Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1208725

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 # 31725
Name: Shelby Resources LLC
Address 1: 2717 Canal Blvd.
Address 2: Suite C
City: HAYS State: KS Zip: 67601 + ____
Contact Person: Chris Gottschalk
Phone: (785) 623-1524
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Jeremy Schwartz
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 #: _____

05/02/2014	05/10/2014	05/30/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25969-00-00
Spot Description: _____
NE - SW - SE - NW Sec. 17 Twp. 17 S. R. 13 ☐ East ☑ West
2146 Feet from ☑ North / ☐ South Line of Section
1701 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: _____ *(e.g. xx.xxxxx)* , Long: _____ *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Barton
Lease Name: Nancy Well #: 3-17
Field Name: _____
Producing Formation: L-KC
Elevation: Ground: 1965 Kelly Bushing: 1978
Total Vertical Depth: 3525 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 944 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: 45000 ppm Fluid volume: 1000 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Shelby Resources
Lease Name: Clark #3-24 License #: 31725
Quarter SW Sec. 24 Twp. 17 S. R. 14 ☐ East ☑ West
County: Barton Permit #: D31557.0

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: 06/04/2014
☑ **Confidential Release Date:** 06/03/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 06/04/2014

[redacted] 1208725

Operator Name: Shelby Resources LLC Lease Name: Nancy Well #: 3-17

Sec. 17 Twp. 17 S. R. 13 ☐ East ☑ West County: Barton

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	944	60/40 Poz	350	2% gel, 3% cc
Production	7.875	5.5	14	3511	60/40 - AA2	50.100	2% gel, 3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☑ Plug Off Zone	3453-3457	D.O.C.	85	
	-			

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 *(Amount and Kind of Material Used)*	Depth
4	3453-57	85 sx D.O.C.	
2	3246-50	500 gal 15% INS	
2	3368-74	500 gal. 15% INS	
2	3268-75	500 gal. 15% INS	
2	3225-34	500 gal. 15% INS	

TUBING RECORD: Size: 2.375 Set At: 3443 Packer At: 3445 Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 05/30/2014

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	40		5		

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Nancy 3-17
Doc ID	1208725

All Electric Logs Run

Dual Induction
Compensated Nuetron
Micro
Sonic
Segmented Bond

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Nancy 3-17
Doc ID	1208725

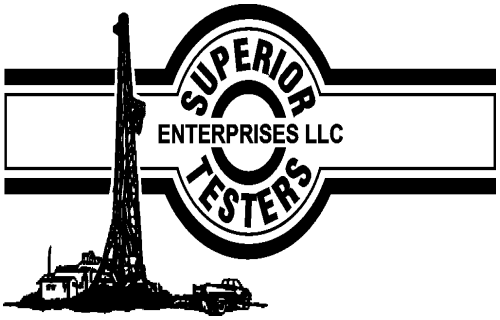
Tops

Name	Top	Datum
HEEBNER SHALE	3129	-1151
LKC	3219	-1241
MUNCIE CREEK	3344	-1366
STARK SHALE	3402	-1424
BKC	3428	-1450
RE-WORKED ARB	3436	-1458
ARBUCKLE	3455	-1477
LTD	3528	-1550

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Nancy 3-17
Doc ID	1208725

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	944	60/40 Poz	350	2% gel, 3% cc
Production	7.875	5.5	14	3511	60/40 - AA2	50.100	2% gel, 3% cc



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Boulevard
Suite C
Hays, Kansas 67601

ATTN: Jeremy Schwartz

Nancy 3-17

17/17S/13W/Barton

Start Date: 2014.05.06 @ 21:37:00

End Date: 2014.05.07 @ 04:43:30

Job Ticket #: 18253 DST #: 1

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2014.05.07 @ 04:55:38

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18253 **DST#: 1**

Test Start: 2014.05.06 @ 21:37:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:37:30
Time Test Ended: 04:43:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/

Interval: 3213.00 ft (KB) To 3260.00 ft (KB) (TVD)
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

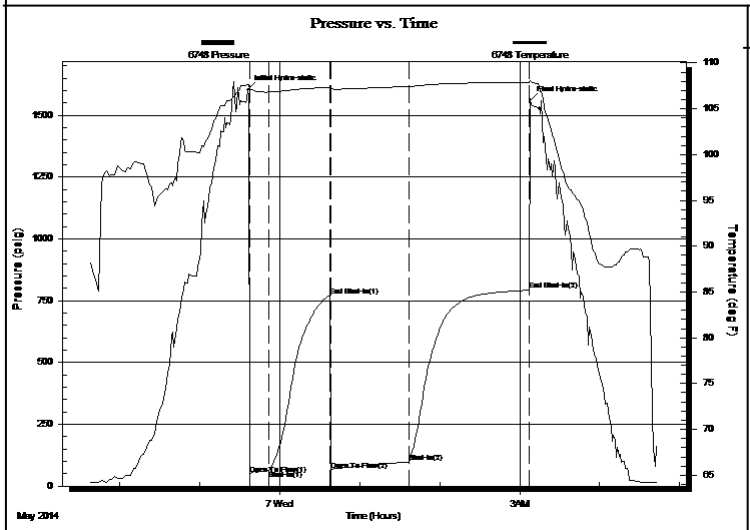
Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6748

Press@RunDepth: 98.02 psig @ ft (KB)
Start Date: 2014.05.06 End Date: 2014.05.07
Start Time: 21:37:00 End Time: 04:43:30

Capacity: 5000.00 psig
Last Calib.: 2014.05.07
Time On Btm: 2014.05.06 @ 23:36:00
Time Off Btm: 2014.05.07 @ 03:08:00

TEST COMMENT:
1ST Open 15 Minutes/Good blow /Blow built to bottom of bucket in 13 minutes
1ST Shut In 45 Minutes/No blow back
2ND Open 60 Minutes/Strong blow /Blow built to bottom of bucket in 30 seconds then slowed considerably
2ND Shut In 90 Minutes/Blow back built to 1/4 then died in 15 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1601.66	107.69	Initial Hydro-static
2	49.82	107.23	Open To Flow (1)
16	62.84	106.83	Shut-In(1)
62	770.68	107.35	End Shut-In(1)
63	63.11	107.18	Open To Flow (2)
121	98.02	107.44	Shut-In(2)
211	791.85	107.91	End Shut-In(2)
212	1559.65	108.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Oily Mud/Oil 20% Mud 80%	0.59
0.00	180 feet of gas in pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18253 **DST#: 1**

Test Start: 2014.05.06 @ 21:37:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:37:30
Time Test Ended: 04:43:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/

Interval: 3213.00 ft (KB) To 3260.00 ft (KB) (TVD)
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

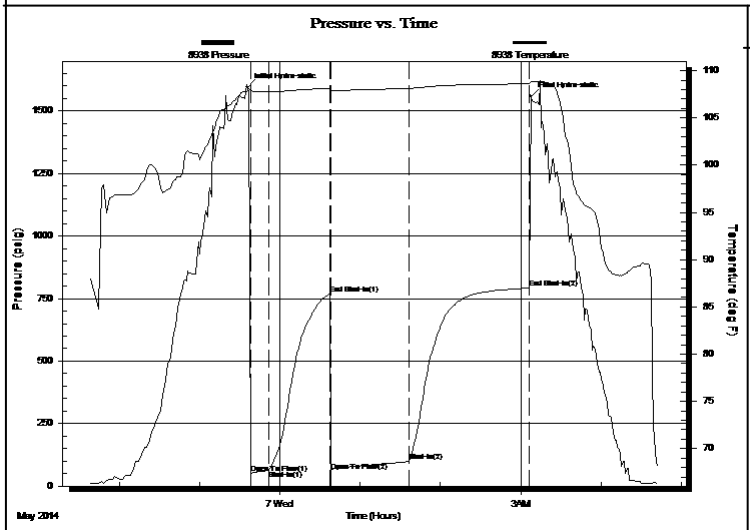
Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8938 **Outside**

Press@RunDepth: 791.11 psig @ 3257.00 ft (KB)
Start Date: 2014.05.06 End Date: 2014.05.07
Start Time: 21:37:00 End Time: 04:43:00

Capacity: 5000.00 psig
Last Calib.: 2014.05.07
Time On Btm: 2014.05.06 @ 23:35:30
Time Off Btm: 2014.05.07 @ 03:07:30

TEST COMMENT:
1ST Open 15 Minutes/Good blow /Blow built to bottom of bucket in 13 minutes
1ST Shut In 45 Minutes/No blow back
2ND Open 60 Minutes/Strong blow /Blow built to bottom of bucket in 30 seconds then slowed considerably
2ND Shut In 90 Minutes/Blow back built to 1/4 then died in 15 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1595.54	107.89	Initial Hydro-static
2	50.30	107.84	Open To Flow (1)
16	62.72	107.77	Shut-In(1)
62	769.77	108.13	End Shut-In(1)
62	60.69	107.93	Open To Flow (2)
121	98.22	108.12	Shut-In(2)
211	791.11	108.61	End Shut-In(2)
212	1558.94	108.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Oily Mud/Oil 20% Mud 80%	0.59
0.00	180 feet of gas in pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18253 **DST#: 1**

Test Start: 2014.05.06 @ 21:37:00

Tool Information

Drill Pipe:	Length:	2867.00 ft	Diameter:	3.80 inches	Volume:	40.22 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:	328.07 ft	Diameter:	2.25 inches	Volume:	1.61 bbl	Weight to Pull Loose:		80000.00 lb
					Total Volume:	41.83 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		10.07 ft					String Weight:	Initial	70000.00 lb
Depth to Top Packer:		3213.00 ft						Final	70000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		47.00 ft							
Tool Length:		75.00 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			3190.00		
Hydraulic tool	5.00			3195.00		
Jars	6.00			3201.00		
Safety Joint	2.00			3203.00		
Top Packer	5.00			3208.00		
Packer	5.00			3213.00	28.00	Bottom Of Top Packer
Anchor	42.00			3255.00		
Recorder	1.00	6749	Inside	3256.00		
Recorder	1.00	8938	Outside	3257.00		
Bullnose	3.00			3260.00	47.00	Anchor Tool
Total Tool Length:	**75.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18253 **DST#: 1**

Test Start: 2014.05.06 @ 21:37:00

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:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.00 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

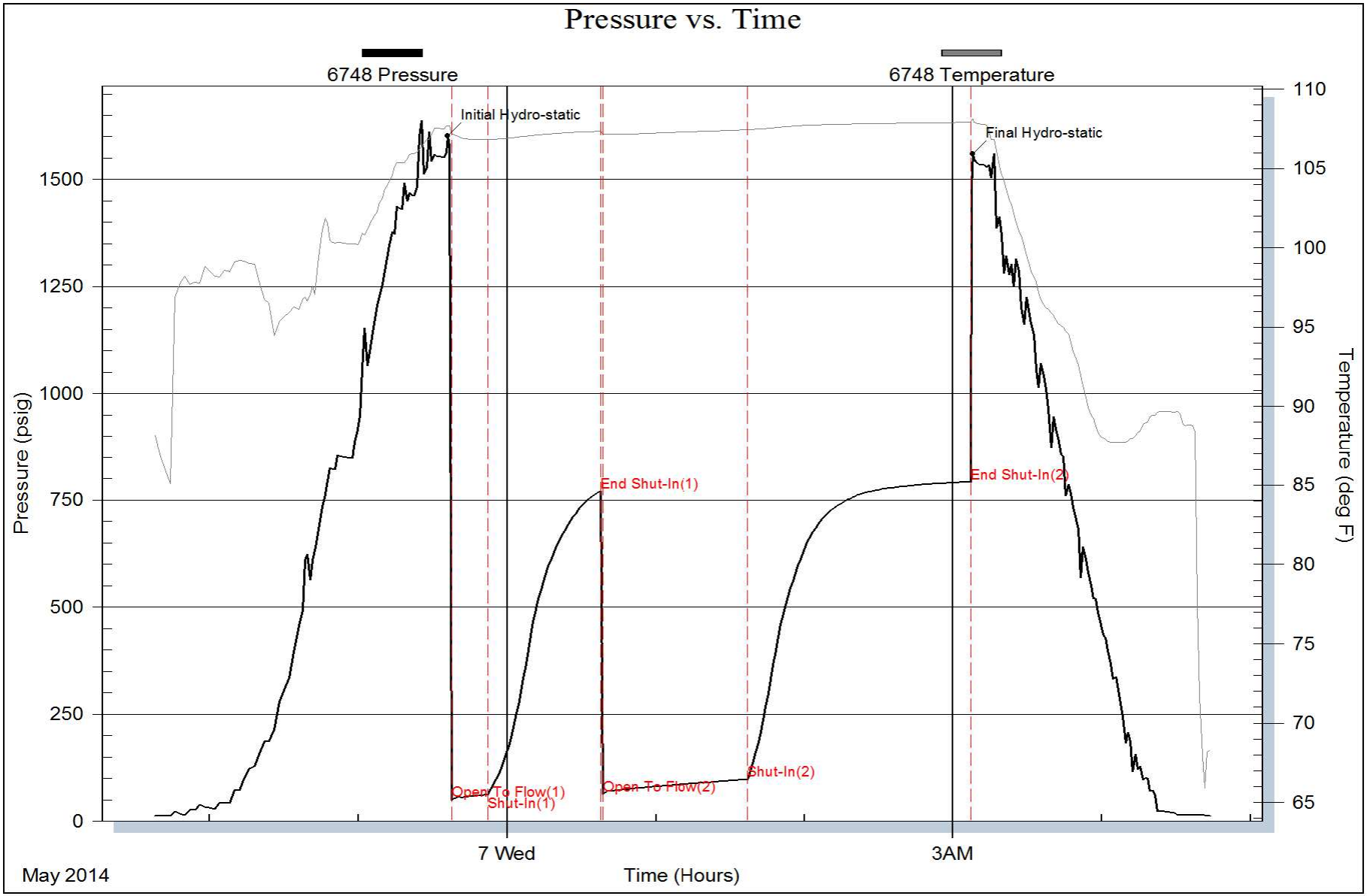
Recovery Table

Length ft	Description	Volume bbl
120.00	Oily Mud/Oil 20% Mud 80%	0.590
0.00	180 feet of gas in pipe	0.000

Total Length: 120.00 ft Total Volume: 0.590 bbl

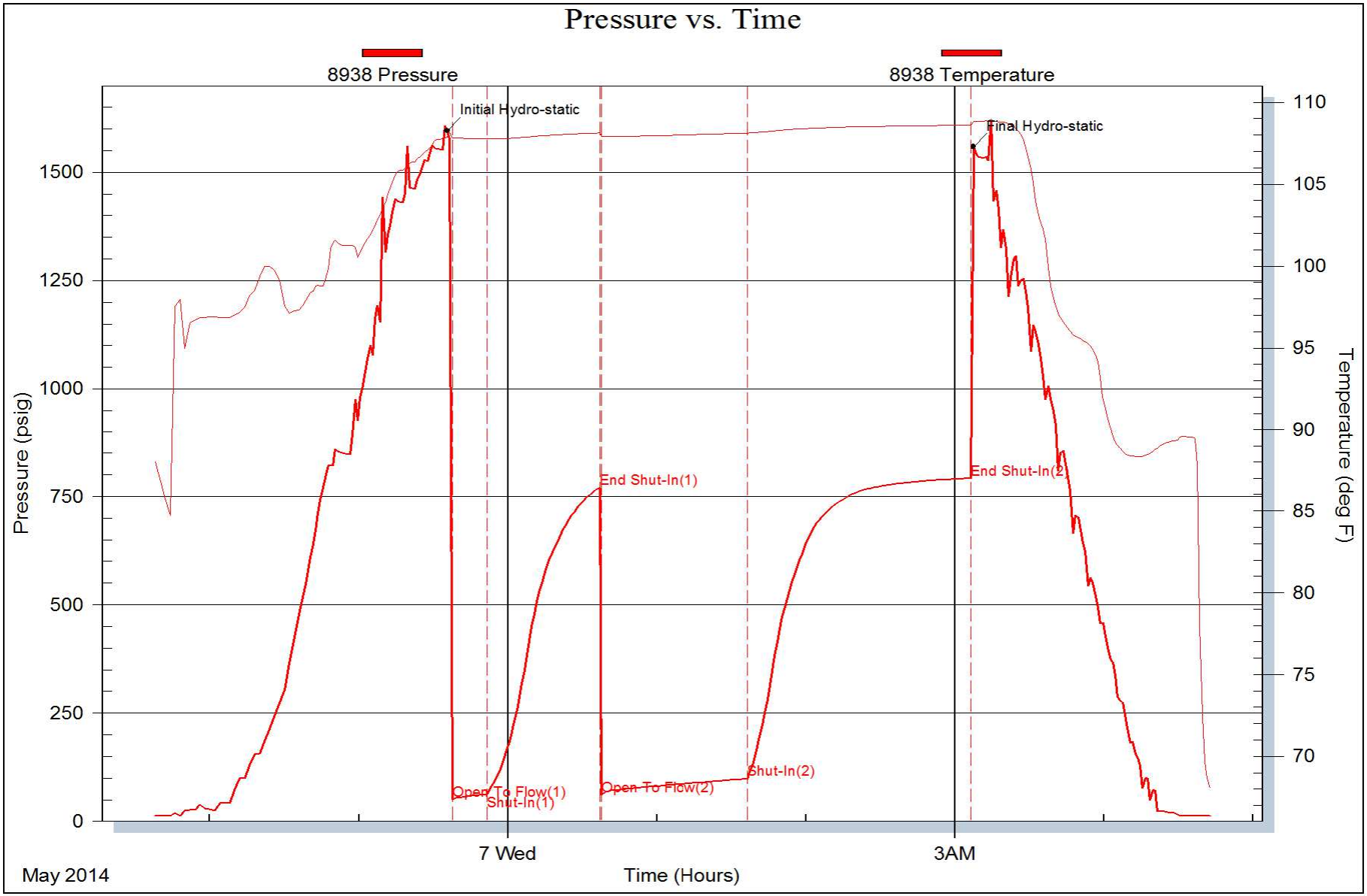
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6748 Shelby Resources LLC Nancy 3-17 DST Test Number: 1

