) Arbuckle</p> <p>30-45-45-60</p> <p>Strong Blow BOB 1'</p> <p>4.5"BB</p> <p>Strong Blow BOB 1' 45"</p> <p>310' GIP, 1745' GO (98%O, 2%G)</p> <p>275' WGM O (90%Emulsified Oil)</p> <p>SIP: 1019-1008</p>
<i>INFO</i>	<i>INFO</i>
PERF 3400-3403 (Arbuckle)	PERF 3236 - 3240 (LKC) IP: 22BOPD, NW




















ROCK TYPES

 Congl	 Lmst fw<7	 shale, gry	 shale, red
 Dolprim	 shale, grn	 Carbon Sh	

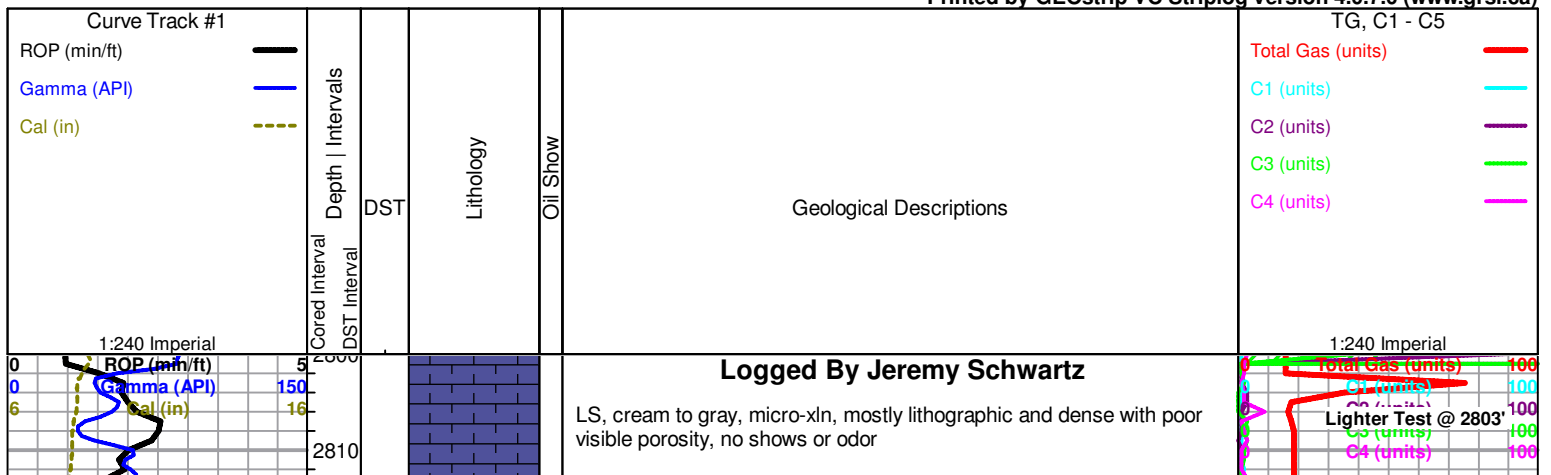
ACCESSORIES

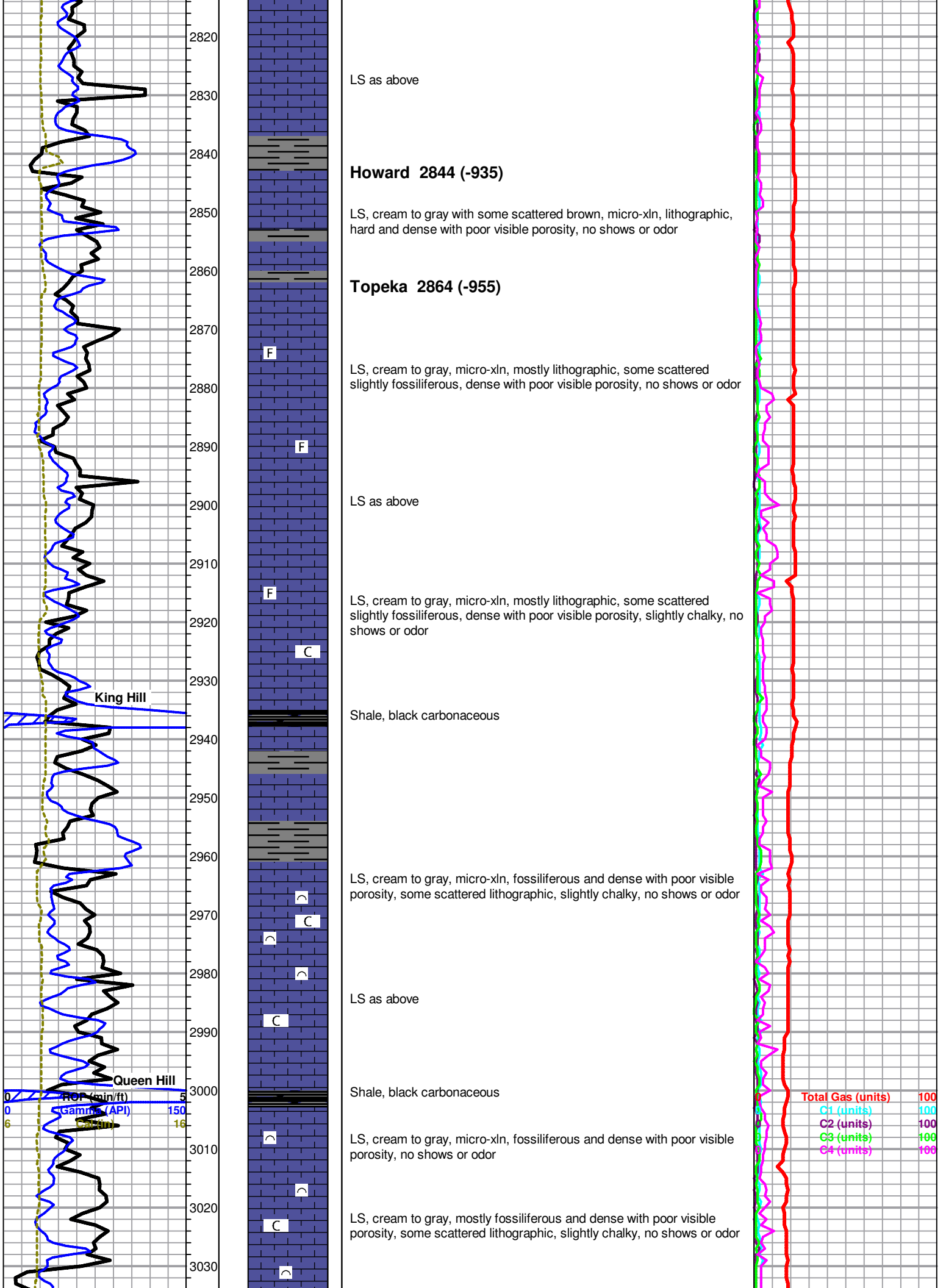
MINERAL	FOSSIL	STRINGER	TEXTURE
 Varicolored chert	 Bioclastic or Fragmental	 Chert	 Chalky
	 Fossils < 20%	 Shale	
		 red shale	

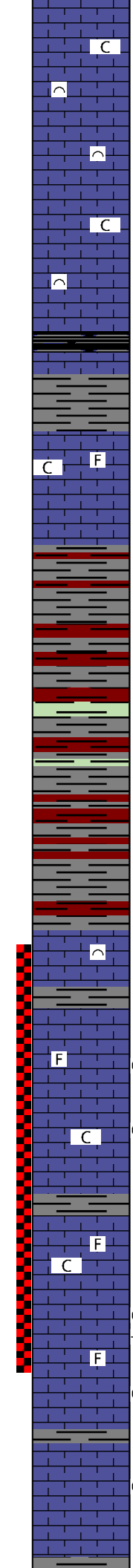
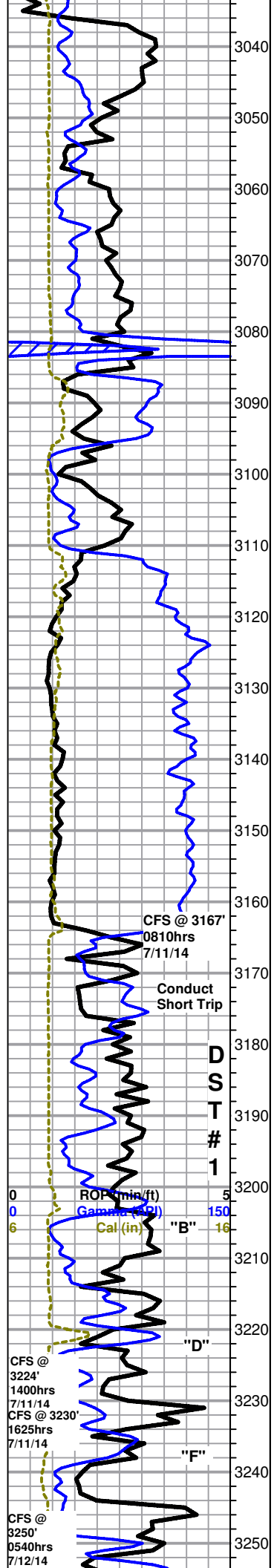
OTHER SYMBOLS

