KOLAR Document ID: 1477208

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
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: 13949 W COLFAX AVE BLDG 1 STE 120
Address 2:
City: LAKEWOOD State: CO Zip: 80401 + 3248
Contact Person: Chris Gottschalk
Phone: (785) 623-1524
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: Jeremy Schwartz
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ WSW ☐ SWD
☐ Gas ☑ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

9/27/2019	10/4/2019	10/4/2019
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-009-26273-00-00
Spot Description:
NW - SE - NW - NW Sec. 16 Twp. 18 S. R. 14 ☐ East ☑ West
902 Feet from ☑ North / ☐ South Line of Section
800 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: SLATTERY Well #: 1-16
Field Name:
Producing Formation: N/A
Elevation: Ground: 1959 Kelly Bushing: 1964
Total Vertical Depth: 3550 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 938 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: 6600 ppm Fluid volume: 1000 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT
I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY
☐ **Confidentiality Requested**
Date: 10/29/2019
☐ **Confidential Release Date:** 10/28/2021
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 10/30/2019

Operator Name: Shelby Resources LLC Lease Name: SLATTERY Well #: 1-16

Sec. 16 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 *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run:
Attached

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

Name	Top	Datum
Attached	Attached	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	938	60/40 Poz	350	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	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	SLATTERY 1-16
Doc ID	1477208

All Electric Logs Run

Dual Induction
Compensated Nuetron
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	SLATTERY 1-16
Doc ID	1477208

Tops

Name	Top	Datum
TOPEKA	2926	-962
HEEBNER	3145	-1181
LKC	3222	-1258
MUNCIE CREEK	3355	-1391
STARK SHALE	3408	-1444
BKC	3431	-1467
ARBUCKLE	3466	-1502
LTD	3545	-1581

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	SLATTERY 1-16
Doc ID	1477208

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	938	60/40 Poz	350	2% gel/3%cc

DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

13949 W Colfax bld.1 Sut 120
Lakewood ,Colorado 80401

ATTN: Jeremy Schwartz

Slattery #1-16

16-18s-14w

Start Date: 2019.10.01 @ 12:00:00

End Date: 2019.10.01 @ 18:11:00

Job Ticket #: 01372 DST #: 1

Eagle Testers

1309 Patton Road Great Bend, Kansas 67530

620-791-7394

Printed: 2019.10.01 @ 17:23:19

DRILL STEM TEST REPORT

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01372 **DST#: 1**

Test Start: 2019.10.01 @ 12:00:00

GENERAL INFORMATION:

Formation: **Kansas City "A-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:49:00
Time Test Ended: 18:11:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 1

Interval: 3224.00 ft (KB) To 3310.00 ft (KB) (TVD)
Total Depth: 3310.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

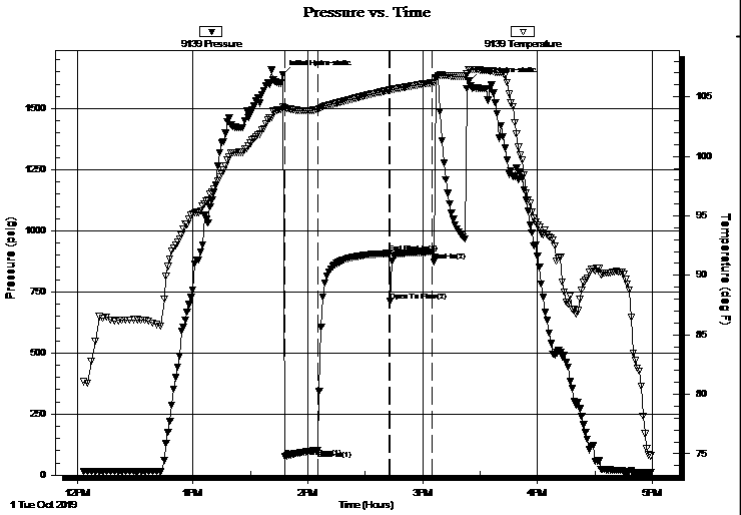
Reference Elevations: 1964.00 ft (KB)
1959.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 9139

Press@RunDepth: 907.89 psig @ ft (KB)
Start Date: 2019.10.01 End Date: 2019.10.01
Start Time: 12:00:00 End Time: 16:59:00

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.01 @ 13:47:00
Time Off Btm: 2019.10.01 @ 15:24:00

TEST COMMENT: 1st Opening 15 Minutes w eak 1/2 blow to w eak surface blow
1st Shut-In 45 Minutes
2nd Opening 36 Minutes no blow flushed tool no help
2nd Shut-In none taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.70	104.14	Initial Hydro-static
1	75.16	104.06	Open To Flow (1)
18	102.13	103.92	Shut-In(1)
56	907.89	105.56	End Shut-In(1)
56	711.43	105.53	Open To Flow (2)
78	913.02	106.18	Shut-In(2)
97	1612.48	107.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	drilling mud	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01372 **DST#: 1**

Test Start: 2019.10.01 @ 12:00:00

GENERAL INFORMATION:

Formation: **Kansas City "A-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:49:00
Time Test Ended: 18:11:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 1

Interval: 3224.00 ft (KB) To 3310.00 ft (KB) (TVD)
Total Depth: 3310.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

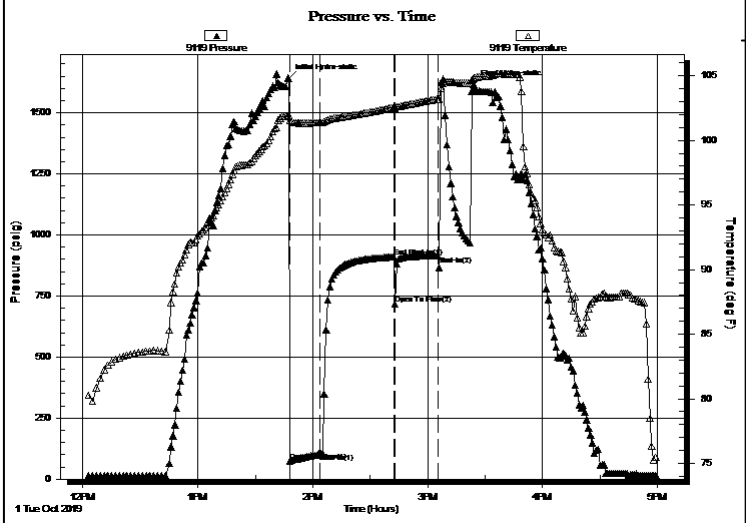
Reference Elevations: 1964.00 ft (KB)
1959.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 9119

Press@RunDepth: 909.85 psig @ ft (KB)
Start Date: 2019.10.01 End Date: 2019.10.01
Start Time: 12:00:00 End Time: 16:59:00

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.01 @ 13:47:30
Time Off Btm: 2019.10.01 @ 15:24:00

TEST COMMENT: 1st Opening 15 Minutes w eak 1/2 blow to w eak surface blow
1st Shut-In 45 Minutes
2nd Opening 36 Minutes no blow flushed tool no help
2nd Shut-In none taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.38	101.95	Initial Hydro-static
1	74.92	101.52	Open To Flow (1)
16	103.93	101.37	Shut-In(1)
55	909.85	102.56	End Shut-In(1)
56	716.14	102.50	Open To Flow (2)
78	915.20	103.20	Shut-In(2)
97	1616.27	104.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	drilling mud	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01372 **DST#: 1**

Test Start: 2019.10.01 @ 12:00:00

Tool Information

Drill Pipe:	Length:	3102.00 ft	Diameter:	3.80 inches	Volume:	43.51 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:	120.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		52000.00 lb
					Total Volume:	43.51 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		28.00 ft					String Weight:	Initial	44000.00 lb
Depth to Top Packer:		3224.00 ft						Final	44000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		86.17 ft							
Tool Length:		116.17 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			3199.00		
Hydraulic tool	5.00			3204.00		
Jars	5.00			3209.00		
Safety Joint	5.00			3214.00		
Packer	5.00			3219.00	30.00	Bottom Of Top Packer
Packer	5.00		Fluid	3224.00		
Anchor	5.00			3229.00		
Change Over Sub	0.75			3229.75		
Drill Pipe	62.67			3292.42		
Change Over Sub	0.75		Inside	3293.17		
Anchor	12.00			3305.17		
Recorder	0.00	9139	Inside	3305.17		
Recorder	0.00	9119	Outside	3305.17		
Bullnose	5.00			3310.17	86.17	Bottom Packers & Anchor
Total Tool Length:	**116.17**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01372 **DST#: 1**

Test Start: 2019.10.01 @ 12:00:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.60 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