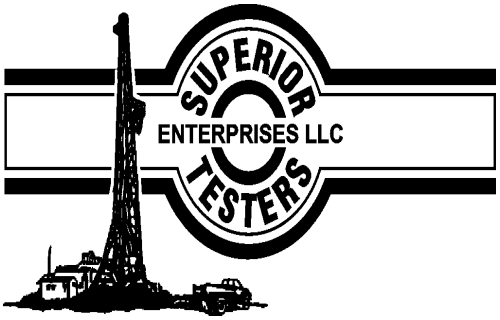


Superior Testers Enterprises LLC Ref. No: 18253 Printed: 2014.05.07 @ 04:55:39

Serial #: 8938 **Outside** Shelby Resources LLC Nancy 3-17 DST Test Number: 1



Superior Testers Enterprises LLC Ref. No: 18253 Printed: 2014.05.07 @ 04:55:39



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Boulevard
Suite C
Hays, Kansas 67601

ATTN: Jeremy Schwartz

Nancy 3-17

17/17S/13W/Barton

Start Date: 2014.05.07 @ 13:10:00
End Date: 2014.05.07 @ 16:59:00
Job Ticket #: 18254 DST #: 2

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

Printed: 2014.05.07 @ 17:08:47

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18254 **DST#: 2**

Test Start: 2014.05.07 @ 13:10:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:17:30
Time Test Ended: 16:59:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/32

Interval: 3260.00 ft (KB) To 3283.00 ft (KB) (TVD)
Total Depth: 3283.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

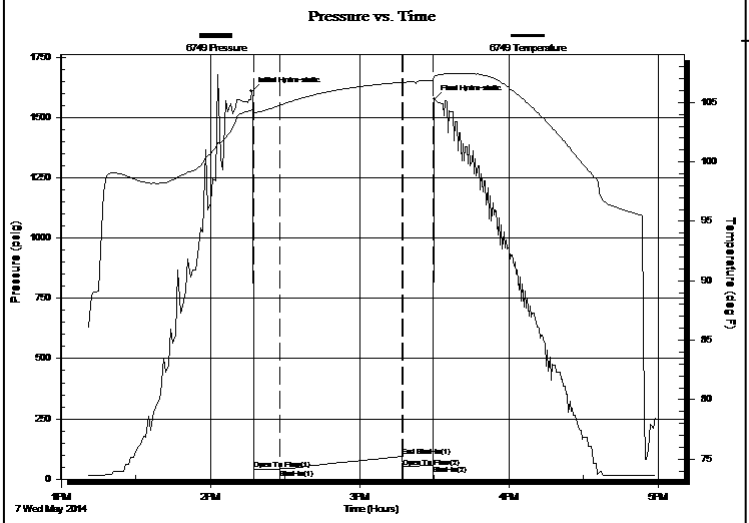
Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6749 **Inside**

Press@RunDepth: 42.77 psig @ 3279.00 ft (KB)
Start Date: 2014.05.07 End Date: 2014.05.07
Start Time: 13:10:00 End Time: 16:59:00

Capacity: 5000.00 psig
Last Calib.: 2014.05.07
Time On Btm: 2014.05.07 @ 14:16:30
Time Off Btm: 2014.05.07 @ 15:30:00

TEST COMMENT: 1ST Open 15 Minutes/Weak surface blow throughout/Blow did not build
1ST Shut In 45 Minutes/No blow back
2ND Open 10 Minutes/Dead no blow /Flush tool no help/Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.27	104.39	Initial Hydro-static
1	41.03	104.12	Open To Flow (1)
12	42.77	104.77	Shut-In(1)
61	94.43	106.69	End Shut-In(1)
61	50.71	106.69	Open To Flow (2)
73	56.21	106.86	Shut-In(2)
74	1575.92	107.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18254 **DST#: 2**

Test Start: 2014.05.07 @ 13:10:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:17:30
Time Test Ended: 16:59:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/32

Interval: 3260.00 ft (KB) To 3283.00 ft (KB) (TVD)
Total Depth: 3283.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

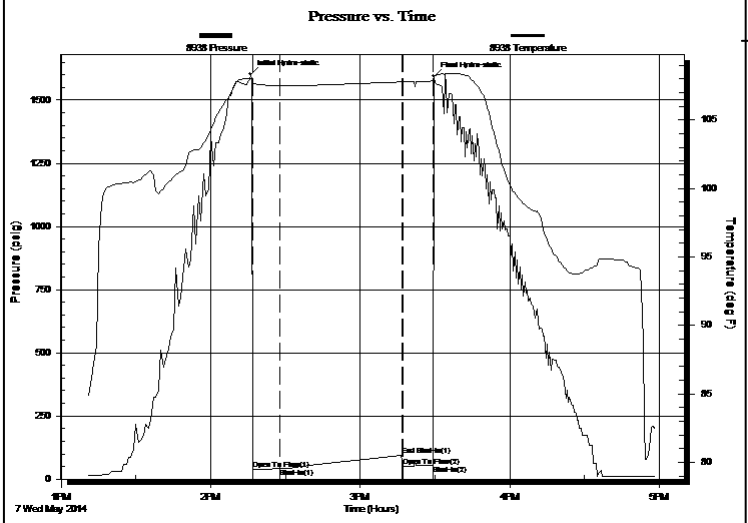
Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8938 **Outside**

Press@RunDepth: 94.15 psig @ 3280.00 ft (KB)
Start Date: 2014.05.07 End Date: 2014.05.07
Start Time: 13:10:00 End Time: 16:58:30

Capacity: 5000.00 psig
Last Calib.: 2014.05.07
Time On Btm: 2014.05.07 @ 14:16:00
Time Off Btm: 2014.05.07 @ 15:29:30

TEST COMMENT: 1ST Open 15 Minutes/Weak surface blow throughout/Blow did not build
1ST Shut In 45 Minutes/No blow back
2ND Open 10 Minutes/Dead no blow /Flush tool no help/Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1602.70	108.06	Initial Hydro-static
1	37.31	107.57	Open To Flow (1)
12	41.69	107.53	Shut-In(1)
61	94.15	107.80	End Shut-In(1)
61	49.81	107.78	Open To Flow (2)
73	54.35	107.86	Shut-In(2)
74	1593.97	108.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18254 **DST#: 2**

Test Start: 2014.05.07 @ 13:10:00

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:	328.07 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		80000.00 lb
					Total Volume:	41.13 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		27.07 ft					String Weight:	Initial	68000.00 lb
Depth to Top Packer:		3260.00 ft						Final	68000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		23.00 ft							
Tool Length:		50.00 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			3238.00		
Hydraulic tool	5.00			3243.00		
Jars	5.00			3248.00		
Safety Joint	2.00			3250.00		
Top Packer	5.00			3255.00		
Packer	5.00			3260.00	27.00	Bottom Of Top Packer
Anchor	18.00			3278.00		
Recorder	1.00	6749	Inside	3279.00		
Recorder	1.00	8938	Outside	3280.00		
Bullnose	3.00			3283.00	23.00	Anchor Tool
Total Tool Length:	**50.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18254 **DST#: 2**

Test Start: 2014.05.07 @ 13:10:00

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:	62.00 sec/qt	Cushion Volume:	bbl		
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

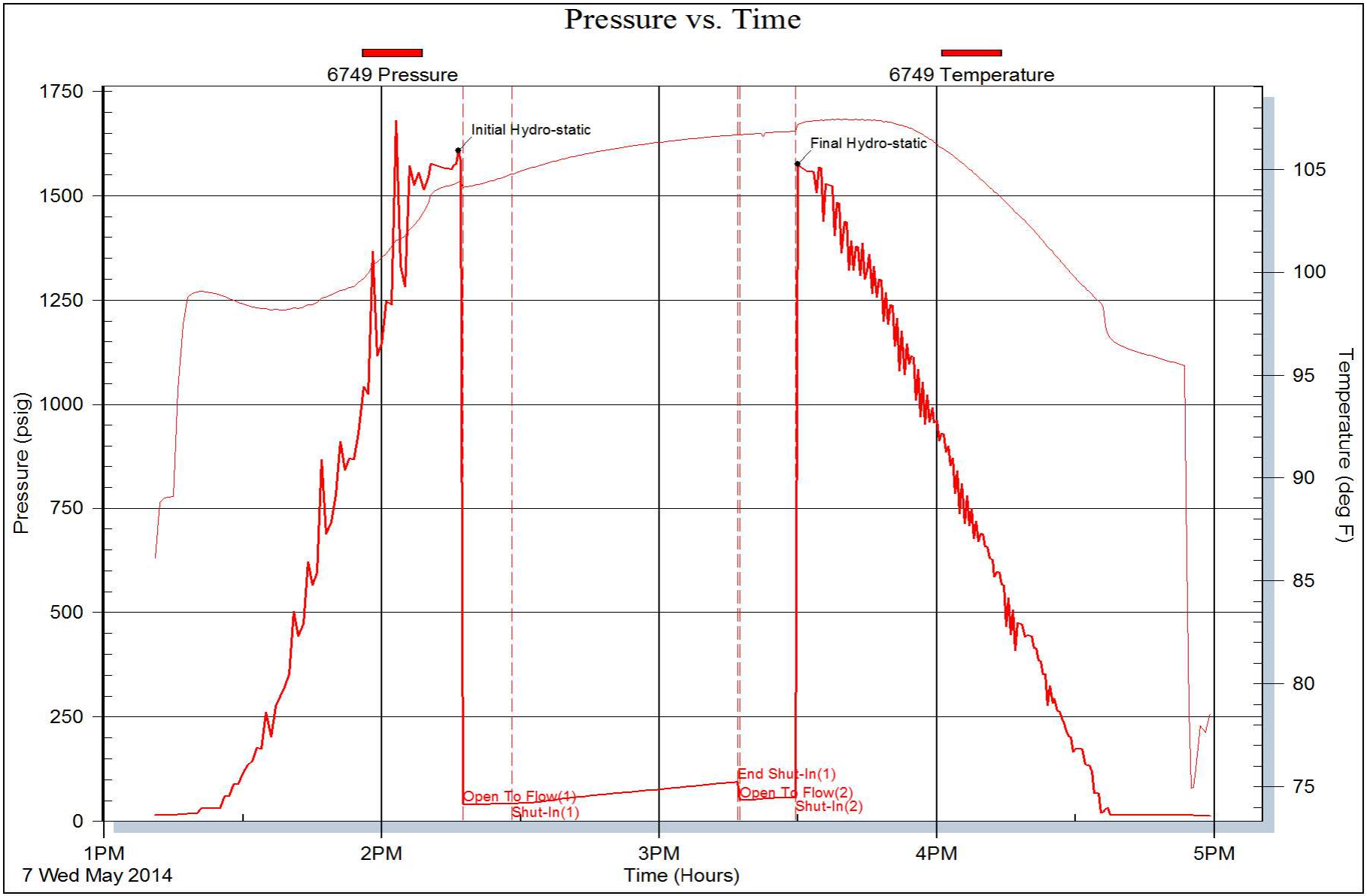
Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100%	0.000

Total Length: 30.00 ft Total Volume: bbl

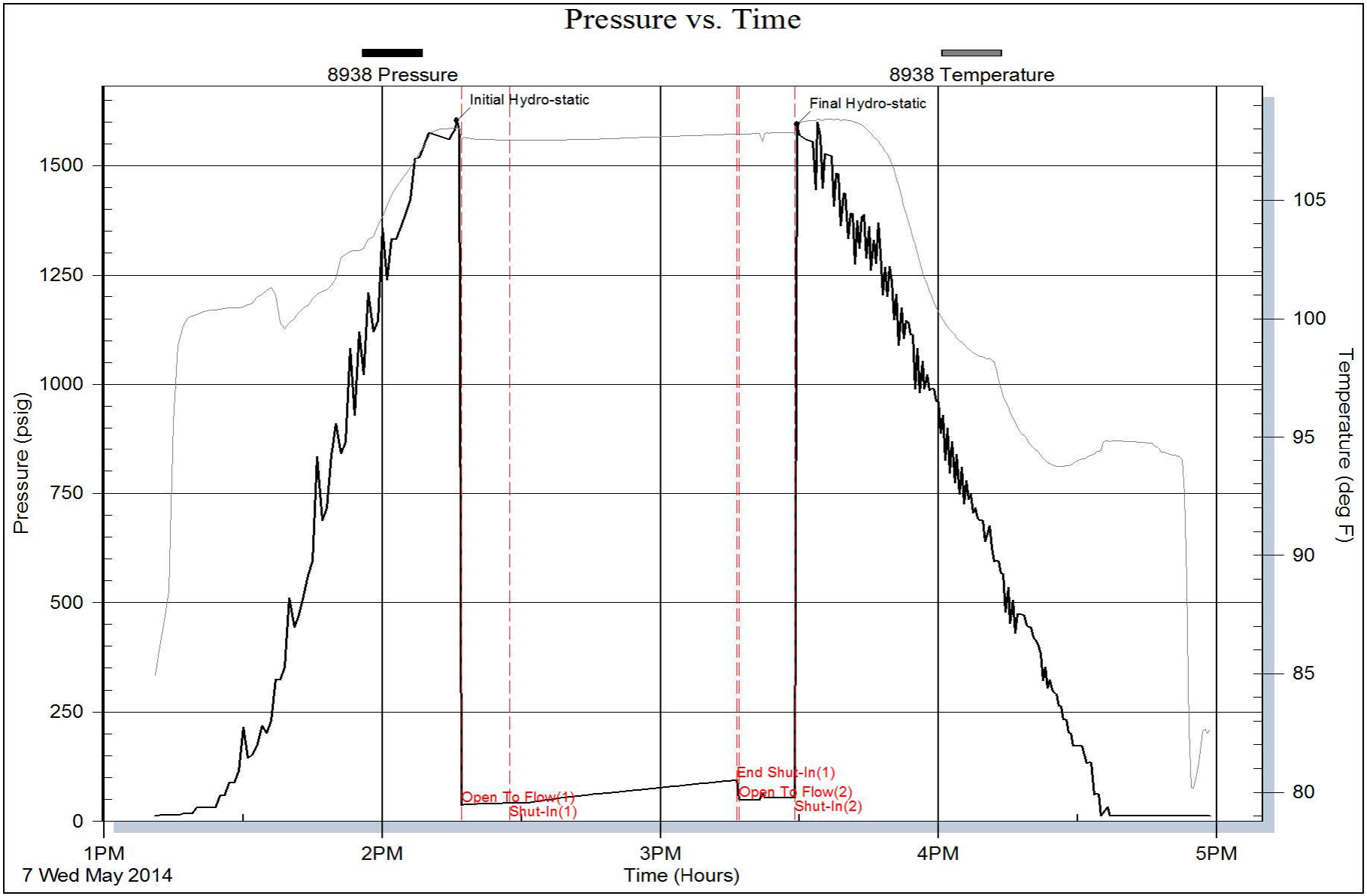
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6749 **Inside** Shelby Resources LLC Nancy 3-17 DST Test Number: 2