MISC	Oil Show	DST
 Daily Report	 Good Show	 DST Int
 Digital Photo	 Fair Show 50-75	 DST alt
 Document	 Poor Show 25-50	
 Folder	 Spotted or Trace 1-25	
 Link	 Questionable Stn	
 Vertical Log File	 Dead Oil Stn	
 Horizontal Log File	 Fluorescence	
 Core Log File	 Gas	
 Drill Cuttings Rpt		

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)







LS as above, few scattered chips sub-oomoldic to oomoldic, slightly chalky, barren

LS, cream, micro-xln, fossiliferous and dense with poor visible porosity, some scattered soft and chalky, slightly chalky sample, no shows or odor

LS, cream with some scattered gray and white, micro-xln, fossiliferous and dense with poor visible porosity, some scattered soft and chalky, also with some scattered oomoldic, barren, no odor

Heebner 3080 (-1171)

LS, cream to off-white, micro-xln, some fossiliferous, some lithographic, some scattered oomoldic, mostly dense with poor visible porosity, slightly chalky, no shows or odor

Douglas Shale 3110 (-1201)

Shale, gray and red, soft and waxy

Shale as above with some very scattered green, trace silty

Shale, red and gray, soft and waxy

Brown Lime 3164 (-1255)

LS, brown, micro-xln, fossiliferous, hard and dense with no visible porosity, no shows or odor

LKC 3175 (-1266)

ReifTrust#2-23DST#1.jpg

LS, cream with some very scattered gray, micro-xln, some slightly fossiliferous, some lithographic, mostly dense with poor visible porosity, some very scattered (~5%) with poor to fair scattered pinpoint porosity and black stain in porosity only, SSFO in tray, fair fleeting odor in wet cup

As above, with less shows (<5%), NSFO, slightly chalky, poor odor

LS, cream to off-white, micro-xln, mostly lithographic, some scattered fossiliferous, overall poor visible porosity, no shows or odor

LS as above, some scattered soft and chalky, slightly chalky sample, no shows or odor

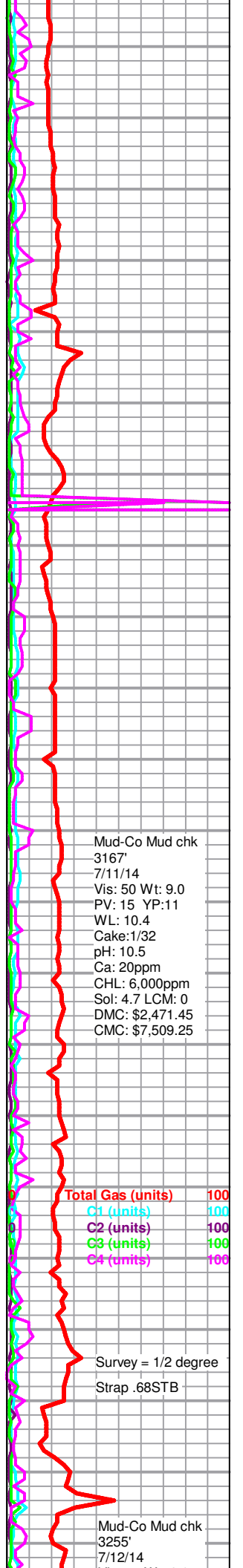
3224' 30" LS, cream, micro-xln, mostly lithographic, some scattered fossiliferous, dense with poor visible porosity, few very scattered chips (~5%) soft and chalky in part with scattered poor to fair visible pinpoint porosity with black stain in porosity only, upon break chips have slight to fair show free oil, slight show gas bubbles in porosity, NSFO in tray, poor odor

