Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1350861

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 # 5088
Name: Darrah, John Jay, Jr.
Address 1: P.O. BOX 2786
Address 2:
City: WICHITA State: KS Zip: 67201 + 2786
Contact Person: Will Darrah
Phone: (316) 219-3390
CONTRACTOR: License # 32701
Name: C & G Drilling, Inc.
Wellsite Geologist: Seth Evenson
Purchaser: NA

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 #:

11/10/2016	11/15/2016	11/16/2016
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-111-20531-00-00
Spot Description:
SW NW SW NW Sec. 4 Twp. 17 S. R. 10 ☑ East ☐ West
1770 Feet from ☑ North / ☐ South Line of Section
115 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: Lyon
Lease Name: LEE Well #: 1
Field Name: Wildcat
Producing Formation: NA
Elevation: Ground: 1245 Kelly Bushing: 1254
Total Vertical Depth: 3062 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 220 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: 10000 ppm Fluid volume: 150 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:
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 04/19/2017

[redacted]

1350861

Operator Name: Darrah, John Jay, Jr. Lease Name: LEE Well #: 1

Sec. 4 Twp. 17 S. R. 10 ☑ East ☐ West County: Lyon

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

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	32	220	Class A	150	CaCl 3%

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

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

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

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

DISPOSITION OF GAS: ☐ 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	Darrah, John Jay, Jr.
Well Name	LEE 1
Doc ID	1350861

All Electric Logs Run

Comp Neut
Dual Induction
Micro Resistivity
BHC Sonic

Form	ACO1 - Well Completion
Operator	Darrah, John Jay, Jr.
Well Name	LEE 1
Doc ID	1350861

Tops

Name	Top	Datum
Heebner	1032	222
Toronto	1044	210
Douglas	1055	199
Brown Lime	1318	-64
Lansing	1337	-83
Kansas City	1459	-205
Base Kansas City	1704	-450
Marmaton	1796	-542
Cherokee	1931	-677
Mississippian	2338	-1084
Kinderhook	2698	-1444
Hunton	2847	-1593
Viola	2910	-1656
Simpson	2989	-1735
Simpson Sand	3008	-1754
Pre-Cambrian	3038	-1784
Total Depth	3063	-1809

Form	ACO1 - Well Completion
Operator	Darrah, John Jay, Jr.
Well Name	LEE 1
Doc ID	1350861

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	32	220	Class A	150	CaCl 3%

Fall & Associates

Stake and Elevation Service
P.O. Box 222
Pretty Prairie, KS. 67570
785-243-7506

Date 10-31-16

Invoice Number 1027161

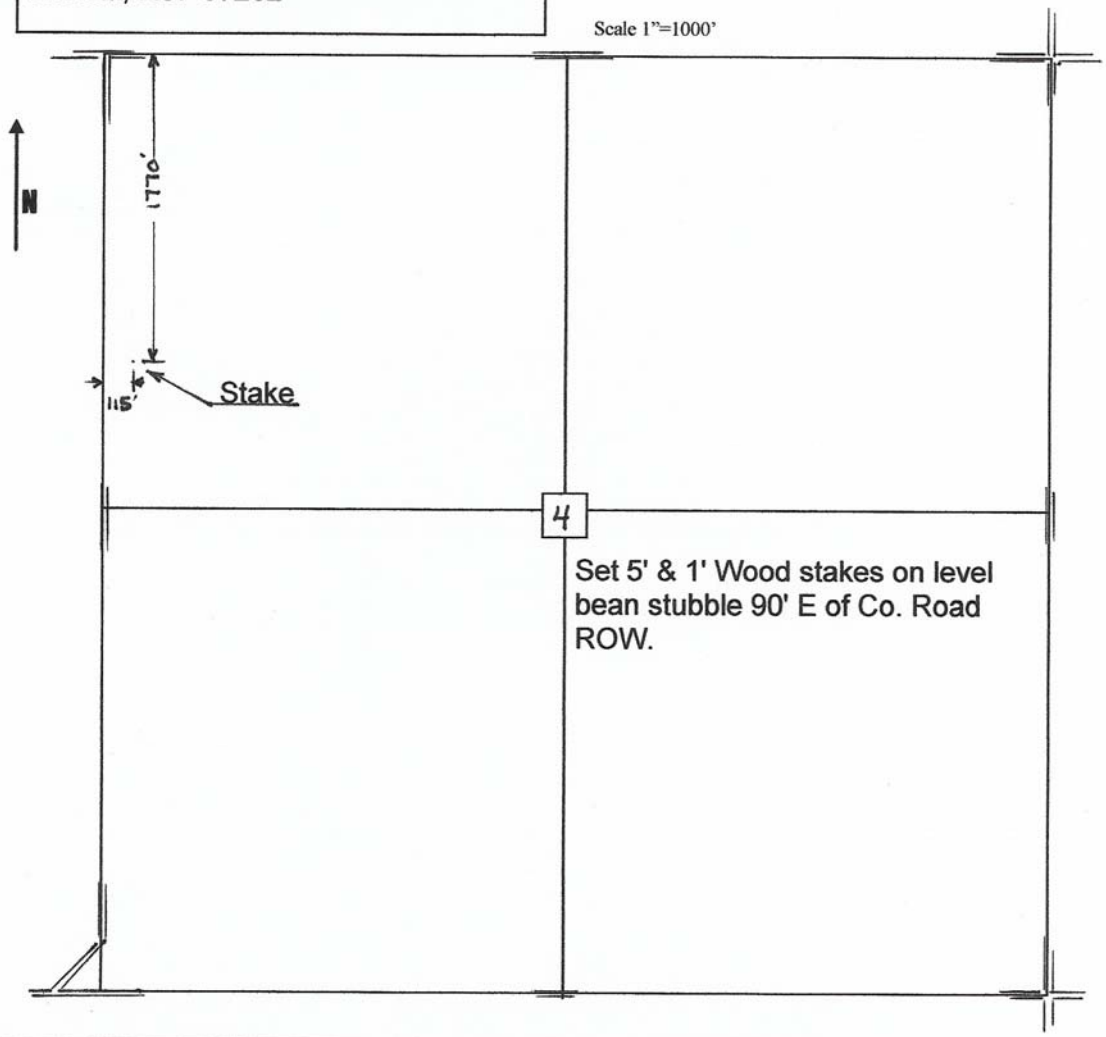
DARRAH OIL COMPANY	1	Lee
Operator	Number	Farm Name

Lyon-KS	4	17s	10e	1770'FNL 115'FWL
County-State	S	T	R	Location

Darrah Oil Company
125 N. Market
Suite 1425
Wichita, KS. 67202

Elevation 1245 Gr.

Ordered By: Seth



Set 5' & 1' Wood stakes on level bean stubble 90' E of Co. Road ROW.

DRILL STEM TEST REPORT

Darrah, John Jay, JR.

P.O. Box 2786
Wichita, Ks
67201

ATTN: Will Darrah

4/17S/10E Lyon, Ks

Lee #1

Job Ticket: 63086 **DST#: 1**

Test Start: 2016.11.12 @ 22:49:00

GENERAL INFORMATION:

Formation: **Hunton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:20:45
Time Test Ended: 04:26:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2840.00 ft (KB) To 2850.00 ft (KB) (TVD)
Total Depth: 2850.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

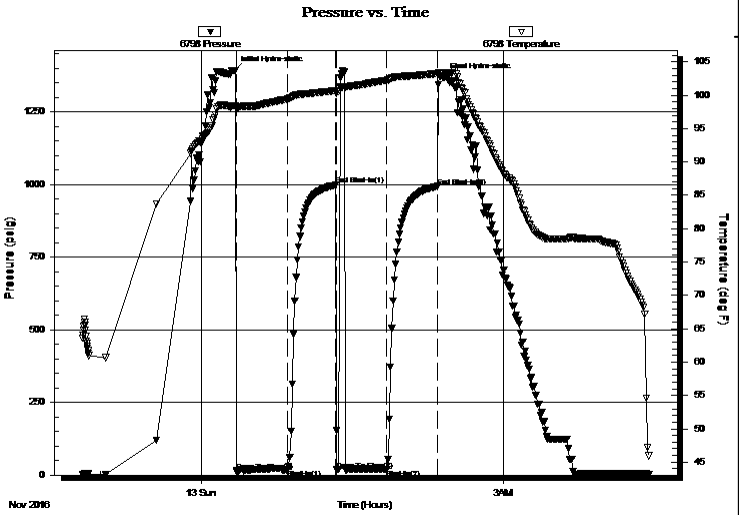
Reference Elevations: 1255.00 ft (KB)
1246.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6798

Press@RunDepth: 20.98 psig @ ft (KB)
Start Date: 2016.11.12 End Date: 2016.11.13
Start Time: 22:49:05 End Time: 04:26:44

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2016.11.13 @ 00:19:30
Time Off Btm: 2016.11.13 @ 02:23:45

TEST COMMENT: IF - Surface blow throughout initial flow period.
FF - No blow, flushed tool, still no blow throughout final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1392.15	98.47	Initial Hydro-static
2	13.09	98.10	Open To Flow (1)
32	18.98	99.43	Shut-In(1)
61	997.80	100.70	End Shut-In(1)
61	17.61	100.45	Open To Flow (2)
91	20.98	102.23	Shut-In(2)
121	993.34	103.25	End Shut-In(2)
125	1369.17	103.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oil spotted mud 1% O & 99% M	0.07

Gas Rates

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

DRILL STEM TEST REPORT

Darrah, John Jay, JR.