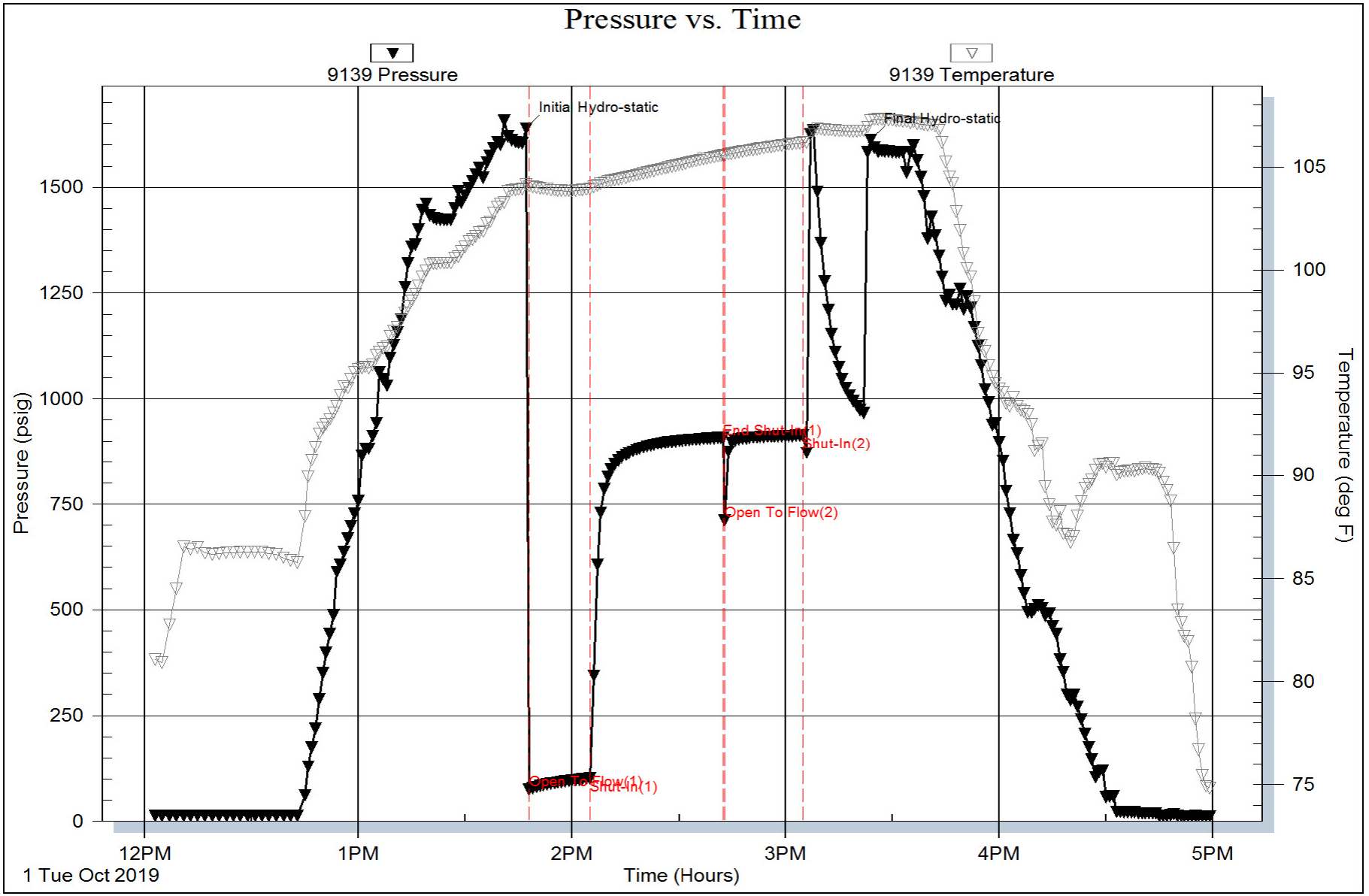
Recovery Table

Length ft	Description	Volume bbl
60.00	drilling mud	0.000

Total Length: 60.00 ft Total Volume: bbl

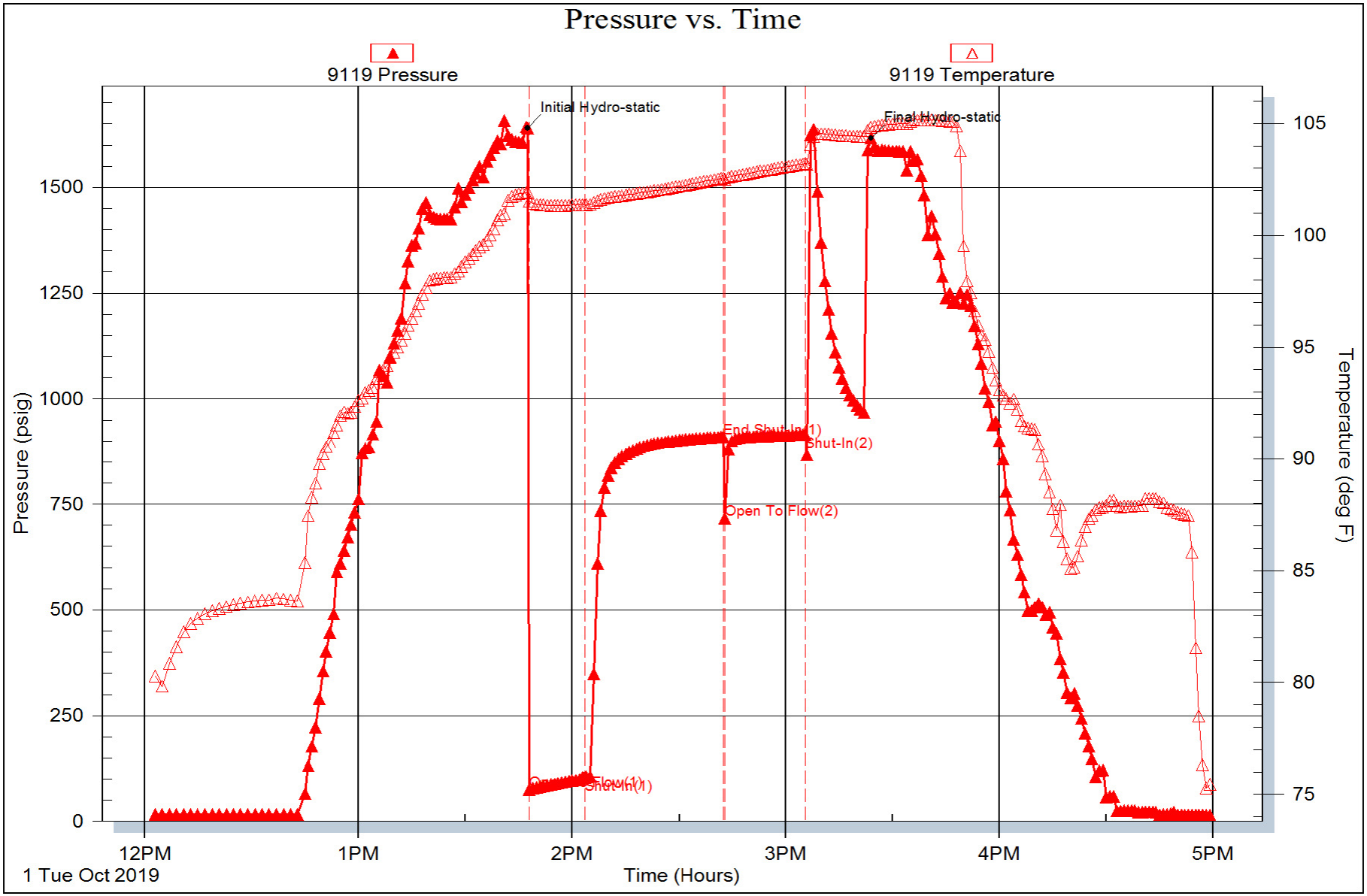
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 9139 | Shelby Resources LLC | Slattery #1-16 | DST Test Number: 1



Eagle Testers | Ref. No: 01372 | Printed: 2019.10.01 @ 17:23:21

Serial #: 9119 | Shelby Resources LLC | Slattery #1-16 | DST Test Number: 1



Eagle Testers | Ref. No: 01372 | Printed: 2019.10.01 @ 17:23:21

DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

13949 W Colfax bld.1 Sut 120
Lakewood ,Colorado 80401

ATTN: Jeremy Schwartz

Slattery #1-16

16-18s-14w

Start Date: 2019.10.02 @ 07:51:00
End Date: 2019.10.02 @ 12:15:00
Job Ticket #: 01373 DST #: 2

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2019.10.02 @ 12:35:06

DRILL STEM TEST REPORT

Shelby Resources LLC

13949 W Colfax bld.1 Suit 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01373 **DST#: 2**

Test Start: 2019.10.02 @ 07:51:00

GENERAL INFORMATION:

Formation: **kansas City "H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:38:00
Time Test Ended: 12:15:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig1
Unit No: 1

Interval: 3353.00 ft (KB) To 3438.00 ft (KB) (TVD)
Total Depth: 3438.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

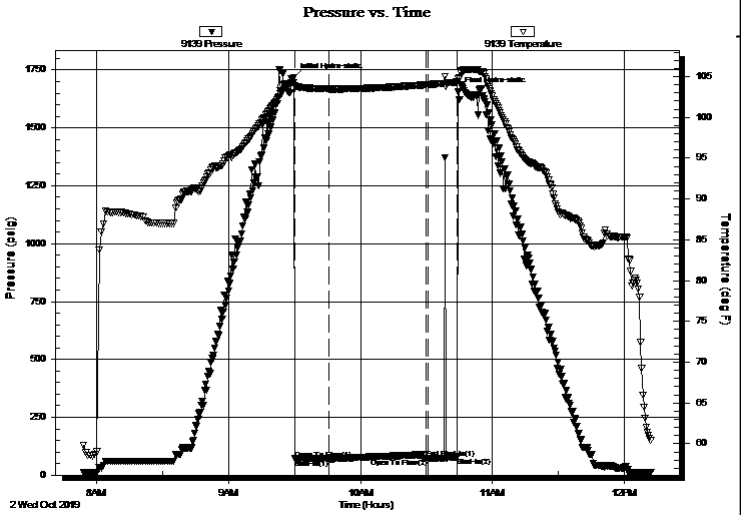
Reference Elevations: 1964.00 ft (KB)
1959.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 9139

Press@RunDepth: 72.68 psig @ ft (KB)
Start Date: 2019.10.02 End Date: 2019.10.02
Start Time: 07:51:00 End Time: 12:12:00

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.02 @ 09:29:30
Time Off Btm: 2019.10.02 @ 10:44:30

TEST COMMENT: 1st Opening 15 Minutes w eak 1/2 inblow decreased to w eak surface blow
1st Shut-In 45 Minutes
2nd Opening 25 Minutes no blow flushed tool no help
2nd Shut-In None taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.64	104.25	Initial Hydro-static
1	69.95	103.87	Open To Flow (1)
16	70.06	103.49	Shut-In(1)
61	72.68	104.01	End Shut-In(1)
61	72.69	104.02	Open To Flow (2)
75	76.11	104.33	Shut-In(2)
75	1657.89	104.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drilling Mud32	0.10

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01373 **DST#: 2**

Test Start: 2019.10.02 @ 07:51:00

GENERAL INFORMATION:

Formation: **kansas City "H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:38:00
Time Test Ended: 12:15:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig1
Unit No: 1

Interval: 3353.00 ft (KB) To 3438.00 ft (KB) (TVD)
Total Depth: 3438.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

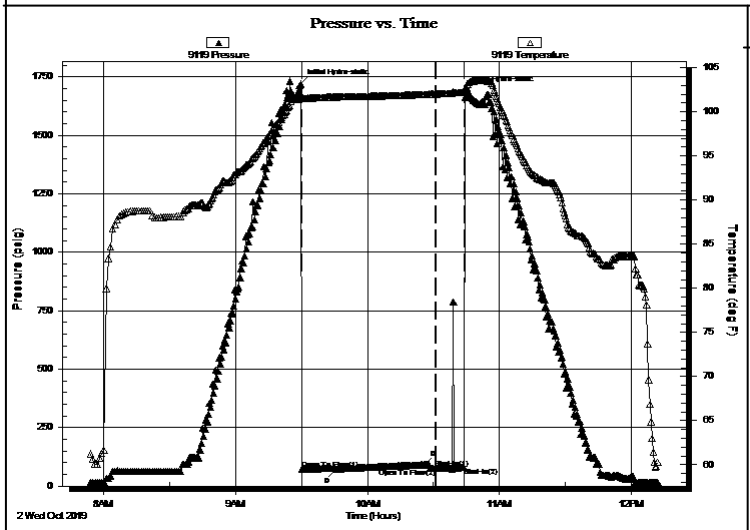
Reference Elevations: 1964.00 ft (KB)
1959.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 9119

Press@RunDepth: psig @ ft (KB)
Start Date: 2019.10.02 End Date: 2019.10.02
Start Time: 07:51:00 End Time: 12:12:00

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.02 @ 09:29:30
Time Off Btm: 2019.10.02 @ 10:45:00

TEST COMMENT: 1st Opening 15 Minutes w eak 1/2 inblow decreased to w eak surface blow
1st Shut-In 45 Minutes
2nd Opening 25 Minutes no blow flushed tool no help
2nd Shut-In None taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.07	102.06	Initial Hydro-static
1	72.84	101.53	Open To Flow (1)
16	73.35	101.68	0
56	90.89	101.97	0
61	75.94	102.02	Shut-In(1)
62	75.99	102.02	Open To Flow (2)
75	79.26	102.17	Shut-In(2)
76	1691.76	102.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drilling Mud32	0.10

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01373 **DST#: 2**

Test Start: 2019.10.02 @ 07:51:00

Tool Information

Drill Pipe:	Length:	3225.00 ft	Diameter:	3.80 inches	Volume:	45.24 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:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:		85000.00 lb
					Total Volume:	45.83 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		22.00 ft					String Weight:	Initial	47000.00 lb
Depth to Top Packer:		3353.00 ft						Final	47000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		85.06 ft							
Tool Length:		115.06 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			3328.00		
Hydraulic tool	5.00			3333.00		
Jars	5.00			3338.00		
Safety Joint	5.00			3343.00		
Packer	5.00			3348.00	30.00	Bottom Of Top Packer
Packer	5.00		Fluid	3353.00		
Anchor	5.00			3358.00		
Change Over Sub	0.75			3358.75		
Drill Pipe	63.56			3422.31		
Change Over Sub	0.75		Inside	3423.06		
Anchor	10.00			3433.06		
Recorder	0.00	9119	Inside	3433.06		
Recorder	0.00	9139	Outside	3433.06		
Bullnose	5.00			3438.06	85.06	Bottom Packers & Anchor
Total Tool Length:	**115.06**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01373 **DST#: 2**

Test Start: 2019.10.02 @ 07:51:00

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:	8.80 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