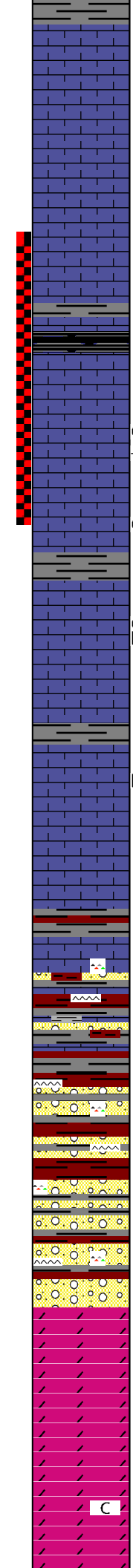
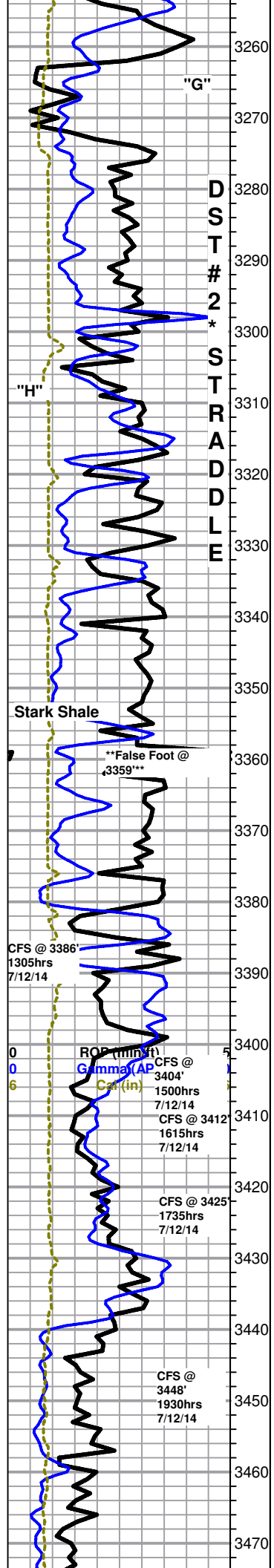
3224' 60" Mostly same as above with increase in shows (~15%), few chips slowly bleeding oil and gas bubbles under lamp, SSFO in tray, poor odor

3230' 30" LS, cream, micro-xln, some lithographic, some fossiliferous, mostly dense with poor visible porosity, some very scattered chips with scattered pinpoint porosity and black stain in porosity only, NSFO, poor odor

3230' 60" Mostly same as above, shows <5% of sample, NSFO, no odor

~3240' LS, cream to gray, micro-xln, some fossiliferous, some lithographic, mostly poor visible porosity, few chips (<5%) with one to two small vugs and black stain inside vugs, NSFO, no odor





3250' 20" LS, cream with some scattered gray, mostly lithographic, some fossiliferous, mostly dense with poor visible porosity, few chips (<5%) with one to two very small edge vugs and poor black stain in vugs only, trace oolitic with very scattered brown inter-oolite stain, NSFO, no odor

3250' 40" mostly same as above, SSFO slowly bleeding from one chip under lamp, NSFO in tray, very poor odor

~3270' LS, cream, micro-xln, mostly lithographic with poor visible porosity, some sub-oomoldic to oomoldic with poor visible porosity, some scattered soft and chalky in part, slightly chalky sample, no shows or odor

LS, cream, micro-xln, lithographic and dense with poor visible porosity, some very scattered sub-oomoldic to oomoldic, no shows or odor

LS, cream to gray with some scattered brown, micro-xln, lithographic and dense with poor visible porosity, some scattered sub-oomoldic to oomoldic, barren, no shows or odor

Muncie Creek 3300 (-1391)

Shale, black carbonaceous

ReifTrust#2-23DST#2.jpg

LS, cream to gray with some scattered brown, micro-xln, lithographic and dense with poor visible porosity, no shows or odor

LS, cream, micro-xln, cream to gray, mostly lithographic and barren, some very scattered (~5-10%) sub-oomoldic to oomoldic with poor to fair visible porosity, mostly barren, few chips with fair show gas bubbles in oomolds and very scattered light brown stain mostly in porosity but partly in matrix in few chips, VSSFO, fair fleeting odor

LS, cream with some scattered brown, micro-xln, mostly lithographic and dense with poor visible porosity, few chips (<5%) with one to two small edge vugs and light brown to brown stain in vugs only, trace oolitic, NSFO, poor odor