P.O. Box 2786
Wichita, Ks
67201

ATTN: Will Darrah

4/17S/10E Lyon, Ks

Lee #1

Job Ticket: 63086 **DST#: 1**

Test Start: 2016.11.12 @ 22:49:00

GENERAL INFORMATION:

Formation: **Hunton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:20:45
Time Test Ended: 04:26:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2840.00 ft (KB) To 2850.00 ft (KB) (TVD)
Total Depth: 2850.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

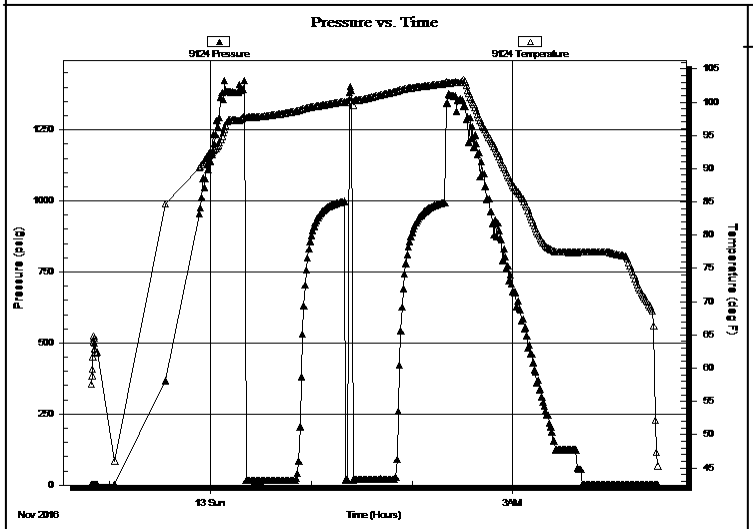
Reference Elevations: 1255.00 ft (KB)
1246.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 9124

Press@RunDepth: psig @ ft (KB)
Start Date: 2016.11.12 End Date: 2016.11.13
Start Time: 22:49:05 End Time: 04:26:29

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Surface blow throughout initial flow period.
FF - No blow, flushed tool, still no blow throughout final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

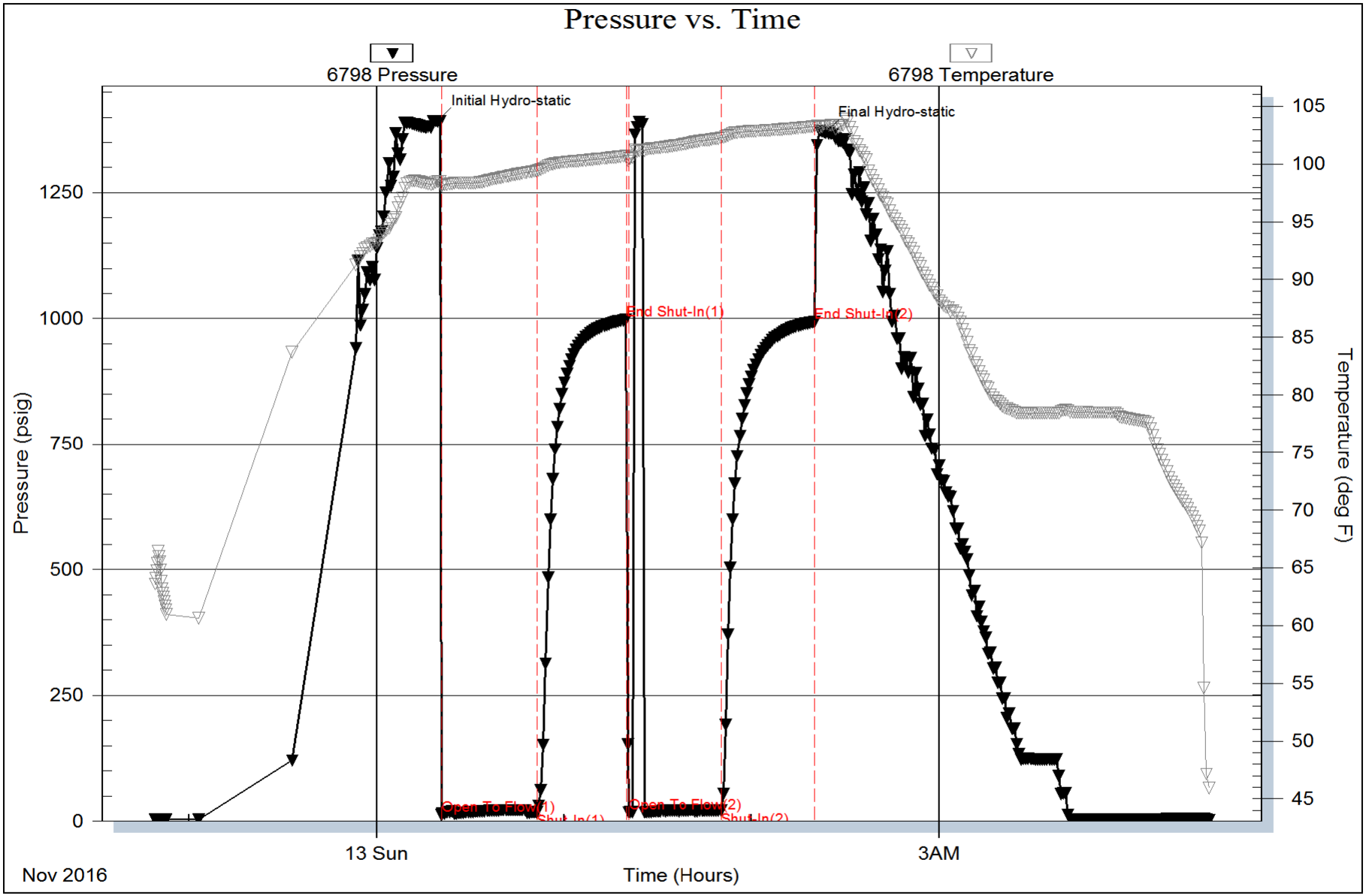
Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oil spotted mud 1% O & 99% M	0.07

Gas Rates

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

Serial #: 6798 Darrah, John Jay, JR. Lee #1 DST Test Number: 1



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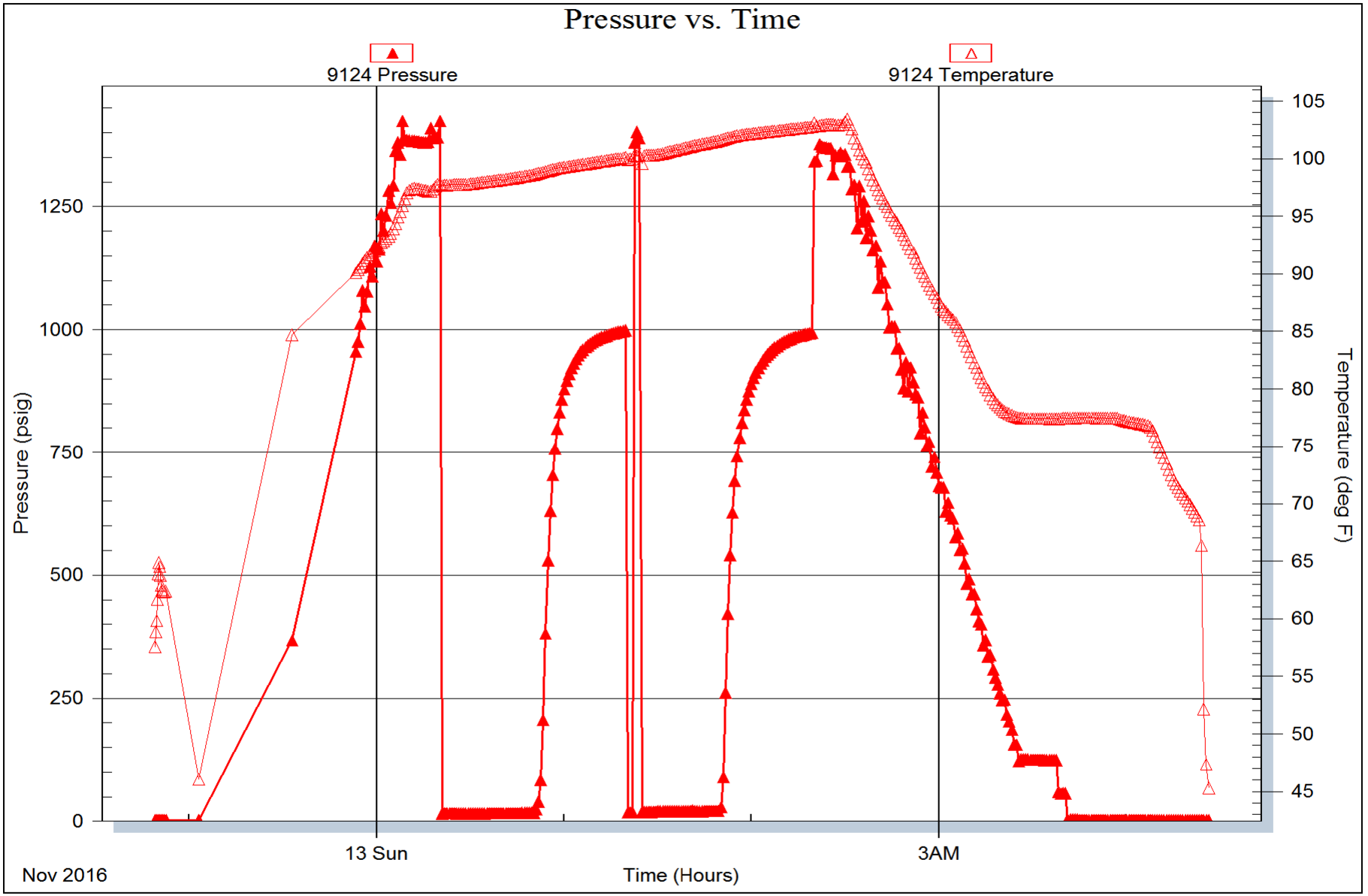
Serial #: 9124 Darrah, John Jay, JR. Lee #1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 63086 Printed: 2016.11.13 @ 07:04:37

