

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1361639
OIL & GAS CONSERVATION DIVISION

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____ Date: _____

1361639

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

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

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

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

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

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

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

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

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

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	RF Hembree Oil, LLC
Well Name	BLUM 1
Doc ID	1361639

Tops

Name	Top	Datum
Anhydrite	771	+1115
B/Anhydrite	790	+1096
Topeka	2719	-833
Heebner	3053	-1167
Toronto	3064	-1178
Douglas	3080	-1194
Brown Lime	3144	-1258
Lansing	3155	-1269
BKC	3384	-1498
Conglomerate	3390	-1504
Arbuckle	3402	-1516
RTD	3419	-1533



DRILL STEM TEST REPORT

Prepared For: **R F Hembree Oil LLC**

P O Box 542`
Ness City, Kansas

ATTN: Wyatt Urban

Blum #1

3-19s-13w Barton

Start Date: 2017.06.01 @ 07:12:00

End Date: 2017.06.01 @ 12:24:00

Job Ticket #: 01169 DST #: 1

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

Printed: 2017.06.01 @ 10:43:37



DRILL STEM TEST REPORT

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542`
Ness City, Kansas

Blum #1

ATTN: Wyatt Urban

Job Ticket: 01169

DST#: 1

Test Start: 2017.06.01 @ 07:12:00

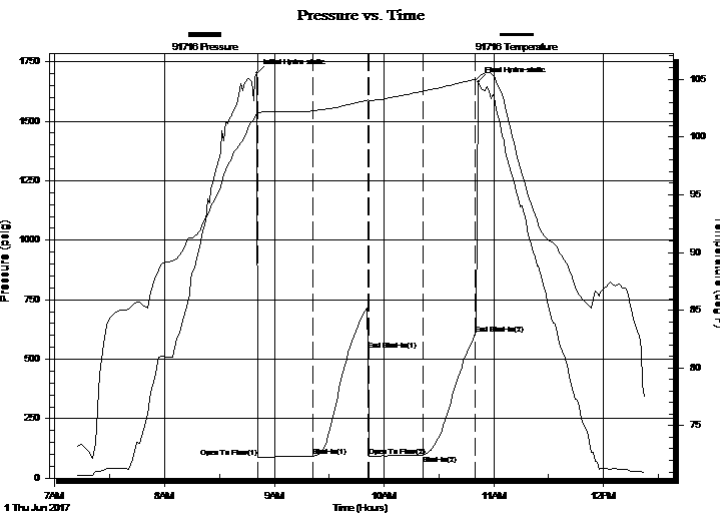
GENERAL INFORMATION:

Formation: **Kansas city"H-I-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:52:00
 Time Test Ended: 12:24:00
 Interval: **3371.00 ft (KB) To 3360.00 ft (KB) (TVD)**
 Total Depth: 3371.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1886.00 ft (KB)
 1879.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 91716 Outside

Press@RunDepth: 606.21 psig @ 3355.05 ft (KB) Capacity: 5000.00 psig
 Start Date: 2017.06.01 End Date: 2017.06.01 Last Calib.: 2017.06.01
 Start Time: 07:12:00 End Time: 12:22:30 Time On Btm: 2017.06.01 @ 08:50:30
 Time Off Btm: 2017.06.01 @ 10:51:30

TEST COMMENT: 1st Opening 30 Minutes w eak steady 1/2 inch blow through out
 1st Shut-In 30 Minutes no blow back
 2nd opening 30 Minutes very w eak surface blow lthrough out
 2nd Shut-In 30 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.93	101.98	Initial Hydro-static
1	87.78	102.07	Open To Flow (1)
31	91.82	102.25	Shut-In(1)
61	539.16	103.19	End Shut-In(1)
62	93.13	103.17	Open To Flow (2)
91	97.46	103.96	Shut-In(2)
120	606.21	104.98	End Shut-In(2)
121	1665.91	105.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	drilling mud less than 1% oil	0.42
0.00	ther w as a good show of oil betw een	0.00
0.00	`the tools	0.00

Gas Rates

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



DRILL STEM TEST REPORT

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542`
Ness City, Kansas

Blum #1

Job Ticket: 01169

DST#: 1

ATTN: Wyatt Urban

Test Start: 2017.06.01 @ 07:12:00

GENERAL INFORMATION:

Formation: **Kansas city "H-I-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:52:00
 Time Test Ended: 12:24:00
 Interval: **3371.00 ft (KB) To 3360.00 ft (KB) (TVD)**
 Total Depth: 3371.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Reference Elevations: 1886.00 ft (KB)
 1879.00 ft (CF)
 KB to GR/CF: 7.00 ft

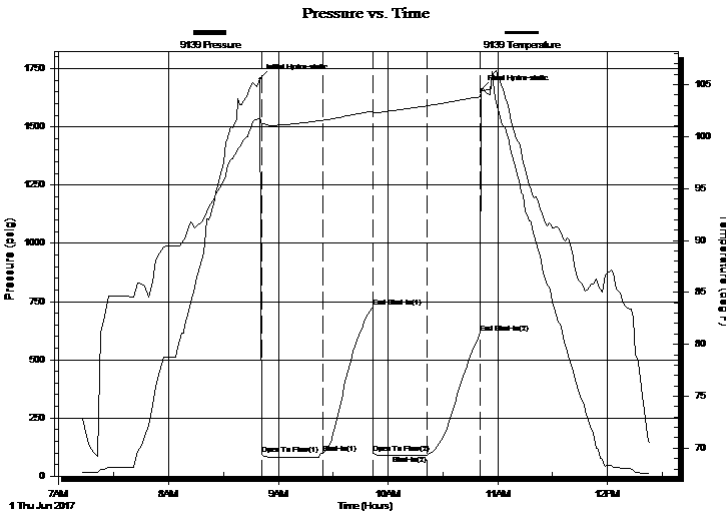
Serial #: 9139

Inside

Press@RunDepth: 613.11 psig @ 3355.05 ft (KB) Capacity: 5000.00 psig
 Start Date: 2017.06.01 End Date: 2017.06.01 Last Calib.: 2017.06.01
 Start Time: 07:12:00 End Time: 12:23:00 Time On Btm: 2017.06.01 @ 08:50:00
 Time Off Btm: 2017.06.01 @ 10:51:00

TEST COMMENT: 1st Opening 30 Minutes w eak steady 1/2 inch blow through out
 1st Shut-In 30 Minutes no blow back
 2nd opening 30 Minutes very w eak surface blow lthrough out
 2nd Shut-In 30 Minutes no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.49	101.78	Initial Hydro-static
1	95.20	101.14	Open To Flow (1)
35	99.39	101.56	Shut-In(1)
62	728.20	102.43	End Shut-In(1)
62	99.15	102.28	Open To Flow (2)
92	91.23	102.97	Shut-In(2)
121	613.11	103.84	End Shut-In(2)
121	1657.91	104.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	drilling mud less than 1% oil	0.42
0.00	ther w as a good show of oil betw een	0.00
0.00	`the tools	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542`
Ness City, Kansas

Blum #1

Job Ticket: 01169

DST#: 1

ATTN: Wyatt Urban

Test Start: 2017.06.01 @ 07:12:00

Tool Information

Drill Pipe:	Length: 3276.00 ft	Diameter: 3.80 inches	Volume: 45.95 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 45.95 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3271.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	89.05 ft				
Tool Length:	109.05 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3256.00	
Hydraulic tool	5.00			3261.00	
Top Packer	5.00			3266.00	
Packer	5.00			3271.00	20.00 Bottom Of Top Packer
Anchor	5.00			3276.00	
Change Over Sub	0.75			3276.75	
Drill Pipe	62.55			3339.30	
Change Over Sub	0.75			3340.05	
Anchor	15.00			3355.05	
Recorder	0.00	9139	Inside	3355.05	
Recorder	0.00	91716	Outside	3355.05	
Bullnose	5.00			3360.05	89.05 Anchor Tool

Total Tool Length: 109.05



DRILL STEM TEST REPORT

FLUID SUMMARY

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542`
Ness City, Kansas

Blum #1

Job Ticket: 01169

DST#: 1

ATTN: Wyatt Urban

Test Start: 2017.06.01 @ 07:12:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 10.20 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	drilling mud less than 1% oil	0.421
0.00	ther w as a good show of oil betw een	0.000
0.00	`the tools	0.000