LS, cream to white, micro-xln, mostly lithographic and dense with poor visible porosity, some soft and chalky in part, few very scattered chips with one to two small vugs with black to dead black stain in vugs only, slightly chalky, poor odor

LS, cream to gray with some scattered off-white, mostly lithographic, some slightly fossiliferous, mostly dense with poor visible porosity, no shows or odor

As above, few chips with very scattered black to dead black stain, no odor

LS, cream to light gray with some off-white, mostly lithographic and dense with poor visible porosity, no shows or odor

LS, cream to off-white with some scattered white, mostly lithographic and dense with poor visible porosity, slightly chalky, no shows or odor

BKC 3380 (-1471)

3386' 30" LS, cream, micro-crypto xln, lithographic with poor visible porosity, also with some red and gray shale, no shows or odor

3386' 60" Mostly same as above, no shows or odor

LS, cream, micro-crypto xln, mostly lithographic and dense with poor visible porosity, with some scattered gray and red shale and very scattered orange to red chert, no shows or odor

3404' 30" LS, cream to white, micro-xln, mostly lithographic and dense with poor visible porosity, with some scattered red and gray shale and very scattered orange to red chert, trace oolitic, very slight red wash, no shows or odor

3404' 45" Mixed LS, shales, and cherts, trace pyrite and sub-rounded to rounded quartz grains, red wash, no shows or odor

3412' 30" Conglomerate as above, slight red wash, no shows or odor

3412' 45" Mixed LS, shales, and cherts, slight red wash, no shows or odor

3425' 30" Conglomerate, very slight red wash, no shows or odor

3425' 45" Conglomerate as above, very slight red wash, no shows or odor

Arbuckle 3437 (-1528)

Conglomerate, with trace dolomite, white, sub-sucrosic, barren, no shows or odor

3448' 30" Dolomite, white, micro-xln, mostly sub-sucrosic and dense with poor visible porosity, some scattered chips friable, poorly developed, barren, no odor

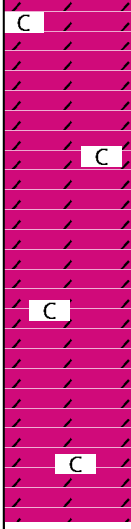
3448' 60" Dolomite as above, no shows or odor

Dolomite, white, micro-xln, sub-sucrosic and dense with poor visible porosity, some scattered chips fairly friable, barren, slightly chalky, no odor

Vis: 41 Wt: 9.0
 PV: 10 YP:11
 WL: 12.0
 Cake:1/32
 pH: 10.5
 Ca: 20ppm
 CHL: 7,400ppm
 Sol: 4.6 LCM: 0
 DMC: \$51.70
 CMC: \$7,560.95

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

3480
3490
3500
3510
3520
3530
3540



Dolomite as above, no shows or odor

Dolomite, white, micro-xln, sub-sucrosic and dense with poor visible porosity, some scattered with poor sub-rhombic development, slightly chalky, no shows or odor

Dolomite as above, with slight increase in sub-rhombic development, no shows or odor

As above, no shows or odor

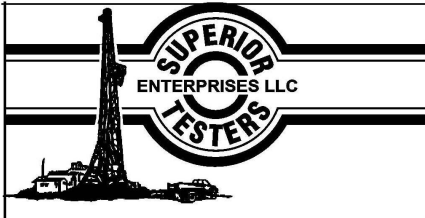
Dolomite, white, micro-xln, sub-sucrosic and dense with poor visible porosity, some scattered poor sub-rhombic development, slightly chalky, no shows or odor

Dolomite as above, slightly chalky, no shows or odor

Mud-Co Mud chk
3530'
7/13/14
Vis: 51 Wt: 9.1
PV: 14 YP:11
WL: 11.2
Cake:1/32
pH: 9.5
Ca: 20ppm
CHL: 6,800ppm
Sol: 5.4 LCM: 0
DMC: \$951.45
CMC: \$8,512.40

Survey = 1/4 Degree

Rotary TD 3530' @ 2305hrs 7/13/14
Nabors Well Services Logging TD @ 3531'
Complete Logging Operations @ 0600hrs 7/13/14
Geologist Jeremy Schwartz off location @ 1300hrs 7/13/14