DRILL STEM TEST REPORT

Darrah, John Jay, JR.

P.O. Box 2786
Wichita, Ks
67201

ATTN: Will Darrah

4/17S/10E Lyon, Ks

Lee #1

Job Ticket: 63087 **DST#: 2**

Test Start: 2016.11.13 @ 10:52:00

GENERAL INFORMATION:

Formation: **Hunton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:19:15
Time Test Ended: 17:51:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2840.00 ft (KB) To 2860.00 ft (KB) (TVD)
Total Depth: 2860.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

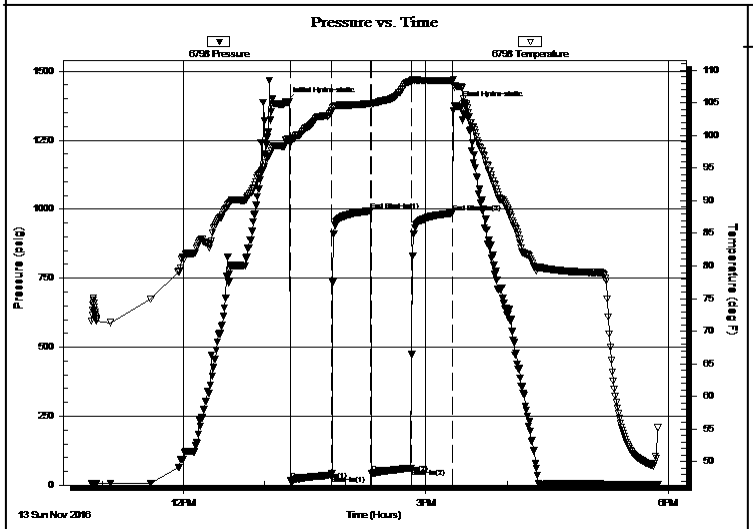
Reference Elevations: 1255.00 ft (KB)
1246.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6798

Press@RunDepth: 61.95 psig @ ft (KB)
Start Date: 2016.11.13 End Date: 2016.11.13
Start Time: 10:52:05 End Time: 17:51:44

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2016.11.13 @ 13:16:45
Time Off Btm: 2016.11.13 @ 15:21:45

TEST COMMENT: IF- Weak blow building to 3 inches initial flow period.
FF - Weak blow building to 2 inches final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1388.74	99.41	Initial Hydro-static
3	16.05	98.83	Open To Flow (1)
34	36.69	103.79	Shut-In(1)
62	994.27	104.93	End Shut-In(1)
63	41.49	104.68	Open To Flow (2)
93	61.95	108.28	Shut-In(2)
123	987.34	108.45	End Shut-In(2)
125	1375.56	107.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
105.00	Oil cut mud 3% O & 97% M	0.52

Gas Rates

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

DRILL STEM TEST REPORT

Darrah, John Jay, JR.

P.O. Box 2786
Wichita, Ks
67201

ATTN: Will Darrah

4/17S/10E Lyon, Ks

Lee #1

Job Ticket: 63087 **DST#: 2**

Test Start: 2016.11.13 @ 10:52:00

GENERAL INFORMATION:

Formation: **Hunton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:19:15
Time Test Ended: 17:51:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2840.00 ft (KB) To 2860.00 ft (KB) (TVD)
Total Depth: 2860.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

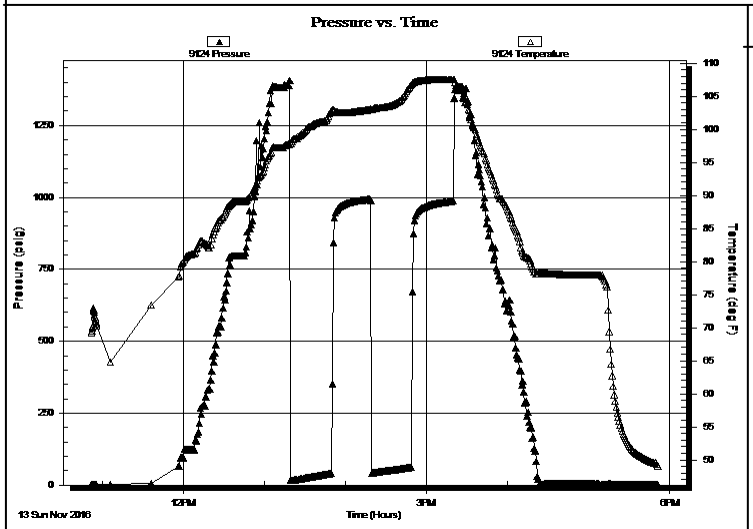
Reference Elevations: 1255.00 ft (KB)
1246.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 9124

Press@RunDepth: psig @ ft (KB)
Start Date: 2016.11.13 End Date: 2016.11.13
Start Time: 10:52:05 End Time: 17:51:29

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF- Weak blow building to 3 inches initial flow period.
FF - Weak blow building to 2 inches final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
105.00	Oil cut mud 3% O & 97% M	0.52

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah, John Jay, JR.

