Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1259488

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: 621 17TH ST STE 1155
Address 2:
City: DENVER State: CO Zip: 80293 + 1101
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 #:

07/01/2015	07/08/2015	07/24/2015
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-26103-00-00
Spot Description:
NW SE NW NE Sec. 27 Twp. 18 S. R. 14 ☐ East ☑ West
687 Feet from ☑ North / ☐ South Line of Section
1932 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: Nelson Well #: 1-27
Field Name:
Producing Formation: Arbuckle
Elevation: Ground: 1901 Kelly Bushing: 1912
Total Vertical Depth: 3550 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 857 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. 7 S. R. 13 ☐ East ☑ West
County: Barton Permit #: D31557

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: 07/29/2015
☑ **Confidential Release Date:** 07/28/2017
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 07/30/2015

[redacted]

1259488

Operator Name: Shelby Resources LLC Lease Name: Nelson Well #: 1-27

Sec. 27 Twp. 18 S. R. 14 ☐ 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	Top	Datum
Heebner	3098	-1186
L-KC	3188	-1276
Stark Shale	3366	-1454
Base KC	3394	-1482
Conglomerate	3400	-1488
Arbuckle	3424	-1512
LTD	3549	-1637

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	857	60/40 Poz	350	2% gel/ 3% cc
Production	7.875	5.5	14	3548	AA2	150	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	-			
	-			

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	3426-45'	1000 gal 15% NE	

TUBING RECORD: Size: 2.375 Set At: 3504 Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 07/24/2015

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	21		13		

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:
_____
_____

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Nelson 1-27
Doc ID	1259488

All Electric Logs Run

Dual Induction
Compensated Nuetron
Micro
Sonic
Radial Bond

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Nelson 1-27
Doc ID	1259488

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	857	60/40 Poz	350	2% gel/ 3% cc
Production	7.875	5.5	14	3548	AA2	150	2% gel/ 3% cc

BASIC energy services, L.P.

TREATMENT REPORT

Customer: Shelby Resources LLC	Lease No.	Date: 7-8-2015	
Lease: Nelson	Well #: 1-27		
Field Order #: 12202	Station: Pratt, KS	Casing: 5½	Depth: 3548
County: Barton	State: KS		
Type Job: CNW / 5½ Longstring	Formation: TD 3550	Legal Description: 27-18s-14w	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 5½	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth: 3548	Depth	From	To	Pre Pad	Max		5 Min.
Volume: 84	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 3527	Packer Depth	From	To	Flush: Freshwater	Gas Volume		Total Load

Customer Representative			Station Manager: Kevin Goldsberry				Treater: Dean Friskel					
Service Units	92911	84581	19513	19955	21010							
Driver Names	Dean	Ed	Ed	McGraw	McGraw							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:00pm					on location / Safety meeting
					5½ csg as 84 Jts, set @ 3548'
					T- 2, 4, 7, 5, 10 B H
					100sk AA2 cement, .25lb/sk Cellflake
					.25% Defoamer, 10% Salt, 1% Gas Block, .5%
					Fluid loss, 5 lb/sk Gilsonite, 13.5 PPG, 1.36 Yield 5.46 mix H2O
					Pipe on bottom & break Circulation
6:15pm	200		12	5	mix 50sk Scavenger cement
	200		24	5	mix 100 sk tail cement
					Shut down
					Wash Pump & lines
					Release Plug
	150		0	6	Start displacement
	400		55	6	Lift Pressure
	600		76	3	Slow Rate
6:45pm	1500		84	3	Bump Plug
					Float
	100		7	3	Plug Rat hole
	100		5	3	Plug Mouse hole
7:00pm					Job complete / Dean & Crew
					Thank you !!!

Taylor Printing, Inc. 620-672-3656

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 1836

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-2-15	27	18	14	Barton	KS		6:30 AM

Location 281 + 4 Jct - 55 to 70 Rd, 1 1/4 W

Lease Nelson Well No. 1-27 Owner S/Into

Contractor Sterling #4

Type Job Surface

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.

Hole Size	12 1/4"	T.D.	861'
Csg.	8 5/8"	Depth	857'
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.	42'	Shoe Joint	42'
Meas Line		Displace	52 BLS

Charge To Shelby Resources

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 350 60/40 3% cc 2% Gel

EQUIPMENT

Pumptrk 17	No.	Cementer	
		Helper	Lonnie
Bulktrk 4	No.	Driver	
		Driver	Billy
~~Bulktrk~~ P.U.	No.	Driver	
		Driver	Rick

JOB SERVICES & REMARKS

Remarks: Cement did Circulate

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Common	210
Poz. Mix	140
Gel.	7
Calcium	14
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	371
Mileage	

FLOAT EQUIPMENT

Guide Shoe	1 Slip-on
~~Centralizer~~	Baffle plate
~~Baskets~~	Rubber plug
AFU Inserts	
Float Shoe	
Latch Down	

Thanks

Quality Oilwell Cementing

Pumptrk Charge	Long Surface
Mileage	23
Tax	
Discount	
Total Charge	

X Signature Tommy S. Sulcer

DRILL STEM TEST REPORT

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62003 **DST#: 1**

Test Start: 2015.07.04 @ 20:48:00

GENERAL INFORMATION:

Formation: **Lansing "A-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:06:30
Time Test Ended: 02:06:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 56/30/Great Bend

Interval: 3185.00 ft (KB) To 3260.00 ft (KB) (TVD)
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

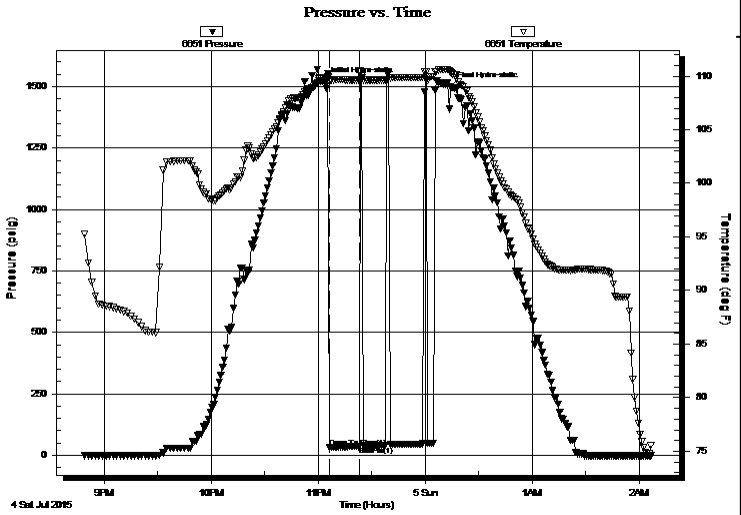
Reference Elevations: 1912.00 ft (KB)
1901.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6651 **Inside**

Press@RunDepth: psig @ 3256.35 ft (KB)
Start Date: 2015.07.04 End Date: 2015.07.05
Start Time: 20:49:00 End Time: 02:06:30

Capacity: 8000.00 psig
Last Calib.: 2015.07.05
Time On Btm: 2015.07.04 @ 23:03:30
Time Off Btm: 2015.07.05 @ 00:14:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak surface blow .
1st Shut In/ Unable to shut in due to it not being able to turn freely in hole. Pulled test per geo.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1518.63	109.87	Initial Hydro-static
3	32.85	109.43	Open To Flow (1)
20	36.61	109.62	Shut-In(1)
71	1498.85	110.40	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

FLUID SUMMARY

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601

ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62003 **DST#: 1**

Test Start: 2015.07.04 @ 20:48:00

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:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% mud	0.025

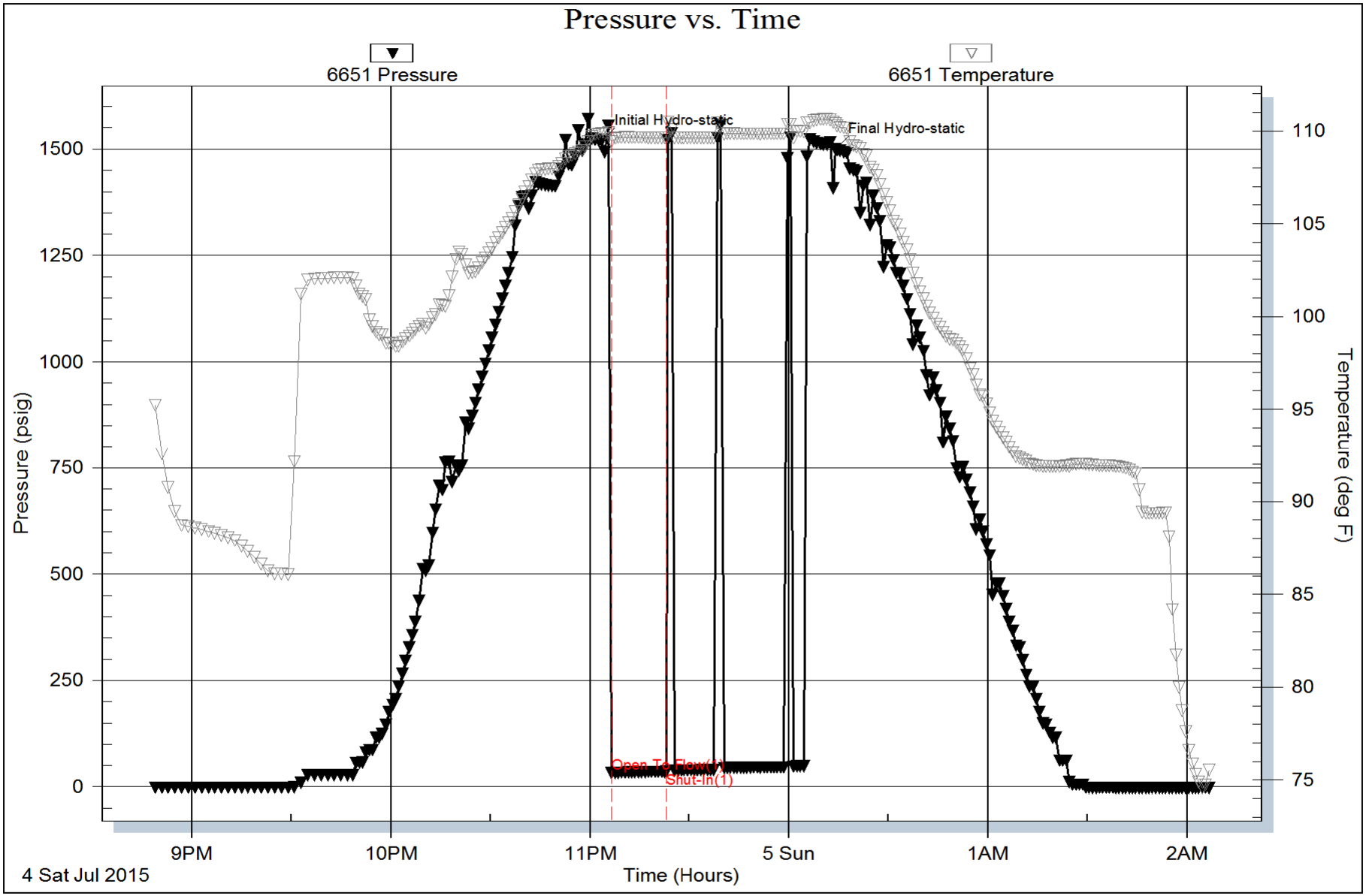
Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6651 **Inside** Shelby Resources LLC. Nelson #1-27 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 62003 Printed: 2015.07.05 @ 05:56:38