DRILL STEM TEST REPORT

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,
Hays Ks, 67601

Reif Trust #2-23

Job Ticket: 18596

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2014.07.11 @ 19:05:00

GENERAL INFORMATION:

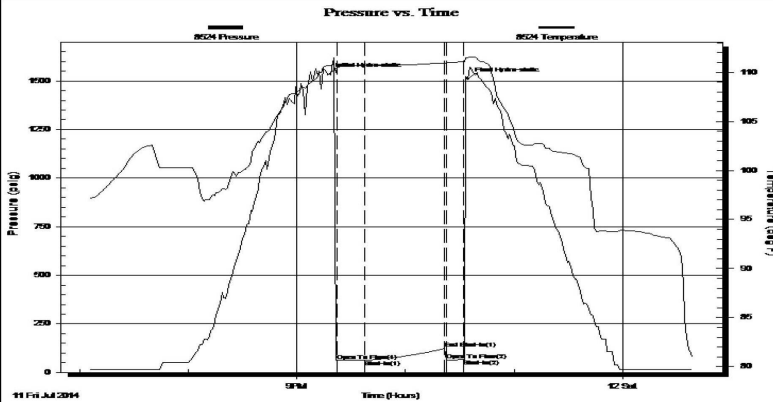
Formation: **Lansing "A-D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:22:00
 Time Test Ended: 00:39:00
 Interval: **3166.00 ft (KB) To 3230.00 ft (KB) (TVD)**
 Total Depth: 3230.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Shane Konzem
 Unit No: 3330/25/Great Bend
 Reference Elevations: 1909.00 ft (KB)
 1900.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8524

Inside

Press@RunDepth: 62.00 psig @ 3225.41 ft (KB)
 Start Date: 2014.07.11 End Date: 2014.07.12
 Start Time: 19:05:00 End Time: 00:39:00
 Capacity: 5000.00 psig
 Last Calib.: 2014.07.12
 Time On Btm: 2014.07.11 @ 21:17:30
 Time Off Btm: 2014.07.11 @ 22:34:30

TEST COMMENT: 1st Open/ 15 Minutes. Weak surface blow.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 10 Minutes. No blow, flushed tool had good flush bubbles and gained no blow. Pulled tool per Geo.
 2nd Shut In/ N/A



PRESSURE SUMMARY

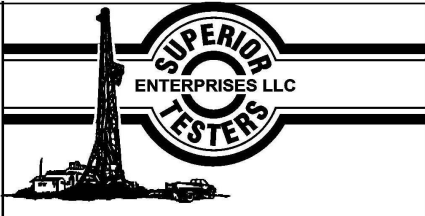
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1533.39	110.69	Initial Hydro-static
5	61.10	110.50	Open To Flow (1)
20	62.00	110.66	Shut-In(1)
65	123.69	110.96	End Shut-In(1)
65	63.41	110.95	Open To Flow (2)
75	65.97	111.06	Shut-In(2)
77	1508.48	111.50	Final Hydro-static

Recovery

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

Gas Rates

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



DRILL STEM TEST REPORT

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,
Hays Ks, 67601

Reif Trust #2-23

Job Ticket: 18597

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.13 @ 08:10:00

GENERAL INFORMATION:

Formation: **Kansas City "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:50:30
 Time Test Ended: 12:59:00
 Interval: **3286.00 ft (KB) To 3326.00 ft (KB) (TVD)**
 Total Depth: 3530.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor

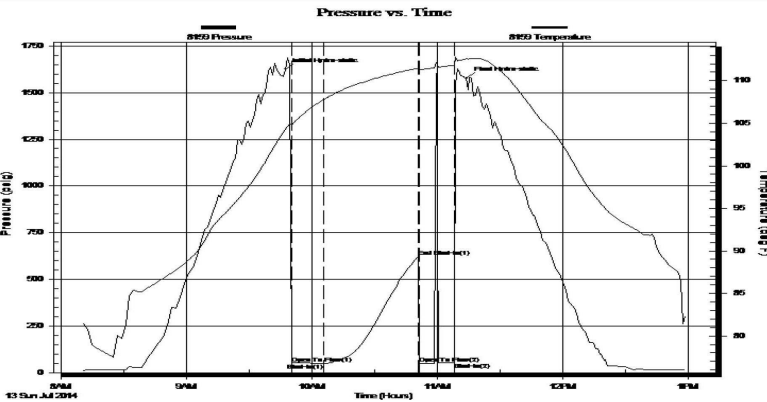
Test Type: Conventional Straddle (Initial)
 Tester: Shane Konzem
 Unit No: 3330/25/Great Bend
 Reference Elevations: 1909.00 ft (KB)
 1900.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8159