P.O. Box 2786
Wichita, Ks
67201

ATTN: Will Darrah

4/17S/10E Lyon, Ks

Lee #1

Job Ticket: 63087 **DST#: 2**

Test Start: 2016.11.13 @ 10:52:00

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

Recovery Information

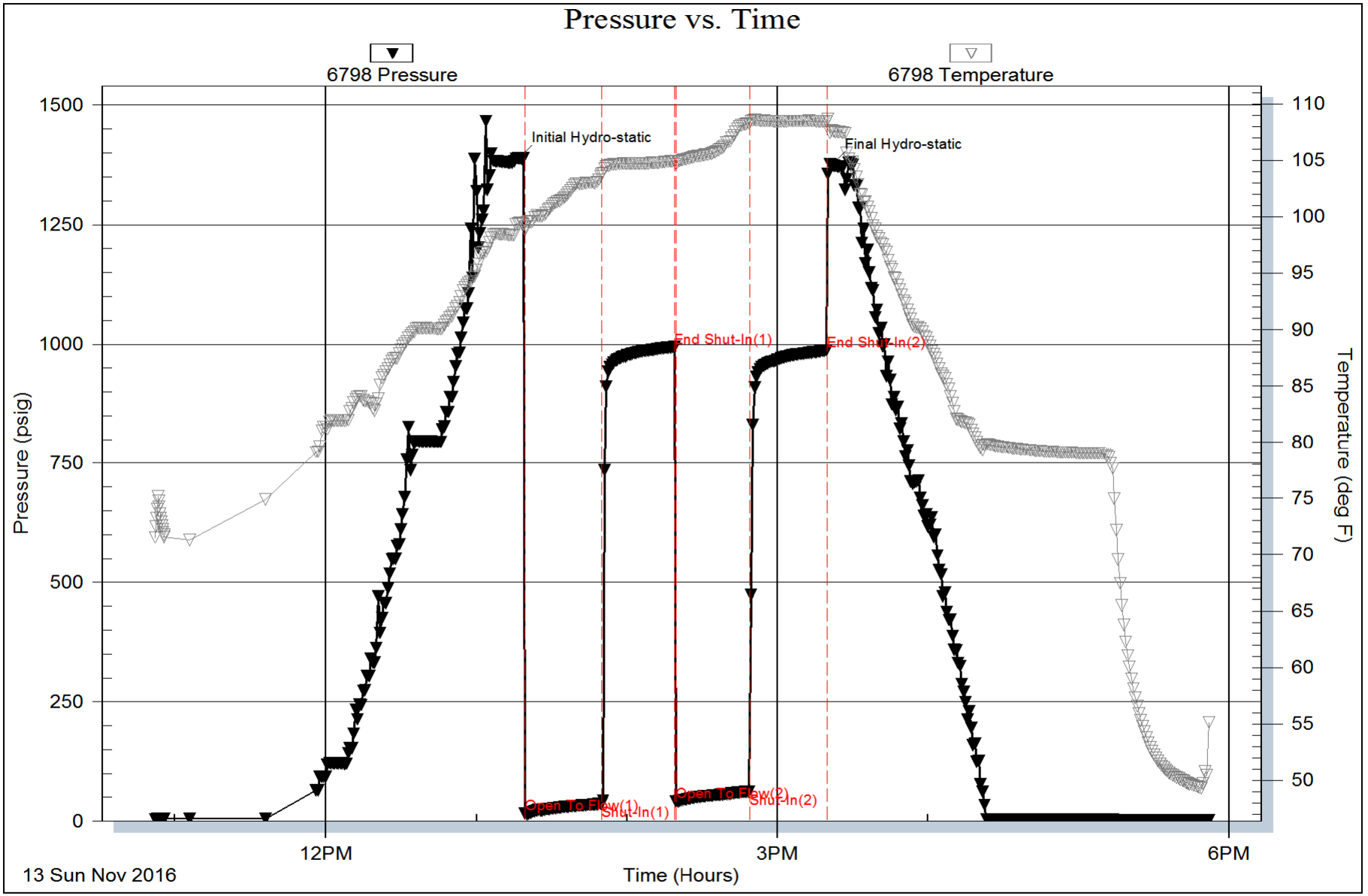
Recovery Table

Length ft	Description	Volume bbl
105.00	Oil cut mud 3% O & 97% M	0.516

Total Length: 105.00 ft Total Volume: 0.516 bbl

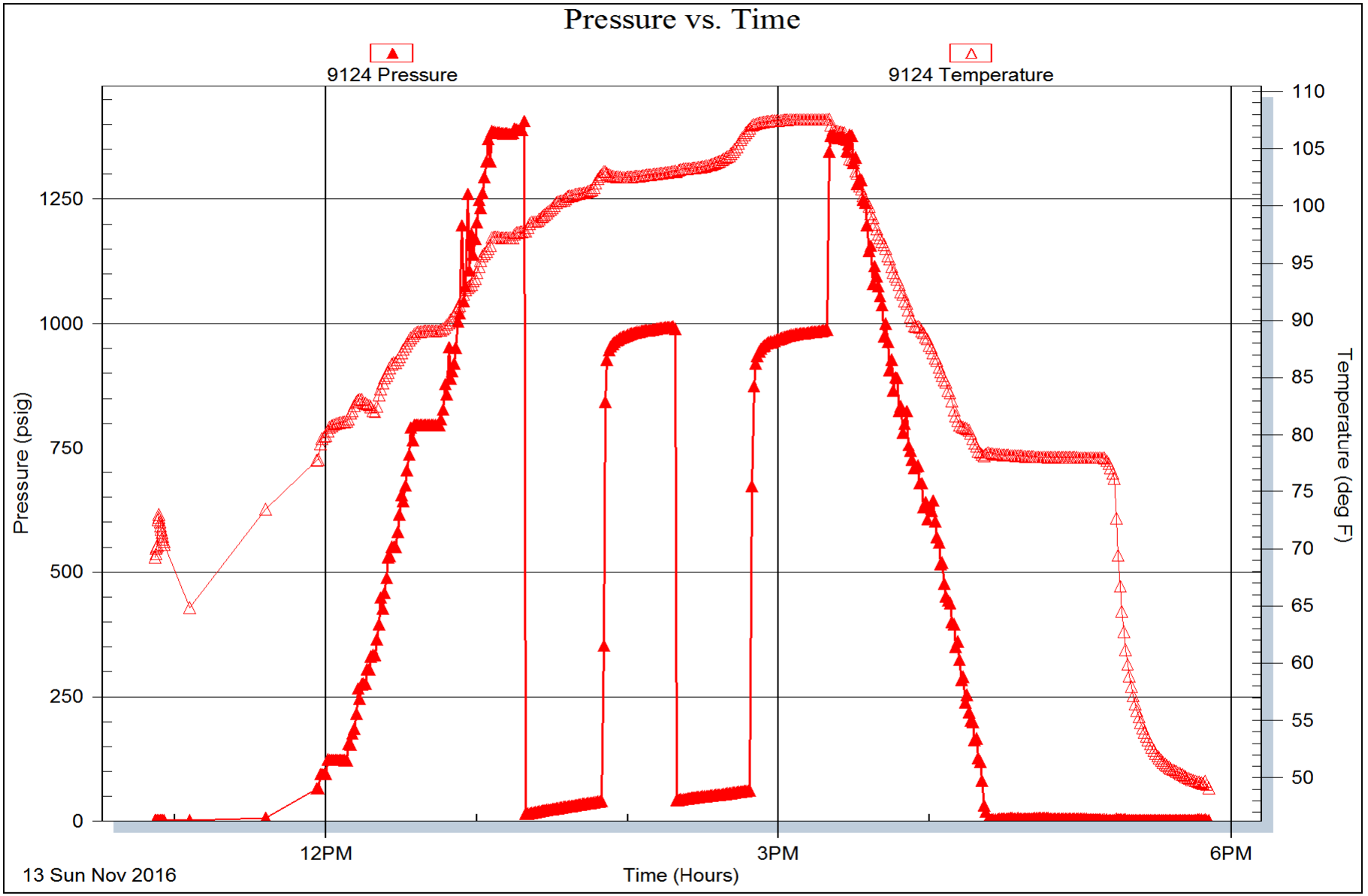
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6798 Darrah, John Jay, JR. Lee #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 63087 Printed: 2016.11.13 @ 19:42:15

Serial #: 9124 Darrah, John Jay, JR. Lee #1 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 63087 Printed: 2016.11.13 @ 19:42:15

DRILL STEM TEST REPORT

Darrah, John Jay, JR.

P.O. Box 2786
Wichita, Ks
67201
ATTN: Will Darrah/Seth Eve

4/17S/10E Lyon, Ks

Lee #1

Job Ticket: 63088 **DST#: 3**

Test Start: 2016.11.14 @ 10:30:00

GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:03:45
Time Test Ended: 18:06:15

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2975.00 ft (KB) To 3000.00 ft (KB) (TVD)
Total Depth: 3000.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

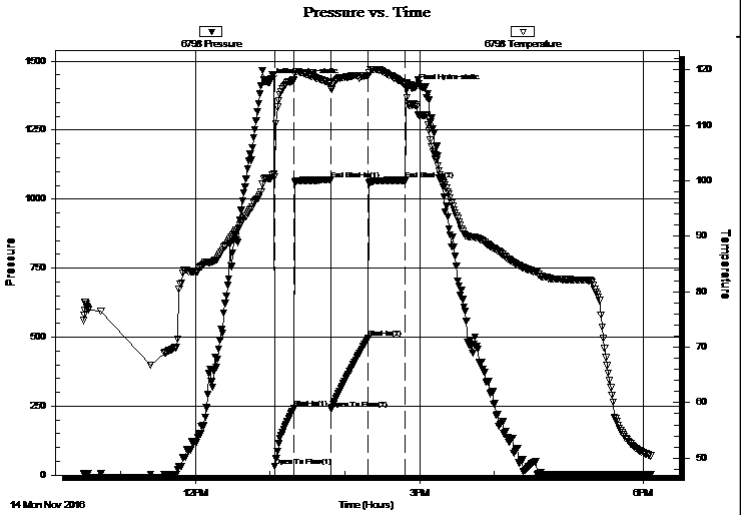
Reference Elevations: 1255.00 ft (KB)
1246.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6798

Press@RunDepth: 497.42 psig @ ft (KB)
Start Date: 2016.11.14 End Date: 2016.11.14
Start Time: 10:30:05 End Time: 18:06:14

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2016.11.14 @ 12:59:30
Time Off Btm: 2016.11.14 @ 14:53:45

TEST COMMENT: IF - Weak blow building to strong blow 3 minutes into initial flow period.
FF - Weak blow biulding to strong blow 3 minutes into final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1422.73	100.44	Initial Hydro-static
5	31.84	100.72	Open To Flow (1)
20	241.06	118.23	Shut-In(1)
49	1069.23	117.70	End Shut-In(1)
50	240.58	116.68	Open To Flow (2)
80	497.42	118.97	Shut-In(2)
110	1068.62	117.41	End Shut-In(2)
115	1400.91	113.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
700.00	Heavy mud cut w ater 14%M & 86% W	7.66
380.00	Mud cut w ater 7% M 93%W	5.33

Gas Rates

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

DRILL STEM TEST REPORT

Darrah, John Jay, JR.