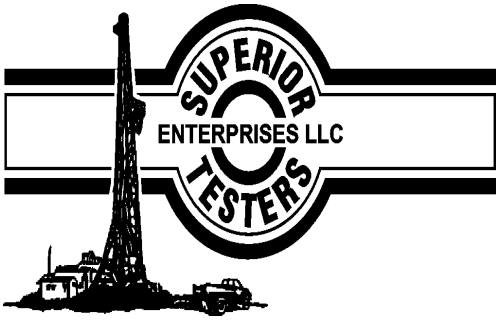


Superior Testers Enterprises LLC Ref. No: 18254 Printed: 2014.05.07 @ 17:08:48

Serial #: 8938 **Outside** Shelby Resources LLC Nancy 3-17 DST Test Number: 2



Superior Testers Enterprises LLC Ref. No: 18254 Printed: 2014.05.07 @ 17:08:48



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Boulevard
Suite C
Hays, Kansas 67601

ATTN: Jeremy Schwartz

Nancy 3-17

17/17S/13W/Barton

Start Date: 2014.05.08 @ 08:09:00

End Date: 2014.05.08 @ 12:00:30

Job Ticket #: 18255 DST #: 3

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2014.05.08 @ 12:13:14

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18255 **DST#: 3**

Test Start: 2014.05.08 @ 08:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:16:00
Time Test Ended: 12:00:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/32

Interval: 3424.00 ft (KB) To 3455.00 ft (KB) (TVD)
Total Depth: 3455.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

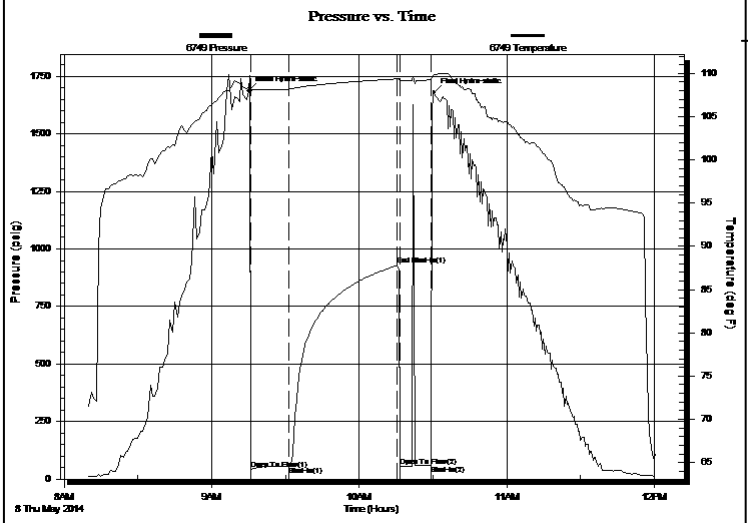
Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6749 **Inside**

Press@RunDepth: 56.70 psig @ 3451.00 ft (KB)
Start Date: 2014.05.08 End Date: 2014.05.08
Start Time: 08:09:00 End Time: 12:00:30

Capacity: 5000.00 psig
Last Calib.: 2014.05.08
Time On Btm: 2014.05.08 @ 09:15:00
Time Off Btm: 2014.05.08 @ 10:30:30

TEST COMMENT: 1ST Open 15 Minutes/Weak blow /Blow built to 3/4 inch
1ST Shut In 45 Minutes/No blow back
2ND Open 10 Minutes/Dead no blow /Flush tool no help/Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.79	108.44	Initial Hydro-static
1	43.33	107.81	Open To Flow (1)
17	56.70	108.19	Shut-In(1)
61	929.45	109.37	End Shut-In(1)
62	56.85	109.18	Open To Flow (2)
74	59.42	109.26	Shut-In(2)
76	1679.14	109.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oily Mud/Oil 30% Mud 70%	0.07
15.00	Mud cut Oil/Mud 5% Oil 95%	0.07

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18255 **DST#: 3**

Test Start: 2014.05.08 @ 08:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:16:00
Time Test Ended: 12:00:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/32

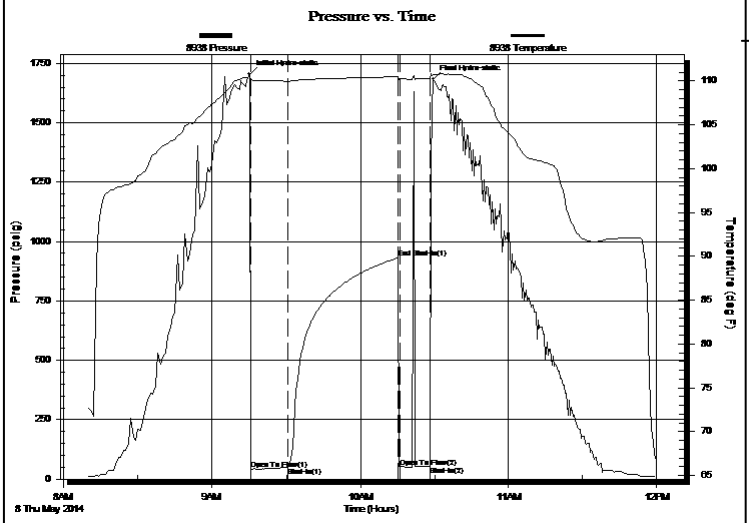
Interval: 3424.00 ft (KB) To 3455.00 ft (KB) (TVD)
Total Depth: 3455.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8938 **Outside**
Press@RunDepth: 931.19 psig @ 3452.00 ft (KB)
Start Date: 2014.05.08 End Date: 2014.05.08
Start Time: 08:09:00 End Time: 11:59:30

Capacity: 5000.00 psig
Last Calib.: 2014.05.08
Time On Btm: 2014.05.08 @ 09:15:00
Time Off Btm: 2014.05.08 @ 10:29:30

TEST COMMENT: 1ST Open 15 Minutes/Weak blow /Blow built to 3/4 inch
1ST Shut In 45 Minutes/No blow back
2ND Open 10 Minutes/Dead no blow /Flush tool no help/Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1704.69	110.44	Initial Hydro-static
1	42.50	110.00	Open To Flow (1)
16	48.30	109.98	Shut-In(1)
60	931.19	110.49	End Shut-In(1)
61	51.75	110.25	Open To Flow (2)
73	55.82	110.23	Shut-In(2)
75	1683.80	110.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oily Mud/Oil 30% Mud 70%	0.07
15.00	Mud cut Oil/Mud 5% Oil 95%	0.07

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18255 **DST#: 3**

Test Start: 2014.05.08 @ 08:09:00

Tool Information

Drill Pipe:	Length:	3091.00 ft	Diameter:	3.80 inches	Volume:	43.36 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:	328.07 ft	Diameter:	2.25 inches	Volume:	1.61 bbl	Weight to Pull Loose:		75000.00 lb
					Total Volume:	44.97 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		22.07 ft					String Weight:	Initial	70000.00 lb
Depth to Top Packer:		3424.00 ft						Final	70000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		31.00 ft							
Tool Length:		58.00 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			3402.00		
Hydraulic tool	5.00			3407.00		
Jars	5.00			3412.00		
Safety Joint	2.00			3414.00		
Top Packer	5.00			3419.00		
Packer	5.00			3424.00	27.00	Bottom Of Top Packer
Anchor	26.00			3450.00		
Recorder	1.00	6749	Inside	3451.00		
Recorder	1.00	8938	Outside	3452.00		
Bullnose	3.00			3455.00	31.00	Anchor Tool
Total Tool Length:	**58.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18255 **DST#: 3**

Test Start: 2014.05.08 @ 08:09:00

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:	61.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.60 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

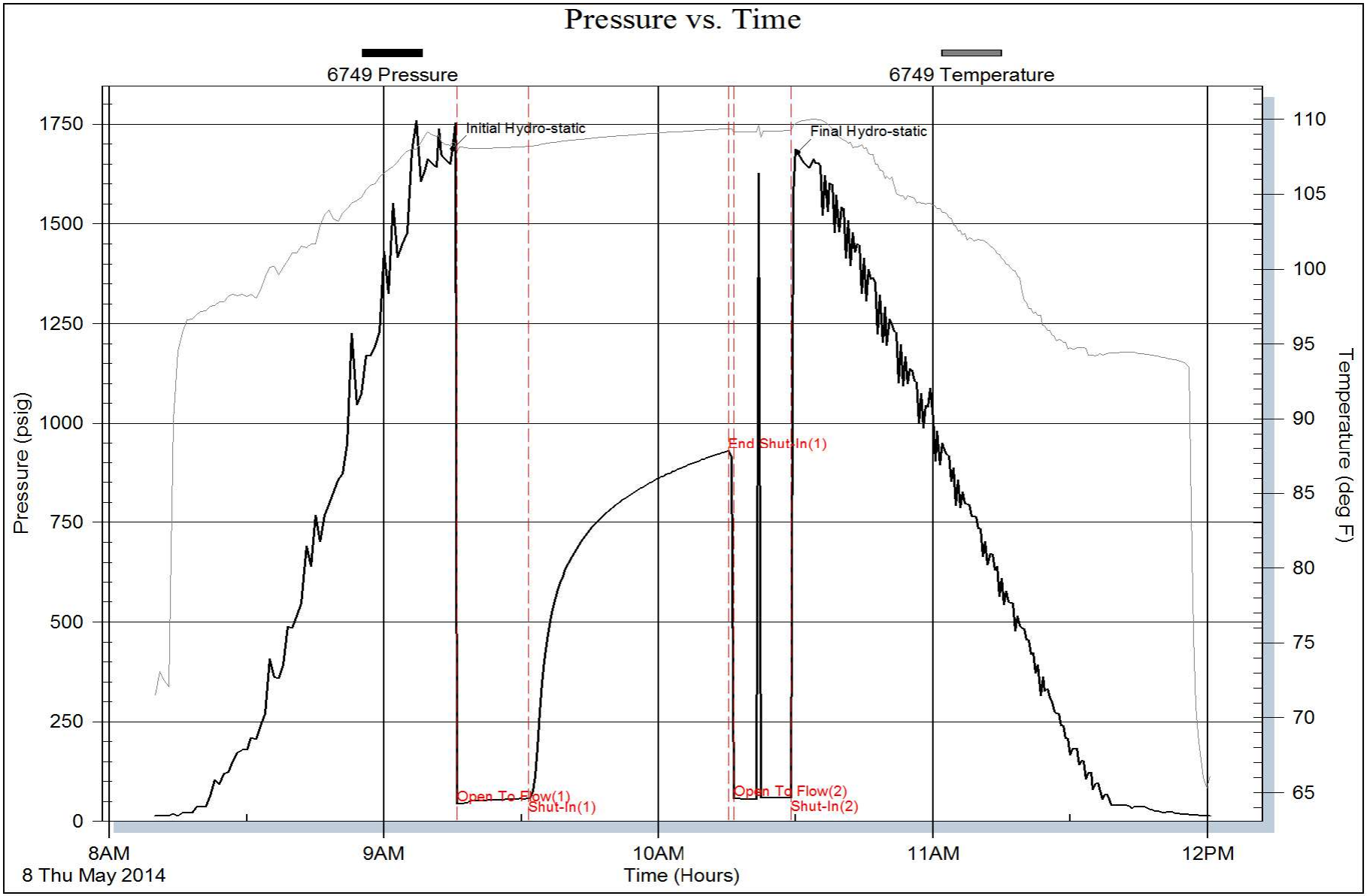
Recovery Table

Length ft	Description	Volume bbl
15.00	Oily Mud/Oil 30% Mud 70%	0.074
15.00	Mud cut Oil/Mud 5% Oil 95%	0.074

Total Length: 30.00 ft Total Volume: 0.148 bbl

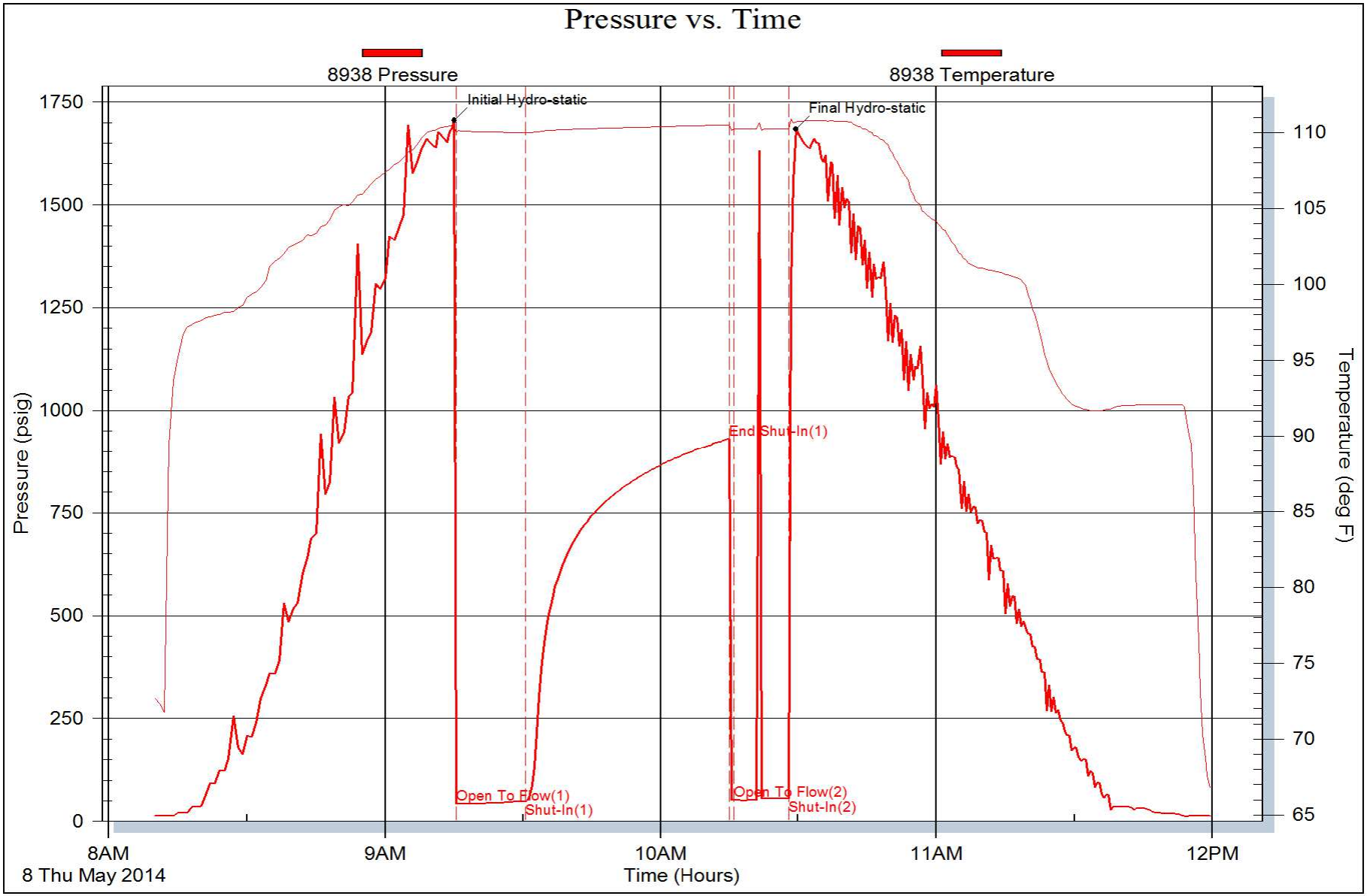
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6749 **Inside** Shelby Resources LLC Nancy 3-17 DST Test Number: 3



Superior Testers Enterprises LLC Ref. No: 18255 Printed: 2014.05.08 @ 12:13:14

Serial #: 8938 **Outside** Shelby Resources LLC Nancy 3-17 DST Test Number: 3



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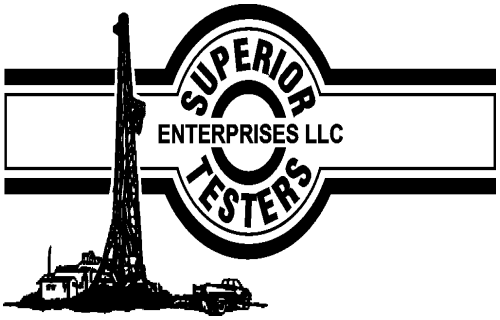


DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Boulevard
Suite C
Hays, Kansas 67601