Inside

Press@RunDepth: 48.13 psig @ 3316.00 ft (KB)
 Start Date: 2014.07.13 End Date: 2014.07.13
 Start Time: 08:10:00 End Time: 12:59:00
 Capacity: 5000.00 psig
 Last Calib.: 2014.07.13
 Time On Btm: 2014.07.13 @ 09:47:30
 Time Off Btm: 2014.07.13 @ 11:14:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak surface blow.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 15 Minutes. No blow, flushed tool had good flush bubbles. Gained no blow, pulled test per Geo.
 2nd Shut In/ N/A



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.09	104.28	Initial Hydro-static
3	47.99	104.81	Open To Flow (1)
18	48.13	107.78	Shut-In(1)
64	622.58	111.45	End Shut-In(1)
64	49.35	111.30	Open To Flow (2)
81	54.42	111.82	Shut-In(2)
87	1576.96	112.57	Final Hydro-static

Recovery

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

Gas Rates

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

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. 084

Date	7-8-14	Sec.	23	Twp.	18	Range	14	County	Barton	State	Ks	On Location		Finish	12:45 PM
------	--------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	----------

Lease *Reif Trust* Location *281 + 4 Jct, 5 on Boyd Rd to Curve*

Well No. *2-23* Owner *IS Finto*

Contractor *Stedling #4* To Quality Oilwell Cementing, Inc.
Type Job *Surface* You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size *12 1/4"* T.D. *857'* Charge To *Shelby Resources*

Csg. *85 1/8"* Depth *854'* 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. *42'* Shoe Joint *42'* Cement Amount Ordered *350 60140 3 1/2 CC 2 1/2 Gel*

Meas Line Displace *51 3/4 BLS*

EQUIPMENT

Pumptrk	<i>16</i>	No.	Cementer	<i>Billy</i>	Common	<i>210</i>
			Helper		Poz. Mix	<i>140</i>
Bulktrk	<i>19</i>	No.	Driver	<i>Ryan</i>	Gel.	<i>7</i>
			Driver		Calcium	<i>15</i>
Bulktrk	<i>p.u.</i>	No.	Driver	<i>Rick</i>		
			Driver			