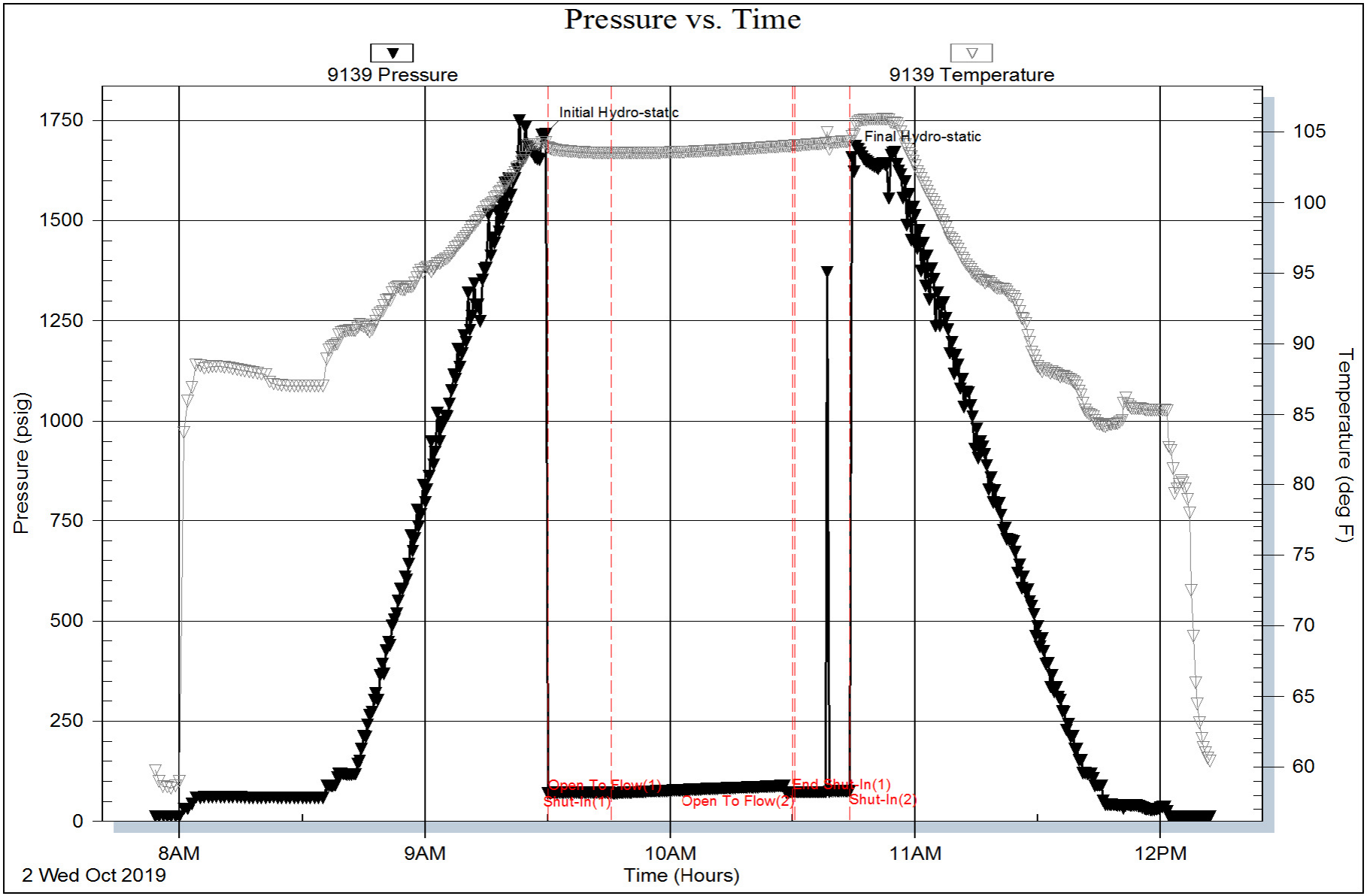
Recovery Table

Length ft	Description	Volume bbl
20.00	Drilling Mud32	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

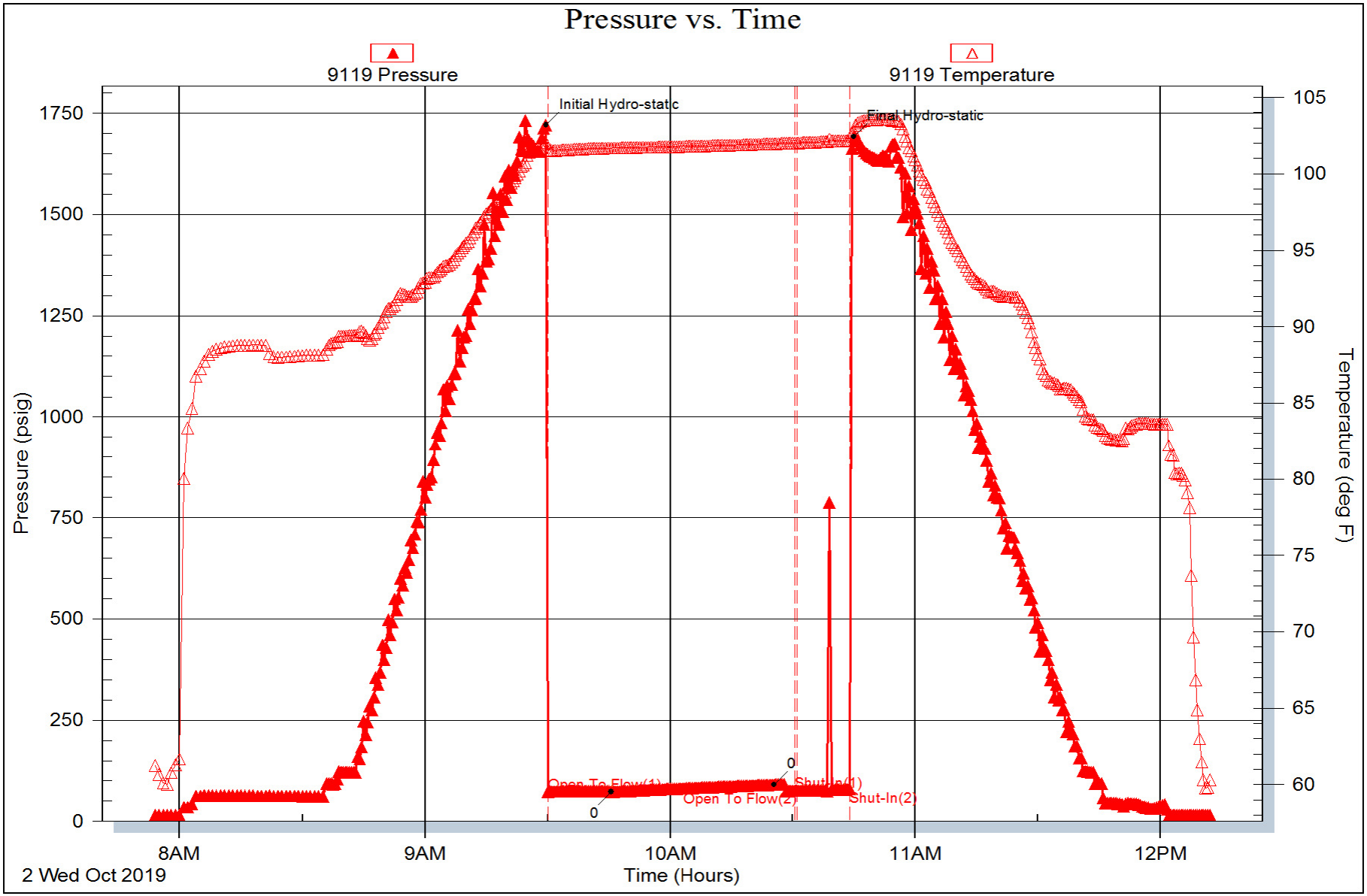
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 9139 | Shelby Resources LLC | Slattery #1-16 | DST Test Number: 2



Eagle Testers | Ref. No: 01373 | Printed: 2019.10.02 @ 12:35:07

Serial #: 9119 | Shelby Resources LLC | Slattery #1-16 | DST Test Number: 2



Eagle Testers | Ref. No: 01373 | Printed: 2019.10.02 @ 12:35:08

DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

13949 W Colfax bld.1 Sut 120
Lakewood ,Colorado 80401

ATTN: Jeremy Schwartz

Slattery #1-16

16-18s-14w

Start Date: 2019.10.03 @ 21:24:00

End Date: 2019.10.03 @ 02:01:00

Job Ticket #: 01374 DST #: 3

Eagle Testers

1309 Patton Road Great Bend, Kansas 67530

620-791-7394

Printed: 2019.10.03 @ 02:32:03

DRILL STEM TEST REPORT

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01374 **DST#: 3**

Test Start: 2019.10.03 @ 21:24:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:15:00
Time Test Ended: 02:01:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 1

Interval: 3434.00 ft (KB) To 3481.00 ft (KB) (TVD)
Total Depth: 3481.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

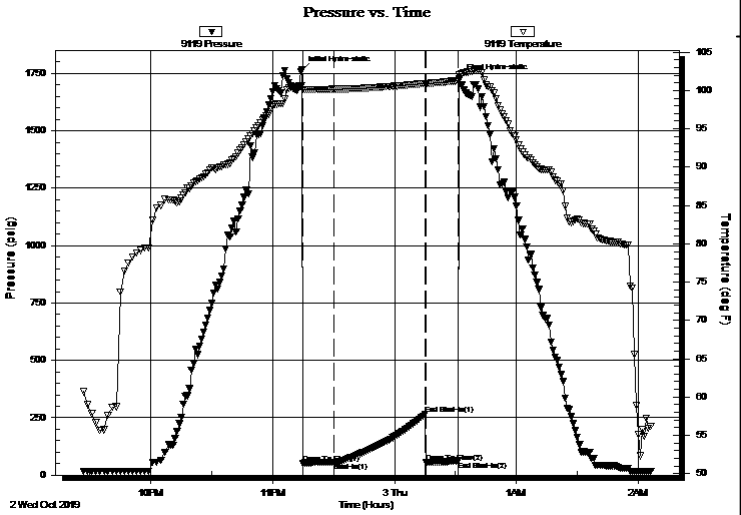
Reference Elevations: 1964.00 ft (KB)
1959.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 9119

Press@RunDepth: 61.09 psig @ ft (KB)
Start Date: 2019.10.02 End Date: 2019.10.03
Start Time: 21:27:00 End Time: 02:06:00

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.02 @ 23:14:30
Time Off Btm: 2019.10.03 @ 00:32:00

TEST COMMENT: 1st Opening 15 Minutes w eak surfasce blow for 14 minutes and died
1st Shut-In 45 Minutes
2nd Opening 20 Minutes no blow flushed tool no help
2nd AShut-In None Taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1764.38	100.61	Initial Hydro-static
1	51.95	100.16	Open To Flow (1)
16	55.97	100.16	Shut-In(1)
61	264.78	100.94	End Shut-In(1)
61	57.38	100.91	Open To Flow (2)
77	61.09	101.28	End Shut-In(2)
78	1725.91	102.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	very slightly oil cut mud 3% Oil 97% Mud	0.10

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01374 **DST#: 3**

Test Start: 2019.10.03 @ 21:24:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:15:00
Time Test Ended: 02:01:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 1

Interval: 3434.00 ft (KB) To 3481.00 ft (KB) (TVD)
Total Depth: 3481.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

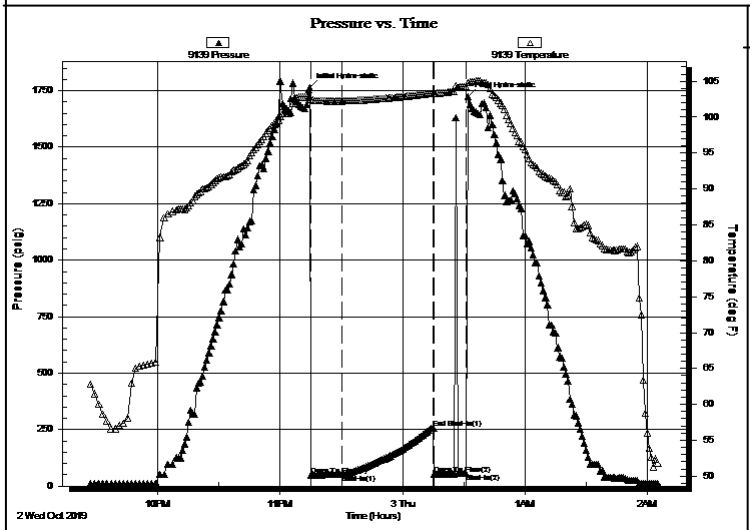
Reference Elevations: 1964.00 ft (KB)
1959.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 9139