P.O. Box 2786
Wichita, Ks
67201

ATTN: Will Darrah/Seth Eve

4/17S/10E Lyon, Ks

Lee #1

Job Ticket: 63088 **DST#: 3**

Test Start: 2016.11.14 @ 10:30:00

GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:03:45
Time Test Ended: 18:06:15

Test Type: Conventional Bottom Hole (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2975.00 ft (KB) To 3000.00 ft (KB) (TVD)
Total Depth: 3000.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

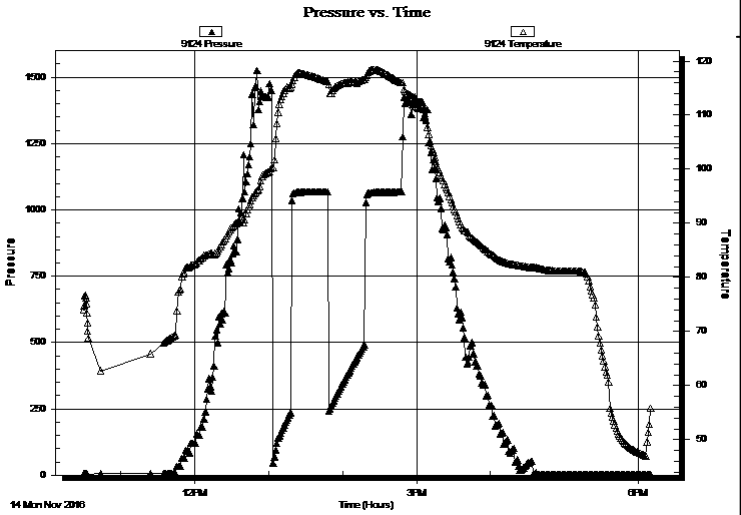
Reference Elevations: 1255.00 ft (KB)
1246.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 9124

Press@RunDepth: psig @ ft (KB)
Start Date: 2016.11.14 End Date: 2016.11.14
Start Time: 10:30:05 End Time: 18:10:29

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow 3 minutes into initial flow period.
FF - Weak blow biulding to strong blow 3 minutes into final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
700.00	Heavy mud cut w ater 14%M & 86% W	7.66
380.00	Mud cut w ater 7% M 93%W	5.33

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah, John Jay, JR.

P.O. Box 2786
Wichita, Ks
67201

ATTN: Will Darrah/Seth Eve

4/17S/10E Lyon, Ks

Lee #1

Job Ticket: 63088 **DST#: 3**

Test Start: 2016.11.14 @ 10:30:00

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:	13000 ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
700.00	Heavy mud cut w ater 14%M & 86% W	7.660
380.00	Mud cut w ater 7% M 93%W	5.330

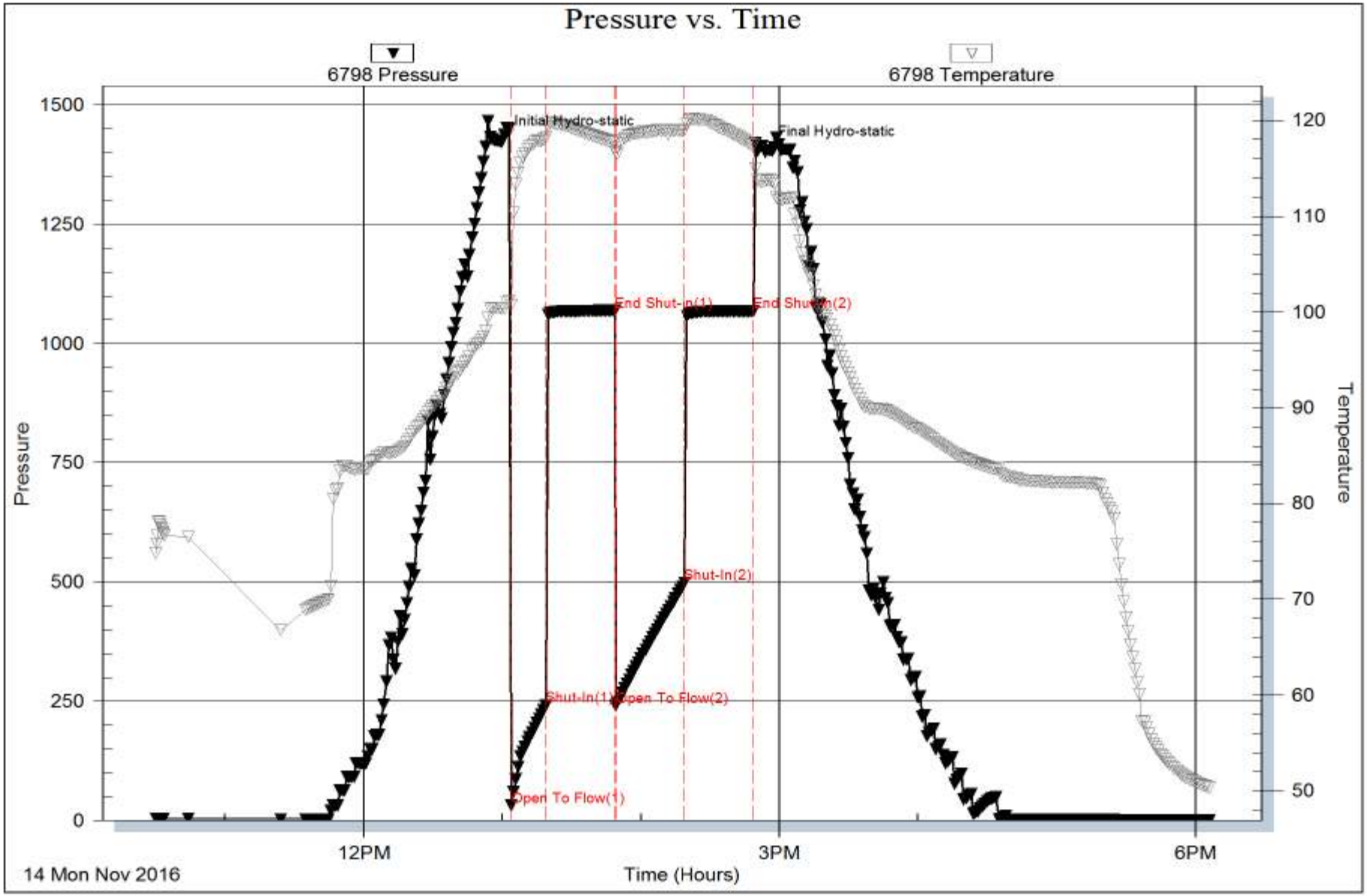
Total Length: 1080.00 ft Total Volume: 12.990 bbl

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

Laboratory Name: Laboratory Location:

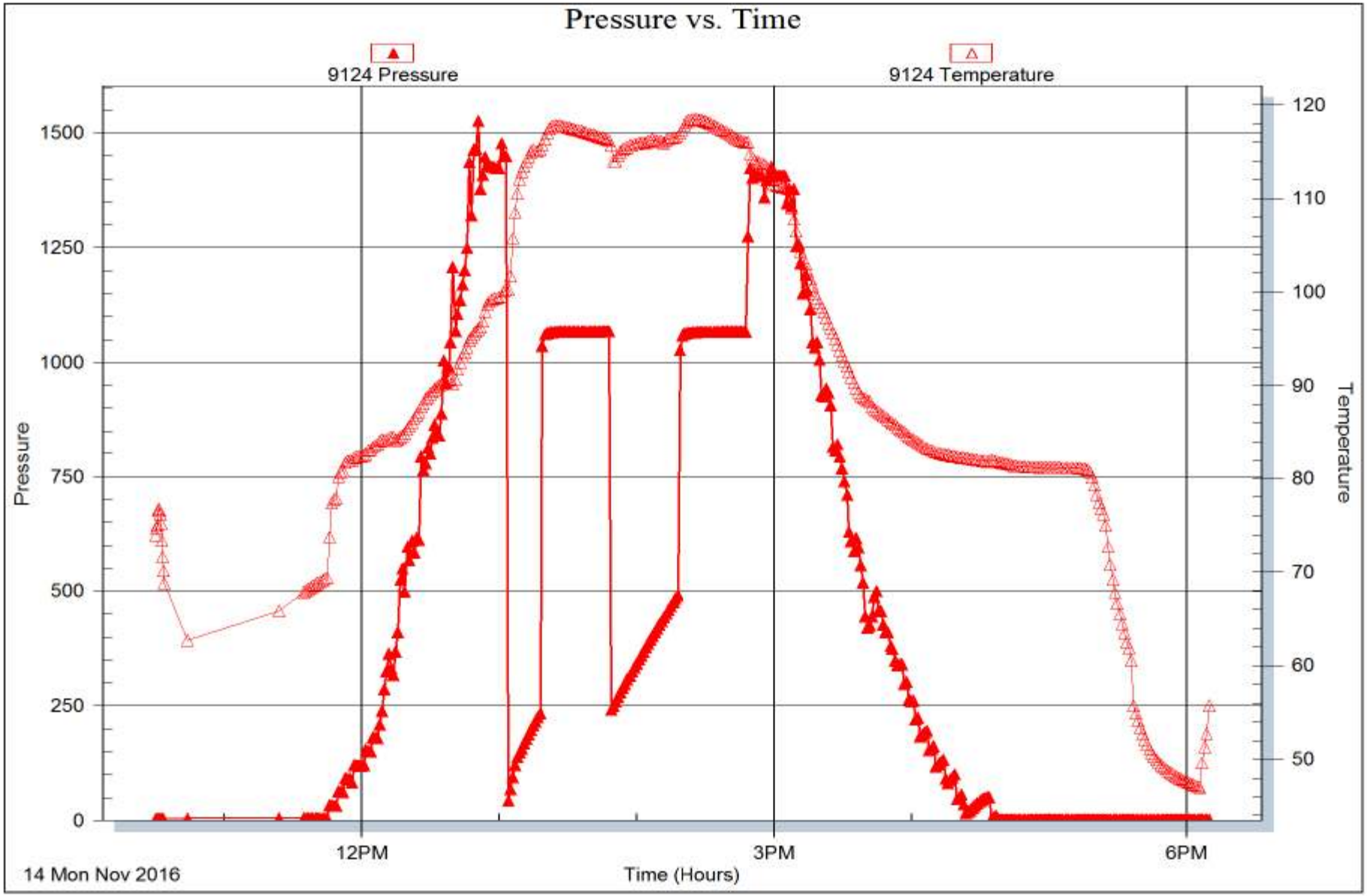
Recovery Comments:

Serial #: 6798 Darrah, John Jay, JR. Lee #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 63088 Printed: 2016.11.14 @ 20:20:19

Serial #: 9124 Darrah, John Jay, JR. Lee #1 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 63088 Printed: 2016.11.14 @ 20:20:19

DRILL STEM TEST REPORT

Darrah, John Jay, JR.

P.O. Box 2786
Wichita, Ks
67201
ATTN: Will Darrah/Seth Eve

4/17S/10E Lyon, Ks

Lee #1

Job Ticket: 63089 **DST#: 4**

Test Start: 2016.11.15 @ 13:43:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:36:30
Time Test Ended: 20:27:00

Test Type: Conventional Straddle (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2908.00 ft (KB) To 2918.00 ft (KB) (TVD)
Total Depth: 3062.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

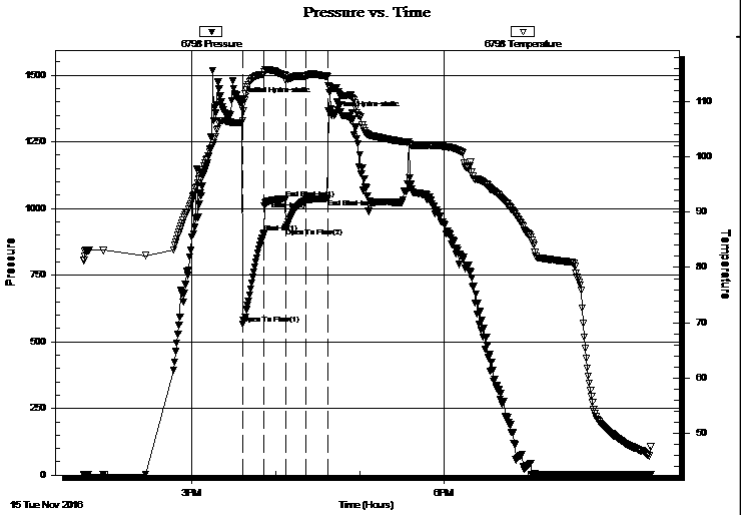
Reference Elevations: 1255.00 ft (KB)
1246.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 1029.09 psig @ 2913.00 ft (KB)
Start Date: 2016.11.15 End Date: 2016.11.15
Start Time: 13:43:05 End Time: 20:26:59

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2016.11.15 @ 15:35:45
Time Off Btm: 2016.11.15 @ 16:39:45

TEST COMMENT: IF - Strong blow throughout initial flow period.
FF - Strong blow throughout final flow period.
By charts bottom packer did not hold. Misrun.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1402.71	106.24	Initial Hydro-static
1	567.67	106.57	Open To Flow (1)
16	908.21	114.98	Shut-In(1)
31	1035.86	114.78	End Shut-In(1)
32	927.32	113.78	Open To Flow (2)
46	1029.09	114.46	Shut-In(2)
61	1037.38	114.61	End Shut-In(2)
64	1349.24	112.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2280.00	Heavy mud cut w ater 23% M & 77% W	29.82

Gas Rates

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

DRILL STEM TEST REPORT

Darrah, John Jay, JR.

P.O. Box 2786
Wichita, Ks
67201
ATTN: Will Darrah/Seth Eve

4/17S/10E Lyon, Ks

Lee #1

Job Ticket: 63089 **DST#: 4**

Test Start: 2016.11.15 @ 13:43:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:36:30
Time Test Ended: 20:27:00

Test Type: Conventional Straddle (Initial)
Tester: Jimmy Ricketts
Unit No: 80

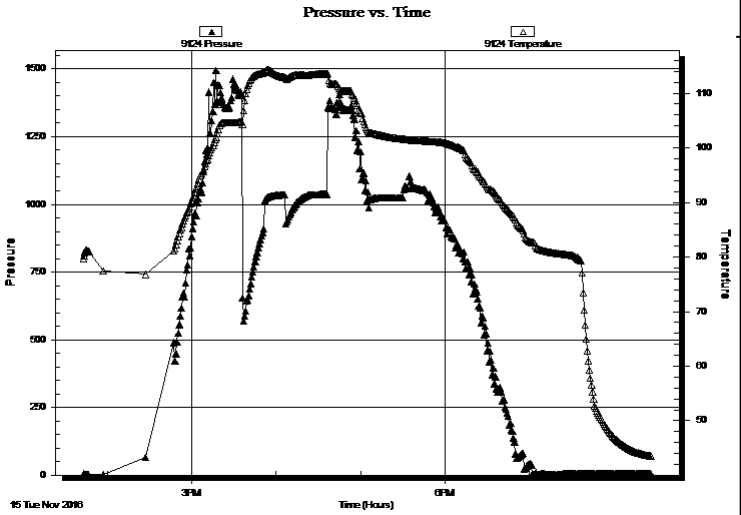
Interval: 2908.00 ft (KB) To 2918.00 ft (KB) (TVD)
Total Depth: 3062.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1255.00 ft (KB)
1246.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 9124 **Outside**
Press@RunDepth: psig @ 2913.00 ft (KB)
Start Date: 2016.11.15 End Date: 2016.11.15
Start Time: 13:43:05 End Time: 20:26:44

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Strong blow throughout initial flow period.
FF - Strong blow throughout final flow period.
By charts bottom packer did not hold. Misrun.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
2280.00	Heavy mud cut w ater 23% M & 77% W	29.82

Gas Rates

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

DRILL STEM TEST REPORT

Darrah, John Jay, JR.

P.O. Box 2786
Wichita, Ks
67201
ATTN: Will Darrah/Seth Eve

4/17S/10E Lyon, Ks

Lee #1

Job Ticket: 63089 **DST#: 4**

Test Start: 2016.11.15 @ 13:43:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:36:30
Time Test Ended: 20:27:00

Test Type: Conventional Straddle (Initial)
Tester: Jimmy Ricketts
Unit No: 80

Interval: 2908.00 ft (KB) To 2918.00 ft (KB) (TVD)
Total Depth: 3062.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

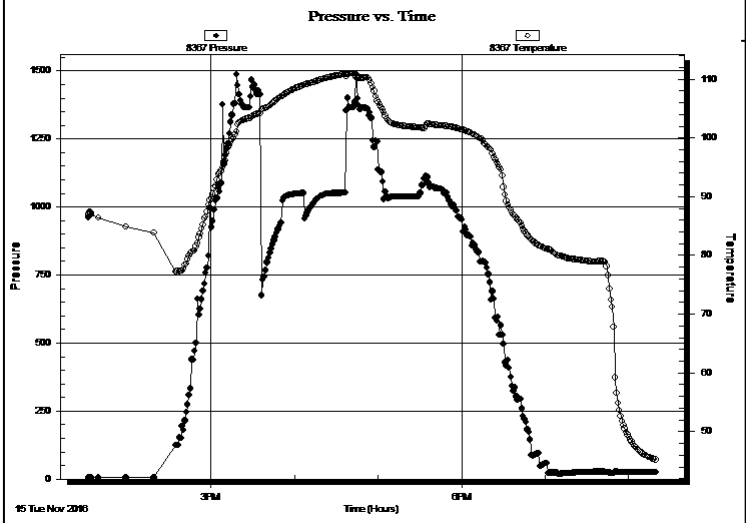
Reference Elevations: 1255.00 ft (KB)
1246.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8367 **Below (Straddle)**

Press@RunDepth: psig @ 2919.00 ft (KB)
Start Date: 2016.11.15 End Date: 2016.11.15
Start Time: 13:32:01 End Time: 20:19:30

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Strong blow throughout initial flow period.
FF - Strong blow throughout final flow period.
By charts bottom packer did not hold. Misrun.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
2280.00	Heavy mud cut w ater 23% M & 77% W	29.82

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah, John Jay, JR.