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

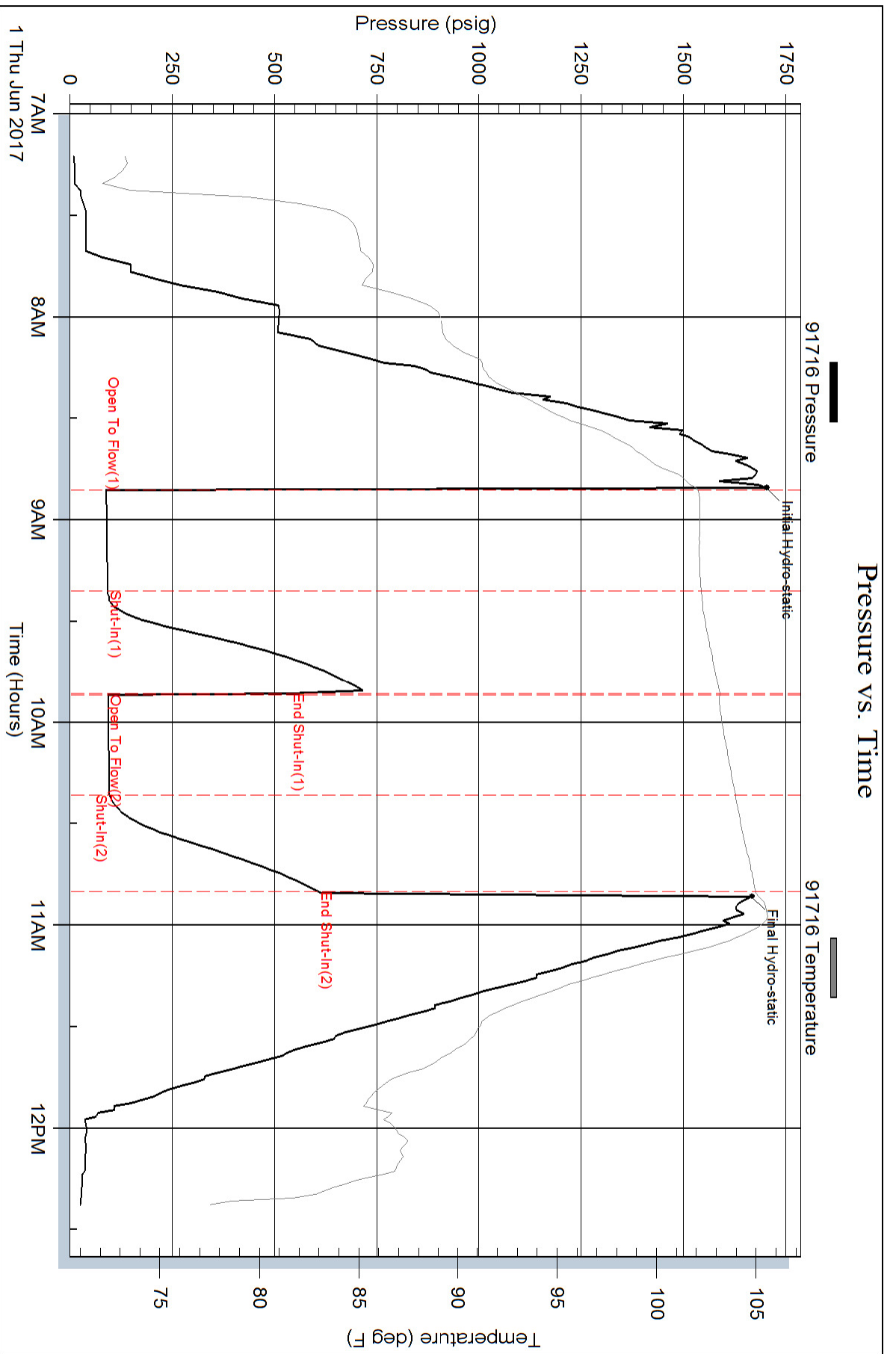
Serial #:

Laboratory Name:

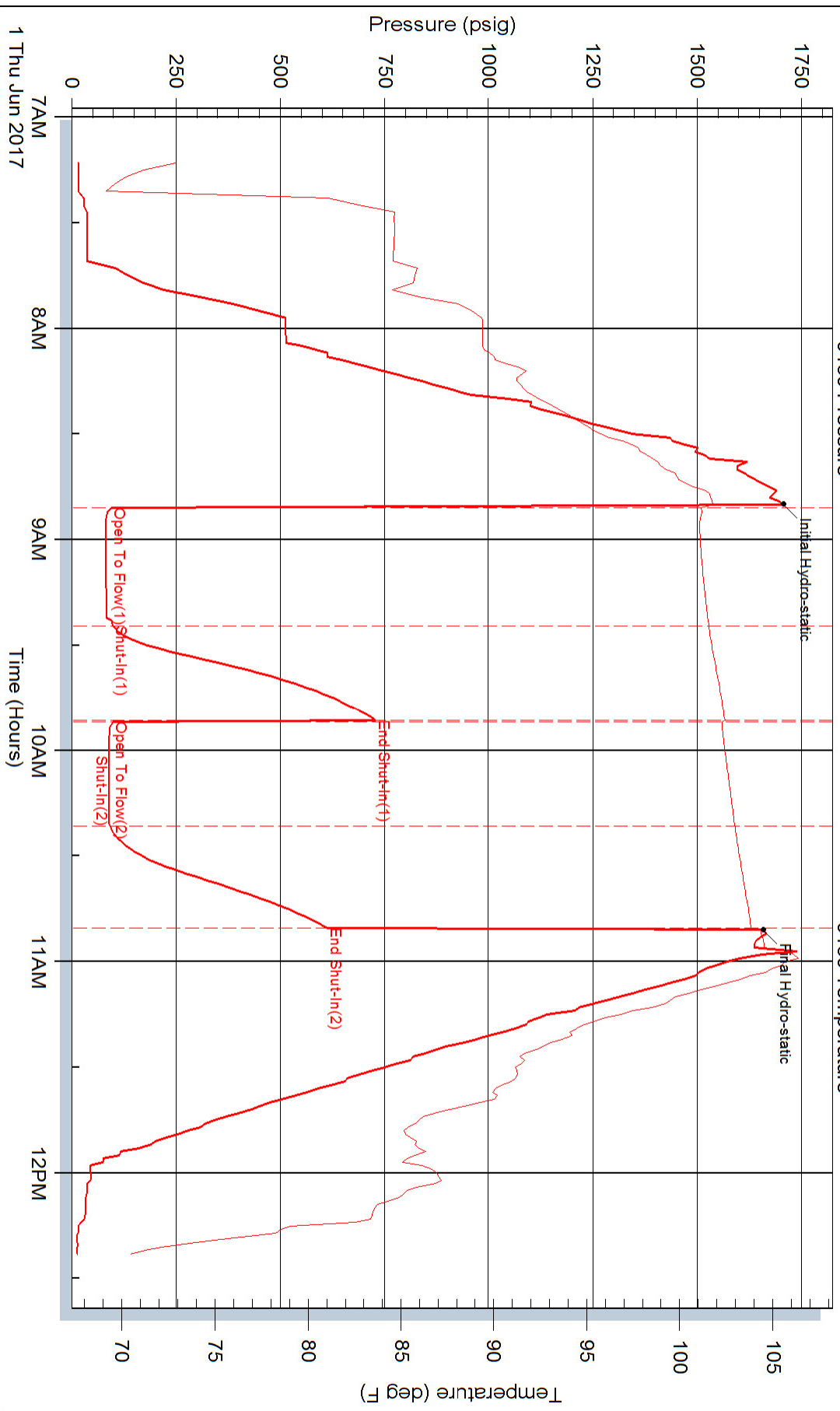
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **R F Hembree Oil LLC**