Press@RunDepth: 257.38 psig @ ft (KB)
Start Date: 2019.10.02 End Date: 2019.10.03
Start Time: 21:27:00 End Time: 02:05:30

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.02 @ 23:14:30
Time Off Btm: 2019.10.03 @ 00:32:00

TEST COMMENT: 1st Opening 15 Minutes w eak surfasce blow for 14 minutes and died
1st Shut-In 45 Minutes
2nd Opening 20 Minutes no blow flushed tool no help
2nd AShut-In None Taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.05	102.84	Initial Hydro-static
1	48.31	102.44	Open To Flow (1)
16	51.89	102.26	Shut-In(1)
61	257.38	103.33	End Shut-In(1)
61	53.32	103.30	Open To Flow (2)
77	57.39	104.30	Shut-In(2)
78	1723.08	104.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	very slightly oil cut mud 3% Oil 97% Mud	0.10

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01374 **DST#: 3**

Test Start: 2019.10.03 @ 21:24:00

Tool Information

Drill Pipe:	Length:	3312.00 ft	Diameter:	3.80 inches	Volume:	46.46 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:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:		78000.00 lb
					Total Volume:	47.05 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		28.00 ft					String Weight:	Initial	46000.00 lb
Depth to Top Packer:		3434.00 ft						Final	46000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		46.76 ft							
Tool Length:		76.76 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			3409.00		
Hydraulic tool	5.00			3414.00		
Jars	5.00			3419.00		
Safety Joint	5.00			3424.00		
Packer	5.00			3429.00	30.00	Bottom Of Top Packer
Packer	5.00		Fluid	3434.00		
Anchor	5.00			3439.00		
Change Over Sub	0.75			3439.75		
Drill Pipe	31.26			3471.01		
Change Over Sub	0.75		Inside	3471.76		
Anchor	4.00			3475.76		
Recorder	0.00	9119	Inside	3475.76		
Recorder	0.00	9139	Outside	3475.76		
Bullnose	5.00			3480.76	46.76	Bottom Packers & Anchor
Total Tool Length:	**76.76**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01374 **DST#: 3**

Test Start: 2019.10.03 @ 21:24:00

Mud and Cushion Information

Mud Type:	Water	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:	8.29 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

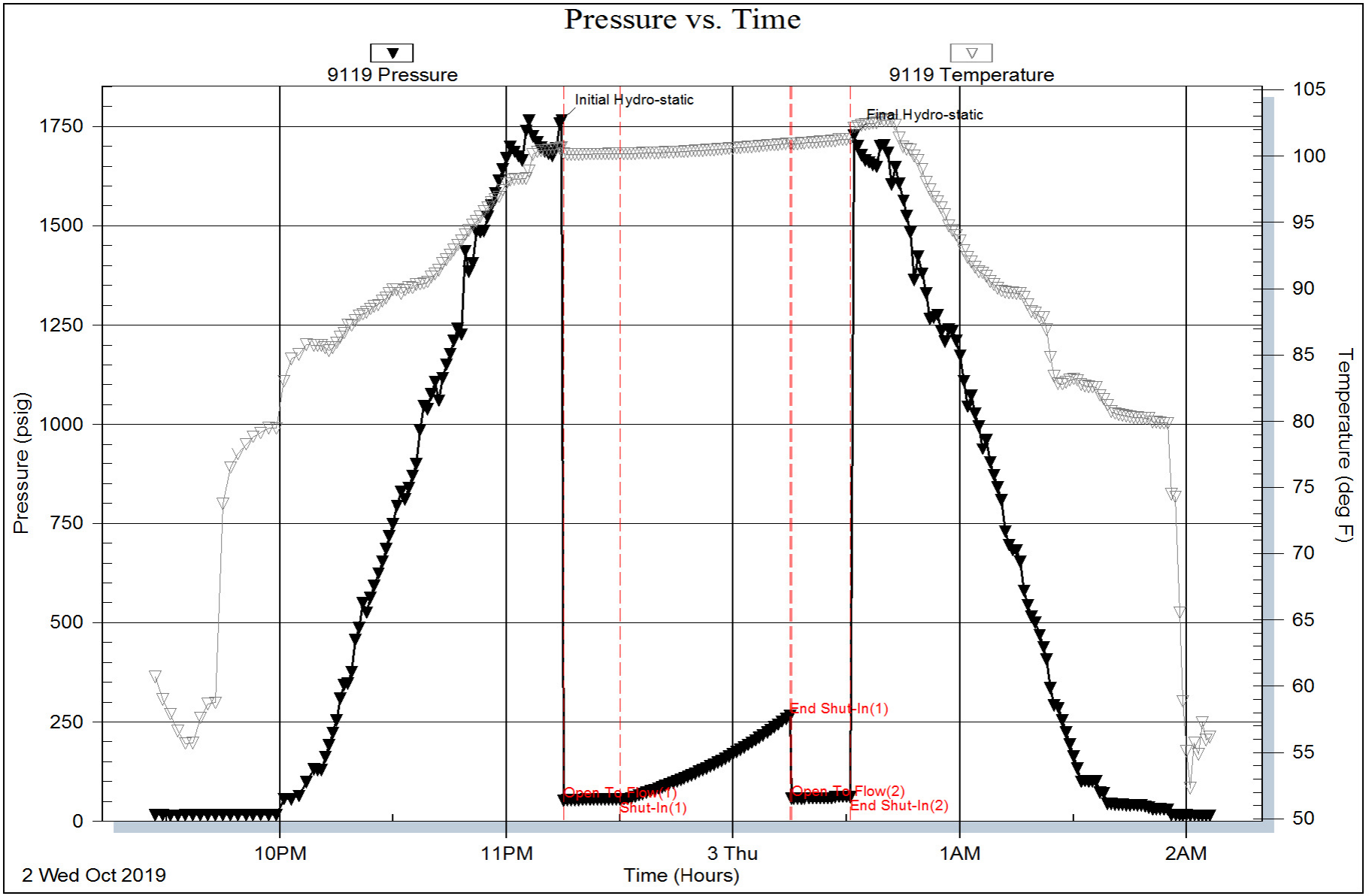
Recovery Table

Length ft	Description	Volume bbl
20.00	very slightly oil cut mud 3% Oil 97% Mud	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

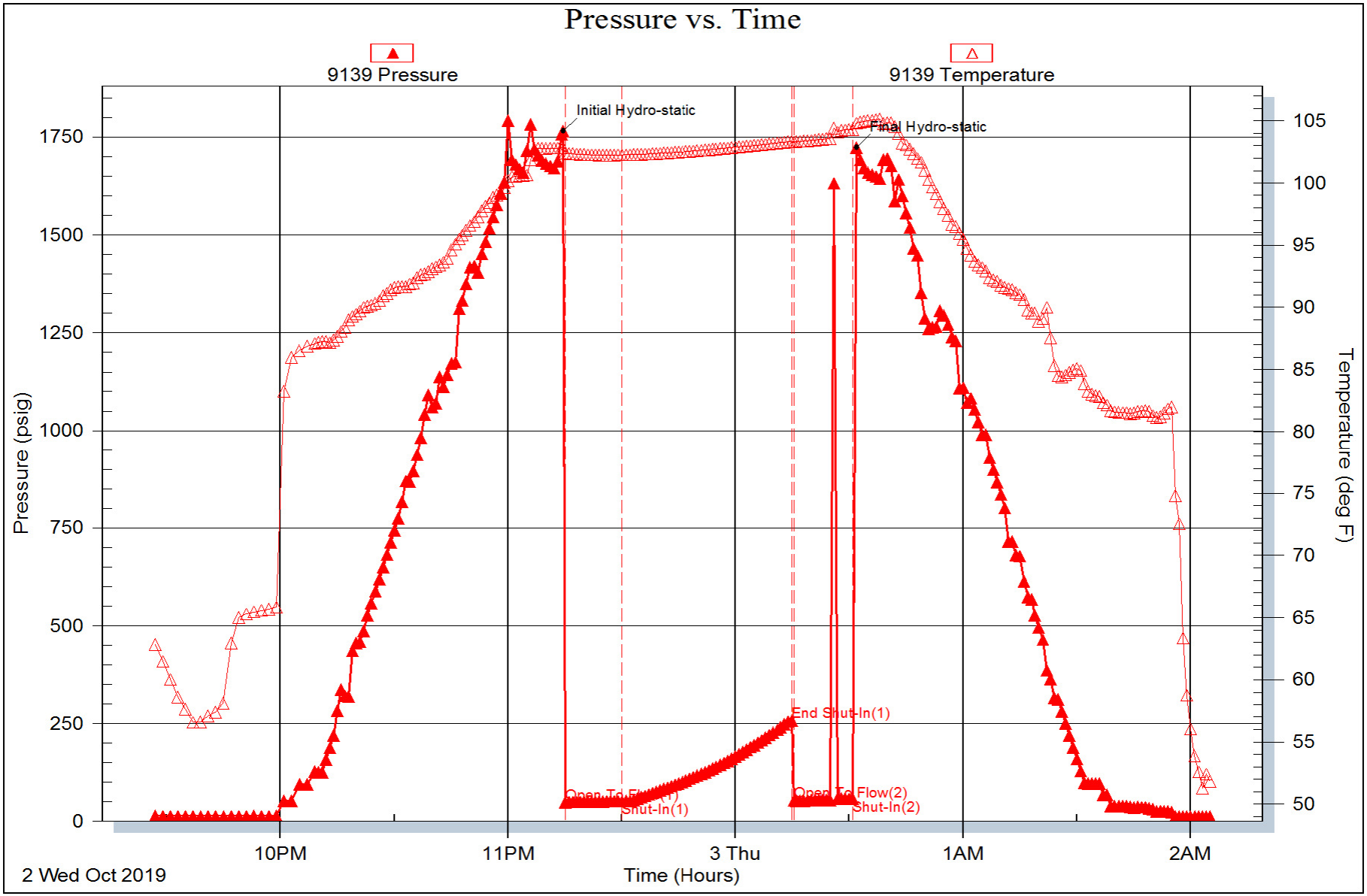
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 9119 | Shelby Resources LLC | Slattery #1-16 | DST Test Number: 3



Eagle Testers | Ref. No: 01374 | Printed: 2019.10.03 @ 02:32:05

Serial #: 9139 | Shelby Resources LLC | Slattery #1-16 | DST Test Number: 3



Eagle Testers | Ref. No: 01374 | Printed: 2019.10.03 @ 02:32:06

DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

13949 W Colfax bld.1 Sut 120
Lakewood ,Colorado 80401

ATTN: Jeremy Schwartz

Slattery #1-16

16-18s-14w

Start Date: 2019.10.03 @ 07:35:00

End Date: 2019.10.03 @ 00:00:00

Job Ticket #: 01375 DST #: 4

Eagle Testers

1309 Patton Road Great Bend, Kansas 67530

620-791-7394

Printed: 2019.10.03 @ 14:03:38

DRILL STEM TEST REPORT

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01375 **DST#: 4**

Test Start: 2019.10.03 @ 07:35:00

GENERAL INFORMATION:

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

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No:

Interval: 3478.00 ft (KB) To 3487.00 ft (KB) (TVD)
Total Depth: 3487.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