ATTN: Jeremy Schwartz

Nancy 3-17

17/17S/13W/Barton

Start Date: 2014.05.08 @ 18:10:00
End Date: 2014.05.09 @ 00:37:00
Job Ticket #: 18256 DST #: 4

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

Printed: 2014.05.09 @ 00:59:34

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18256 **DST#: 4**

Test Start: 2014.05.08 @ 18:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:27:30
Time Test Ended: 00:37:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/32

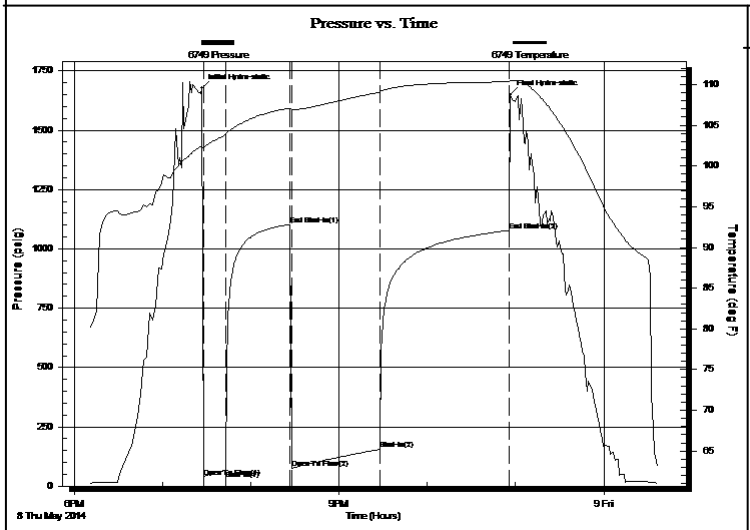
Interval: 3450.00 ft (KB) To 3462.00 ft (KB) (TVD)
Total Depth: 3462.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Poor

Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6749 **Inside**
Press@RunDepth: 155.71 psig @ 3458.00 ft (KB)
Start Date: 2014.05.08 End Date: 2014.05.09
Start Time: 18:10:00 End Time: 00:37:00

Capacity: 5000.00 psig
Last Calib.: 2014.05.09
Time On Btm: 2014.05.08 @ 19:26:30
Time Off Btm: 2014.05.08 @ 22:56:30

TEST COMMENT:
1ST Open 15 Minutes/Fair blow/Blow built to 6 inches
1ST Shut In 45 Minutes/No blow back
2ND Open 60 Minutes/Good blow/Blow built to 11 inches
2ND Shut In 90 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.95	102.42	Initial Hydro-static
1	39.13	102.16	Open To Flow (1)
16	67.35	103.83	Shut-In(1)
61	1102.99	107.11	End Shut-In(1)
61	74.29	106.91	Open To Flow (2)
121	155.71	109.06	Shut-In(2)
210	1077.81	110.33	End Shut-In(2)
210	1648.86	110.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Oily Mud/Oil 30% Mud 70%	0.30
60.00	Muddy Oil/Mud 40% Oil 60%	0.30
195.00	Clean Oil 100%	0.96
0.00	Corrected Grav. Oil 32	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18256 **DST#: 4**

Test Start: 2014.05.08 @ 18:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:27:30
Time Test Ended: 00:37:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/32

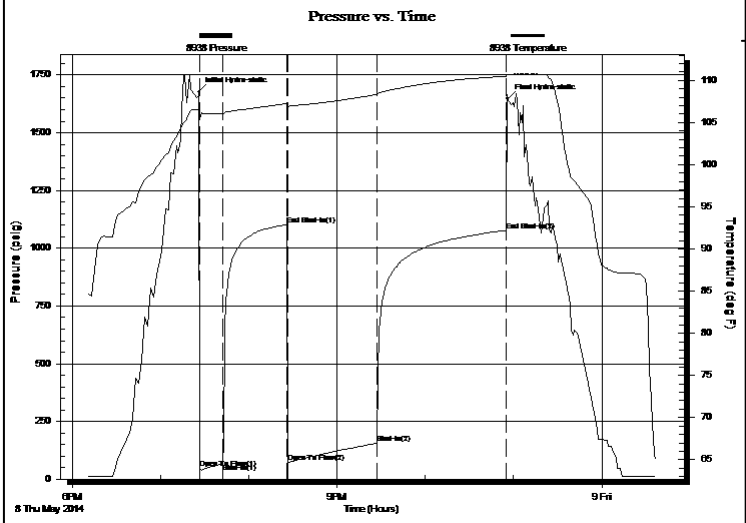
Interval: 3450.00 ft (KB) To 3462.00 ft (KB) (TVD)
Total Depth: 3462.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Poor

Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8938 **Outside**
Press@RunDepth: 1076.78 psig @ 3459.00 ft (KB)
Start Date: 2014.05.08 End Date: 2014.05.09
Start Time: 18:10:00 End Time: 00:37:00

Capacity: 5000.00 psig
Last Calib.: 2014.05.09
Time On Btm: 2014.05.08 @ 19:26:00
Time Off Btm: 2014.05.08 @ 22:56:00

TEST COMMENT:
1ST Open 15 Minutes/Fair blow/Blow built to 6 inches
1ST Shut In 45 Minutes/No blow back
2ND Open 60 Minutes/Good blow/Blow built to 11 inches
2ND Shut In 90 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.39	106.57	Initial Hydro-static
1	46.15	105.49	Open To Flow (1)
16	66.92	106.03	Shut-In(1)
60	1101.94	107.25	End Shut-In(1)
61	74.02	106.77	Open To Flow (2)
121	155.61	108.33	Shut-In(2)
209	1076.78	110.49	End Shut-In(2)
210	1647.76	110.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Oily Mud/Oil 30% Mud 70%	0.30
60.00	Muddy Oil/Mud 40% Oil 60%	0.30
195.00	Clean Oil 100%	0.96
0.00	Corrected Grav. Oil 32	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18256 **DST#: 4**

Test Start: 2014.05.08 @ 18:10:00

Tool Information

Drill Pipe:	Length:	3121.00 ft	Diameter:	3.80 inches	Volume:	43.78 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	328.07 ft	Diameter:	2.25 inches	Volume:	1.61 bbl	
					Total Volume:	45.39 bbl	

Drill Pipe Above KB:	26.07 ft
Depth to Top Packer:	3450.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	12.00 ft
Tool Length:	39.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		80000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	73000.00 lb
	Final	74000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3428.00		
Hydraulic tool	5.00			3433.00		
Jars	5.00			3438.00		
Safety Joint	2.00			3440.00		
Top Packer	5.00			3445.00		
Packer	5.00			3450.00	27.00	Bottom Of Top Packer
Anchor	7.00			3457.00		
Recorder	1.00	6749	Inside	3458.00		
Recorder	1.00	8938	Outside	3459.00		
Bullnose	3.00			3462.00	12.00	Anchor Tool
Total Tool Length:	**39.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18256 **DST#: 4**

Test Start: 2014.05.08 @ 18:10:00

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:	61.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.60 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

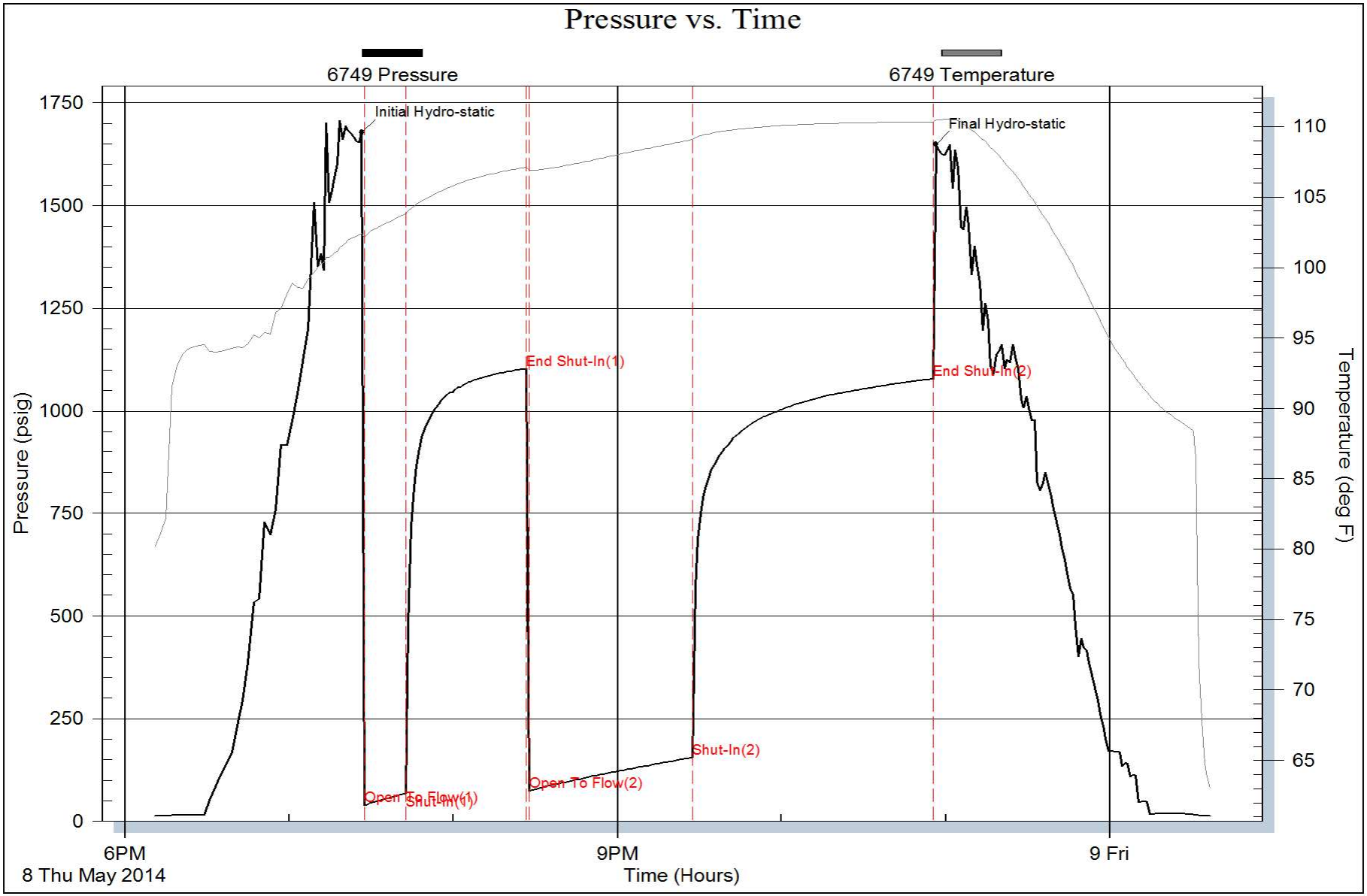
Recovery Table

Length ft	Description	Volume bbl
60.00	Oily Mud/Oil 30% Mud 70%	0.295
60.00	Muddy Oil/Mud 40% Oil 60%	0.295
195.00	Clean Oil 100%	0.959
0.00	Corrected Grav. Oil 32	0.000

Total Length: 315.00 ft Total Volume: 1.549 bbl

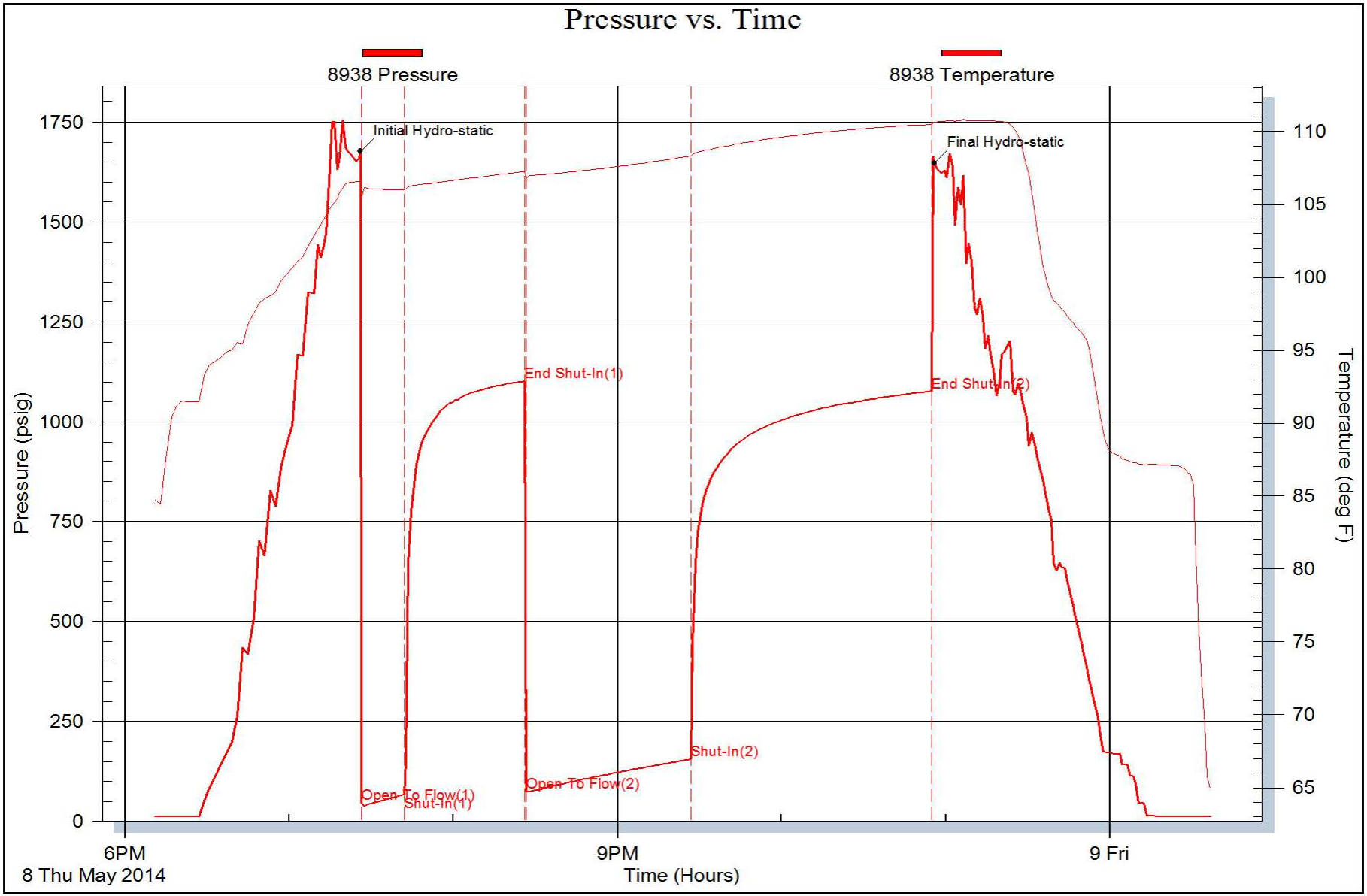
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6749 **Inside** Shelby Resources LLC Nancy 3-17 DST Test Number: 4



Superior Testers Enterprises LLC Ref. No: 18256 Printed: 2014.05.09 @ 00:59:35

Serial #: 8938 **Outside** Shelby Resources LLC Nancy 3-17 DST Test Number: 4



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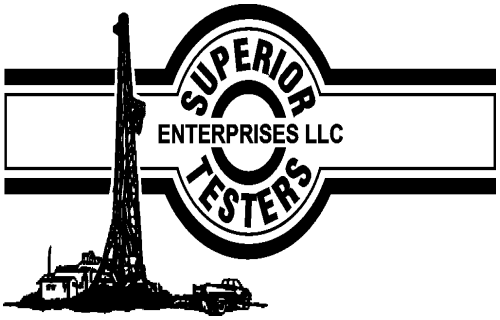


DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Boulevard
Suite C
Hays, Kansas 67601

ATTN: Jeremy Schwartz

Nancy 3-17

17/17S/13W/Barton

Start Date: 2014.05.09 @ 06:24:00

End Date: 2014.05.09 @ 13:08:30

Job Ticket #: 18257 DST #: 5

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2014.05.09 @ 13:29:16

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18257 **DST#: 5**

Test Start: 2014.05.09 @ 06:24:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:50:30
Time Test Ended: 13:08:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/32