DRILL STEM TEST REPORT

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62003 **DST#: 1**

Test Start: 2015.07.04 @ 20:48:00

GENERAL INFORMATION:

Formation: **Lansing "A-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:06:30
Time Test Ended: 02:06:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 56/30/Great Bend

Interval: 3185.00 ft (KB) To 3260.00 ft (KB) (TVD)
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

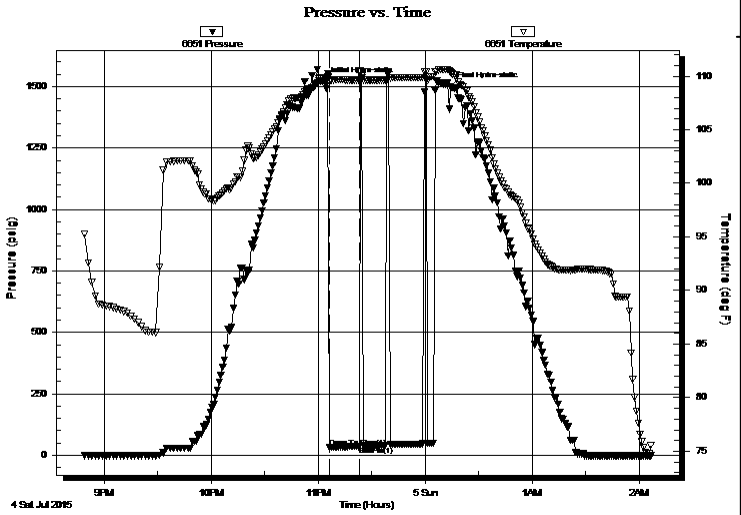
Reference Elevations: 1912.00 ft (KB)
1901.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6651 **Inside**

Press@RunDepth: psig @ 3256.35 ft (KB)
Start Date: 2015.07.04 End Date: 2015.07.05
Start Time: 20:49:00 End Time: 02:06:30

Capacity: 8000.00 psig
Last Calib.: 2015.07.05
Time On Btm: 2015.07.04 @ 23:03:30
Time Off Btm: 2015.07.05 @ 00:14:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak surface blow .
1st Shut In/ Unable to shut in due to it not being able to turn freely in hole. Pulled test per geo.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1518.63	109.87	Initial Hydro-static
3	32.85	109.43	Open To Flow (1)
20	36.61	109.62	Shut-In(1)
71	1498.85	110.40	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

FLUID SUMMARY

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601

ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62003 **DST#: 1**

Test Start: 2015.07.04 @ 20:48:00

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:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% mud	0.025

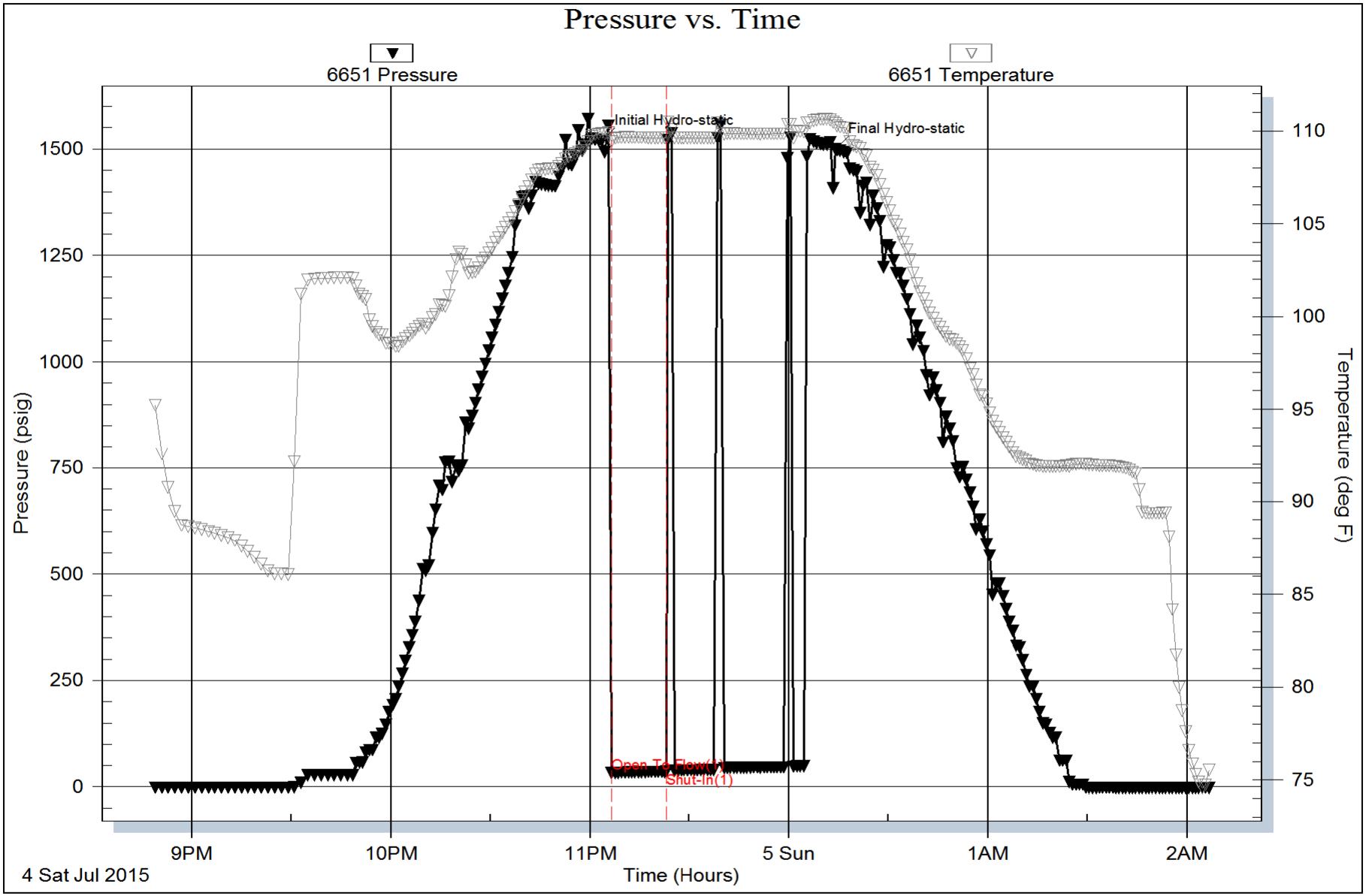
Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6651 **Inside** Shelby Resources LLC. Nelson #1-27 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 62003 Printed: 2015.07.05 @ 05:56:38

DRILL STEM TEST REPORT

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62004 **DST#: 2**

Test Start: 2015.07.05 @ 19:45:00

GENERAL INFORMATION:

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

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 56/30/Great Bend

Interval: 3392.00 ft (KB) To 3438.00 ft (KB) (TVD)
Total Depth: 3438.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

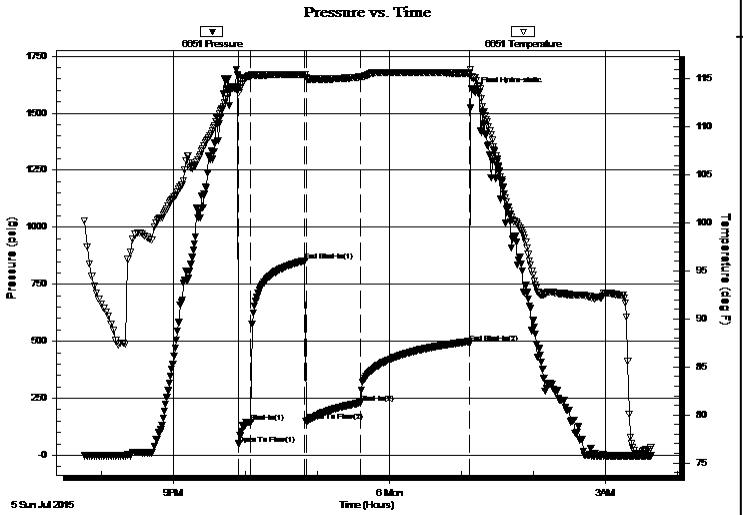
Reference Elevations: 1912.00 ft (KB)
1901.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6651 **Inside**

Press@RunDepth: 490.77 psig @ 3434.00 ft (KB)
Start Date: 2015.07.05 End Date: 2015.07.06
Start Time: 19:46:00 End Time: 03:37:30

Capacity: 8000.00 psig
Last Calib.: 2015.07.06
Time On Btm: 2015.07.05 @ 21:49:30
Time Off Btm: 2015.07.06 @ 01:10:30

TEST COMMENT: 1st Open/ 10 minutes. Good blow built to bottom of 5 gallon bucket in 4 minutes and 15 seconds.
1st Shut In/ 45 minutes. Blow back built to 1 inch in 30 minutes then backed down to 1/2 inch by end of shut in
2nd Open/ 45 minutes. Good blow built to bottom of 5 gallon bucket in 5 minutes and 30 seconds.
2nd Shut In/ 90 minutes. Weak surface blow back that died at 30 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.45	113.97	Initial Hydro-static
5	50.18	113.60	Open To Flow (1)
15	146.04	115.26	Shut-In(1)
60	853.70	115.45	End Shut-In(1)
61	149.18	115.12	Open To Flow (2)
106	230.02	115.20	Shut-In(2)
197	490.77	115.60	End Shut-In(2)
201	1594.69	115.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	252 feet gas in pipe.	0.00
597.00	100% Clean gassy oil	6.10
63.00	Mud cut oil	0.88
0.00	10% mud, 90% oil.	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601

ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62004 **DST#: 2**

Test Start: 2015.07.05 @ 19:45:00

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:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

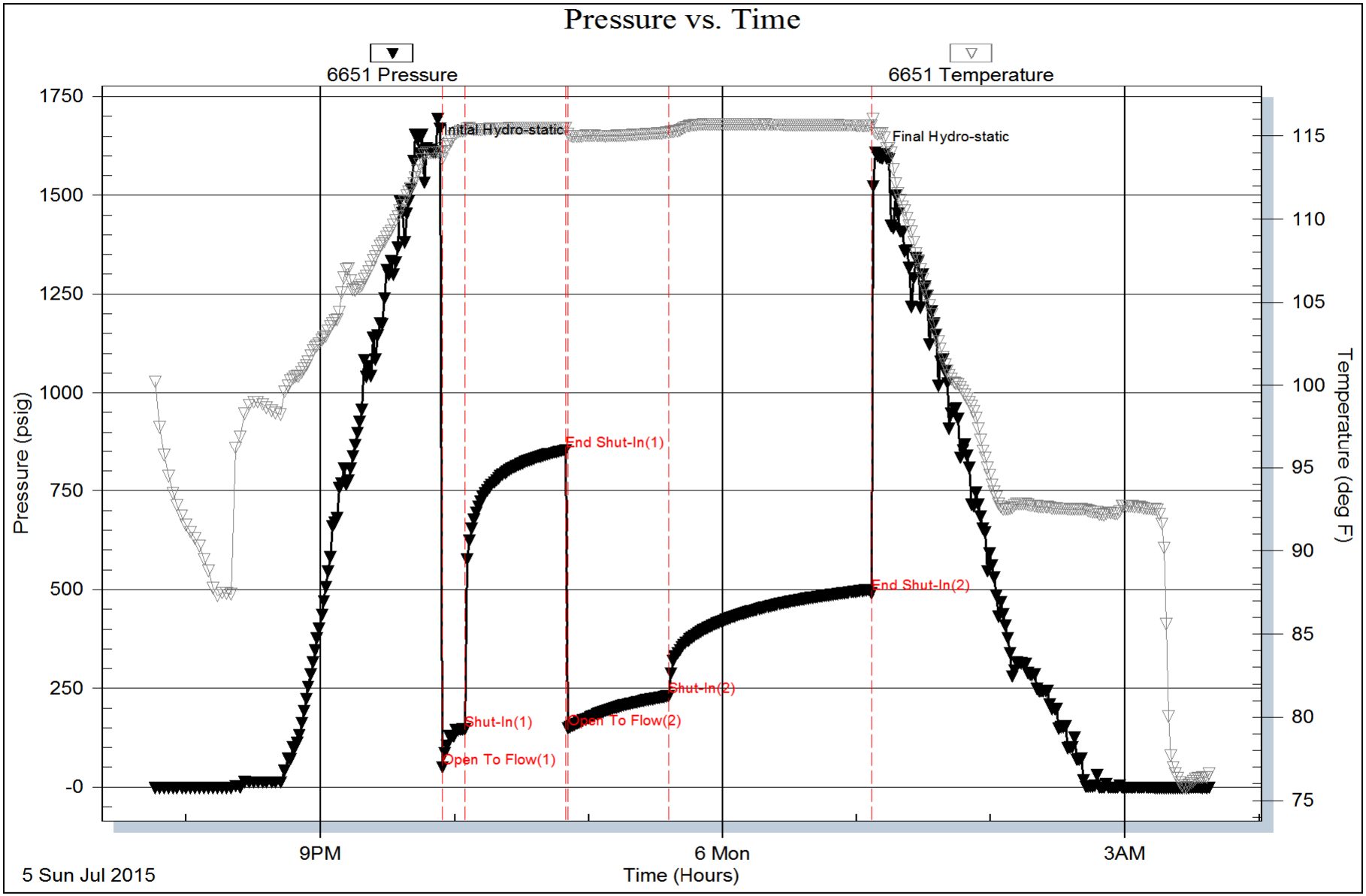
Recovery Table

Length ft	Description	Volume bbl
0.00	252 feet gas in pipe.	0.000
597.00	100% Clean gassy oil	6.104
63.00	Mud cut oil	0.884
0.00	10% mud, 90% oil.	0.000

Total Length: 660.00 ft Total Volume: 6.988 bbl

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

Serial #: 6651 **Inside** Shelby Resources LLC. Nelson #1-27 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 62004 Printed: 2015.07.06 @ 06:50:03

DRILL STEM TEST REPORT

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62005 **DST#: 3**

Test Start: 2015.07.06 @ 09:58:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:51:30
Time Test Ended: 17:41:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 56/30/Great Bend

Interval: 3438.00 ft (KB) To 3444.00 ft (KB) (TVD)
Total Depth: 3444.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

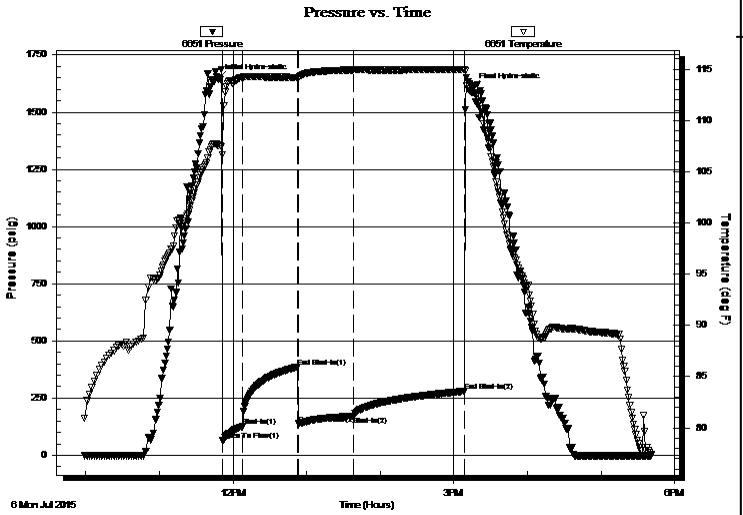
Reference Elevations: 1912.00 ft (KB)
1901.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6651 **Inside**

Press@RunDepth: 171.29 psig @ 3440.00 ft (KB)
Start Date: 2015.07.06 End Date: 2015.07.06
Start Time: 09:59:00 End Time: 17:41:00

Capacity: 8000.00 psig
Last Calib.: 2015.07.06
Time On Btm: 2015.07.06 @ 11:48:30
Time Off Btm: 2015.07.06 @ 15:15:00

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes and 45 seconds.
1st Shut In/ 45 Minutes. Blow back built to 4 inches into water.
2nd Open/ 45 minutes. Good blow built to bottom of bucket in 6 minutes and 30 seconds.
2nd Shut In/ 90 Minutes. Weak surface blow that died at 30 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1645.18	107.55	Initial Hydro-static
3	66.30	106.67	Open To Flow (1)
19	125.49	114.20	Shut-In(1)
64	385.91	114.20	End Shut-In(1)
65	137.35	114.14	Open To Flow (2)
110	171.29	114.94	Shut-In(2)
200	279.87	114.99	End Shut-In(2)
207	1607.34	112.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	189 feet Gas in Pipe.	0.00
504.00	100% Clean gassy oil	4.80

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62005 **DST#: 3**

Test Start: 2015.07.06 @ 09:58:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:51:30
Time Test Ended: 17:41:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 56/30/Great Bend

Interval: 3438.00 ft (KB) To 3444.00 ft (KB) (TVD)
Total Depth: 3444.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

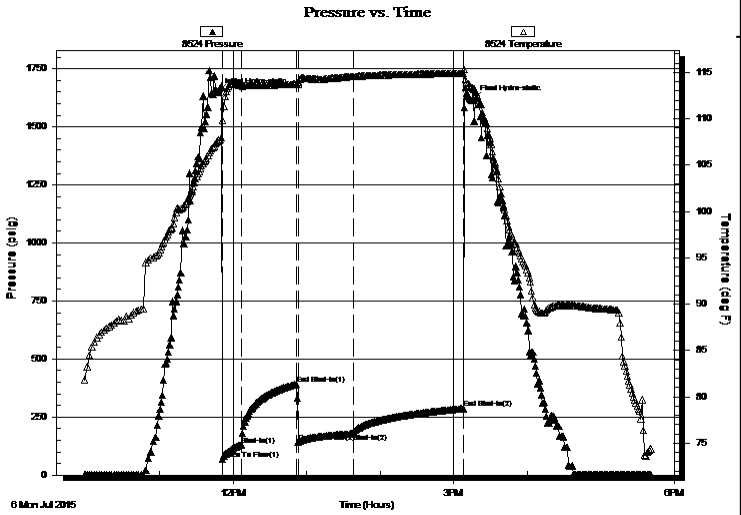
Reference Elevations: 1912.00 ft (KB)
1901.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8524 **Outside**

Press@RunDepth: 286.86 psig @ 3441.00 ft (KB)
Start Date: 2015.07.06 End Date: 2015.07.06
Start Time: 09:59:00 End Time: 17:40:30

Capacity: 8000.00 psig
Last Calib.: 2015.07.06
Time On Btm: 2015.07.06 @ 11:48:30
Time Off Btm: 2015.07.06 @ 15:16:00

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes and 45 seconds.
1st Shut In/ 45 Minutes. Blow back built to 4 inches into water.
2nd Open/ 45 minutes. Good blow built to bottom of bucket in 6 minutes and 30 seconds.
2nd Shut In/ 90 Minutes. Weak surface blow that died at 30 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1649.50	107.69	Initial Hydro-static
3	68.29	109.88	Open To Flow (1)
18	130.67	113.57	Shut-In(1)
63	391.59	113.76	End Shut-In(1)
65	143.85	113.77	Open To Flow (2)
110	178.37	114.56	Shut-In(2)
199	286.86	114.92	End Shut-In(2)
208	1618.72	113.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	189 feet Gas in Pipe.	0.00
504.00	100% Clean gassy oil	4.80

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601

ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62005 **DST#: 3**

Test Start: 2015.07.06 @ 09:58:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	41 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	189 feet Gas in Pipe.	0.000
504.00	100% Clean gassy oil	4.800