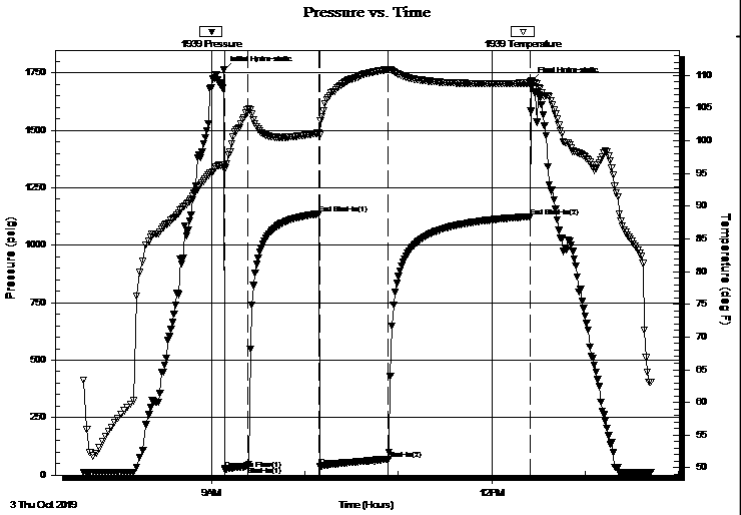
Reference Elevations: 1964.00 ft (KB)
1959.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 1939

Press@RunDepth: 1125.02 psig @ ft (KB)
Start Date: 2019.10.03 End Date: 2019.10.03
Start Time: 07:35:00 End Time: 13:42:00

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.03 @ 09:08:00
Time Off Btm: 2019.10.03 @ 12:25:30

TEST COMMENT: 1st opening 15 Minutes w eak blkow built to 2 inches into the w ater
1st Shut-In 45 Minutes
2nd Opening 45 Minutes w eak blow built to 3 nches into the w ater
2nd Shut-In 90 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.59	96.31	Initial Hydro-static
1	25.92	95.52	Open To Flow (1)
15	37.98	104.67	Shut-In(1)
61	1136.83	101.19	End Shut-In(1)
62	39.73	100.86	Open To Flow (2)
106	70.04	110.87	Shut-In(2)
197	1125.02	108.80	End Shut-In(2)
198	1710.92	109.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	hlorides	0.44
0.00	not a speck of oil	0.00
0.00	chlorides 16,000	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01375 **DST#: 4**

Test Start: 2019.10.03 @ 07:35:00

GENERAL INFORMATION:

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

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No:

Interval: 3478.00 ft (KB) To 3487.00 ft (KB) (TVD)
Total Depth: 3487.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

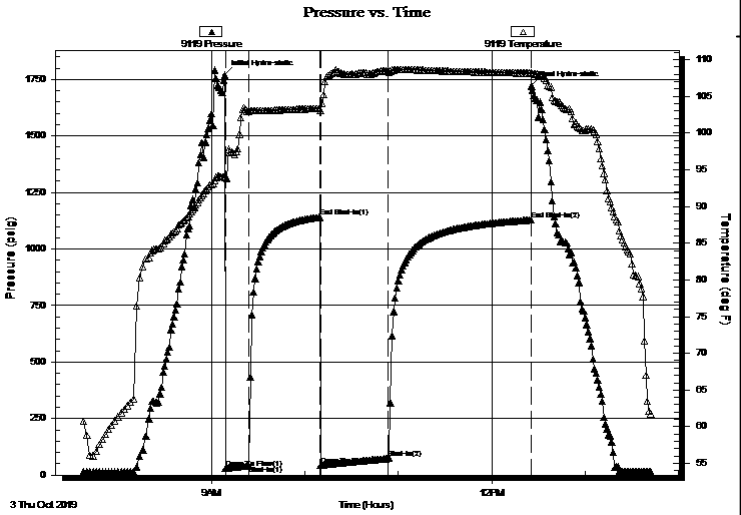
Reference Elevations: 1964.00 ft (KB)
1959.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 9119

Press@RunDepth: 1128.43 psig @ ft (KB)
Start Date: 2019.10.03 End Date: 2019.10.03
Start Time: 07:35:00 End Time: 13:42:30

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.03 @ 09:08:30
Time Off Btm: 2019.10.03 @ 12:25:30

TEST COMMENT: 1st opening 15 Minutes w eak blkow built to 2 inches into the w ater
1st Shut-In 45 Minutes
2nd Opening 45 Minutes w eak blow built to 3 nches into the w ater
2nd Shut-In 90 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1769.73	94.06	Initial Hydro-static
1	31.21	93.88	Open To Flow (1)
16	41.64	102.89	Shut-In(1)
61	1140.51	103.36	End Shut-In(1)
62	43.54	103.06	Open To Flow (2)
105	72.95	108.33	Shut-In(2)
197	1128.43	108.17	End Shut-In(2)
197	1720.78	108.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	hlorides	0.44
0.00	not a speck of oil	0.00
0.00	chlorides 16,000	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01375 **DST#: 4**

Test Start: 2019.10.03 @ 07:35:00

Tool Information

Drill Pipe:	Length:	3344.00 ft	Diameter:	3.80 inches	Volume:	46.91 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:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:		68000.00 lb
					Total Volume:	47.50 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		16.00 ft					String Weight:	Initial	46000.00 lb
Depth to Top Packer:		3478.00 ft						Final	46000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		9.00 ft							
Tool Length:		39.00 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			3453.00		
Hydraulic tool	5.00			3458.00		
Jars	5.00			3463.00		
Safety Joint	5.00			3468.00		
Packer	5.00			3473.00	30.00	Bottom Of Top Packer
Packer	5.00		Fluid	3478.00		
Anchor	4.00			3482.00		
Recorder	0.00	9119	Inside	3482.00		
Recorder	0.00	9139	Outside	3482.00		
Bullnose	5.00			3487.00	9.00	Bottom Packers & Anchor
Total Tool Length:	**39.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01375 **DST#: 4**

Test Start: 2019.10.03 @ 07:35:00

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:	9.60 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6600.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

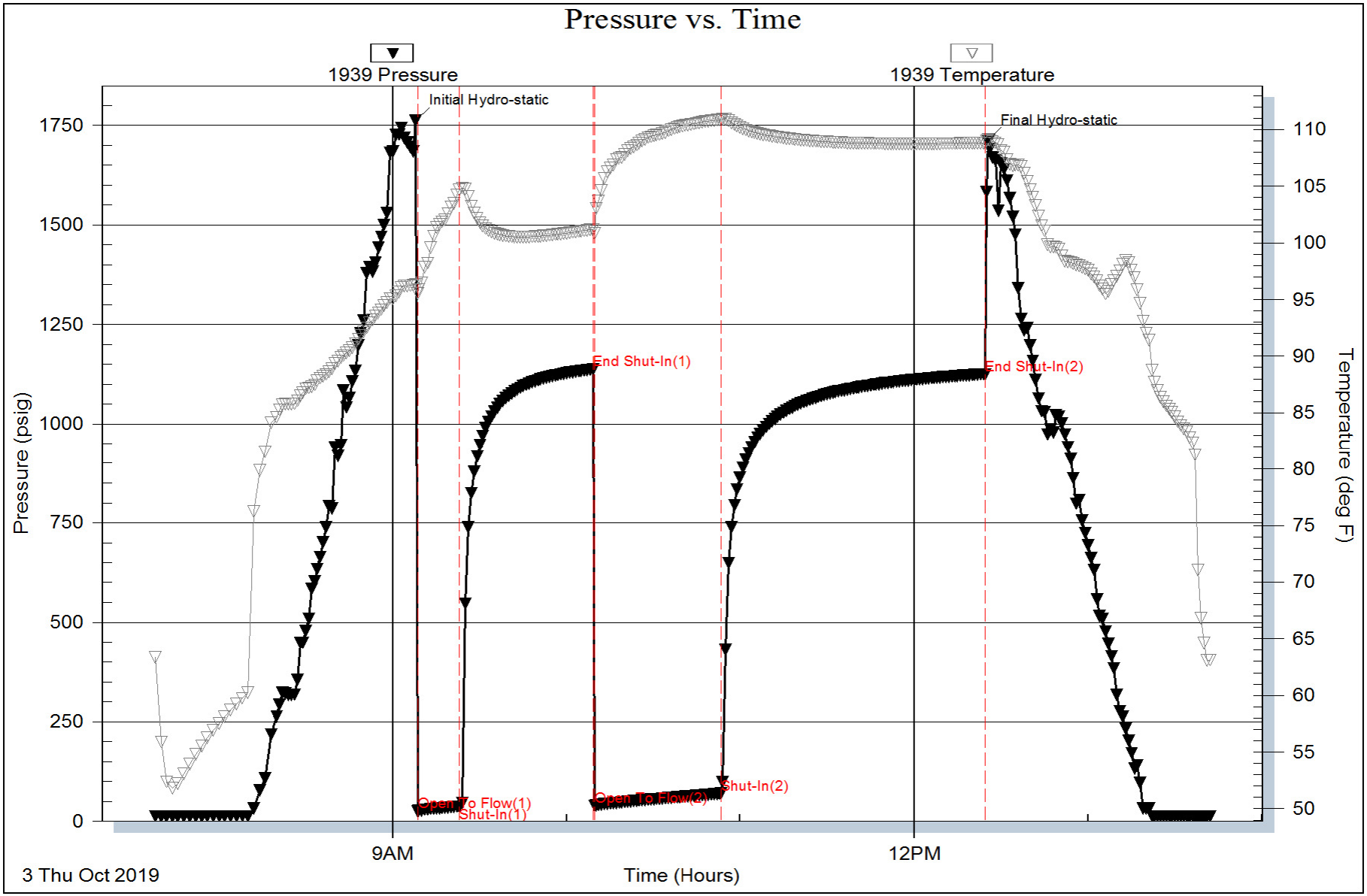
Recovery Table

Length ft	Description	Volume bbl
90.00	hlorides	0.443
0.00	not a speck of oil	0.000
0.00	chlorides 16,000	0.000

Total Length: 90.00 ft Total Volume: 0.443 bbl

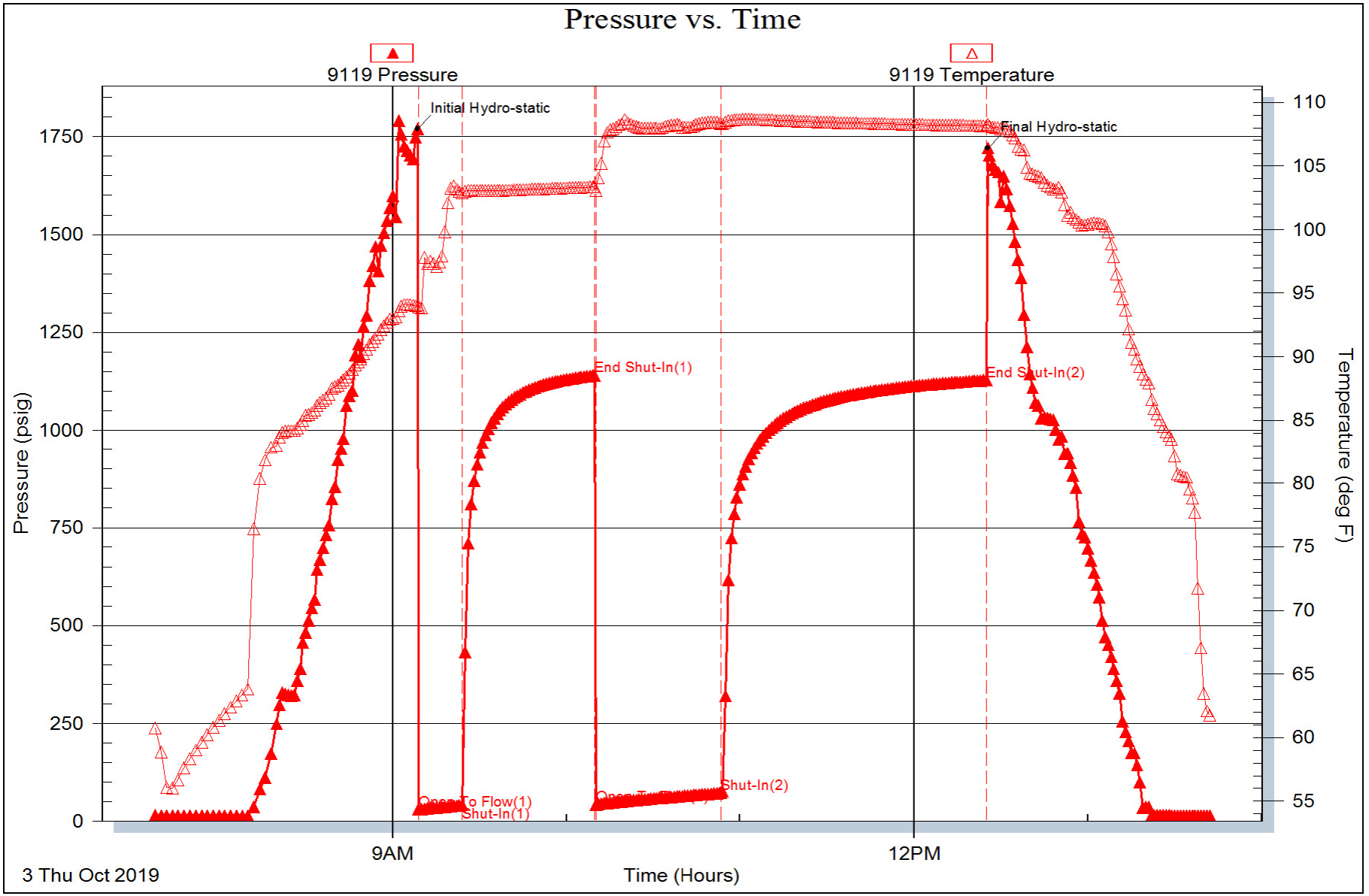
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 1939 Shelby Resources LLC Slattery #1-16 DST Test Number: 4