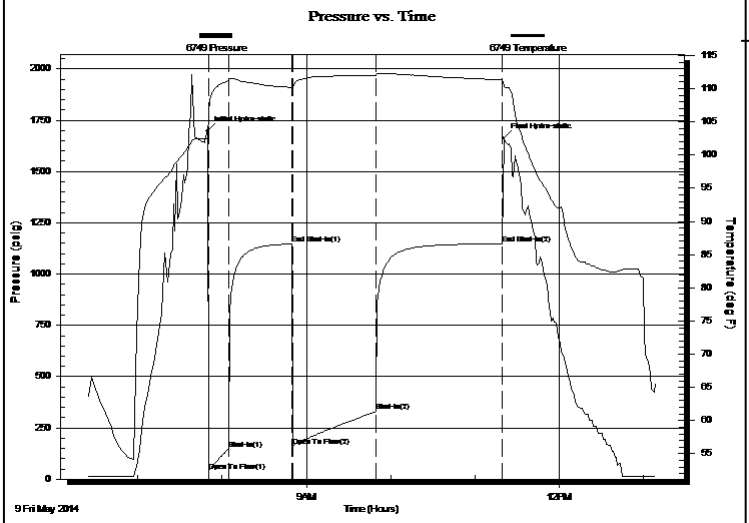
Interval: 3462.00 ft (KB) To 3468.00 ft (KB) (TVD)
Total Depth: 3468.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6749 **Inside**
Press@RunDepth: 328.99 psig @ 3464.00 ft (KB)
Start Date: 2014.05.09 End Date: 2014.05.09
Start Time: 06:24:00 End Time: 13:08:30

Capacity: 5000.00 psig
Last Calib.: 2014.05.09
Time On Btm: 2014.05.09 @ 07:49:30
Time Off Btm: 2014.05.09 @ 11:20:30

TEST COMMENT: 1ST Open 15 Minutes/Good blow/Blow built to bottom of bucket in 10 minutes
1ST Shut In 45 Minutes/Very weak surface blow back
2ND Open 60 Minutes/Good blow/Blow built to botttom of bucket in 12 minutes
2ND Shut In 90 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1698.18	102.49	Initial Hydro-static
1	39.85	106.35	Open To Flow (1)
15	146.77	111.18	Shut-In(1)
60	1147.19	110.20	End Shut-In(1)
61	159.41	110.11	Open To Flow (2)
120	328.99	112.01	Shut-In(2)
210	1148.35	111.34	End Shut-In(2)
211	1663.88	110.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	Slighly Mud cut Water with show of Oil	5.71
0.00	Mud 2% Water 98%	0.00
93.00	Clean Oil 100%	1.30
0.00	Corrected Grav. Oil 31	0.00
0.00	Recov. Resist. .21 ohms @75 deg	0.00
0.00	Recov. Chlorides 19,000 ppm	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18257 **DST#: 5**

Test Start: 2014.05.09 @ 06:24:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:50:30
Time Test Ended: 13:08:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/32

Interval: 3462.00 ft (KB) To 3468.00 ft (KB) (TVD)
Total Depth: 3468.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

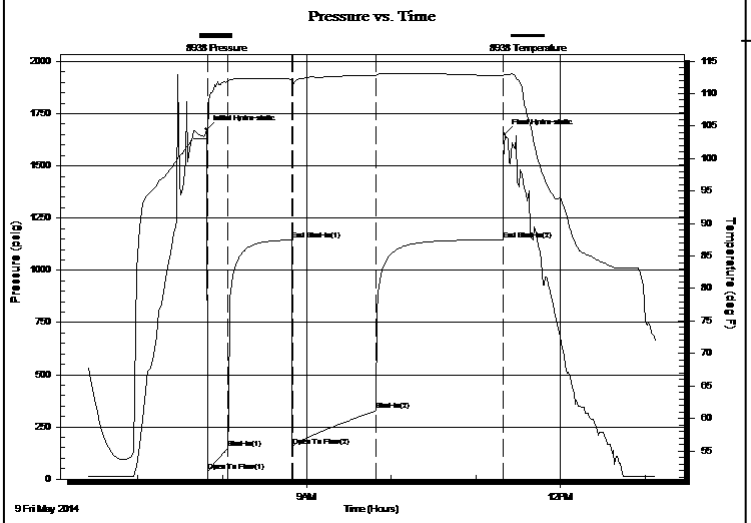
Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8938 **Outside**

Press@RunDepth: 1147.53 psig @ 3465.00 ft (KB)
Start Date: 2014.05.09 End Date: 2014.05.09
Start Time: 06:24:00 End Time: 13:08:00

Capacity: 5000.00 psig
Last Calib.: 2014.05.09
Time On Btm: 2014.05.09 @ 07:48:30
Time Off Btm: 2014.05.09 @ 11:20:30

TEST COMMENT: 1ST Open 15 Minutes/Good blow /Blow built to bottom of bucket in 10 minutes
1ST Shut In 45 Minutes/Very weak surface blow back
2ND Open 60 Minutes/Good blow /Blow built to botttom of bucket in 12 minutes
2ND Shut In 90 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1675.21	103.05	Initial Hydro-static
1	35.67	103.01	Open To Flow (1)
16	146.53	111.88	Shut-In(1)
61	1146.23	112.22	End Shut-In(1)
62	158.14	111.57	Open To Flow (2)
121	328.02	112.80	Shut-In(2)
211	1147.53	112.75	End Shut-In(2)
212	1652.07	112.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	Slighly Mud cut Water with show of Oil	5.71
0.00	Mud 2% Water 98%	0.00
93.00	Clean Oil 100%	1.30
0.00	Corrected Grav. Oil 31	0.00
0.00	Recov. Resist. .21 ohms @75 deg	0.00
0.00	Recov. Chlorides 19,000 ppm	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18257 **DST#: 5**

Test Start: 2014.05.09 @ 06:24:00

Tool Information

Drill Pipe:	Length:	3121.00 ft	Diameter:	3.80 inches	Volume:	43.78 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:	328.07 ft	Diameter:	2.25 inches	Volume:	1.61 bbl	Weight to Pull Loose:		80000.00 lb
					Total Volume:	45.39 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		9.07 ft					String Weight:	Initial	71000.00 lb
Depth to Top Packer:		3462.00 ft						Final	73000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		6.00 ft							
Tool Length:		28.00 ft							
Number of Packers:		1	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			3445.00		
Hydraulic tool	5.00			3450.00		
Jars	5.00			3455.00		
Safety Joint	2.00			3457.00		
Packer	5.00			3462.00	22.00	Bottom Of Top Packer
Anchor	1.00			3463.00		
Recorder	1.00	6749	Inside	3464.00		
Recorder	1.00	8938	Outside	3465.00		
Bullnose	3.00			3468.00	6.00	Anchor Tool
Total Tool Length:	**28.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18257 **DST#: 5**

Test Start: 2014.05.09 @ 06:24:00

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:	68.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4400.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

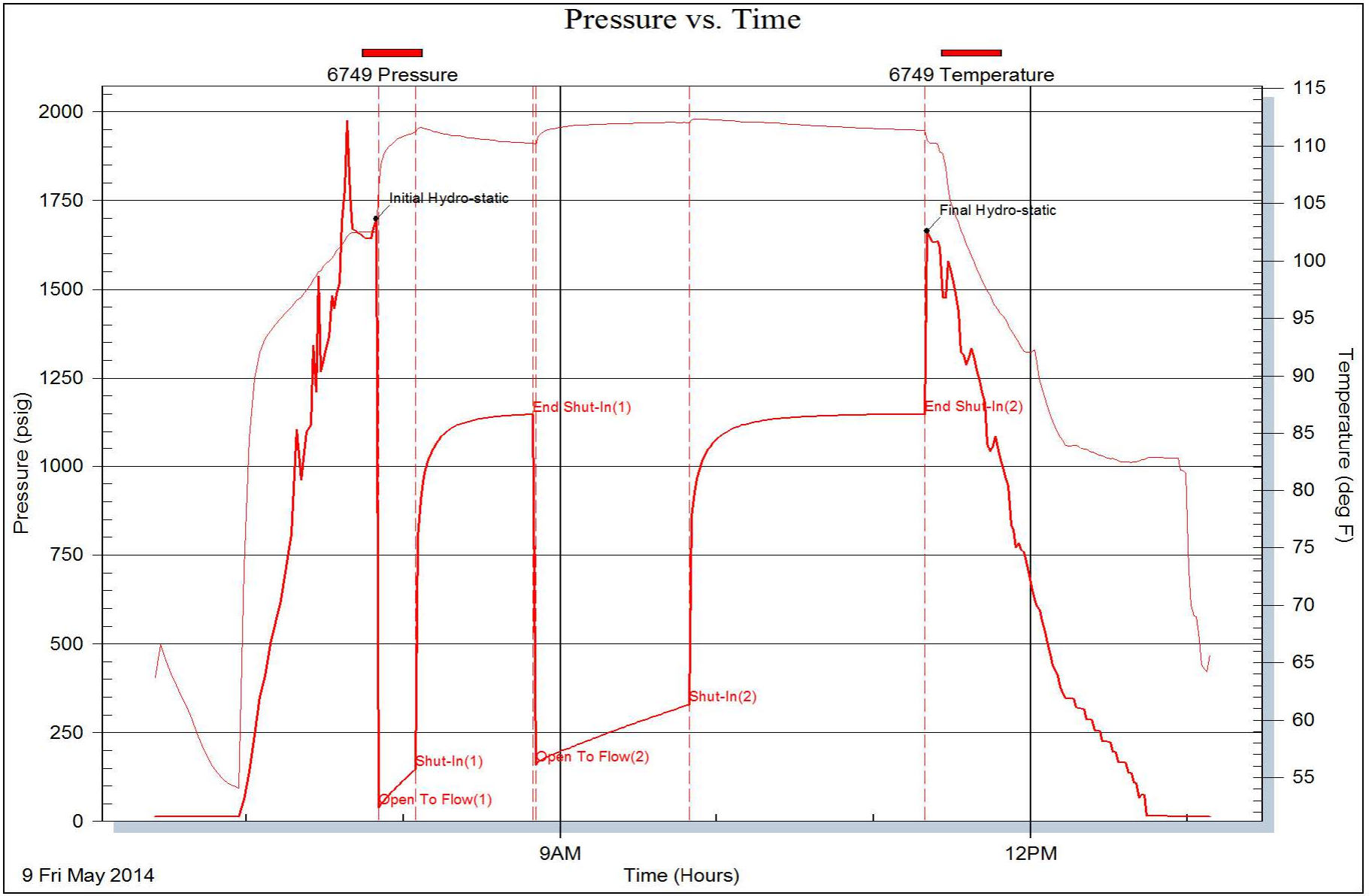
Recovery Table

Length ft	Description	Volume bbl
620.00	Slighly Mud cut Water with show of Oil	5.708
0.00	Mud 2% Water 98%	0.000
93.00	Clean Oil 100%	1.305
0.00	Corrected Grav. Oil 31	0.000
0.00	Recov. Resist. .21 ohms @75 deg	0.000
0.00	Recov. Chlorides 19,000 ppm	0.000

Total Length: 713.00 ft Total Volume: 7.013 bbl

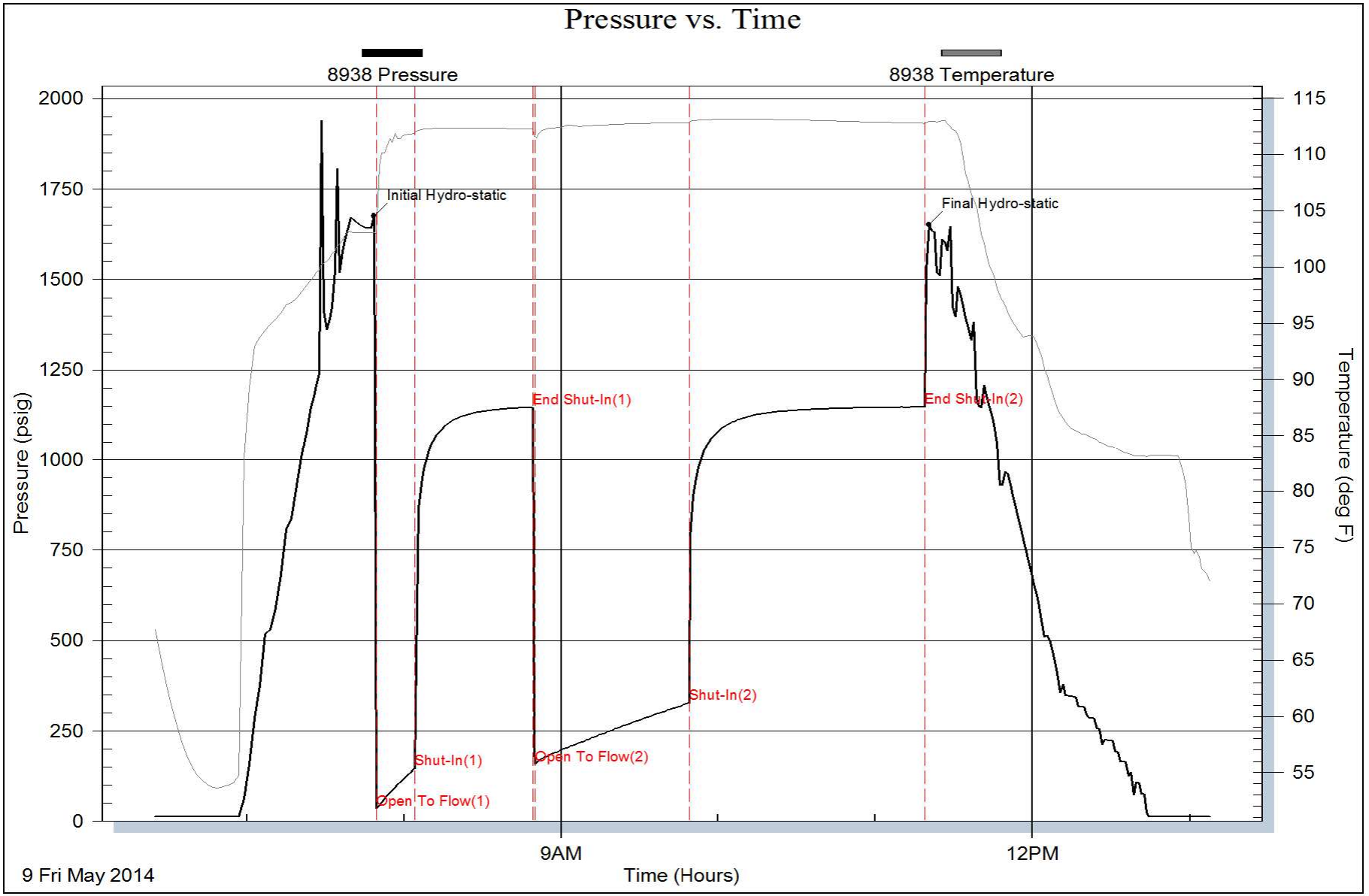
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6749 **Inside** Shelby Resources LLC Nancy 3-17 DST Test Number: 5



Superior Testers Enterprises LLC Ref. No: 18257 Printed: 2014.05.09 @ 13:29:16

Serial #: 8938 **Outside** Shelby Resources LLC Nancy 3-17 DST Test Number: 5



Superior Testers Enterprises LLC Ref. No: 18257 Printed: 2014.05.09 @ 13:29:16

Scale 1:240 Imperial

Well Name:	Nancy #3-17		
Surface Location:	2146' FNL _1701' FWL Sec 17-17S-13W		
Bottom Location:			
API:	15-009-25969-00-00		
License Number:			
Spud Date:	5/2/2014	Time:	7:45 PM
Region:	Barton County		
Drilling Completed:	5/9/2014	Time:	6:50 PM
Surface Coordinates:	Y = 694524 & X = 1917760		
Bottom Hole Coordinates:			
Ground Elevation:	1965.00ft		
K.B. Elevation:	1978.00ft		
Logged Interval:	2800.00ft	To:	3525.00ft
Total Depth:	3525.00ft		
Formation:	Lansing-Kansas City		
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:	Nancy #3-17		
Location:	2146' FNL _1701' FWL Sec 17-17S-13W	API:	15-009-25969-00-00
Pool:		Field:	Trapp
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 Nancy #3-17 was drilled to a total depth of 3525', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

5 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 furthur test the well through production pipe. The dry samples were saved and will be available for furthur 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: Latitude:
N/S Co-ord: Y = 694524
E/W Co-ord: X = 1917760

CONTRACTOR

Contractor: Sterling Drilling Co
Rig #: 5
Rig Type: mud rotary
Spud Date: 5/2/2014 Time: 7:45 PM
TD Date: 5/9/2014 Time: 6:50 PM
Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1978.00ft Ground Elevation: 1965.00ft
K.B. to Ground: 13.00ft