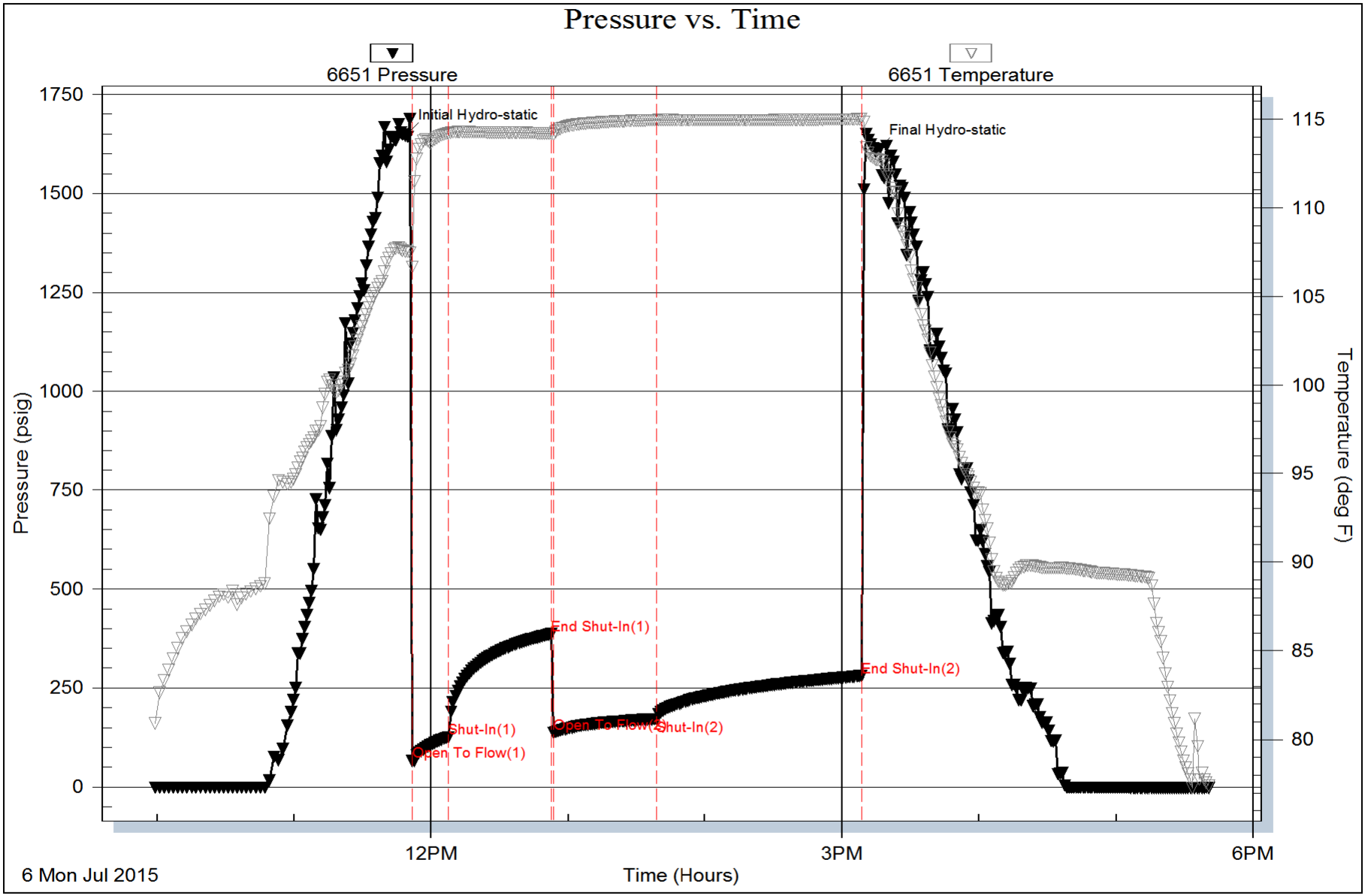
Total Length: 504.00 ft Total Volume: 4.800 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

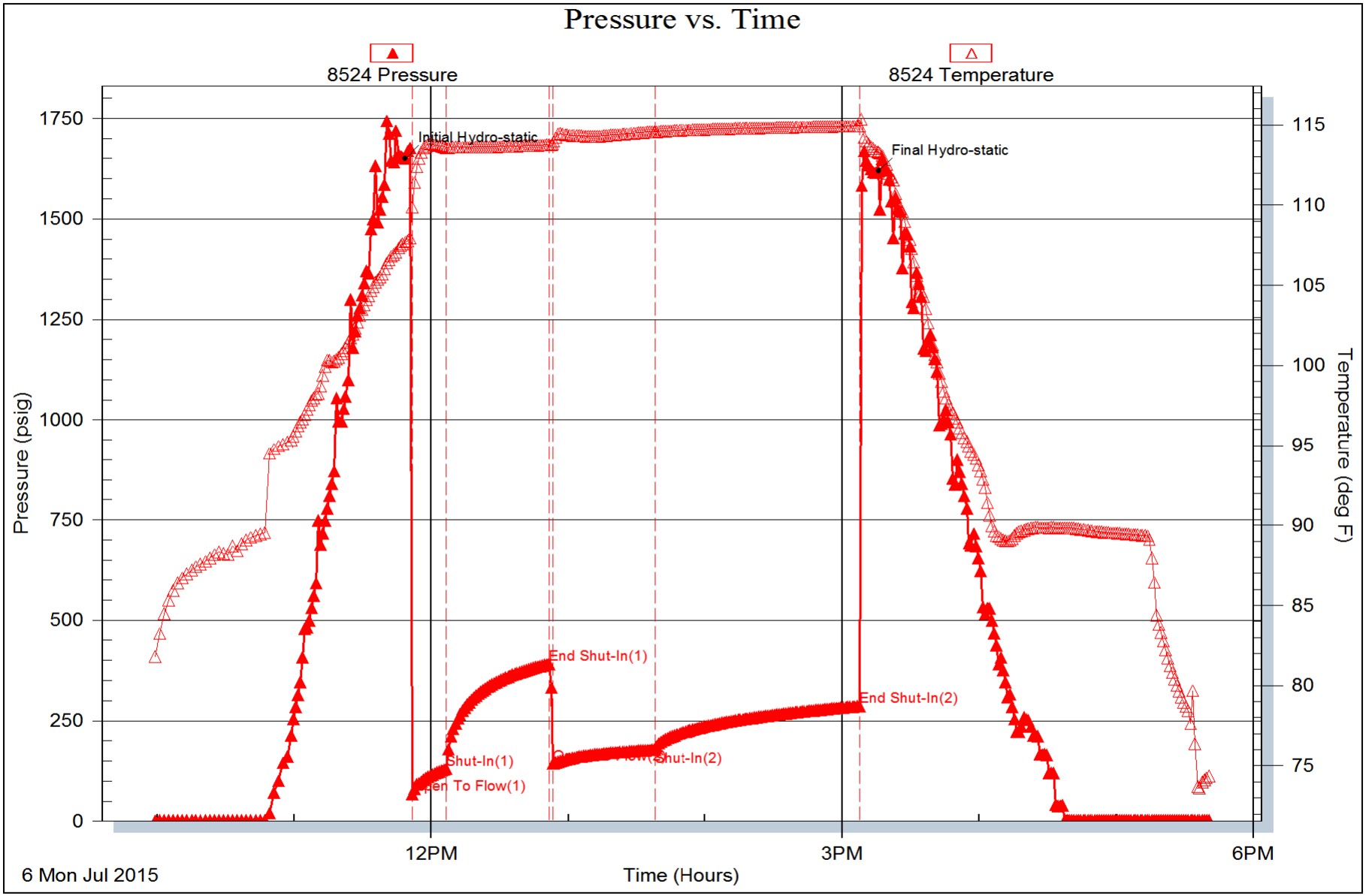
Recovery Comments:

Serial #: 6651 **Inside** Shelby Resources LLC. Nelson #1-27 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 62005 Printed: 2015.07.06 @ 19:15:13

Serial #: 8524 **Outside** Shelby Resources LLC. Nelson #1-27 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 62005 Printed: 2015.07.06 @ 19:15:13

DRILL STEM TEST REPORT

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62006 **DST#: 4**

Test Start: 2015.07.07 @ 01:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:53:00
Time Test Ended: 09:55:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 56/30/Great Bend

Interval: 3444.00 ft (KB) To 3458.00 ft (KB) (TVD)
Total Depth: 3458.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

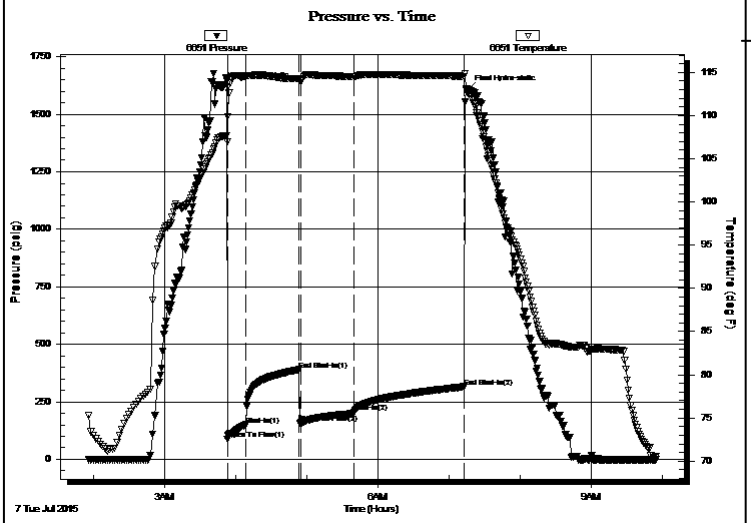
Reference Elevations: 1912.00 ft (KB)
1901.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6651 **Inside**

Press@RunDepth: 204.50 psig @ 3454.00 ft (KB)
Start Date: 2015.07.07 End Date: 2015.07.07
Start Time: 01:56:00 End Time: 09:55:00

Capacity: 8000.00 psig
Last Calib.: 2015.07.07
Time On Btm: 2015.07.07 @ 03:47:30
Time Off Btm: 2015.07.07 @ 07:16:30