Eagle Testers Ref. No: 01375 Printed: 2019.10.03 @ 14:03:40

Serial #: 9119 | Shelby Resources LLC | Slattery #1-16 | DST Test Number: 4



Eagle Testers | Ref. No: 01375 | Printed: 2019.10.03 @ 14:03:41

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071 **Home Office P.O. Box 32 Russell, KS 67665** **No. 1719**

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-28-19	16	18	14	Barton	Ks		12:45 PM

Location 281 & 4 Jct, 3S to 90 Rd, 2W, 4S

Lease Slattery — Well No. 1-16 — Owner E Into

Contractor WW #108

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.	938'
Csg.	8 5/8"	Depth	938'
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.	40'	Shoe Joint	40'
Meas Line		Displace	57 BW

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 4% CC 2% Gel

EQUIPMENT

Pumptrk 17	No.	Cementer / Helper	David
Bulktrk 21	No.	Driver / Driver	Doug
~~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

Thanks

Common	210
Poz. Mix	140
Gel.	
Calcium	15
Hulls	6
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	325
Mileage	

FLOAT EQUIPMENT

~~Guide Shoe~~	Baffle plate
~~Centralizer~~	Rubber plug
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Long Surface
Mileage	15
Tax	
Discount	
Total Charge	

X Signature Scott Ford

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071 **Home Office P.O. Box 32 Russell, KS 67665** **No. 1723**

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-4-19	16	18	14	Barton	KS		9:45 AM

Location 281 + 4 Hwy Jct, - 3S on Boyd Rd to 90 Rd, 2W, 1/4S, E into

Lease Slattery Well No. 1-16

Owner

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Contractor WW #108

Type Job Plug

Hole Size 7 7/8" T.D. 3550'

Charge To Shelby Resources

Csg. Depth

Street

Tbg. Size 4 1/2" D.P. Depth 3446'

City State

Tool Depth

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

Cement Left in Csg. Shoe Joint

Cement Amount Ordered 220 60/40 4% Gel 1/4# Flo seal

Meas Line Displace H20/mud

EQUIPMENT

Pumptrk 17 No. Cementer Helper David

Bulktrk 3 No. Driver Driver Doug

~~Bulktrk~~ P.U. No. Driver Driver Rick

JOB SERVICES & REMARKS

Remarks: 3446' - 50sx

Rat Hole

Mouse Hole 938' - 50sx

Centralizers

Baskets 405' - 80sx

D/V or Port Collar

40' - 10 sx w/ plug

Rathole w/ 30sx

Cement Did Circulate

thanks

Common	132
Poz. Mix	88
Gel.	8
Calcium	
Hulls	
Salt	
Flowseal	50#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	228
Mileage	

FLOAT EQUIPMENT

~~Guide Shoe~~	Dry hole plug
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	plug
Mileage 15	
Tax	
Discount	
Total Charge	

X Signature

Scale 1:240 Imperial

Well Name:	Slattery 1-16		
Surface Location:	902' FNL _800' FWL, Sec. 16-T18s-R14w		
Bottom Location:			
API:	15-009-26273-00-00		
License Number:			
Spud Date:	9/27/2019	Time:	4:15 AM
Region:	Barton		
Drilling Completed:	10/3/2019	Time:	6:15 PM
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation:	1959.00ft		
K.B. Elevation:	1964.00ft		
Logged Interval:	2900.00ft	To:	3550.00ft
Total Depth:	3550.00ft		
Formation:	Lansing Kansas-City		
Drilling Fluid Type:	Chemical/Fresh Water Gel		

OPERATOR

Company:	Shelby Resources, LLC		
Address:	13949 W Colfax Ave., Bldg 1, Ste 120 Lakewood, CO 80401		
Contact Geologist:	Janine Sturdavant		
Contact Phone Nbr:	303-907-2209 / 720-274-4682		
Well Name:	Slattery 1-16		
Location:	902' FNL _800' FWL, Sec. 16-T18s-R14w		
API:	15-009-26273-00-00		
Pool:		Field:	
State:	Kansas	Country:	USA

LOGGED BY

Company:	Shelby Resources, LLC		
Address:	13949 W Colfax Ave., Bldg 1, Ste 120 Lakewood, CO 80401		
Phone Nbr:	203-671-6034		
Logged By:	Geologist	Name:	Jeremy Schwartz

NOTES

The Shelby Resources, LLC Slattery #1-16 was drilled to a total depth of 3550', bottoming in the Arbuckle. A Pason gas detector was employed in the drilling of said well.

Four DST's were conducted during the drilling of this well throughout the Lansing and Arbuckle zones. The DST reports can be found at the bottom of this log.

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

NOTE: The Log tops are 4-6' high to the Drill Time/Sample Tops so all DST's need to moved up accordingly

Respectfully Submitted,
Jeremy Schwartz
Geologist

CONTRACTOR

Contractor:	W.W. Drilling		
Rig #:	8		
Rig Type:	mud rotary		
Spud Date:	9/27/2019	Time:	4:15 AM
TD Date:	10/3/2019	Time:	6:15 PM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	1964.00ft	Ground Elevation:	1959.00ft
K.B. to Ground:	5.00ft		

DATE	DEPTH	ACTIVITY
Tuesday, October 01, 2019	3100'	Geologist Jeremy Schwartz on location @ ~0100hrs, drlg ahead through Heebner
		Toronto, Douglas, Brown Lime, LKC, CFS @ 3297', resume drlg into LKC G, CFS @ 3310'
	3310'	Strap out to Conduct DST #1 in the LKC A-G, successful test, resume drlg ahead,
		CFS @ 3378', resume drlg, CFS @ 3395', resume drlg, CFS @ 3415', drop survey,
Wednesday, October 02, 2019	3415'	TOH for DST #2 in the Lansing H-K, successful test, resume drlg, CFS @ 3464',
	3481'	resume drlg, CFS @ 3481', TOH to conduct DST #3 in the Arbuckle
Thursday, October 03, 2019	3487'	successful test, resume drlg, CFS @ 3487', TOH to conduct DST #4 in the Arbuckle
	3550'	successful test, resume drlg ahead to TD, TD of 3550' reached @ 1815hrs
		CTCH 1hr, drop survey, TOH to conduct Logging Operations
Friday, October 04, 2019	3550'	Logging Operations complete @ 0130hrs
		Geologist Jeremy Schwartz off location @ 0145hrs

CLIENT:	SHELBY RESOURCES, LLC
WELL NAME:	SLATTERY #1-16
LEGAL:	902' FNL & 800' FWL 16-18S-14W
COUNTY:	BARTON
API :	15-009-26273-00-00
DRLG CONTRACTOR:	W.W. Drilling
RIG #:	8
DOGHOUSE #:	(785) 259-0816
TOOLPUSHER:	Scott Piland
CELL #:	(620) 639-1843

	SLATTERY #1-16				D&A SHELBY RESOURCES, LLC SLATTERY UNIT #1-16								•								•				D&A STERLING DRLG CO. KEENER #1					
	NW-SE-NW-NW 16-18S-14W				NE NE NE SW 16-18S-14W								NW SW NE SE 16-18S-14W								SW SE NW SW 15-18S-14W								SW SW SW 9-18S-14W					
	KB	1964			KB	1956							KB	1940							KB	1942								1964				
	LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG		SMPL.				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.				DEPTH	DATUM	CORR.		CORR.	
ANHYDRITE TOP	926	1038	923	1041	914	1042	-	4	-	1			890	1050	-	12	-	9			886	1056	-	18	-	15								
BASE	950	1014			943	1013	+	1					913	1027	-	13					912	1030	-	16										
TOPEKA	2926	-962	2931	-967	2924	-968	+	6	+	1			2898	-958	-	4	-	9			2900	-958	-	4	-	9								
KING HILL	2996	-1032	3000	-1036	2993	-1037	+	5	+	1			2968	-1028	-	4	-	8			2968	-1026	-	6	-	10								
QUEEN HILL	3058	-1094	3065	-1101	3057	-1101	+	7	+	0			3032	-1092	-	2	-	9			3032	-1090	-	4	-	11								
HEEBNER	3145	-1181	3151	-1187	3138	-1182	+	1	-	5			3116	-1176	-	5	-	11			3114	-1172	-	9	-	15			3142	-1178	-	3	-	9
TORONTO	3152	-1188	3160	-1196	3152	-1196	+	8	+	0			3126	-1186	-	2	-	10			3123	-1181	-	7	-	15			3155	-1191	+	3	-	5
DOUGLAS	3166	-1202	3172	-1208	3167	-1211	+	9	+	3			3141	-1201	-	1	-	7			3136	-1194	-	8	-	14			3167	-1203	+	1	-	5
BROWN LIME	3214	-1250	3220	-1256	3214	-1258	+	8	+	2			3190	-1250	+	0	-	6			3188	-1246	-	4	-	10			3216	-1252	+	2	-	4
LKC	3222	-1258	3229	-1265	3224	-1268	+	10	+	3			3200	-1260	+	2	-	5			3197	-1255	-	3	-	10			3222	-1258	+	0	-	7
LKC G POROSITY	3297	-1333	3302	-1338	3297	-1341	+	8	+	3			3270	-1330	-	3	-	8			3267	-1325	-	8	-	13			3298	-1334	+	1	-	4
MUNCIE CREEK	3355	-1391	3361	-1397	3350	-1394	+	3	-	3			3329	-1389	-	2	-	8			3326	-1384	-	7	-	13			3355	-1391	+	0	-	6
LKC H	3358	-1394	3364	-1400	3353	-1397	+	3	-	3			3332	-1392	-	2	-	8			3330	-1388	-	6	-	12			3357	-1393	-	1	-	7
LKC I	3379	-1415	3383	-1419	3371	-1415	+	0	-	4			3349	-1409	-	6	-	10			3351	-1409	-	6	-	10			3375	-1411	-	4	-	8
LKC J	3392	-1428	3394	-1430	3384	-1428	+	0	-	2			3362	-1422	-	6	-	8			3364	-1422	-	6	-	8			3387	-1423	-	5	-	7
STARK SHALE	3408	-1444	3411	-1447	3400	-1444	+	0	-	3			3378	-1438	-	6	-	9			3381	-1439	-	5	-	8			3403	-1439	-	5	-	8
BKC	3431	-1467	3436	-1472	3428	-1472	+	5	+	0			3402	-1462	-	5	-	10			3404	-1462	-	5	-	10			3432	-1468	+	1	-	4
MARMATON	3438	-1474	3443	-1479	3438	-1482	+	8	+	3			3411	-1471	-	3	-	8			3408	-1466	-	8	-	13			3438	-1474	+	0	-	5
ARBUCKLE	3466	-1502	3471	-1507	3458	-1502	+	0	-	5			3438	-1498	-	4	-	9			3439	-1497	-	5	-	10			3466	-1502	+	0	-	5
RTD			3550	-1586	3550	-1594			+	8			3550	-1610			+	24			3507	-1565			-	21			3494	-1530			-	56
LTD	3545	-1581			3545	-1589	+	8					3550	-1610	+	29					3504	-1562	-	19					3489	-1525	-	56		