P O Box 542`
Ness City, Kansas

ATTN: Wyatt Urban

Blum #1

3-19s-13w Barton

Start Date: 2017.06.01 @ 23:41:00

End Date: 2017.06.02 @ 03:59:00

Job Ticket #: 01170 DST #: 2

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

Printed: 2017.06.02 @ 04:17:24



DRILL STEM TEST REPORT

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542
Ness City, Kansas

Blum #1

Job Ticket: 01170

DST#: 2

ATTN: Wyatt Urban

Test Start: 2017.06.01 @ 23:41:00

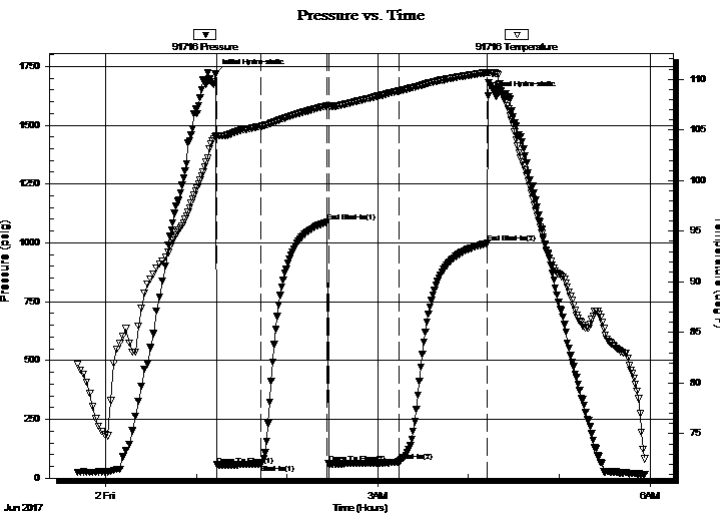
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:14:00
 Time Test Ended: 03:59:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 1
 Interval: **3360.00 ft (KB) To 3410.00 ft (KB) (TVD)**
 Reference Elevations: 1886.00 ft (KB)
 Total Depth: 3410.00 ft (KB) (TVD)
 1879.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 7.00 ft

Serial #: 91716 Outside

Press@RunDepth: 997.73 psig @ 3404.79 ft (KB) Capacity: 5000.00 psig
 Start Date: 2017.06.01 End Date: 2017.06.02 Last Calib.: 2017.06.02
 Start Time: 23:41:00 End Time: 05:57:00 Time On Btm: 2017.06.02 @ 01:13:00
 Time Off Btm: 2017.06.02 @ 04:13:00

TEST COMMENT: 1st Opening 30 Minutes Weak building blow built to 1 inch into the water
 1st Shut-In 45 Minutes no blow back
 2nd Opening 45 Minutes weak building blow built to 1 1/4 inches into the water
 2nd Shut-In 60 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1718.99	104.40	Initial Hydro-static
1	56.11	104.45	Open To Flow (1)
30	60.21	105.34	Shut-In(1)
74	1087.77	107.40	End Shut-In(1)
75	60.81	107.40	Open To Flow (2)
121	71.15	108.85	Shut-In(2)
180	997.73	110.65	End Shut-In(2)
180	1623.58	110.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clelan Oil	0.07
30.00	Oil cut mud 30% Oil 70% Mud	0.42

Gas Rates

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



DRILL STEM TEST REPORT

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542
Ness City, Kansas

Blum #1

Job Ticket: 01170

DST#: 2

ATTN: Wyatt Urban

Test Start: 2017.06.01 @ 23:41:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:14:00

Time Test Ended: 03:59:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3360.00 ft (KB) To 3410.00 ft (KB) (TVD)

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3410.00 ft (KB) (TVD)

1879.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 9139 Inside

Press@RunDepth: 1005.78 psig @ 3404.79 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.06.01

End Date:

2017.06.02

Last Calib.:

2017.06.02

Start Time: 23:41:00

End Time:

05:57:30

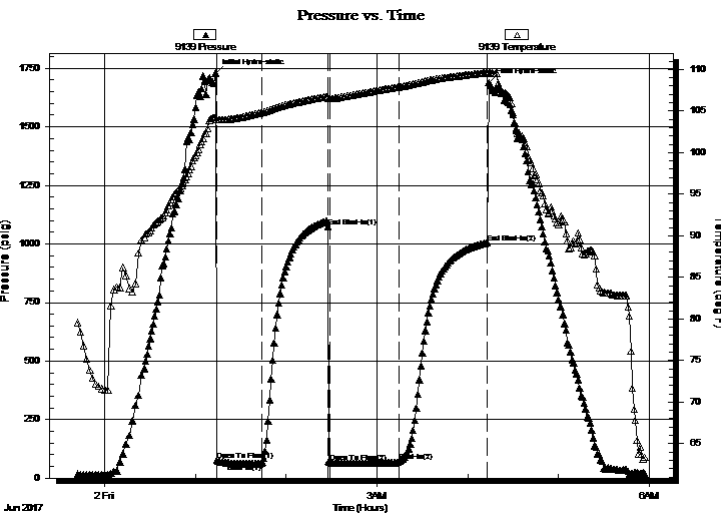
Time On Btm:

2017.06.02 @ 01:13:00

Time Off Btm:

2017.06.02 @ 04:14:00

TEST COMMENT: 1st Opening 30 Minutes Weak building blow built to 1 inch into the water
 1st Shut-In 45 Minutes no blow back
 2nd Opening 45 Minutes weak building blow built to 1 1/4 inches into the water
 2nd Shut-In 60 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.01	104.35	Initial Hydro-static
1	74.98	104.02	Open To Flow (1)
31	64.91	104.81	Shut-In(1)
75	1074.49	106.75	End Shut-In(1)
76	68.63	106.49	Open To Flow (2)
122	70.38	107.90	Shut-In(2)
180	1005.78	109.61	End Shut-In(2)
181	1690.00	109.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clelan Oil	0.07
30.00	Oil cut mud 30% Oil 70% Mud	0.42

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542`
Ness City, Kansas

Blum #1

Job Ticket: 01170

DST#: 2

ATTN: Wyatt Urban

Test Start: 2017.06.01 @ 23:41:00

Tool Information

Drill Pipe:	Length: 3371.00 ft	Diameter: 3.80 inches	Volume: 47.29 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 47.29 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3360.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	49.79 ft				
Tool Length:	69.79 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3345.00	
Hydraulic tool	5.00			3350.00	
Top Packer	5.00			3355.00	
Packer	5.00			3360.00	20.00 Bottom Of Top Packer
Anchor	2.00			3362.00	
Change Over Sub	0.75			3362.75	
Drill Pipe	31.29			3394.04	
Change Over Sub	0.75			3394.79	
Anchor	10.00			3404.79	
Recorder	0.00	9139	Inside	3404.79	
Recorder	0.00	91716	Outside	3404.79	
Bullnose	5.00			3409.79	49.79 Anchor Tool

Total Tool Length: 69.79



DRILL STEM TEST REPORT

FLUID SUMMARY

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542`
Ness City, Kansas

Blum #1

Job Ticket: 01170

DST#:2

ATTN: Wyatt Urban

Test Start: 2017.06.01 @ 23:41:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 10.20 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Clelan Oil	0.070
30.00	Oil cut mud 30% Oil 70% Mud	0.421