JOB SERVICES & REMARKS

Remarks: *Cement did Circulate*

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Sand

Handling *372*

Mileage

FLOAT EQUIPMENT

Guide Shoe *1 slip-on*

Centralizer *Baffle plate*

Baskets *Rubber plug*

AFU Inserts

Float Shoe

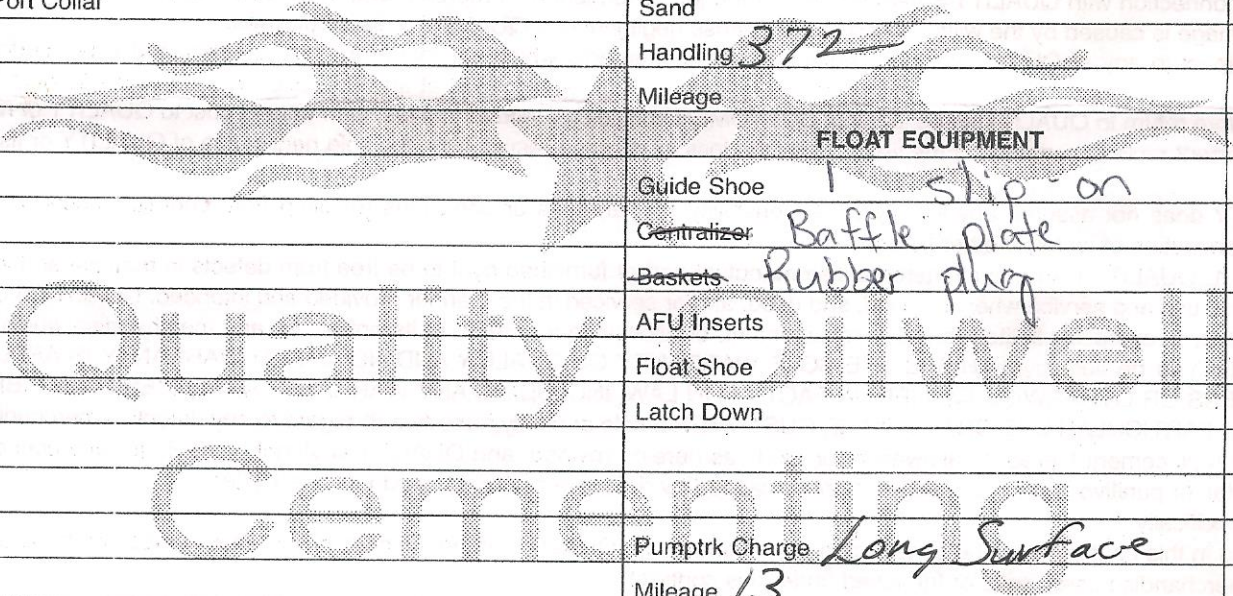
Latch Down

Pumptrk Charge *Long Surface*

Mileage *13*

X Signature *Tony S. Saloy*

Tax	
Discount	
Total Charge	



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. 515

Date	7-13-14	Sec.	23	Twp.	18	Range	14	County	Barton	State	KS	On Location		Finish	9:15 PM
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Location *Boxd S to Curve 15*

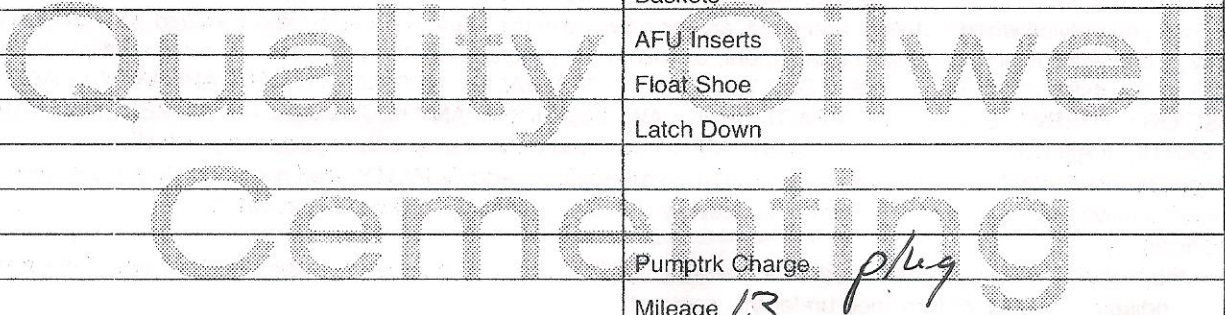
Lease	<i>Reif Trust</i>	Well No.	<i>2-23</i>	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	<i>Sterling #40</i>			Charge To	<i>Shelby Resources</i>
Type Job	<i>Plug</i>	T.D.	<i>3530'</i>	Street	
Hole Size	<i>7 7/8</i>	Depth		City	State
Csg. <i>Drill Pipe</i>		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Shoe Joint		Cement Amount Ordered	<i>235 60/40 4 1/2 bbl</i>
Tool					
Cement Left in Csg.					

Meas Line	Displace		
EQUIPMENT			
Pumptrk <i>5</i>	No.	Cementer	Common <i>141</i>
		Helper <i>David</i>	Poz. Mix <i>94</i>
Bulktrk <i>1</i>	No.	Driver <i>Clayton</i>	Gel. <i>8</i>
Bulktrk <i>Pu</i>	No.	Driver <i>Brett</i>	Calcium

JOB SERVICES & REMARKS			
Remarks:			Hulls
Rat Hole - <i>30sx</i>			Salt
Mouse Hole - <i>15sx</i>			Flowseal <i>60#</i>
Centralizers			Kol-Seal
Baskets			Mud CLR 48
D/V or Port Collar			CFL-117 or CD110 CAF 38
			Sand
			Handling <i>243</i>
			Mileage

1st Plug @ 3417 w/ 50sx
2nd Plug @ 900 w/ 50sx
3rd Plug @ 340 w/ 80sx
4th Plug @ 40 w/ 10sx

FLOAT EQUIPMENT			
			Guide Shoe
			Centralizer
			Baskets
			AFU Inserts
			Float Shoe
			Latch Down



Pumptrk Charge	<i>plug</i>
Mileage	<i>13</i>

Signature	<i>Mary J. Salvey</i>	Tax	
		Discount	
		Total Charge	