P.O. Box 2786
Wichita, Ks
67201

ATTN: Will Darrah/Seth Eve

4/17S/10E Lyon, Ks

Lee #1

Job Ticket: 63089 **DST#: 4**

Test Start: 2016.11.15 @ 13:43:00

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:	11000 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2280.00	Heavy mud cut w ater 23% M & 77% W	29.823

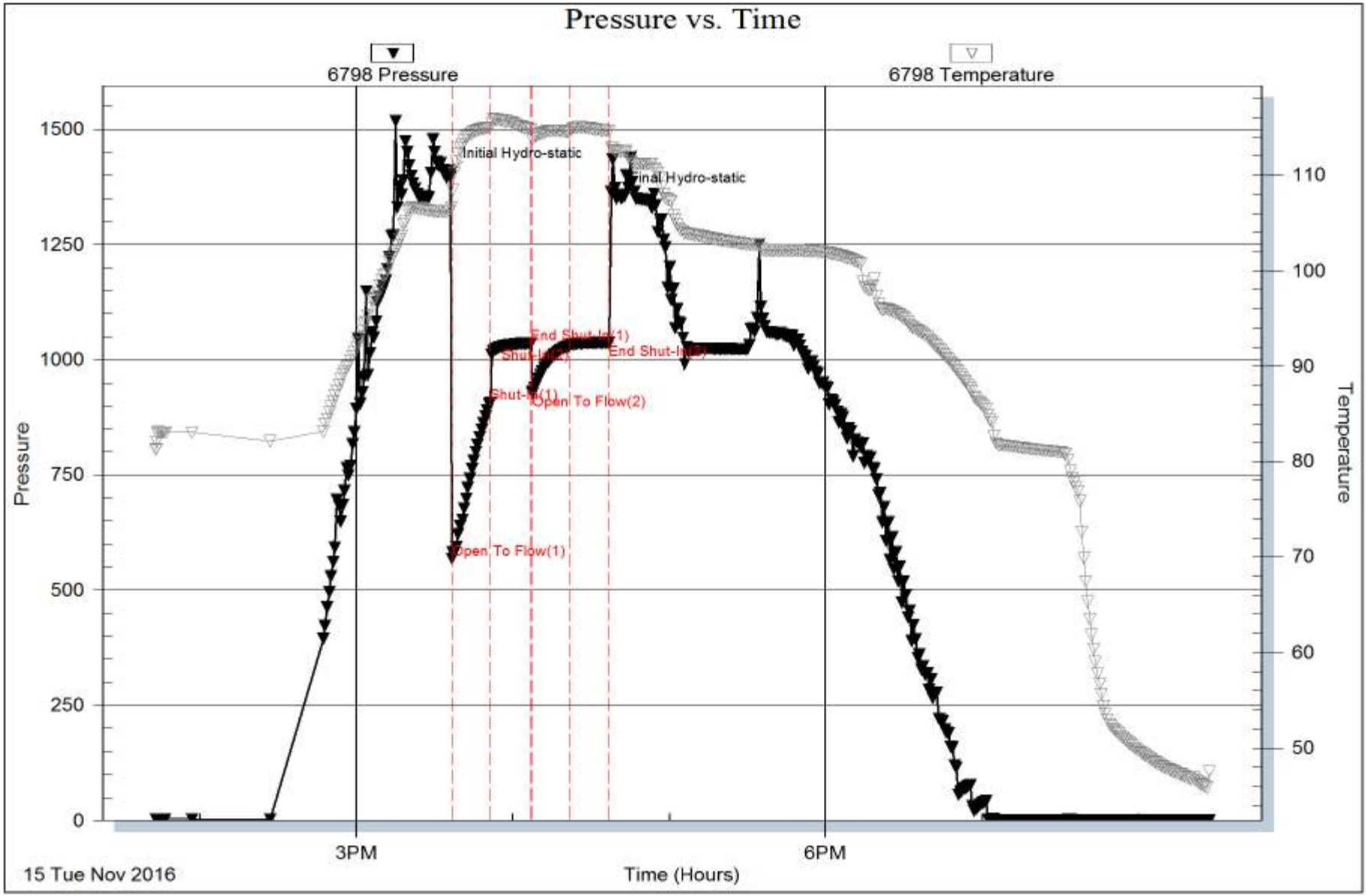
Total Length: 2280.00 ft Total Volume: 29.823 bbl

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

Laboratory Name: Laboratory Location:

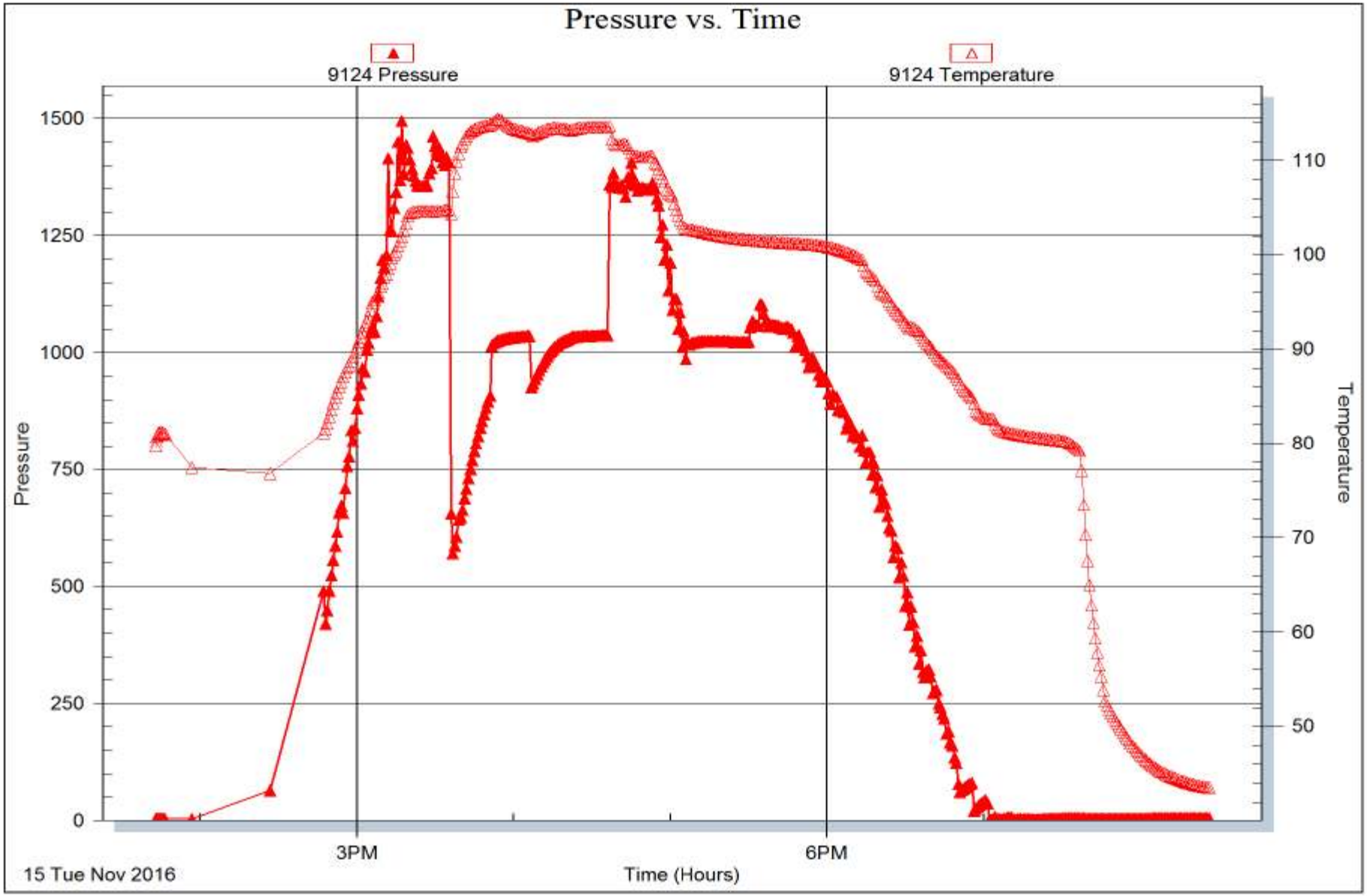
Recovery Comments:

Serial #: 6798 **Inside** Darrah, John Jay, JR. Lee #1 DST Test Number: 4



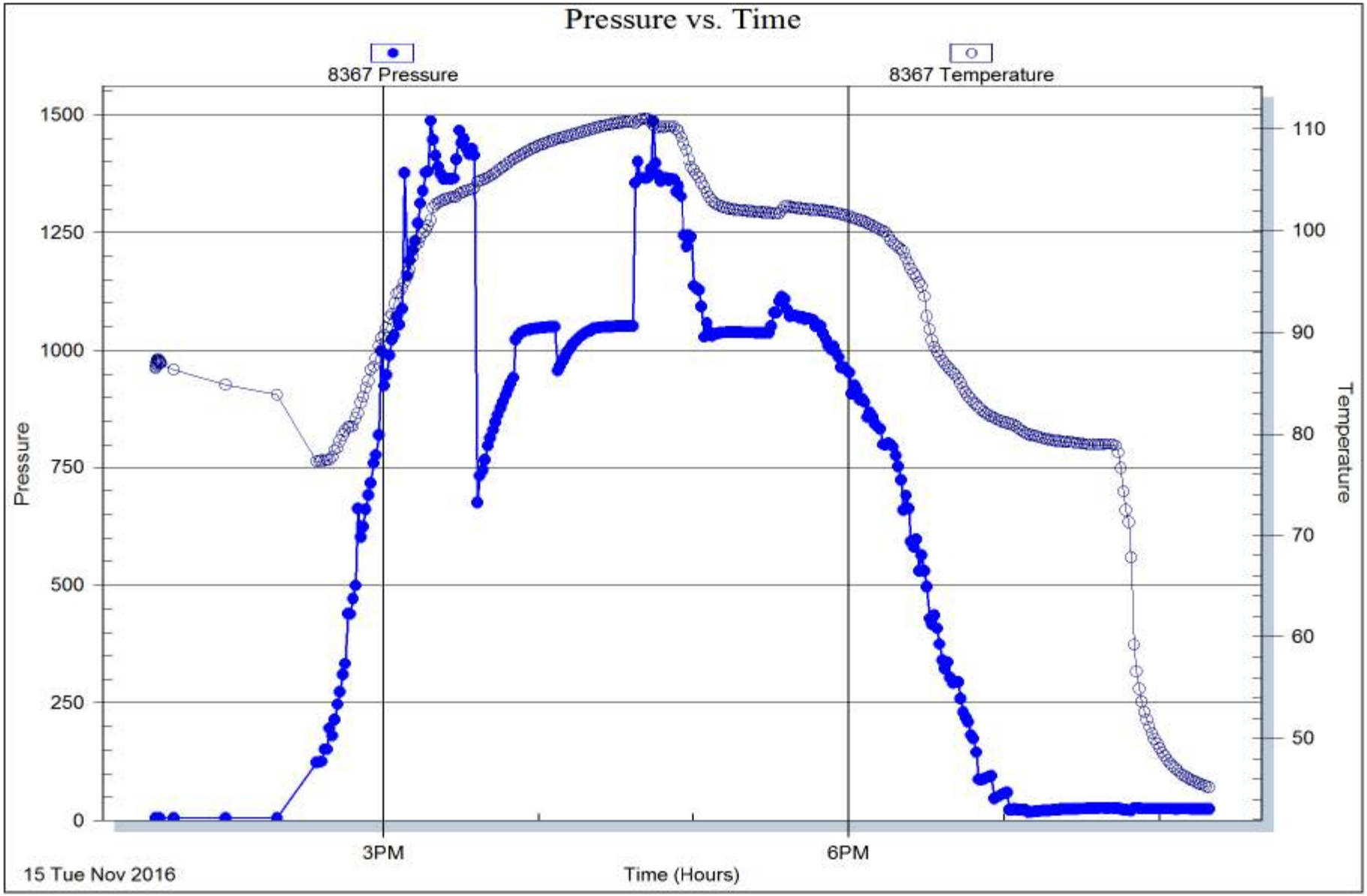
Trilobite Testing, Inc Ref. No: 63089 Printed: 2016.11.16 @ 12:03:36

Serial #: 9124 **Outside** Darrah, John Jay, JR. Lee #1 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 63089 Printed: 2016.11.16 @ 12:03:36

Serial #: 8367 Below (Straddle), John Jay, JR. Lee #1 DST Test Number: 4



810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE
CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. **2945**
Foreman Rick Ledford
Camp Eureka Ks

API# 15-111-20531

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
11-10-16	1219	Lee #1	4	17S	10E	Lyon	Ks

Customer: Darah Oil
Mailing Address: 125 N. Market suite #1425
City: Wichita | State: Ks | Zip Code: 67202

Safety Meeting: DG, DL, Gm

Unit #	Driver	Unit #	Driver
105	Dave		
114	Rick		
121	Greg		

Job Type S/P | Hole Depth 217' K.B. | Slurry Vol. 32 Bbl | Tubing -
Casing Depth 220' K.B. | Hole Size 12 1/4" | Slurry Wt. 15# | Drill Pipe
Casing Size & Wt. 8 5/8" | Cement Left in Casing 15' | Water Gal/SK 6.5 | Other
Displacement 12 3/4 Bbl | Displacement PSI | Bump Plug to | BPM

Remarks: Safety meeting - Rig up to 8 5/8" casing. Break circulation w/ fresh water. Mixed 150 sks Class A cement w/ 3% calcl @ 15# /gal. Displace w/ 12 3/4 Bbl water. Good cement returns to surface = 6 Bbl slurry to pit. Job complete. Rig down.

"Thank You"

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	840.00	840.00
C107	40	Mileage	3.95	158.00
C200	150 sks	Class A cement	15.00	2250.00
C205	400#	3% calcl	.60	240.00
C108A	6.45	ton mileage bulk trk	m/c	345.00
			$ 4019.75	
		-5%	- 200.99	
			3818.76	
			Subtotal	3833.00
		7.5%	Sales Tax	186.75
			Total	4019.75

Authorization witnessed by Duke Coulter Title Toolpusher COO

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

TERMS

In consideration of the prices to be charged by Elite Cementing & Acidizing of Kansas, LLC (ELITE) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay ELITE interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event ELITE retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by ELITE.

Any applicable federal, state or local sales, use, consumer or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All ELITE prices are subject to change without notice.

SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by ELITE. The Customer shall at all times have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises around the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service to be performed.

(a) ELITE shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a "claim") for damage to property, injury to or death of employees and representatives of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of ELITE, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gróss negligence of ELITE, Customer shall be responsible for and indemnify and hold ELITE harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by ELITE; (3) injury to or death of persons, other than employees of ELITE, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; (4) well damage or reservoir damaged caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) subsurface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. ELITE may furnish down-hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage or loss resulting from the use of such tools. Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) ELITE makes no guarantee of the effectiveness of any ELITE products, supplies or materials, or the results of any ELITE treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, ELITE is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by ELITE. ELITE personnel will use their best efforts in gathering such information and their best judgment in interpreting it. Customer agrees that ELITE shall not be responsible for any damage arising from the use of such information except where due to ELITE's gross negligence or willfull misconduct in the preparation or furnishing of it.

(e) ELITE may buy and resell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that ELITE is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify ELITE against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

WARRANTIES – LIMITATION OF LIABILITY

ELITE warrants its title to the products, supplies, and materials used or sold to the customer. **ELITE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANT OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** ELITE's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any ELITE products or services is expressly limited to the replacement of such or their return to ELITE or, at ELITE's option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against ELITE for any special, incidental, indirect, consequential or punitive damages.

810 E 7TH
PO Box 92
EUREKA, KS 67045
(620) 583-5561

ELITE
CEMENTING & ACID SERVICE, LLC

Cement or Acid Field Report
Ticket No. **3037**
Foreman Steve Mead
Camp Eureka KS

15-111-20531

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
11-15-16	1219	Lee #1	4	17S	10E	Lyon	KS

Customer	Safety Meeting	Unit #	Driver	Unit #	Driver
Darrah Oil		104	Alan M		
Mailing Address: 125 N. Market Suite 14		112	Allen B		
City: Wichita / State: Ks / Zip Code: 67202					

Job Type PTA New Well — Hole Depth 3062' — Slurry Vol. — Tubing —
Casing Depth — Hole Size 7 7/8 — Slurry Wt. — Drill Pipe 4 1/2
Casing Size & Wt. — Cement Left in Casing — Water Gal/SK — Other —
Displacement — Displacement PSI — Bump Plug to — BPM —

Remarks: Safty Meeting. Rig up to 4 1/2 Drill pipe. Plug Well As Follow
15 SKS AT 2915'
15 SKS AT 2850'
15 SKS AT 2780'
15 SKS AT 2340'
15 SKS AT 1400' Thank You
15 SKS AT 995'
75 SKS AT 250' to Surface
15 SKS Rathole
15 SKS Mousehole.
190 SKS Total 60/40 Pozmix Cement 4% Gel

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C103	1	Pump Charge	1050.00	1050.00
C107	40	Mileage	3.95	158.00
C203	190 SKS	60/40 Pozmix Cement	12.75	2422.50
C206	650#	Gel 4%	.20	130.00
C108-A	8.17 Ton	Ton Milage Bulk Truck	M/C	345.00
		10% Discount	<429.10>	
			$3861.24	
			Sub Total	4105.50
		7.50%	Sales Tax	191.44
			Total	4296.94

Authorization D. Coulter Title —

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.