DATE	DEPTH	ACTIVITY
Tuesday, May 06, 2014	3050'	Geologist Jeremy Schwartz on location @ 0700hrs, DRLG ahead through King Hill,
		Queen Hill, Heebner, Toronto, Douglas, Brown Lime, LKC, CFS @ 3250', DRLG ahead
		CFS @ 3260, Short Trip, Strap Out, Drop Survey, Conduct DST #1
Wednesday, May 07, 2014	3260'	Successful Test, DRLG ahead, CFS @ 3278', DRLG ahead, CFS @ 3283'
	3283'	Conduct DST #2 In LKC "D-F', Successful Test, DRLG ahead
Thursday, May 08, 2014	3345'	DRLG ahead through LKC, CFS @ 3455', Conduct DST #3 in the Arbuckle
	3455'	Successful test, DRLG ahead, CFS @ 3462', Conduct DST #4 in the Arbuckle,
Friday, May 09, 2014	3462'	Successful Test, DRLG ahead, CFS @ 3468', Conduct DST #5 in the Arbuckle,
	3468'	Successful Test, DRLG ahead, TD @ 3525' reached at 1850hrs, Conduct Logging Ops
Saturday, May 10, 2014	3525'	Logging Operations Complete @ 0245hrs
		Geologist Jeremy Schwartz off location @ 0330hrs

CLIENT:	SHELBY RESOURCES, LLC
WELL NAME:	NANCY #3-17
LEGAL:	2146' FNL & 1701' FWL 17-17S-13W
COUNTY:	BARTON
API :	15-009-25969-0000
DRLG CONTRACTOR:	STERLING DRILLING CO.
RIG #:	5
DOGHOUSE #:	620-388-5433
TOOLPUSHER:	ALAN LOFTIS
CELL #:	620-388-2736

	NANCY #3-17 NE SW SE NW KB 1978				SHELBY RESOURCES, LLC NANCY #2-17 C SW SW NW 17-17S-13W KB 1997						SHELBY RESOURCES, LLC NANCY #1-17 C N/2 SW NW 17-17S-13W KB 1992						SHELBY RESOURCES, LLC HOFFMAN #1-18 C S/2 NE 18-17S-13W KB 1945					
	LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG CORR.		SMPL. CORR.		COMP. CARD		LOG CORR.		SMPL. CORR.		COMP. CARD		LOG CORR.		SMPL. CORR.	
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM					DEPTH	DATUM					DEPTH	DATUM				
ANHYDRITE TOP	916	1062	916	1062	939	1058	+	4	+	4	928	1064	-	2	-	2	890	1055	+	7	+	7
BASE	944	1034	945	1033	965	1032	+	2	+	1	956	1036	-	2	-	3	917	1028	+	6	+	5
KING HILL	2978	-1000	2978	-1000	2994	-997	-	3	-	3	2986	-994	-	6	-	6	2942	-997	-	3	-	3
QUEEN HILL	3042	-1064	3043	-1065	3059	-1062	-	2	-	3	3050	-1058	-	6	-	7	3005	-1060	-	4	-	5
HEEBNER SHALE	3129	-1151	3130	-1152	3146	-1149	-	2	-	3	3138	-1146	-	5	-	6	3092	-1147	-	4	-	5
TORONTO	3144	-1166	3148	-1170	3163	-1166	+	0	-	4	3156	-1164	-	2	-	6	3109	-1164	-	2	-	6
DOUGLAS SHALE	3157	-1179	3155	-1177	3173	-1176	-	3	-	1	3166	-1174	-	5	-	3	3119	-1174	-	5	-	3
BROWN LIME	3212	-1234	3210	-1232	3229	-1232	-	2	+	0	3218	-1226	-	8	-	6	3173	-1228	-	6	-	4
LKC	3219	-1241	3218	-1240	3238	-1241	+	0	+	1	3228	-1236	-	5	-	4	3182	-1237	-	4	-	3
LKC G	3292	-1314	3292	-1314	3309	-1312	-	2	-	2	3300	-1308	-	6	-	6	3250	-1305	-	9	-	9
MUNCIE CREEK	3344	-1366	3344	-1366	3365	-1368	+	2	+	2	3354	-1362	-	4	-	4	3309	-1364	-	2	-	2
LKC H	3349	-1371	3349	-1371	3372	-1375	+	4	+	4	3361	-1369	-	2	-	2	3316	-1371	+	0	+	0
STARK SHALE	3402	-1424	3403	-1425	3425	-1428	+	4	+	3	3413	-1421	-	3	-	4	3369	-1424	+	0	-	1
BKC	3428	-1450	3426	-1448	3452	-1455	+	5	+	7	3438	-1446	-	4	-	2	3397	-1452	+	2	+	4
RE-WORKED ARB	3436	-1458	3436	-1458																		
ARBUCKLE	3455	-1477	3455	-1477	3473	-1476	-	1	-	1	3476	-1484	+	7	+	7	3412	-1467	-	10	-	10
RTD			3525	-1547							3539	-1547			+	0	3525	-1580			+	33
LTD	3528	-1550			3476	-1479	-	71			3537	-1545	-	5			3526	-1581	+	31		
					TESTED						TESTED						TESTED					
					DST #1 (3236-3300) LKC "A-D"						DST #1 (3228 - 3287) LKC A-D						DST #1 (3176-3237) LKC A-D					
					15-60-60-120						15-60-60-120						IF BOB 2M					
					Good Blow BOB 3:45SEC						1ST OPEN STRONG - BOB 3MIN						FF - BOB <1M					
					BB built to 6IN						BB BOB 7MIN						BOB BLO BKS					

PROGNOSIS		
ANHYDRITE TOP	920	1058
HEEBNER SHALE	3125	-1147

LKC	3218	-1240
BKC	3425	-1447
ARBUCKLE	3464	-1486
RTD	3550	-1572

Good Blow BOB 5MIN, GTS 45MIN
BB BOB 6MIN
864' CGO (70%O, 30%G)
SIP: 566-567

DST #2 (3297-3321) LKC "F-G"
15-60-60-120
Good Blow BOB 9MIN
No BB
Godd Blow BOB 10:30SEC
No BB
630' GIP, 437' CGO, 63' OMCW
SIP: 513-511

DST #3 (3355-3455) LKC "H-K"
15-45-60-90
Fair Blow built to 2.5IN
No BB
Fair Blow Built to 5IN
No BB
97' Mud
SIP: 735-711

DST #4 (3449-3485) Arbuckle
15-45-20
Weak Surface Blow
No BB
No Blow, Flushed Tool, Pull Test
5' MUD
SIP: 982-53

2ND OPEN STRONG BOB 3.5MIN/GTS 45MIN
BB BOB 4MIN
504' MCOG (G 50%, O 40%, M 10%)
300' MCGO (O 75%, G 20%, M 5%)
SIP: 639 - 664

DST #2 (3287 - 3312) LKC F-G
15-60-60-120
1ST OPEN STRONG - BOB 9MIN
BB BUILT TO 1IN
2ND OPEN STRONG - BOB 2MIN
BB BUILT TO 3IN
156' CGO (O 75%, G 30%)
126' GMO (0 40%, M 40%, G 20%)
SIP: 640 - 636

DST #3 (3335 - 3452) LKC H-K
15-60-10
1ST OPEN WEAK - BUILT TO 1/2IN
NO BB
2ND OPEN DEAD
15'M
SIP: 936 - N/A

1980' OIL, 120' OGCM
982# / 1038#

DST #2 (3238-3261) LKC F-G
IF BOB 1M, BL BK BOB
FF - BOB 1M, BL BK BOB
970' CGO, 60' OCM
780# / 718#

DST #3 (3300-3390)
IF FAIR TO BOB 3M, BOB BL BK
FF - BOB 1M, GTSD 55M
FSI BOB BL BK
1380' CO, 120'OCM
1113# / 1122#

DST #4 (3388-3422) ARBUCKLE
IF WK TO 7", WK BLO BK
FF - WK TO 10" - NO BLO BK
230' CO, 90'OCM
1101# / 1086#

DST #5(3423-3444) ARBUCKLE
IF GOOD TO BOB 2M, WK BLO BK
FF - GOOD TO BOB 3M, NO BLO BK
15' CO, 1500' WTR W/ TR OIL
60' WCM
1146# / 1142#

ROCK TYPES

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

ACCESSORIES

FOSSIL
Bioclastic or Fragmental

STRINGER
Chert
Limestone

TEXTURE
Chalky

OTHER SYMBOLS

MISC
Daily Report
Digital Photo
Document
Folder
Link
Vertical Log File
Horizontal Log File
Core Log File
Drill Cuttings Rpt

Oil Show
Good Show
Fair Show 50-75
Poor Show 25-50
Spotted or Trace 1-25
Questionable Stn
Dead Oil Stn
Fluorescence
Gas

DST
DST Int
DST alt

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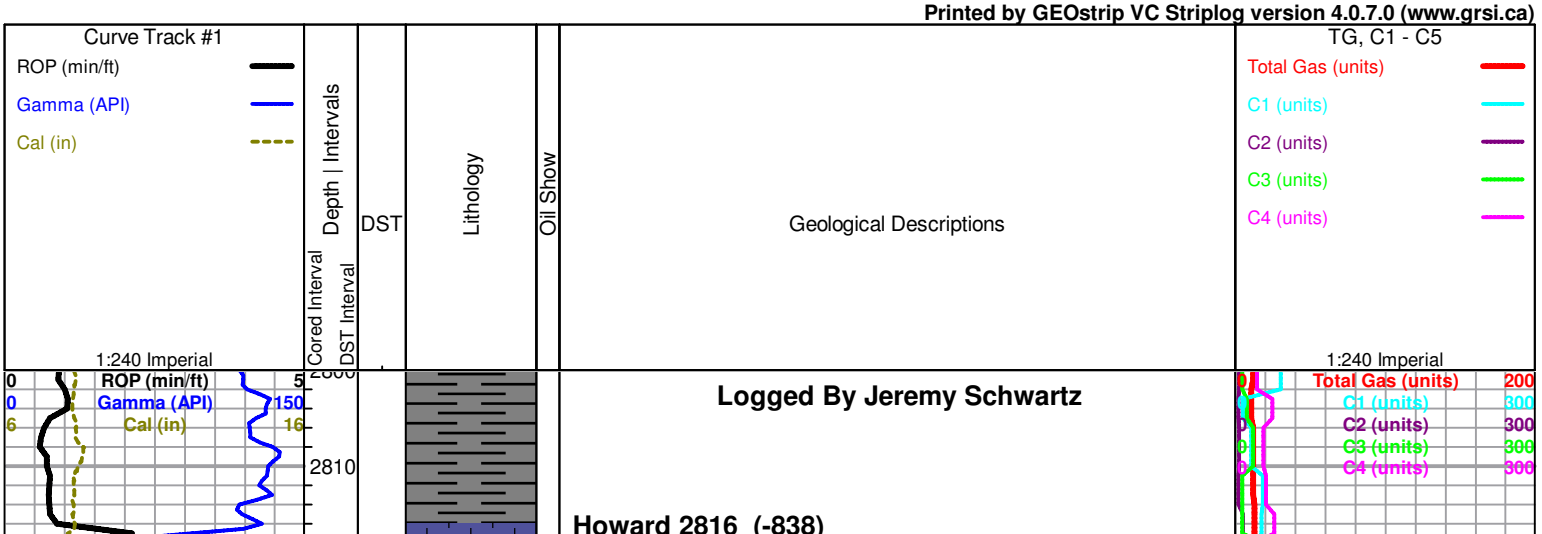
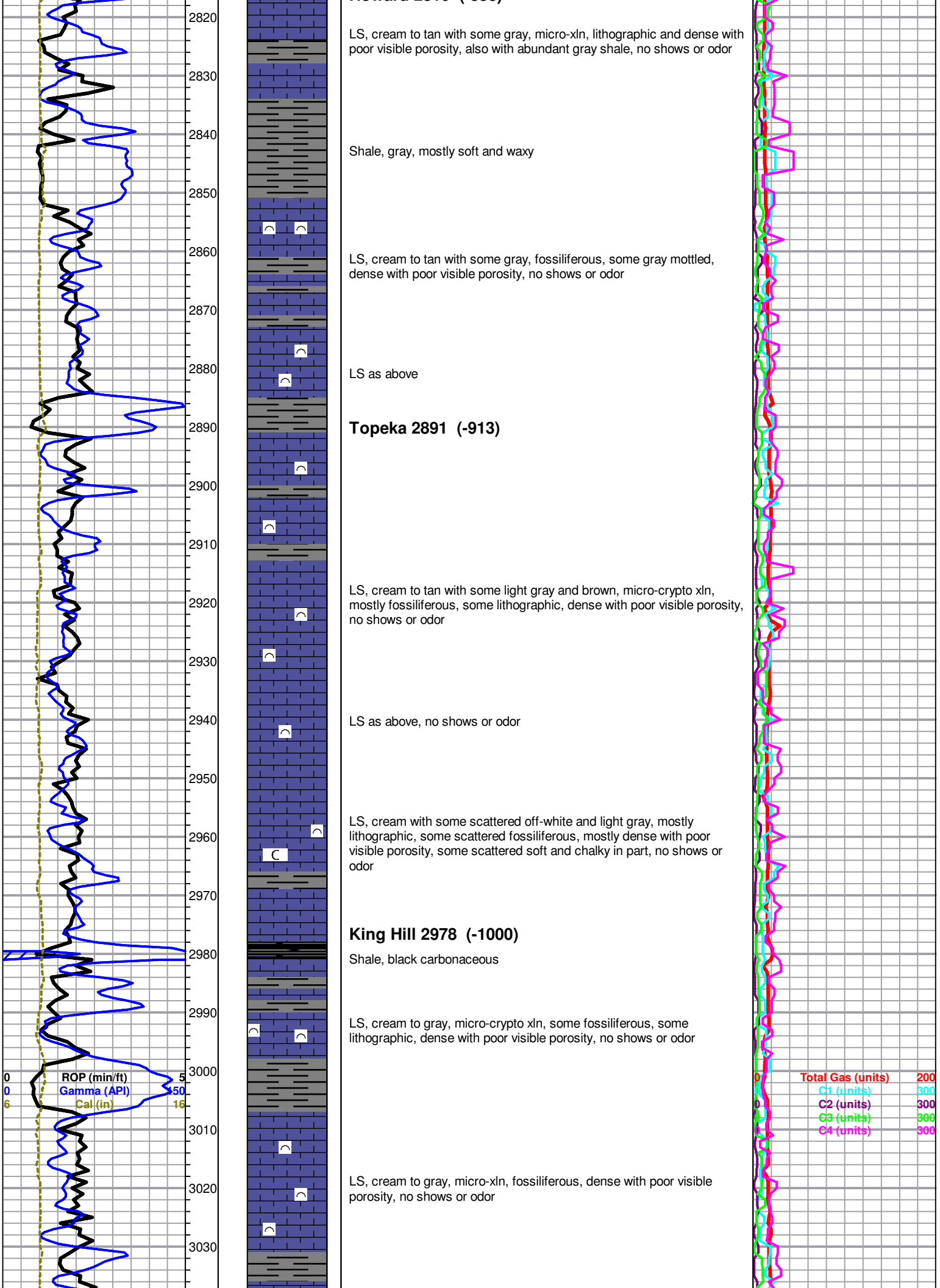




LS, cream to tan with some gray, micro-xln, lithographic and dense with poor visible porosity, also with abundant gray shale, no shows or odor

Shale, gray, mostly soft and waxy

LS, cream to tan with some gray, fossiliferous, some gray mottled, dense with poor visible porosity, no shows or odor

LS as above

Topeka 2891 (-913)

LS, cream to tan with some light gray and brown, micro-crypto xln, mostly fossiliferous, some lithographic, dense with poor visible porosity, no shows or odor