ROCK TYPES

Congl
Dolprim
Lmst fw<7
shale, gry
Carbon Sh

ACCESSORIES

FOSSIL
- Bioclastic or Fragmental

STRINGER
- Limestone
- Sandstone
- Siltstone
- Shale
- green shale
- red shale

TEXTURE
- Chalky

OTHER SYMBOLS

MISC

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

DST

- DST Int
- DST alt

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

0 ROP (min/ft) 4
0 Gamma (API) 150
6 Cal (in) 16

0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 Survey @ 2907' = 3/4deg 100
0 C4 (units) 100

Drill with PDC Bit Until 2900'

2900' Bit Trip Swap to Button Bit

King Hill

2910
2920
2930
2940
2950
2960
2970
2980
2990
3000
3010
3020
3030

Logged By Jeremy Schwartz

Shale, gray and red, soft and waxy, with LS, cream to gray, micro-xln, mostly lithographic with poor visible porosity, no show or odor

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

Topeka 2931 (-967)

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

LS as above, with slight influx cream to white, soft and chalky, fairly chalky, no show or odor

LS, cream to gray, micro-xln, fossiliferous to lithographic and dense with poor visible porosity, with some cream to white, soft and chalky, no show or odor

LS as above, no show or odor

LS, cream with some gray, micro-xln, lithographic to fossiliferous with poor visible porosity, with some cream to white, soft and chalky, no show or odor

LS as above, increasing chalk and gray clay, fairly chalky sample, no show or odor

As above, no show or odor

LS, gray to cream, micro-xln, mostly fossiliferous and dense with poor

visible porosity, some scattered soft and chalky, no show or odor

LS as above, no show or odor

Queen Hill

LS, gray to cream, micro-xln, mostly fossiliferous with poor visible porosity, increasing white, soft and chalky, no show or odor

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

LS as above, trace oolitic, no show or odor

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

LS as above, with slight influx gray shale, soft and waxy, no show or odor

LS as above, still increasing shale, no show or odor

Heebner 3151 (-1187)

Mostly gray to black shale

Toronto 3160 (-1196)

LS, cream to white and light gray, micro-xln, mosty lithographic with poor visible porosity, few very scattered chips with scattered very fine pinpoint porosity, chips appear barren, upon break SSFO, SSFO in tray, trace dull yellow fluor., fair fleeting odor

Douglas Shale 3172 (-1208)

Mostly gray to dark gray with some scattered red shale, soft and waxy, no show or odor

Shale as above, some silty, with slight influx salt and pepper siltstone, no show or odor

Mostly gray shale, soft and waxy, with some very scattered silty, no show or odor

Brown Lime 3220 (-1256)

Shale as above, with some scattered brown to gray LS, fossiliferous and dense with no visible porosity, no show or odor

Lansing 3229 (-1265)

slattery 1-16 dst 1.jpg

LS, cream with some scattered gray, micro-xln, mostly lithographic and barren with poor visible porosity, some very scattered chips (~<10%) with very scattered vf pinpoint to slightly vuggy porosity and heavy wet black stain mostly confined to porosity, upon break S-FSFO, no fluor., SSFO in tray, poor odor

LS, cream to light gray and gray, micro-xln, mostly lithogrpahic to fossiliferous and barren with poor visible porosity, trace few chips with poor very scattered poor inter-fossil staining, SSFO upon break, no

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) 4
0 Gamma (API) 150
6 Cal (in) 16

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

flour., NSFO in tray, no odor

LS, gray to cream, micro-xln, mostly lithographic to fossiliferous and dense with poor visible porosity, few very scattered chips with slightly vuggy edges and wet black stain in porosity only, chips too dense to break, some scattered dull yellow fluor., NSFO in tray, poor fleeting odor

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

3297' 30" LS as above, with few very scattered chips with poor scattered pinpoint porosity and poor very scattered stain, NSFO upon break, no fluor., poor fleeting odor

3297' 60" LS, cream to white, micro-xln, lithographic and dense to soft and chalky with poor visible porosity, some scattered chips (~10-15%) with some scattered mostly poor vf pinpoint porosity and slight stain in porosity only, some chips with free oil pooling up on them, upon break most have S-FSFO and show some scattered fair inter-xln porosity and staining, no fluor., FSFO in tray, good odor

3310' 30" LS, cream, micro-xln, mostly lithographic with poor visible porosity, some scattered oolitic, with some very scattered small oomoldic chips with scattered light brown stain in and around porosity, chips very friable, FSFO upon break, FSFO in tray, good odor

3310' 60" Mostly same as above, with slight influx oomoldic with scattered stain, some small oomoldic chips with large voids and free oil inside, chalky, good odor

~3320' LS, cream to white, micro-xln, mostly sub-oomoldic and dense with poor visible porosity, barren, very chalky, no fluor., or odor

LS as above, with influx gray lithographic and very dense with no visible porosity, slightly less chalky, no show, fluor. ,or odor

LS, gray to brown with some scattered cream, mico-xln, mostly lithographic with some scattered slightly fossiliferous, dense with no visible porosity, no show, fluor., or odor

LS as above, slightly chalky, no show, fluor., or odor

slattery 1-16 dst 2.jpg

3378' 30" LS, cream to gray with some scattered brown, micro-xln, mostly lithographic and dense with poor visible porosity, slightly chalky, no show, fluor., or odor

3378' 60" LS, cream to light gray with some scattered gray and brown, micro-xln, lithographic with poor visible porosity, some scattered soft and chalky, no show, fluor., or odor

3395' 30" LS, cream, micro-xln, lithographic and mostly dense with poor visible porosity, some very scattered chips with scattered poor black stain, some too dense to break, upon break others have NSFO, fair show free gas bubbles in wet tray, no fluor., poor fleeting odor

3395' 60" Mostly same as above, NSFO, slight show gas bubbles in wet tray, trace dull yellow fluor., in few chips, poor fleeting odor

~3400' LS, cream, micro-xln, mostly lithographic with poor visible porosity, trace oollitc with trace poor inter-oolite stain in few chips, NSFO, no fluor., or odor

3415' 30" LS as above, few small oolitic chips with scattered fair inter-oolite stain, friable, SSFO upon break, NSFO in tray, no fluor., or odor

3415' 60" LS, cream to gray, micro-xln, lithoraphic with poor visible porosity, no show, fluor., or odor

Mostly same as above, few very scattered chips brown, micro-xln, with slightly vuggy edges and light brown to heavy wet black stain in porosity only, chips too dense to break, NSFO in tray, no fluor., or odor

3438' 30" As above, with slight influx dense brown LS with slight to fair vuggy edges and brown to heavy wet black staining inside porosity only, upon break SSFO and few chips show fair vuggy inter-xln porosity with stain, most too dense to break, NSFO in tray, no fluor., poor odor

3438' 60" LS as above, with shows noticeably dropping out, NSFO, no fluor., or odor

LS, cream, micro-xln, lithographic and barren with poor visible porosity, with abundant gray and red shale, no shows or odor

3464' 30" Mixed cream to white and gray LS, micro-xln, mostly lithographic with poor visible porosity, with abundant gray to red and trace green shale , also with some scattered loose fine sub-rounded to rounded quartz SS grains trapped in globs of gray and red clay, heavy red wash, no show or odor

3464' 60" Conglomerate as above, with trace white to tan chert, heavy red wash, no show or odor

Arbuckle 3471 (-1507)

slattery 1-16 dst 3.jpg

Mud-Co Mud chk
3276"
10/1/19
Vis:59 Wt: 9.0
PV:17 YP:15
WL: 9.6
Cake:2/32
pH: 10.0
Ca: 10ppm
CHL: 6,500ppm
Sol:4.7 LCM:1
DMC: $619.13
CMC: $7,688.57

Strap @ 3310' = 0.17STB

NOTE: Plugging of Test Tool observed on 2nd open of DST #2

Mud-Co Mud chk
3438'
10/2/19
Vis:52 Wt: 9.2
PV:16 YP:14
WL: 8.8
Cake:1/32
pH: 9.5
Ca: 10ppm
CHL: 7,000ppm
Sol:6.0 LCM:2
DMC: $908.62
CMC: $8,577.19

Survey @ 3438' = 1Deg

Mud-Co Mud chk

DST #1

CFS @ 3297' 0730hrs 10/1/19

LKC "G" porosity

CFS @ 3310' 0900hrs 10/1/19

Muncie Creek

"H"

CFS @ 3378' 10/1/19

DST #2

"I"

CFS @ 3395' 10/2/19

0 ROP (min/ft) "J" 4
0 Gamma (API) 150
6 Cal (in) 16

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

CFS @ 3415' 10/2/19

Stark

"K"

CFS @ 3438' 10/2/19

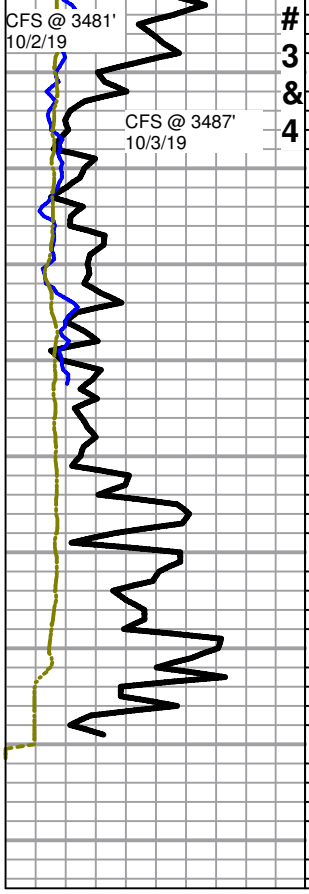
BKC

CFS @ 3464' 10/2/19

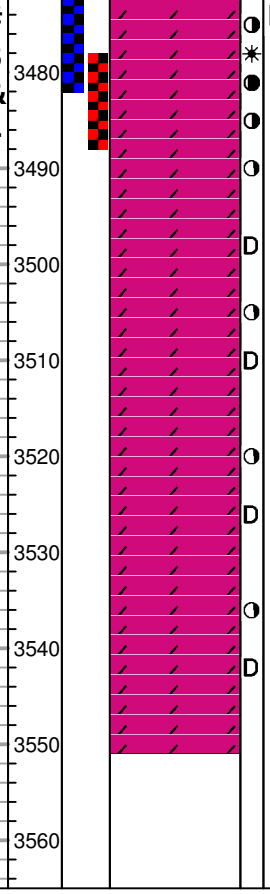
Bit Bouncing @ 3471'

DST

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



DST #3 & 4



slattery 1-16 dst 4.jpg

3481' 30" conglomerate, with influx dolomite, white to light gray, mostly sub-rhombic with poor visible porosity and scattered to very scattered stain, some chips show some scattered fair inter-xln porosity in areas, upon break and agitation most chips have F-GSFO and release occasional gas bubbles, FSFO in tray, strong pungent odor