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes and 10 seconds.
1st Shut In/ 45 minutes. Blow back built to 2 inches.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 8 minutes and 20 seconds.
2nd Shut In/ 90 Minutes. Weak surface blow back that died at 25 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1618.50	107.54	Initial Hydro-static
6	88.19	106.96	Open To Flow (1)
21	149.86	114.57	Shut-In(1)
66	389.77	114.29	End Shut-In(1)
68	157.80	114.10	Open To Flow (2)
113	204.50	114.52	Shut-In(2)
205	315.08	114.54	End Shut-In(2)
209	1605.74	112.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	189 Gas in pipe	0.00
378.00	100% Clean gassy oil	3.03
126.00	Gassy mud cut oil	1.77
0.00	20% gas, 30% mud, 50% oil	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62006 **DST#: 4**

Test Start: 2015.07.07 @ 01:55:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	41 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

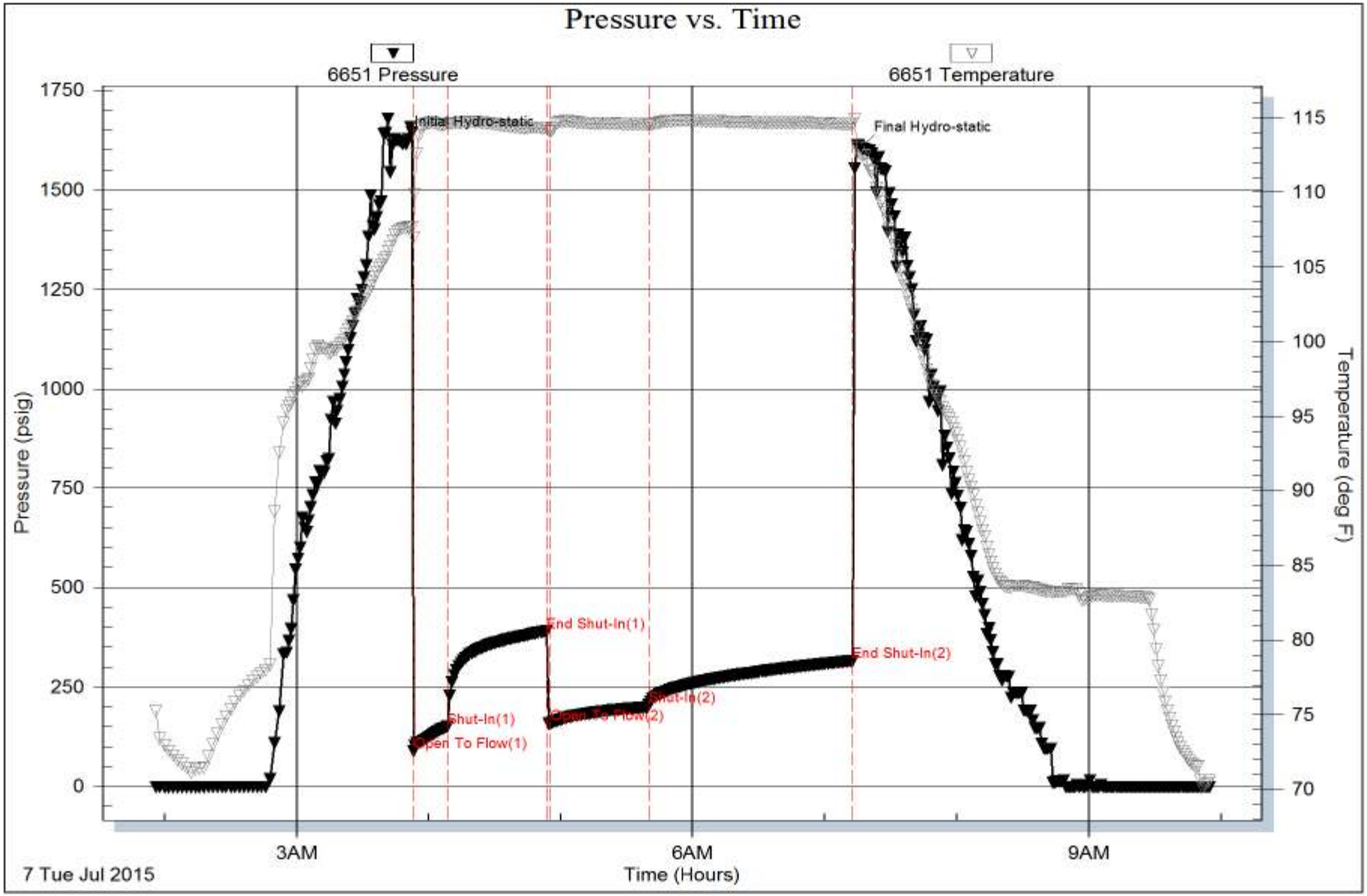
Recovery Table

Length ft	Description	Volume bbl
0.00	189 Gas in pipe	0.000
378.00	100% Clean gassy oil	3.032
126.00	Gassy mud cut oil	1.767
0.00	20% gas, 30% mud, 50% oil	0.000

Total Length: 504.00 ft Total Volume: 4.799 bbl

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

Serial #: 6651 **Inside** Shelby Resources LLC. Nelson #1-27 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 62006 Printed: 2015.07.07 @ 10:23:41

Scale 1:240 Imperial

Well Name:	Nelson #1-27		
Surface Location:	687' FNL, 1932 'FEL, Sec. 27-18S-14W		
Bottom Location:			
API:	15-009-26103-0000		
License Number:			
Spud Date:	7/1/2015	Time:	9:15 AM
Region:	Barton County		
Drilling Completed:	7/8/2015	Time:	12:55 AM
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation:	1901.00ft		
K.B. Elevation:	1912.00ft		
Logged Interval:	2900.00ft	To:	3550.00ft
Total Depth:	3550.00ft		
Formation:	Arbuckle		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

OPERATOR

Company:	Shelby Resources, LLC		
Address:	621 17th St, Suite 1155 Denver, CO 80293		
Contact Geologist:	Janine Sturdavant		
Contact Phone Nbr:	303-907-2209 / 720-274-4682		
Well Name:	Nelson #1-27		
Location:	687' FNL, 1932 'FEL, Sec. 27-18S-14W		
API:	15-009-26103-0000		
Pool:		Field:	Wildcat
State:	Kansas	Country:	USA

LOGGED BY

Company:	Shelby Resources, LLC		
Address:	621 17th St. Suite 1150 DENVER, CO. 80293		
Phone Nbr:	203-671-6034		
Logged By:	Geologist	Name:	Jeremy Schwartz

NOTES

The Shelby Resources, LLC Nelson #1-27 was drilled to a total depth of 3550', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

Four 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 DST Results, sample shows, gas kicks, and log analysis it was determined by all parties involved to furthur test the well through production casing. The dry samples were saved and will be available for furthur review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

NOTE The Elog tops are approximately 2' higher to the drill time and all DST's should be adjusted accordingly

Respectfully Submitted,
Jeremy Schwartz
Geologist

CONTRACTOR

Contractor:	Sterling Drilling Co		
Rig #:	4		
Rig Type:	mud rotary		
Spud Date:	7/1/2015	Time:	9:15 AM
TD Date:	7/8/2015	Time:	12:55 AM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	1912.00ft	Ground Elevation:	1901.00ft
K.B. to Ground:	11.00ft		

	NELSON #1-27				L.D. DRILLING POLZIN-FLYLER UNIT #1-22 SE SW SE SW 22-T18S-R14W				L.D. DRILLING LORETTA POLZIN TRUST #1-22 SE SW NE SW 22-T18S-R14W				D&A SHELBY RESOURCES, LLC H-P UNIT #1-22 SE SE SW NW 22-T18S-R14W			
	KB	1912			KB	1912			KB	1916			KB	1929		
	LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG	SMPL.	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	850	1062	850	1062	859	1053	+ 9	+ 9	856	1060	+ 2	+ 2	875	1054	+ 8	+ 8
BASE	879	1033	887	1025	887	1025	+ 8	+ 0	882	1034	- 1	- 9	900	1029	+ 4	- 4
TOPEKA	2881	-969	2884	-972	2879	-967	- 2	- 5	2878	-962	- 7	- 10	2903	-974	+ 5	+ 2
HEEBNER SHALE	3098	-1186	3098	-1186	3095	-1183	- 3	- 3	3092	-1176	- 10	- 10	3118	-1189	+ 3	+ 3
TORONTO	3110	-1198	3113	-1201	3108	-1196	- 2	- 5	3100	-1184	- 14	- 17	3128	-1199	+ 1	- 2
DOUGLAS SHALE	3126	-1214	3128	-1216	3120	-1208	- 6	- 8	3114	-1198	- 16	- 18	3140	-1211	- 3	- 5
BROWN LIME	3177	-1265	3180	-1268	3174	-1262	- 3	- 6	3167	-1251	- 14	- 17	3192	-1263	- 2	- 5
LKC	3188	-1276	3191	-1279	3188	-1276	+ 0	- 3	3176	-1260	- 16	- 19	3202	-1273	- 3	- 6
LKC G	3272	-1360	3271	-1359	3258	-1346	- 14	- 13	3249	-1333	- 27	- 26	3273	-1344	- 16	- 15
MUNCIE CREEK	3310	-1398	3313	-1401	3311	-1399	+ 1	- 2	3307	-1391	- 7	- 10	3338	-1409	+ 11	+ 8
LKC H	3316	-1404	3318	-1406	3317	-1405	+ 1	- 1	3313	-1397	- 7	- 9	3340	-1411	+ 7	+ 5
STARK SHALE	3366	-1454	3368	-1456	3366	-1454	+ 0	- 2	3363	-1447	- 7	- 9	3388	-1459	+ 5	+ 3
BKC	3394	-1482	3396	-1484	3396	-1484	+ 2	+ 0	3390	-1474	- 8	- 10	3414	-1485	+ 3	+ 1
CONGLOMERATE	3400	-1488	3403	-1491	3400	-1488	+ 0	- 3	3395	-1479	- 9	- 12	3420	-1491	+ 3	+ 0
ARBUCKLE	3424	-1512	3426	-1514	3426	-1514	+ 2	+ 0	3424	-1508	- 4	- 6	3469	-1540	+ 28	+ 26
RTD			3550	-1638	3535	-1623		- 15	3550	-1634		- 4	3550	-1621		- 17
LTD	3549	-1637			3538	-1626	- 11		3549	-1633	- 4		3552	-1623	- 14	