LS as above, no shows or odor

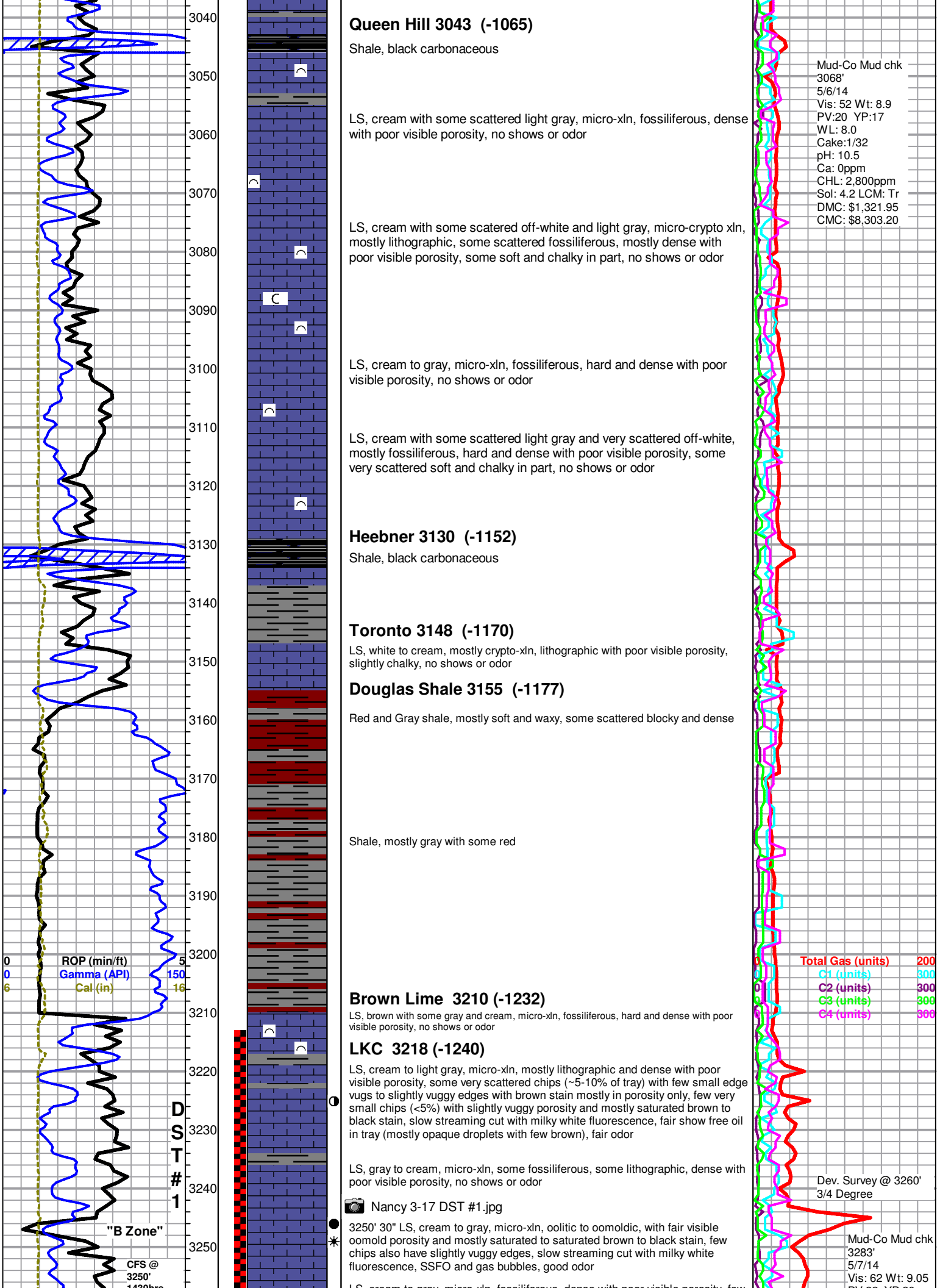
LS, cream with some scattered off-white and light gray, mostly lithographic, some scattered fossiliferous, mostly dense with poor visible porosity, some scattered soft and chalky in part, no shows or odor

King Hill 2978 (-1000)

Shale, black carbonaceous

LS, cream to gray, micro-crypto xln, some fossiliferous, some lithographic, dense with poor visible porosity, no shows or odor

LS, cream to gray, micro-xln, fossiliferous, dense with poor visible porosity, no shows or odor


3040
3050
3060
3070
3080
3090
3100
3110
3120
3130
3140
3150
3160
3170
3180
3190
3200
3210
3220
3230
3240
3250
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16
DST #1
"B Zone"
CFS @ 3250' 1430hrs
Queen Hill 3043 (-1065)
Shale, black carbonaceous
LS, cream with some scattered light gray, micro-xln, fossiliferous, dense with poor visible porosity, no shows or odor
LS, cream with some scatered off-white and light gray, micro-crypto xln, mostly lithographic, some scattered fossiliferous, mostly dense with poor visible porosity, some soft and chalky in part, no shows or odor
LS, cream to gray, micro-xln, fossiliferous, hard and dense with poor visible porosity, no shows or odor
LS, cream with some scattered light gray and very scattered off-white, mostly fossiliferous, hard and dense with poor visible porosity, some very scattered soft and chalky in part, no shows or odor
Heebner 3130 (-1152)
Shale, black carbonaceous
Toronto 3148 (-1170)
LS, white to cream, mostly crypto-xln, lithographic with poor visible porosity, slightly chalky, no shows or odor
Douglas Shale 3155 (-1177)
Red and Gray shale, mostly soft and waxy, some scattered blocky and dense
Shale, mostly gray with some red
Brown Lime 3210 (-1232)
LS, brown with some gray and cream, micro-xln, fossiliferous, hard and dense with poor visible porosity, no shows or odor
LKC 3218 (-1240)
LS, cream to light gray, micro-xln, mostly lithographic and dense with poor visible porosity, some very scattered chips (~5-10% of tray) with few small edge vugs to slightly vuggy edges with brown stain mostly in porosity only, few very small chips (<5%) with slightly vuggy porosity and mostly saturated brown to black stain, slow streaming cut with milky white fluorescence, fair show free oil in tray (mostly opaque droplets with few brown), fair odor
LS, gray to cream, micro-xln, some fossiliferous, some lithographic, dense with poor visible porosity, no shows or odor
Nancy 3-17 DST #1.jpg
3250' 30" LS, cream to gray, micro-xln, oolitic to oomoldic, with fair visible oomold porosity and mostly saturated to saturated brown to black stain, few chips also have slightly vuggy edges, slow streaming cut with milky white fluorescence, SSFO and gas bubbles, good odor
Mud-Co Mud chk
3068'
5/6/14
Vis: 52 Wt: 8.9
PV:20 YP:17
WL: 8.0
Cake:1/32
pH: 10.5
Ca: 0ppm
CHL: 2,800ppm
Sol: 4.2 LCM: Tr
DMC: $1,321.95
CMC: $8,303.20
0 Total Gas (units) 200
0 C1 (units) 300
0 C2 (units) 300
0 C3 (units) 300
0 C4 (units) 300
Dev. Survey @ 3260'
3/4 Degree
Mud-Co Mud chk
3283'
5/7/14
Vis: 62 Wt: 9.05

1430hrs
5/6/14

DST #2

CFS @ 3278'
0845hrs
5/7/14

CFS @
3283'
1000hrs
5/7/14

"G"

CFS @
3303'
2025hrs
5/7/14

MUNCIE CREEK

"H"

0 BOP (min/in) 5
0 Gamma (API) 150
2 Depth (in) 10

DST #3

CFS @
3455'
0525hrs
5/8/14

CFS @
3462'
1505hrs
5/8/14

CFS @
3468'
0345hrs
5/9/14

DST #4 & #

3260 3270 3280 3290 3300 3310 3320 3330 3340 3350 3360 3370 3380 3390 3400 3410 3420 3430 3440 3450 3460 3470

LS, cream to gray, micro-xln, fossiliferous, dense with poor visible porosity, few very scattered chips (~5% of tray) with several very small vugs to slightly vuggy edges and poor black to very light golden brown stain in vugs only, NSFO, poor odor

Nancy 3-17 DST #2.jpg

3278' 30 & 60" LS, cream to gray, micro-xln, fossiliferous, dense with poor visible porosity, few chips (<5% of tray) with several very small vugs and poor very light golden brown stain mostly in vugs only, weak cut with dull flourescence, poor odor

3283' 30" LS, cream to gray, micro-xln, fossiliferous, mostly dense with poor visible porosity, few chips (~5% of tray) with small scsattered vugs to slightly vuggy edges and scattered very light golden brown stain in and around vugs, stain increases in color to brown when left under lamp for several minutes, slow streaming cut with milky white fluorescence, NSFO, slight show gas bubbles in tray, poor odor

60" Mostly same as above, slight increase in shows (~5-10%), upon break few chips have slight show free oil, poor odor in tray

3303' 30 LS, cream with some scattered light gray, micro-xln, mix of dense with poor visible porosity and soft and chalky in part, some scattered sub-oolitic to sub-oomoldic with poor visible porosity, very chalky with heavy chalky wash, no shows or odor

60" Mostly same as above, with slight influx in sub-oomoldic to oomoldic, mostly dense with poor visible porosity, few chips with fair visible oomold porosity, barren, very chalky, no shows or odor

3310' LS as above, very chalky, no shows or odor

3320' LS, cream to gray, micro-xln, some lithographic, some scattered sub-oolitic to sub-oomoldic, dense with poor visible porosity, chalky, no shows or odor

3330' LS, gray to cream with some scattered brown, micro-xln, some lithographic, some slightly fossiliferous, dense with poor visible porosity, slightly chalky, no shows or odor

3340' LS, gray with some scattered cream and brown, micro-xln, mostly lithographic, some slightly fossiliferous, dense with poor visible porosity, no shows or odor

3350' LS, gray to cream, micro-xln, fossiliferous and dense with poor visible porosity, no shows or odor

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

LS, cream, micro-xln, lithographic and dense with poor visible porosity, few chips (<5% of tray) with one to two small edge vugs and dead black to poor brown stain in vugs only, very weak to no cut, no odor

LS, cream with some scattered gray, micro-xln, mostly lithographic and dense with poor visible porosity, some soft and chalky in part, no shows or odor

LS, cream, micro-xln, mostly lithographic and dense with some soft and chalky, few chips (<5% of tray) oomoldic with poor visible porosity and dead black to brown stain in oomolds and partly in matrix around oomolds, very weak to no cut, poor fleeting odor in cup

Stark Shale 3403 (-1425)

LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, some soft and chalky, few very scattered chips (~5-10% of tray) with one to two small vugs with poor black to brown stain in vugs only and partly in matrix around vugs in few chips, upon break one chip has very slight show free oil, very slow weak cut, poor odor

LS, cream, micro-xln, mostly lithograohic and dense, some scattered slightly fossiliferous and also some scattered soft and chalky, few scattered chips (~10% of tray) with poor to fair vf pinpoint porosity and one to two small vugs with poor stain as above, found several small chips (<5% of tray) mostly saturated to saturated brown stain, instant cut with bright white fluorescence, poor odor in cup

BKC 3426 (-1448)

LS, cream, mostly lithographic and dense with poor visible porosity, also with some gray shale and very scattered orange to tan and opaque chert, no shows or odor

Re-worked Arbuckle 3436 (-1458)

Nancy 3-17 DST #3.jpg

Dolomite, cream to tan, micro-xln, mostly hard and dense with poor visible porosity, some scattered (~20%) with vf pinpoint porosity to sub-sucrosic with scattered to mostly saturated brown to black stain, few chips saturated, few chips also with one to two very small vugs and slowly bleeding oil droplets when left under lamp for several minutes, instant streaming cut with bright white fluorescence, fair show free oil in tray, fair odor

Clean Arbuckle Dolomite 3455 (-1477)

3455' 30" Dolomite, mostly same as above with slightly less shows, also with some scattered chert, slightly chalky, fair show free oil in tray, fair odor

60" Dolomite, cream to tan, mostly dense with poor visible porosity, barren, few scatttered chips (~10%) with vf pinpoint porosity and scattered to mostly saturated brown to black stain, few chips (<5%) sub-sucrosic with poor to fair rhombic development and scattered black stain, slow streaming cut with milky white fluorescence, SSFO, fair odor

3462' 30" Dolomite, cream to light brown, micro-xln, some dense with poor visible

PV:22 YP:30
WL: 8.8
Cake:1/32
pH: 10.5
Ca: 0ppm
CHL: 4,200ppm
Sol: 4.8 LCM: 0
DMC: $889.45
CMC: $9,192.65

2C

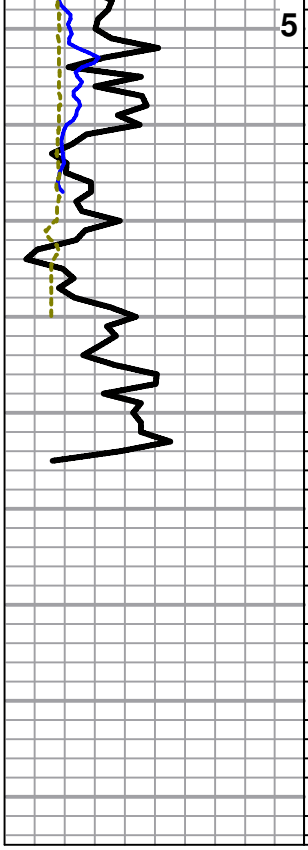
Total Gas (units) 300
C1 (units) 400
C2 (units) 400
C3 (units) 400
C4 (units) 400

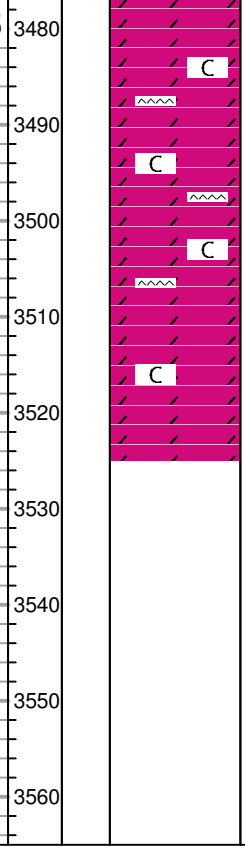
Trip Gas from DST #2

0 Total Gas (units) 300
C1 (units) 400
C2 (units) 400
C3 (units) 400
C4 (units) 400

Dev. Survey
@ 3462'
3/4 Degree

Mud-Co Mud chk
3455'
5/8//14
Vis: 61 Wt: 9.25
PV:20 YP:22
WL: 7.6
Cake:1/32
pH: 10.5
Ca: 40ppm
CHL: 4,500ppm
Sol: 6.5 LCM: 0
DMC: $0.00
CMC: $9,192.65





porosity, some (~30%) sub-sucrosic with scattered brown to black stain, few scattered chips (~5-10%) with fair to good rhombic development and slightly vuggy to fair vuggy porosity with mostly saturated to saturated brown stain, one chip oomoldic with good oomold/vuggy porosity, instant cut with bright white fluorescence, upon break few chips show fair to good inter-xln porosity and slight to fair show free oil, SSFO in tray, fair odor

60" Mostly same as above, some hard and dense, some with fair rhombic development and scattered black stain, when left under lamp for several minutes chips slowly bleed oil to surface, upon break fair visible inter-xln porosity and fair show free oil with slight show gas bubbles coming from porosity, SSFO in tray, fair odor

Nancy 3-17 DST #4.jpg

3468' 30" Dolomite, cream to off-white, mostly dense and barren with poor visible porosity, some scattered (~25%) with few small vugs and poor brown stain in vugs only, some looks dead, also with some very scattered (~10%) off-white, med-xln, with poor to fair sub-rhombic to rhombic development and scattered black stain, some dense, some friable, upon break chips release slight to fair show free oil and show some scattered inter-xln staining, SSFO in tray, fair odor

60" Dolomite, cream, micro-xln, mostly dense and barren with poor visible porosity, some very scattered (~5%) off-white, med-xln, sub-rhombic to rhombic, some dense, some friable, upon break chips release fair show free oil, NSFO in tray, poor odor

Nancy 3-17 DST #5.jpg

~3480-3510 Dolomite, cream to tan with some scattered off-whitre, micro-xln, mostly hard and dense with poor visible porosity, some scattered sub-sucrosic with poor sub-rhombic devekopment, some with several small scattered vugs and poor residual dead brown to black stain in and around vugs, some very scattered white chert, slightly chalky, poor odor

3510-3525 Dolomite, cream to tan, micro-xln, mostly dense with poor visible porosity, barren, some very scattered sub-sucrosic with poor sub-rhombic development, slightly chalky, no shows or odor

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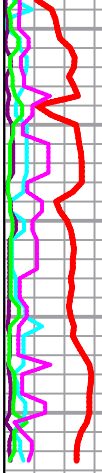
Rotary TD 3525' @ 1850hrs 5/9/14
Nabors Well Services Logging TD @ 3528'
Complete Logging Operations @ 0245hrs 5/10/14
Geologist Jeremy Schwartz off location @ 0330hrs 5/10/14