3481' 60" mostly same as above, with slight influx chips with fair to good rhombic development and areas of fair inter-xln porosity, mostly scattered stain with FSFO and occasional gas bubbles upon break, when left under lamp stain increses to mostly saturated throughout, SSFO in tray, strong pungent odor

3487' 60" Dolomite, white, mostly sub-sucrosic to sucrosic and dense with poor visible porosity, good rhombic dolomite with stain noticeably dropping out, most chips have scattered to very scattered stain and too dense to break but when agitated bleed free oil to surfacre, chips that break have FSFO upon break, some very scattered small sucrosic to rhombic chips friable with scattered stain and GSFO upon break, abundant conglomerate in sample, NSFO in tray, fair odor

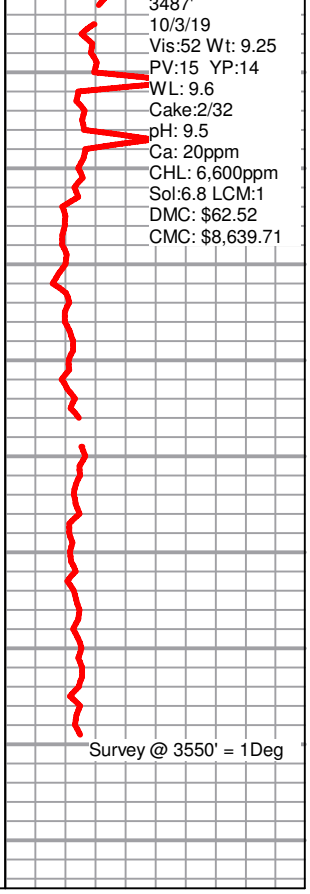
~3490' Dolomite, white, mostly sub-rhombic and dense with poor visible porosity, some scattered to very scattered stain, no odor

~3500-3530' Dolomite as above, with slight influx sucrosic and dense with poor visible porosity, some scattered gilsonitic stain, no odor

~3530-3550' Dolomite, white, mostly sub-sucrosic and dense with poor visible porosity and barren, with some scattered sub-rhombic to rhombic with mostly poor visible porosity and scattered to very scattered stain, some gilsonitic, no odor

---

Rotary TD 3550' @ 1815hrs 10/3/19
Eli Wireline Services Logging TD @ 3545'
Complete Logging Operations @ 0130hrs 10/4/19
Geologist Jeremy Schwartz off location @ 0145hrs 10/4/19



slattery 1-16 dst 1.jpg

DRILL STEM TEST REPORT

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01372 **DST#: 1**

Test Start: 2019.10.01 @ 12:00:00

GENERAL INFORMATION:

Formation: **Kansas City "A-G**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:49:00
Time Test Ended: 18:11:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 1

Interval: 3224.00 ft (KB) To 3310.00 ft (KB) (TVD)
Total Depth: 3310.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

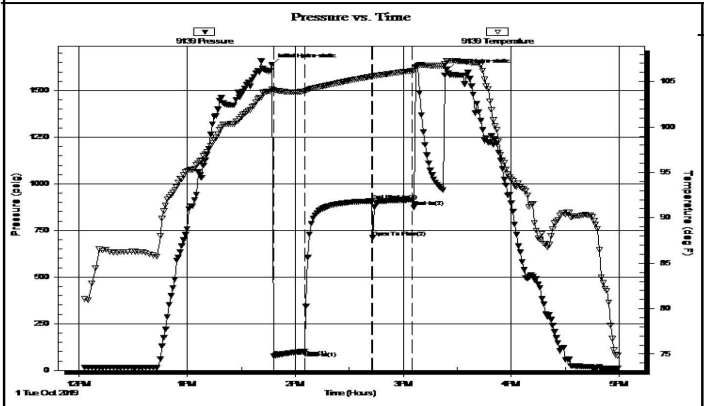
Reference Elevations: 1964.00 ft (KB)
1959.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 9139

Press@RunDepth: 907.89 psig @ ft (KB)
Start Date: 2019.10.01 End Date: 2019.10.01
Start Time: 12:00:00 End Time: 16:59:00

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.01 @ 13:47:00
Time Off Btm: 2019.10.01 @ 15:24:00

TEST COMMENT: 1st Opening 15 Minutes w eak 1/2 blow to w eak surface blow
1st Shut-In 45 Minutes
2nd Opening 36 Minutes no blow flushed tool no help
2nd Shut-In none taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.70	104.14	Initial Hydro-static
1	75.16	104.06	Open To Flow (1)
18	102.13	103.92	Shut-In(1)
56	907.89	105.56	End Shut-In(1)
56	711.43	105.53	Open To Flow (2)
78	913.02	106.18	Shut-In(2)
97	1612.48	107.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	drilling mud	0.00

Gas Rates

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

slattery 1-16 dst 2.jpg

DRILL STEM TEST REPORT

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01373 **DST#: 2**

Test Start: 2019.10.02 @ 07:51:00

GENERAL INFORMATION:

Formation: **kansas City "H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:38:00
Time Test Ended: 12:15:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig1
Unit No: 1

Interval: 3353.00 ft (KB) To 3438.00 ft (KB) (TVD)
Total Depth: 3438.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

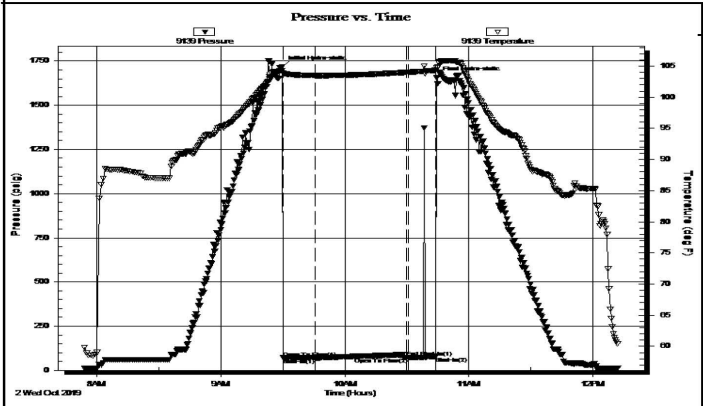
Reference Elevations: 1964.00 ft (KB)
1959.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 9139

Press@RunDepth: 72.68 psig @ ft (KB)
Start Date: 2019.10.02 End Date: 2019.10.02
Start Time: 07:51:00 End Time: 12:12:00

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.02 @ 09:29:30
Time Off Btm: 2019.10.02 @ 10:44:30

TEST COMMENT: 1st Opening 15 Minutes w eak 1/2 inblow decreased to w eak surface blow
1st Shut-In 45 Minutes
2nd Opening 25 Minutes no blow flushed tool no help
2nd Shut-In None taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.64	104.25	Initial Hydro-static
1	69.95	103.87	Open To Flow (1)
16	70.06	103.49	Shut-In(1)
61	72.68	104.01	End Shut-In(1)
61	72.69	104.02	Open To Flow (2)
75	76.11	104.33	Shut-In(2)
75	1657.89	104.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Drilling Mud32	0.10

Gas Rates

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

slattery 1-16 dst 3.jpg

DRILL STEM TEST REPORT

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01374 **DST#: 3**

Test Start: 2019.10.03 @ 21:24:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:15:00
Time Test Ended: 02:01:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No: 1

Interval: 3434.00 ft (KB) To 3481.00 ft (KB) (TVD)
Total Depth: 3481.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

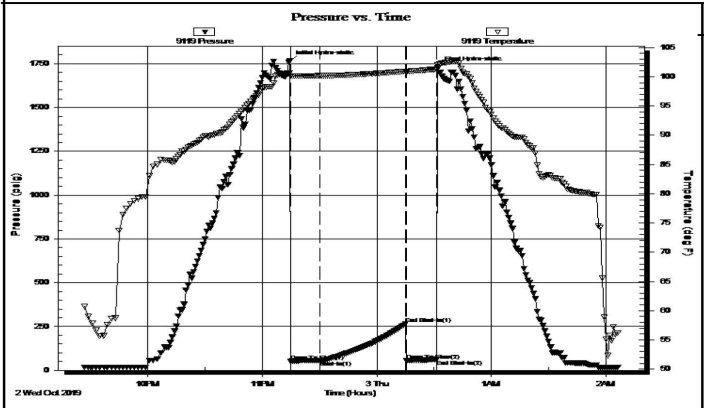
Reference Elevations: 1964.00 ft (KB)
1959.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 9119

Press@RunDepth: 61.09 psig @ ft (KB)
Start Date: 2019.10.02 End Date: 2019.10.03
Start Time: 21:27:00 End Time: 02:06:00

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.02 @ 23:14:30
Time Off Btm: 2019.10.03 @ 00:32:00

TEST COMMENT: 1st Opening 15 Minutes w eak surfasce blow for 14 minutes and died
1st Shut-In 45 Minutes
2nd Opening 20 Minutes no blow flushed tool no help
2nd AShut-In None Taken



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1764.38	100.61	Initial Hydro-static
1	51.95	100.16	Open To Flow (1)
16	55.97	100.16	Shut-In(1)
61	264.78	100.94	End Shut-In(1)
61	57.38	100.91	Open To Flow (2)
77	61.09	101.28	End Shut-In(2)
78	1725.91	102.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	very slightly oil cut mud 3% Oil 97% Mud	0.10

Gas Rates

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

slattery 1-16 dst 4.jpg

DRILL STEM TEST REPORT

Shelby Resources LLC

13949 W Colfax bld.1 Sut 120
Lakew ood ,Colorado 80401

ATTN: Jeremy Schw artz

16-18s-14w

Slattery #1-16

Job Ticket: 01375 **DST#: 4**

Test Start: 2019.10.03 @ 07:35:00

GENERAL INFORMATION:

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

Test Type: Conventional Bottom Hole (Initial)
Tester: Gene Budig
Unit No:

Interval: 3478.00 ft (KB) To 3487.00 ft (KB) (TVD)
Total Depth: 3487.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

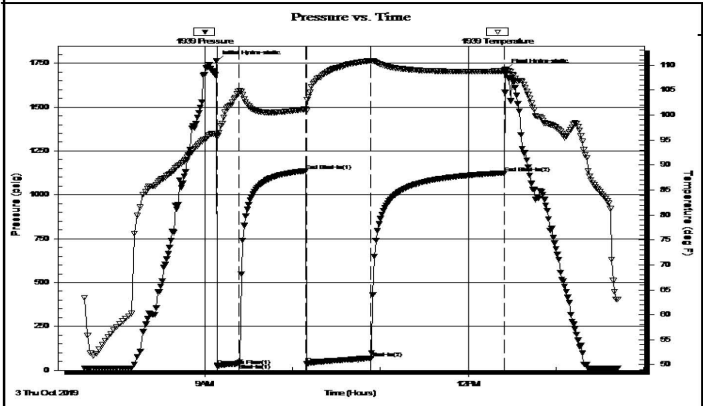
Reference Elevations: 1964.00 ft (KB)
1959.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 1939

Press@RunDepth: 1125.02 psig @ ft (KB)
Start Date: 2019.10.03 End Date: 2019.10.03
Start Time: 07:35:00 End Time: 13:42:00

Capacity: psig
Last Calib.: 1899.12.30
Time On Btm: 2019.10.03 @ 09:08:00
Time Off Btm: 2019.10.03 @ 12:25:30

TEST COMMENT: 1st opening 15 Minutes w eak blkow built to 2 inches into the w ater
1st Shut-In 45 Minutes
2nd Opening 45 Minutes w eak blow built to 3 nches into the w ater
2nd Shut-In 90 Minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.59	96.31	Initial Hydro-static
1	25.92	95.52	Open To Flow (1)
15	37.98	104.67	Shut-In(1)
61	1136.83	101.19	End Shut-In(1)
62	39.73	100.86	Open To Flow (2)
106	70.04	110.87	Shut-In(2)
197	1125.02	108.80	End Shut-In(2)
198	1710.92	109.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	hlorides	0.44
0.00	not a speck of oil	0.00
0.00	chlorides 16,000	0.00

Gas Rates

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