DATE	DEPTH	ACTIVITY
Saturday, July 04, 2015	3050'	Geologist Jeremy Schwartz on location @ 0230hrs, ~3000', Drlg ahead through
	3181'	Heebner, Toronto, Douglas Shale, Brown Lime, CFS @ 3181', Drop Survey, Strap Out,
		Conduct Bit Trip, Swap PDC out for Button Bit, Resume Drlg ahead through Lansing,
		CFS @ 3260', Conduct DST #1 in the Lansing "A-F"
Sunday, July 05, 2015	3260'	Misrun on DST as tool would not close for shut-in, Resume Drlg ahead through
		Lansing, CFS @ 3398', Resume Drlg, CFS @ 3432', Resume Drlg, CFS @ 3438',
	3438'	Conduct DST #2 in the Arbuckle,
Monday, July 06, 2015	3444'	Successful Test, Drlg ahead, CFS @ 3444', Conduct DST #3, Successful Test,
		Resume Drlg, CFS @ 3452', Resume Drlg, CFS @ 3458', Conduct DST #4
Tuesday, July 07, 2015	3458'	Successful Test, Drlg ahead, CFS @ 3465', Resume Drlg ahead, CFS @ 3472', Resume
	3480'	Drlg ahead, Pump Clutch went out, TOH to surface and repair, Resume Drlg to TD
Wednesday, July 08, 2015	3550'	TD of 3550' reached @ 0055hrs, CTCH 1hr, OOH, Conduct Logging Operations
		Logging Operations Complete @ 0800hrs
		Geologist Jeremy Schwartz off location @ 0900hrs

ROCK TYPES

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

ACCESSORIES

FOSSIL
F Fossils < 20%

STRINGER
Chert
Limestone
Shale
green shale
red shale

TEXTURE
C Chalky

OTHER SYMBOLS

MISC
DR Daily Report
Digital Photo

DST
DST Int
DST alt

Document
Folder
Link
Vertical Log File
Horizontal Log File
Core Log File
Drill Cuttings Rpt

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track #1
ROP (min/ft)
Gamma (API)
Cal (in)
1:240 Imperial

Depth | Intervals
Cored Interval
DST Interval

DST

Lithology

Oil Show

Geological Descriptions

TG, C1 - C5
Total Gas (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
1:240 Imperial

Logged By Jeremy Schwartz

Topeka 2884 (-972)

LS, cream to gray, micro-xln, lithographic and dense with poor visible porosity, no show or odor

LS as above, with some scattered slightly fossiliferous, no show or odor

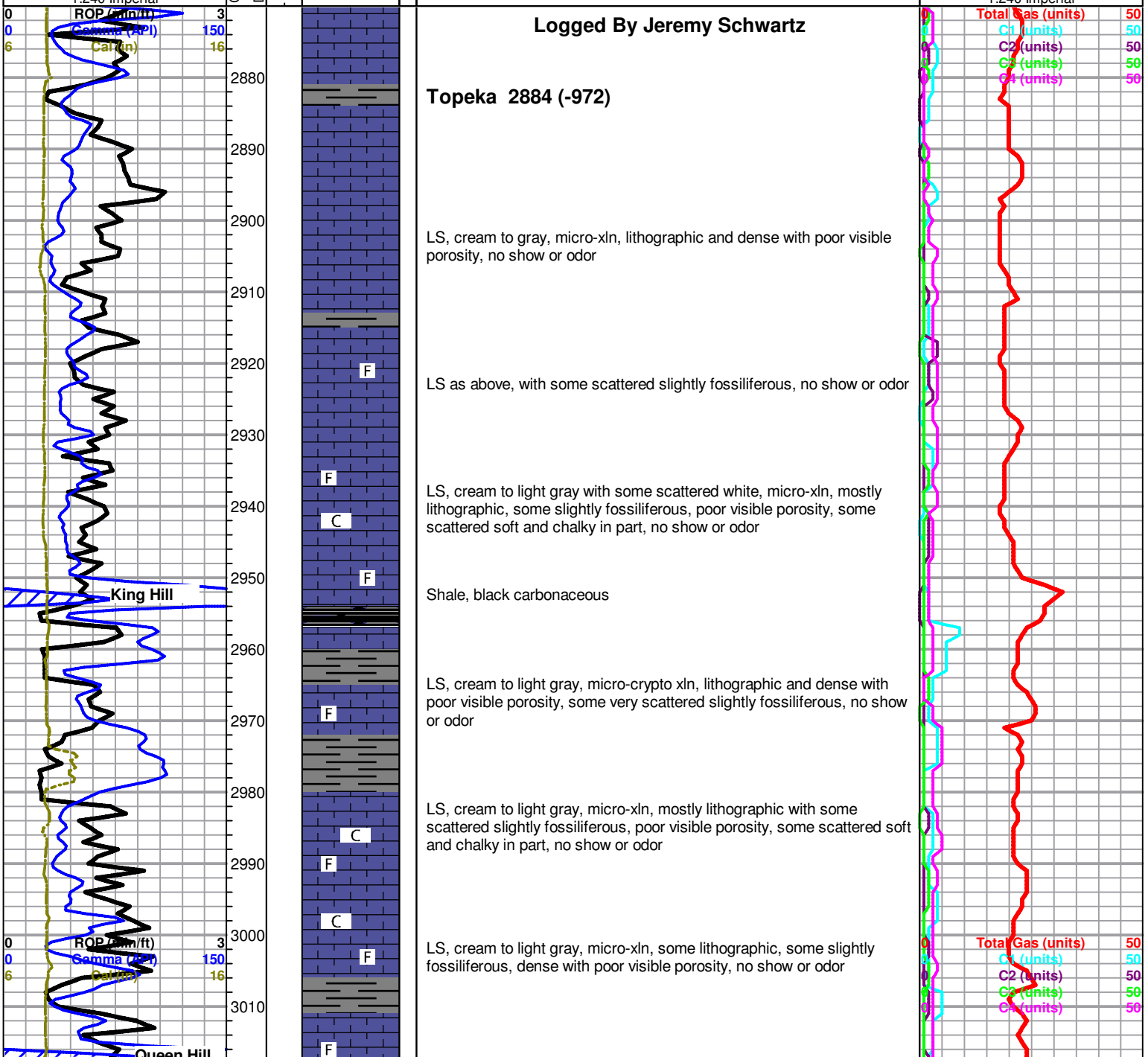
LS, cream to light gray with some scattered white, micro-xln, mostly lithographic, some slightly fossiliferous, poor visible porosity, some scattered soft and chalky in part, no show or odor

Shale, black carbonaceous

LS, cream to light gray, micro-crypto xln, lithographic and dense with poor visible porosity, some very scattered slightly fossiliferous, no show or odor

LS, cream to light gray, micro-xln, mostly lithographic with some scattered slightly fossiliferous, poor visible porosity, some scattered soft and chalky in part, no show or odor

LS, cream to light gray, micro-xln, some lithographic, some slightly fossiliferous, dense with poor visible porosity, no show or odor



Shale, black carbonaceous

LS, cream to light gray, micro-xln, some lithographic, some slightly fossiliferous, poor visible porosity, no show or odor

LS, cream, crypto-xln, lithographic and dense with poor visible porosity, some very scattered light gray, micro-xln, slightly fossiliferous, dense with poor visible porosity, no show or odor

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

LS as above, no show or odor

Heebner 3098 (-1186)

Shale, black carbonaceous

Toronto 3113 (-1201)

LS, cream to white, micro-crypto xln, lithographic and dense with poor visible porosity, some scattered soft and chalky in part, no show or odor

Douglas Shale 3128 (-1216)

Shale, mostly gray with some scattered red, mostly soft and waxy, some silty, no show or odor

Shale as above, some silty, no show or odor

Brown Lime 3180 (-1268)

Lansing 3191 (-1279)

Shelby Nelson 1-27 dst1.jpg

LS, cream, micro-crypto xln, lithographic and dense with poor visible porosity, no show or odor

LS, cream to light gray and gray, micro-xln, mostly lithographic and dense, some scattered slightly fossiliferous, poor visible porosity, no show or odor

LS, mostly cream with some scattered light gray to gray, mostly lithographic, some scattered slightly fossiliferous, poor visible porosity, no show or odor

LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, few very scattered chips with scattered poor to fair visible pinpoint porosity, few chips also with one to two small edge vugs, with very scattered very slight poor stain in and around porosity only, upon break NSFO, poor fleeting odor in cup

Mud-Co Mud chk
3181'
7/4/15
Vis: 46 Wt: 9.3
PV: 15 YP: 11
WL: 9.2
Cake:2/32
pH: 11.5
Ca: 20ppm
CHL: 4,000ppm
Sol: 6.9 LCM: 0
DMC: $983.25
CMC: $6,226.41

Strap 0.26STB
Survey 1/4Deg

CFS @ 3181'
0625hrs
7/4/15

DST #1

SC
(*Conduct Bit Trip* (ft) 5
0 Scale Change API 150
6 Cal (in) 16
0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16

Total Gas (units) 50
C1 (units) 50
C2 (units) 50
C3 (units) 50
C4 (units) 50

"F"
CFS @ 3260'
1735hrs
7/4/15

"G" Porosity"

"H"

"I"

"J"

"K"

CFS @ 3398'
1235hrs
7/5/15

0 ROP (min/ft) 5
0 Gamma (API) 150
6 Cal (in) 16

Bit Bounce @ 3426'

DST #2 & 3 & 4

CFS @ 3432'
1503hrs
7/5/15

CFS @ 3438'
1645hrs
7/5/15

CFS @ 3444'
0715hrs
7/6/15

CFS @ 3452'
2140hrs

3240
3250
3260
3270
3280
3290
3300
3310
3320
3330
3340
3350
3360
3370
3380
3390
3400
3410
3420
3430
3440
3450

~3240' LS, cream to light gray, micro-xln, mostly lithographic and dense with poor visible porosity, few very scattered chips sub-oolitic to oolitic, several chips with very scattered poor inter-oolite stain, NSFO upon break, no odor

3260' 30" LS, cream to white with some scattered light gray, micro-xln, mostly lithographic and dense with poor visible porosity, some with scattered pinpoint porosity to slightly vuggy edges with scattered stain mostly in and around porosity only with slight show gas bubbles in few chips, few small chips fairly vuggy, some also soft and chalky in part, upon break SSFO from few chips, NSFO in tray, fair fleeting odor

3260' 60" Mostly same as above, with slightly less shows and slight influx soft and chalky in part, NSFO, poor odor

LS, cream, micro-crypto xln, lithographic and dense with poor visible porosity, no show or odor