Mud-Co Mud chk
3468'
5/9/14
Vis: 68 Wt: 9.2
PV:25 YP:24
WL: 7.2
Cake:1/32
pH: 11.0
Ca: 20ppm
CHL: 4,400ppm
Sol: 6.2 LCM: 0
DMC: $323.00
CMC: $9,515.65

Dev. Survey
@ 3525'
3/4 Degree

Nancy 3-17 DST #1.jpg

SUPERIOR ENTERPRISES LLC TESTERS

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18253 **DST#: 1**

Test Start: 2014.05.06 @ 21:37:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:37:30
Time Test Ended: 04:43:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/

Interval: 3213.00 ft (KB) To 3260.00 ft (KB) (TVD)
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

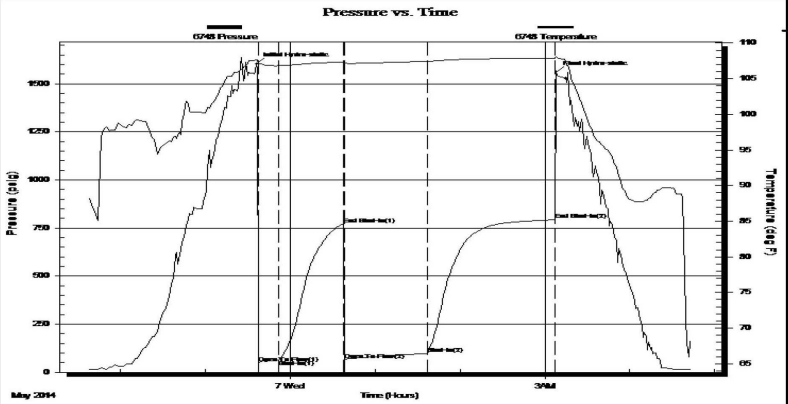
Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6748

Press@RunDepth: 98.02 psig @ ft (KB)
Start Date: 2014.05.06 End Date: 2014.05.07
Start Time: 21:37:00 End Time: 04:43:30

Capacity: 5000.00 psig
Last Calib.: 2014.05.07
Time On Btm: 2014.05.06 @ 23:36:00
Time Off Btm: 2014.05.07 @ 03:08:00

TEST COMMENT:
1ST Open 15 Minutes/Good blow /Blow built to bottom of bucket in 13 minutes
1ST Shut In 45 Minutes/No blow back
2ND Open 60 Minutes/Strong blow /Blow built to bottom of bucket in 30 seconds then slowed considerably
2ND Shut In 90 Minutes/Blow back built to 1/4 then died in 15 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1601.66	107.69	Initial Hydro-static
2	49.82	107.23	Open To Flow (1)
16	62.84	106.83	Shut-In(1)
62	770.68	107.35	End Shut-In(1)
63	63.11	107.18	Open To Flow (2)
121	98.02	107.44	Shut-In(2)
211	791.85	107.91	End Shut-In(2)
212	1559.65	108.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Oily Mud/Oil 20% Mud 80%	0.59
0.00	180 feet of gas in pipe	0.00

Gas Rates

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

Nancy 3-17 DST #2.jpg

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18254 **DST#: 2**

Test Start: 2014.05.07 @ 13:10:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:17:30
Time Test Ended: 16:59:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/32

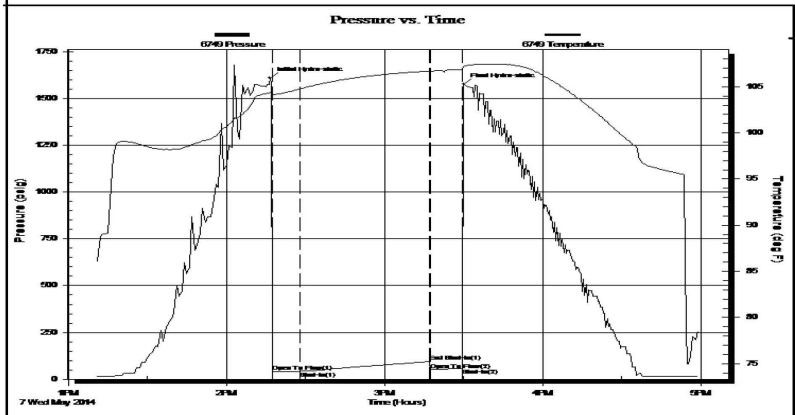
Interval: 3260.00 ft (KB) To 3283.00 ft (KB) (TVD)
Total Depth: 3283.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6749 **Inside**
Press@RunDepth: 42.77 psig @ 3279.00 ft (KB)
Start Date: 2014.05.07 End Date: 2014.05.07
Start Time: 13:10:00 End Time: 16:59:00

Capacity: 5000.00 psig
Last Calib.: 2014.05.07
Time On Btm: 2014.05.07 @ 14:16:30
Time Off Btm: 2014.05.07 @ 15:30:00

TEST COMMENT: 1ST Open 15 Minutes/Weak surface blow throughout/Blow did not build
1ST Shut In 45 Minutes/No blow back
2ND Open 10 Minutes/Dead no blow/Flush tool no help/Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1608.27	104.39	Initial Hydro-static
1	41.03	104.12	Open To Flow (1)
12	42.77	104.77	Shut-In(1)
61	94.43	106.69	End Shut-In(1)
61	50.71	106.69	Open To Flow (2)
73	56.21	106.86	Shut-In(2)
74	1575.92	107.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.00

Gas Rates

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

Nancy 3-17 DST #3.jpg

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18255 **DST#: 3**

Test Start: 2014.05.08 @ 08:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:16:00
Time Test Ended: 12:00:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/32

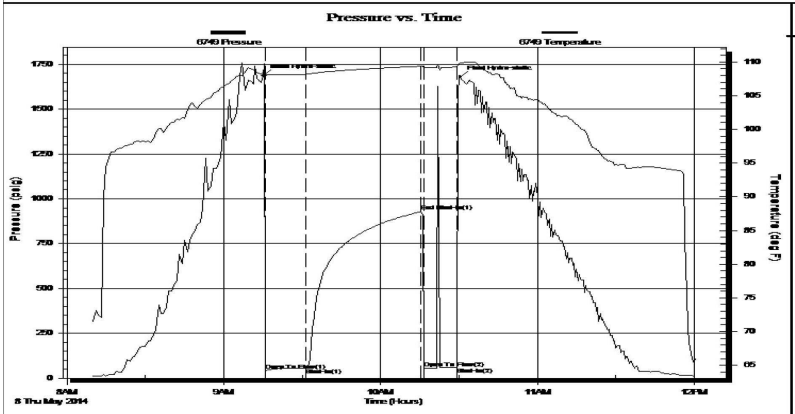
Interval: 3424.00 ft (KB) To 3455.00 ft (KB) (TVD)
Total Depth: 3455.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6749 **Inside**
Press@RunDepth: 56.70 psig @ 3451.00 ft (KB)
Start Date: 2014.05.08 End Date: 2014.05.08
Start Time: 08:09:00 End Time: 12:00:30

Capacity: 5000.00 psig
Last Calib.: 2014.05.08
Time On Btm: 2014.05.08 @ 09:15:00
Time Off Btm: 2014.05.08 @ 10:30:30

TEST COMMENT: 1ST Open 15 Minutes/Weak blow /Blow built to 3/4 inch
1ST Shut In 45 Minutes/No blow back
2ND Open 10 Minutes/Dead no blow /Flush tool no help/Pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.79	108.44	Initial Hydro-static
1	43.33	107.81	Open To Flow (1)
17	56.70	108.19	Shut-In(1)
61	929.45	109.37	End Shut-In(1)
62	56.85	109.18	Open To Flow (2)
74	59.42	109.26	Shut-In(2)
76	1679.14	109.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oily Mud/Oil 30% Mud 70%	0.07
15.00	Mud cut Oil/Mud 5% Oil 95%	0.07

Gas Rates

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

Nancy 3-17 DST #4.jpg

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18256 **DST#: 4**

Test Start: 2014.05.08 @ 18:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:27:30
Time Test Ended: 00:37:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/32

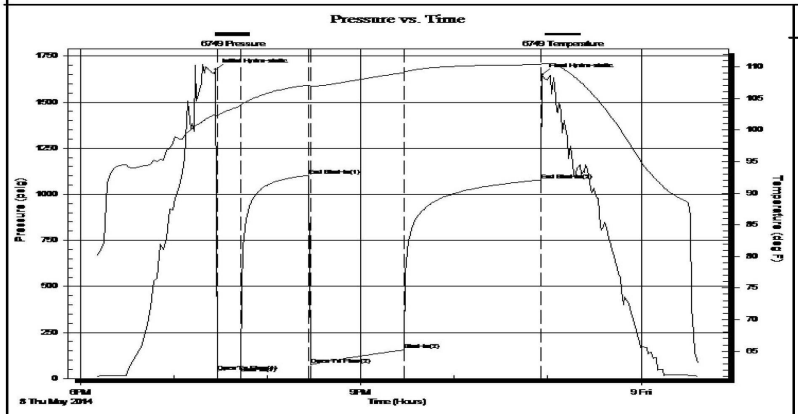
Interval: 3450.00 ft (KB) To 3462.00 ft (KB) (TVD)
Total Depth: 3462.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Poor

Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6749 **Inside**
Press@RunDepth: 155.71 psig @ 3458.00 ft (KB)
Start Date: 2014.05.08 End Date: 2014.05.09
Start Time: 18:10:00 End Time: 00:37:00

Capacity: 5000.00 psig
Last Calib.: 2014.05.09
Time On Btm: 2014.05.08 @ 19:26:30
Time Off Btm: 2014.05.08 @ 22:56:30

TEST COMMENT: 1ST Open 15 Minutes/Fair blow/Blow built to 6 inches
1ST Shut In 45 Minutes/No blow back
2ND Open 60 Minutes/Good blow/Blow built to 11 inches
2ND Shut In 90 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1676.95	102.42	Initial Hydro-static
1	39.13	102.16	Open To Flow (1)
16	67.35	103.83	Shut-In(1)
61	1102.99	107.11	End Shut-In(1)
61	74.29	106.91	Open To Flow (2)
121	155.71	109.06	Shut-In(2)
210	1077.81	110.33	End Shut-In(2)
210	1648.86	110.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Oily Mud/Oil 30% Mud 70%	0.30
60.00	Muddy Oil/Mud 40% Oil 60%	0.30
195.00	Clean Oil 100%	0.96
0.00	Corrected Grav. Oil 32	0.00

Gas Rates

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

Nancy 3-17 DST #5.jpg

DRILL STEM TEST REPORT

Shelby Resources LLC

2717 Canal Boulevard
Suite C
Hays, Kansas 67601
ATTN: Jeremy Schwartz

17/17S/13W/Barton

Nancy 3-17

Job Ticket: 18257 **DST#: 5**

Test Start: 2014.05.09 @ 06:24:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:50:30
Time Test Ended: 13:08:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Great Bend/32

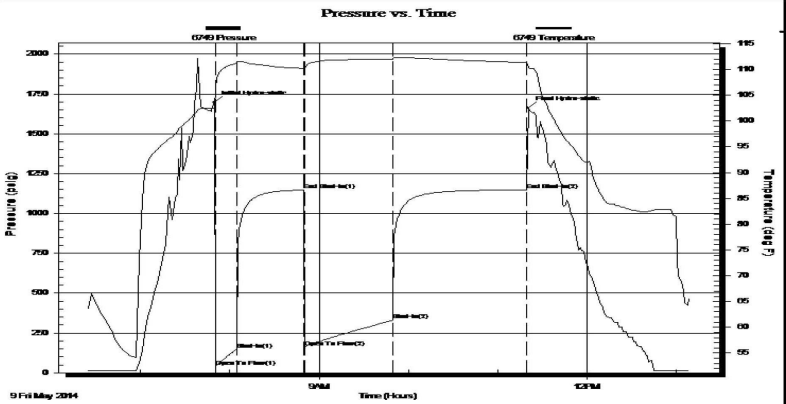
Interval: 3462.00 ft (KB) To 3468.00 ft (KB) (TVD)
Total Depth: 3468.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 1978.00 ft (KB)
1965.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 6749 **Inside**
Press@RunDepth: 328.99 psig @ 3464.00 ft (KB)
Start Date: 2014.05.09 End Date: 2014.05.09
Start Time: 06:24:00 End Time: 13:08:30

Capacity: 5000.00 psig
Last Calib.: 2014.05.09
Time On Btm: 2014.05.09 @ 07:49:30
Time Off Btm: 2014.05.09 @ 11:20:30

TEST COMMENT: 1ST Open 15 Minutes/Good blow/Blow built to bottom of bucket in 10 minutes
1ST Shut In 45 Minutes/Very weak surface blow back
2ND Open 60 Minutes/Good blow/Blow built to botttom of bucket in 12 minutes
2ND Shut In 90 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1698.18	102.49	Initial Hydro-static
1	39.85	106.35	Open To Flow (1)
15	146.77	111.18	Shut-In(1)
60	1147.19	110.20	End Shut-In(1)
61	159.41	110.11	Open To Flow (2)
120	328.99	112.01	Shut-In(2)
210	1148.35	111.34	End Shut-In(2)
211	1663.88	110.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	Slighly Mud cut Water with show of Oil	5.71
0.00	Mud 2% Water 98%	0.00
93.00	Clean Oil 100%	1.30
0.00	Corrected Grav. Oil 31	0.00
0.00	Recov. Resist. .21 ohms @75 deg	0.00
0.00	Recov. Chlorides 19,000 ppm	0.00

Gas Rates

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

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 029

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-3-14	17	17	13	Barton	KS		6:00pm

Location Susank 4S 160 Rd 1W 1/4S E into

Lease Nancy Well No. 3-17

Owner

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. 948

Charge To Shelby Resources

Csg. 8 5/8 Depth 943

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. 42.24 Shoe Joint 42.24

Cement Amount Ordered 350 60/40 3% CC 2% GEL

Meas Line Displace 57 1/4 BBL

EQUIPMENT

Pumptrk 18 No. Cementer Craig

Helper

Bulktrk No. Driver Chad

Driver

Bulktrk 12 No. Driver

Driver Doug

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

8 5/8 on bottom Est Circulation. Mix 350 sk & Displace Plug. Cement Circulated!

Common	210
Poz. Mix	140
Gel.	~~8~~ 7
Calcium	13
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	370
Mileage	

FLOAT EQUIPMENT

Guide Shoe	8 5/8 Guide shoe
Centralizer	Rubber Plug
Baskets	Baffle Plate
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Long Surface
Mileage	16
Tax	
Discount	
Total Charge	

X Signature Alan Loftin

BASIC energy services, L.P.

TREATMENT REPORT

Customer: Shelby Resources LLC	Lease No.	Date: 5-10-14	
Lease: NANCY	Well #: 3-17		
Field Order #: 10462	Station: Pratt	Casing: 5 1/2 Depth: 3511	County: Barton State: KS
Type Job: CMW Long String	Formation	Legal Description: 17-17-13	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 5 1/2	Tubing Size	Shots/Ft		Acid: ~~CMW~~ 100 SKS AA2	RATE	PRESS	ISIP
Depth: 3511	Depth	From	To	Pre Pad: 100 SK 60/40 POZ	Max		5 Min.
Volume: 83.67	Volume	From	To	Pad	Min		10 Min.
Max Press: 1500	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush: 85.1	Gas Volume		Total Load

Customer Representative: Chris Gottschalk	Station Manager: Kevin Coudney	Treater: Mike Mattai	

Service Units	37584		33705	20920		19959	73768				
Driver Names	Mattai		Ess	Ing		Erl	St				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:00 AM					On location, Safety Meeting
11:25					Run 5 1/2 14# csng, Bring on Bottom, Break circ
					Tubes on 1, 3, 5, 7, 8
1:07					csng on Bottom
1:10					Hook up to csng/Break circ w. Rig
2:11	200		3	5	Pump 3 Bbl H2O
2:12	200		12	5	Mix 50 SKS Scavenger
2:14	200		24	3.5	Mix 100 SKS AA2
2:25	—		4	3	Wash Pump + Lines, Release Plug
2:28	100		—	6	Start Displacement
2:40	300		60	5.5	Lift Pressure
2:43	600		75	4	Slow Rate
2:46	1500		~~400~~ 85.1		Plug Down, Release + Hold
2:50			7.5		Plug RAT + Mouse hole
					Circ. Thru Job
					Job Complete
					Thank You!
					Mike Mattai

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

Taylor Printing, Inc. 620-672-3656