LS as above, no show or odor

LS, cream to light gray, micro-xln, some lithographic, some sub-oomoldic, dense with poor visible porosity, slightly chalky, no show or odor

LS, cream to gray, micro-xln, mostly lithographic and dense with poor visible porosity, some very scattered sub-oolitic to sub-oomoldic, slightly chalky, no show or odor

Muncie Creek 3313 (-1401)

Shale, black carbonaceous

LS, cream to gray with some scattered brown, micro-xln, lithographic and dense with poor visible porosity, some very scattered sub-oomoldic, slightly chalky, no show or odor

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

LS, cream to gray with some brown, micro-xln, lithographic and dense with poor visible porosity, some very scattered sub-oomoldic with trace sub-oolitic, dense with poor visible porosity, no show or odor

LS, cream to gray, micro-xln, lithographic and dense with poor visible porosity, trace chips with very slight edge pinpoint porosity with slight poor brown stain in porosity only, NSFO, no odor

LS as above, few very scattered chips with shows as above, one chip with several small edge vugs, NSFO, poor fleeting odor

LS, cream to gray with some very scattered brown, micro-xln, lithographic and dense with poor visible porosity, some scattered soft and chalky in part, slightly chalky, no show or odor

LS as above, no show or odor

B/KC 3396 (-1484)

LS, mostly cream with some scattered gray, micro-xln, lithographic and dense with poor visible porosity, some soft and chalky in part, also with some gray and red shale with trace green, no show or odor

Mixed cream to gray LS, scattered gray and red shales, and some very scattered orange to red cherts, slight red wash, no show or odor

Shelby Nelson 1-27 dst2.jpg

Shelby Nelson 1-27 dst3.jpg

Shelby Nelson 1-27 dst4.jpg

Arbuckle 3426 (-1514)

3432' 30" conglomerate with some very scattered dolomite, cream to white, micro-xln with trace med-xln, some fairly friable and barren with poor visible porosity, few scattered chips sub-sucrosic with some scattered sub-rhombic development and poor to fair visible porosity with very scattered to scattered stain, upon break few chips have slight to fair show free oil, NSFO in tray, fair odor

3432' 60" Mostly same as above, with slight influx dolomite, white, micro-xln, sub-sucrosic with some scattered sub-rhombic, poor to fair visible inter-xln porosity, some barren, some with scattered stain as above with slight to fair show free oil upon break, NSFO in tray, fair odor

3438' 30" Dolomite, white, micro-xln, sub-sucrosic to sucrosic and mostly sub-rhombic, some with scattered poor to fair visible inter-xln porosity, some dense, some fairly friable, most with scattered to very scattered stain, some scattered barren, upon break some chips have slight to fair show free oil, NSFO in tray, good odor

3438' 60" Mostly same as above, NSFO, fair odor

Mud-Co Mud chk
3367'
7/5/15
Vis: 47 Wt: 9.2
PV: 13 YP: 13
WL: 9.2
Cake:2/32
pH: 11.0
Ca: 20ppm
CHL: 3,900ppm
Sol: 6.2 LCM: 0
DMC: $1,475.02
CMC: $7,701.43

Mud-Co Mud chk
3444'
7/6/15
Vis: 55 Wt: 9.3
PV: 18 YP: 20
WL: 8.4
Cake:2/32
pH: 11.0
Ca: 40ppm
CHL: 4,900ppm
Sol: 6.8 LCM: Tr
DMC: $728.04
CMC: $8,429.47

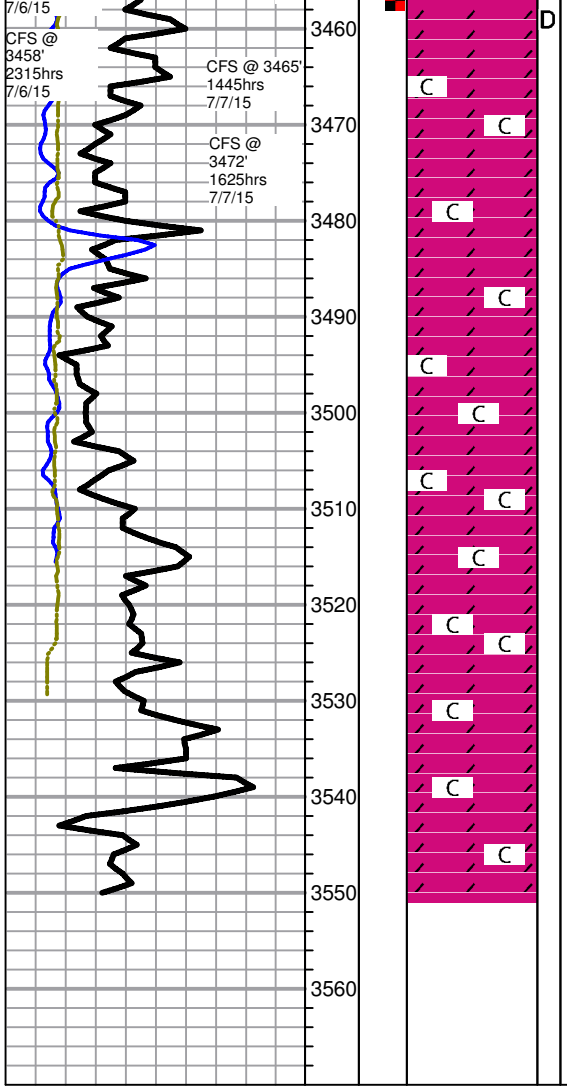
Total C1 C2 C3 C4

Survey @ 3438' = 3/4Deg

(Gas curve not registering from 3438-3444 as TookeDaq system is down

Scale Change

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



3444' 60" Dolomite, white, micro-xln, some sub-sucrosic and dense with poor visible porosity, some scattered sub-rhombic with poor to fair visible inter-xln porosity with scattered to very scattered stain, upon break slight to fair show free oil, also with abundant conglomerate (sluffing from above?), NSFO in tray, poor odor

3452' 60" Dolomite, white, micro-xln, sub-sucrosic and dense with poor visible porosity, mostly barren, some very scattered with scattered to very scattered stain and poor to fair visible porosity, with abundant shale/conglomerate, NSFO, no odor

3458' 30" Dolomite, white, micro-med xln, sub-sucrosic with some scattered sucrosic, mostly sub-rhombic, fairly friable, mostly barren, with some scattered chips with scattered to very scattered stain and poor to fair visible porosity, upon break slight to fair show free oil, (sample cleaned up and is mostly dolomite)NSFO in tray, poor odor

3458' 60" Mostly same as above, with some very scattered with slight gilsonitic stain, (very fine crushed up sample with some conglomerate/shale)NSFO, poor odor

3465' 30" Dolomite, white, micro-xln, sub-sucrosic to sucrosic with some scattered sub-rhombic, most fairly dense and barren, some very scattered with very scattered stain and poor to fair visible porosity, fairly friable, upon break some have SSFO, NSFO in tray, poor odor
3465' 60" Mostly same as above, trace with very scatterd stain, poor visible porosity, NSFO, poor odor

3472' 30" Dolomite, white, micro-xln, mostly sub-sucrosic and fairly dense with poor visible porosity, some scattered sub-rhombic, slightly chalky, no shows or odor

3472' 60" Dolomite as above, slightly chalky, no show or odor

~3480' Dolomite, white, micro-xln, sub-sucrosic and fairly dense with poor visible porosity, some very scattered sub-rhombic, slightly chalky, no show or odor

~3490' Dolomite as above, with some scattered pyrite, slightly chalky, no show or odor

~3500' Dolomite, white, micro-xln, sub-sucrosic and fairly dense with poor visible porosity, fairly chalky, no show or odor

~3510' As above, fairly chalky, no show or odor

~3520' Dolomite, white, micro-xln, sub-sucrosic and dense with poor visible porosity, fairly chalky, no show or odor

~3530' Dolomite as above, slightly chalky, no show or odor

~3550' 30" Dolomite, cream to white, micro-xln, sub-sucrosic and dense with poor visible porosity, slightly chalky, no show or odor

3550' 60" Dolomite as above, slightly chalky, no show or odor

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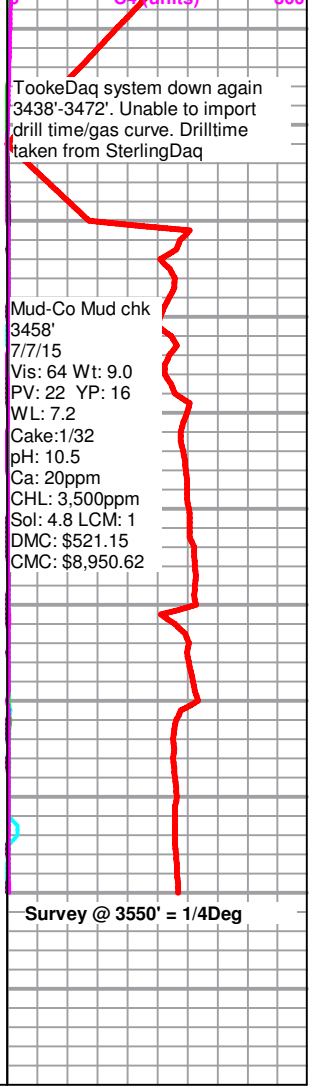
Rotary TD 3550' @ 0055hrs 7/8/15
Nabors Well Services Logging TD @ 3549'
Complete Logging Operations @ 0800hrs 7/8/15
Geologist Jeremy Schwartz off location @ 0900hrs 7/8/15



Shelby Nelson 1-27 dst1.jpg

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62003 **DST#: 1**

Test Start: 2015.07.04 @ 20:48:00

GENERAL INFORMATION:

Formation: **Lansing "A-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:06:30
Time Test Ended: 02:06:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 56/30/Great Bend

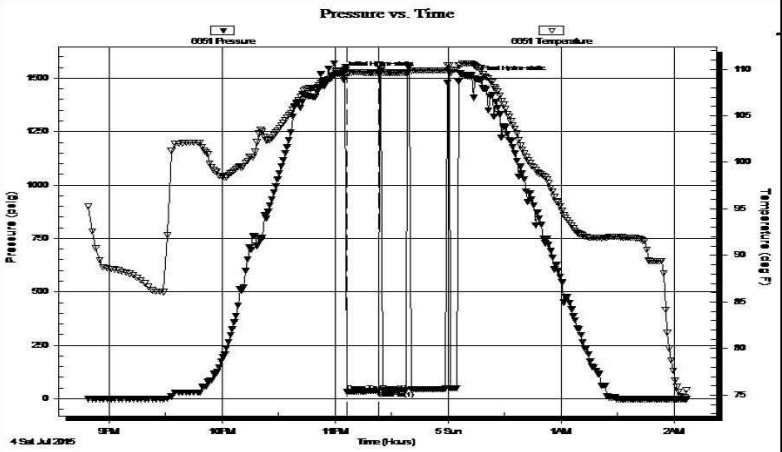
Interval: 3185.00 ft (KB) To 3260.00 ft (KB) (TVD)
Total Depth: 3260.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1912.00 ft (KB)
1901.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6651 **Inside**
Press@RunDepth: psig @ 3256.35 ft (KB)
Start Date: 2015.07.04 End Date: 2015.07.05
Start Time: 20:49:00 End Time: 02:06:30

Capacity: 8000.00 psig
Last Calib.: 2015.07.05
Time On Btm: 2015.07.04 @ 23:03:30
Time Off Btm: 2015.07.05 @ 00:14:00

TEST COMMENT: 1st Open/ 15 Minutes. Weak surface blow.
1st Shut In/ Unable to shut in due to it not being able to turn freely in hole. Pulled test per geo.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1518.63	109.87	Initial Hydro-static
3	32.85	109.43	Open To Flow (1)
20	36.61	109.62	Shut-In(1)
71	1498.85	110.40	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)

Shelby Nelson 1-27 dst2.jpg

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62004 **DST#: 2**

Test Start: 2015.07.05 @ 19:45:00

GENERAL INFORMATION:

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

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 56/30/Great Bend

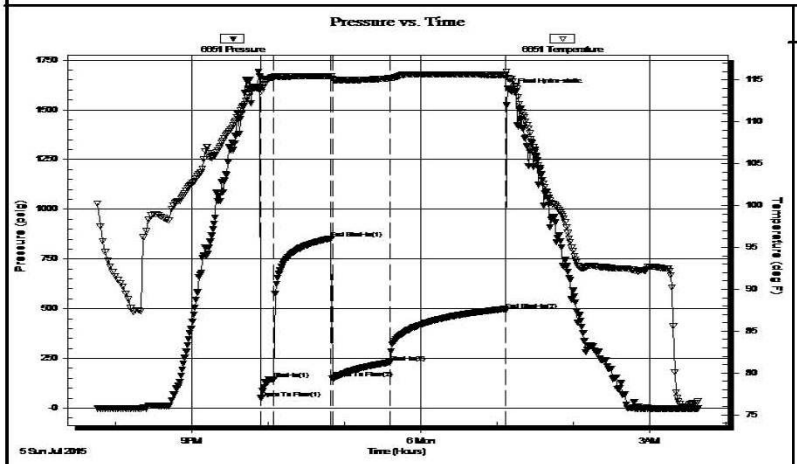
Interval: 3392.00 ft (KB) To 3438.00 ft (KB) (TVD)
Total Depth: 3438.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1912.00 ft (KB)
1901.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6651 **Inside**
Press@RunDepth: 490.77 psig @ 3434.00 ft (KB)
Start Date: 2015.07.05 End Date: 2015.07.06
Start Time: 19:46:00 End Time: 03:37:30

Capacity: 8000.00 psig
Last Calib.: 2015.07.06
Time On Btm: 2015.07.05 @ 21:49:30
Time Off Btm: 2015.07.06 @ 01:10:30

TEST COMMENT:
1st Open/ 10 minutes. Good blow built to bottom of 5 gallon bucket in 4 minutes and 15 seconds.
1st Shut In/ 45 minutes. Blow back built to 1 inch in 30 minutes then backed down to 1/2 inch by end of shut in
2nd Open/ 45 minutes. Good blow built to bottom of 5 gallon bucket in 5 minutes and 30 seconds.
2nd Shut In/ 90 minutes. Weak surface blow back that died at 30 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.45	113.97	Initial Hydro-static
5	50.18	113.60	Open To Flow (1)
15	146.04	115.26	Shut-In(1)
60	853.70	115.45	End Shut-In(1)
61	149.18	115.12	Open To Flow (2)
106	230.02	115.20	Shut-In(2)
197	490.77	115.60	End Shut-In(2)
201	1594.69	115.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	252 feet gas in pipe.	0.00
597.00	100% Clean gassy oil	6.10
63.00	Mud cut oil	0.88
0.00	10% mud, 90% oil.	0.00

Gas Rates

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

Shelby Nelson 1-27 dst3.jpg

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62005 **DST#: 3**

Test Start: 2015.07.06 @ 09:58:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:51:30
Time Test Ended: 17:41:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 56/30/Great Bend

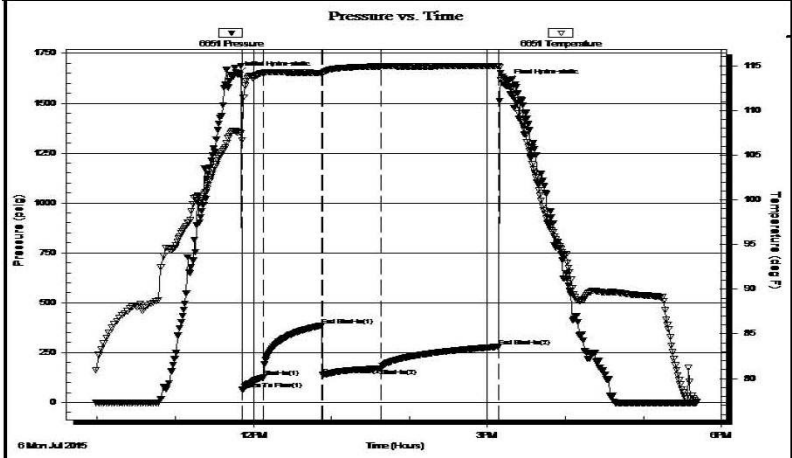
Interval: 3438.00 ft (KB) To 3444.00 ft (KB) (TVD)
Total Depth: 3444.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1912.00 ft (KB)
1901.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6651 **Inside**
Press@RunDepth: 171.29 psig @ 3440.00 ft (KB)
Start Date: 2015.07.06 End Date: 2015.07.06
Start Time: 09:59:00 End Time: 17:41:00

Capacity: 8000.00 psig
Last Calib.: 2015.07.06
Time On Btm: 2015.07.06 @ 11:48:30
Time Off Btm: 2015.07.06 @ 15:15:00

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes and 45 seconds.
1st Shut In/ 45 Minutes. Blow back built to 4 inches into water.
2nd Open/ 45 minutes. Good blow built to bottom of bucket in 6 minutes and 30 seconds.
2nd Shut In/ 90 Minutes. Weak surface blow that died at 30 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1645.18	107.55	Initial Hydro-static
3	66.30	106.67	Open To Flow (1)
19	125.49	114.20	Shut-In(1)
64	385.91	114.20	End Shut-In(1)
65	137.35	114.14	Open To Flow (2)
110	171.29	114.94	Shut-In(2)
200	279.87	114.99	End Shut-In(2)
207	1607.34	112.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	189 feet Gas in Pipe.	0.00
504.00	100% Clean gassy oil	4.80

Gas Rates

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

Shelby Nelson 1-27 dst4.jpg

DRILL STEM TEST REPORT

Shelby Resources LLC.

2717 Canal BLVD
Suite C
Hays Ks, 67601
ATTN: Jeremy Schwartz

27/18s/14w/Barton

Nelson #1-27

Job Ticket: 62006 **DST#: 4**

Test Start: 2015.07.07 @ 01:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:53:00
Time Test Ended: 09:55:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 56/30/Great Bend

Interval: 3444.00 ft (KB) To 3458.00 ft (KB) (TVD)
Total Depth: 3458.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

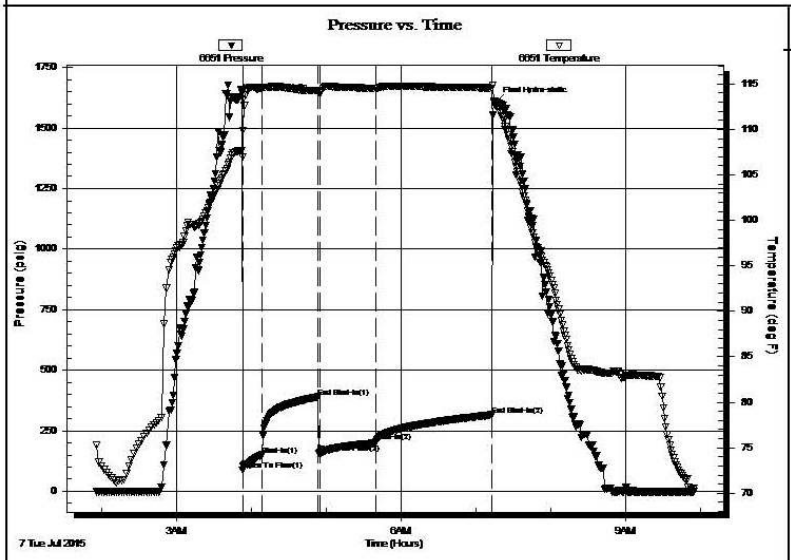
Reference Elevations: 1912.00 ft (KB)
1901.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6651 **Inside**

Press@RunDepth: 204.50 psig @ 3454.00 ft (KB)
Start Date: 2015.07.07 End Date: 2015.07.07
Start Time: 01:56:00 End Time: 09:55:00

Capacity: 8000.00 psig
Last Calib.: 2015.07.07
Time On Btm: 2015.07.07 @ 03:47:30
Time Off Btm: 2015.07.07 @ 07:16:30

TEST COMMENT: 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes and 10 seconds.
1st Shut In/ 45 minutes. Blow back built to 2 inches.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 8 minutes and 20 seconds.
2nd Shut In/ 90 Minutes. Weak surface blow back that died at 25 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1618.50	107.54	Initial Hydro-static
6	88.19	106.96	Open To Flow (1)
21	149.86	114.57	Shut-In(1)
66	389.77	114.29	End Shut-In(1)
68	157.80	114.10	Open To Flow (2)
113	204.50	114.52	Shut-In(2)
205	315.08	114.54	End Shut-In(2)
209	1605.74	112.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	189 Gas in pipe	0.00
378.00	100% Clean gassy oil	3.03
126.00	Gassy mud cut oil	1.77
0.00	20% gas, 30% mud, 50% oil	0.00

Gas Rates

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