Total Length: 35.00 ft Total Volume: 0.491 bbl

Num Fluid Samples: 0

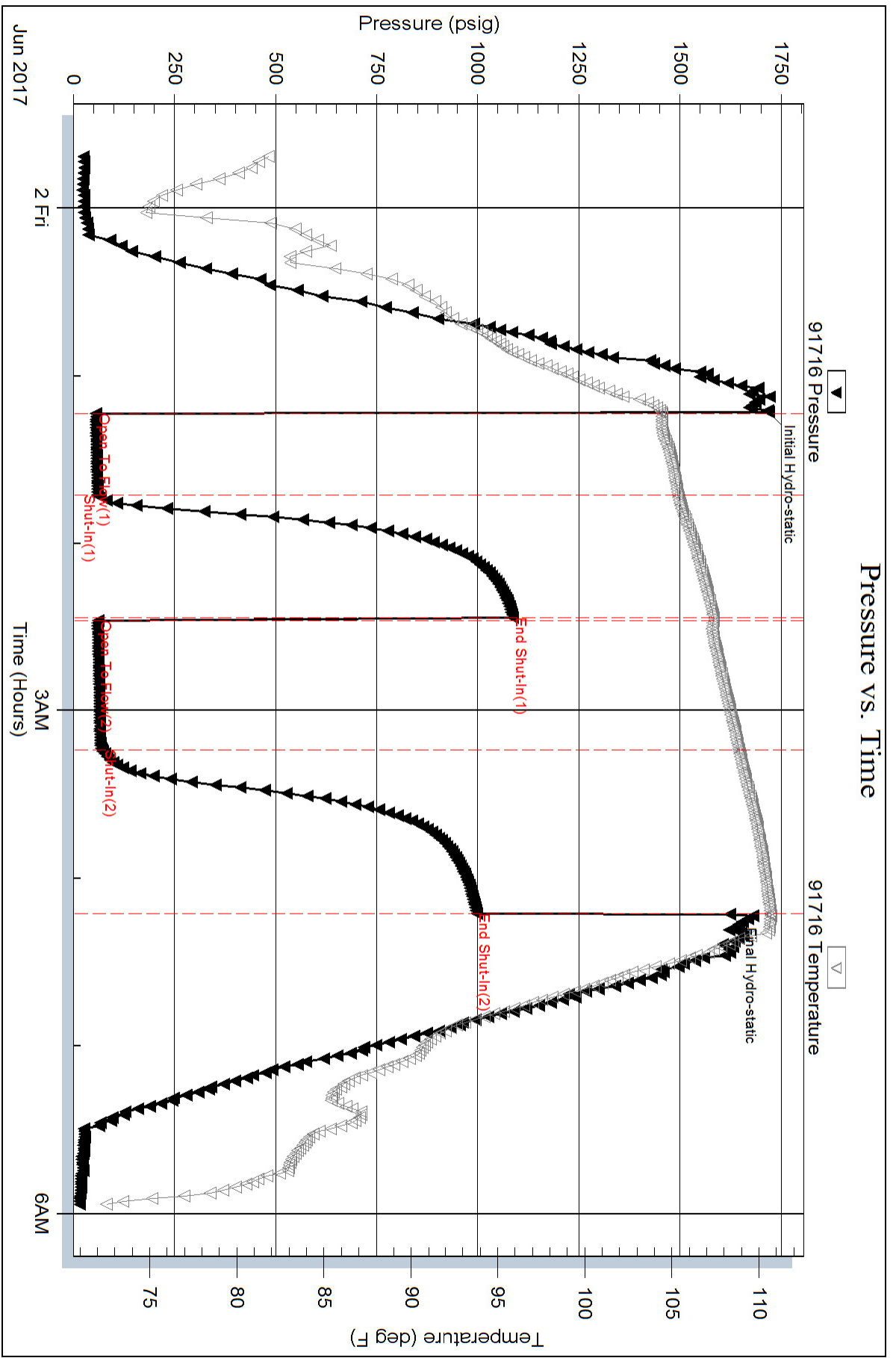
Num Gas Bombs: 0

Serial #:

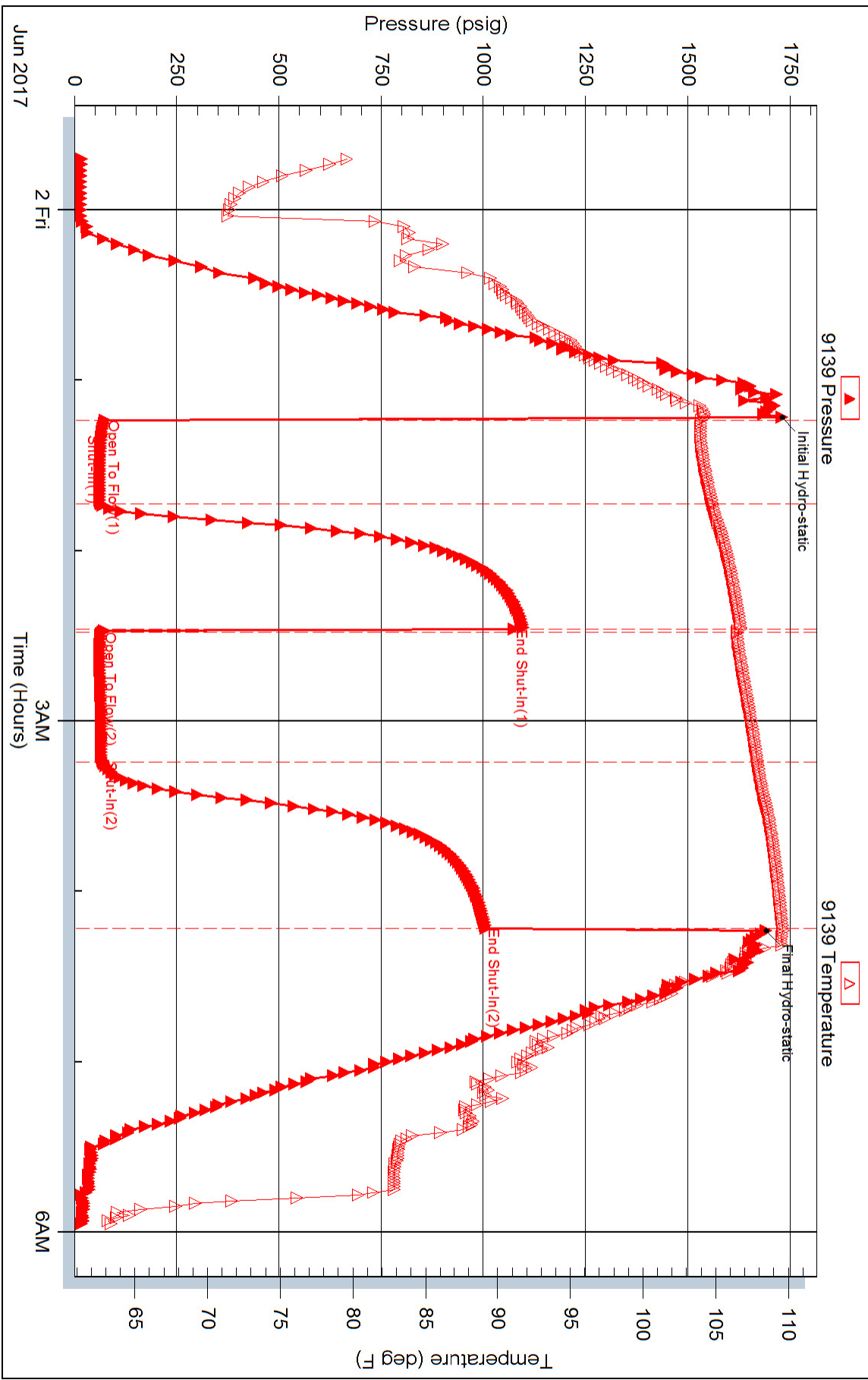
Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **R F Hembree Oil LLC**

P O Box 542`
Ness City, Kansas

ATTN: Wyatt Urban

Blum #1

3-19s-13w Barton

Start Date: 2017.06.02 @ 00:00:00

End Date:

Job Ticket #: 01171

DST #: 3

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

Printed: 2017.06.02 @ 17:13:45



DRILL STEM TEST REPORT

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542`
Ness City, Kansas

Blum #1

Job Ticket: 01171

DST#: 3

ATTN: Wyatt Urban

Test Start: 2017.06.02 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:14:00

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3360.00 ft (KB) To 3419.00 ft (KB) (TVD)

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3360.00 ft (KB) (TVD)

1879.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 9139 Inside

Press@RunDepth: 665.23 psig @ 3413.74 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.06.02

End Date:

2017.06.02

Last Calib.:

2017.06.02

Start Time: 11:14:00

End Time:

16:54:30

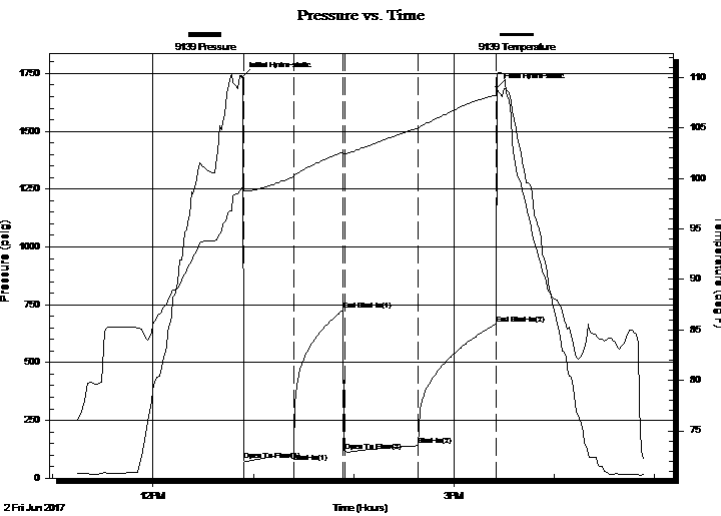
Time On Btm:

2017.06.02 @ 12:53:30

Time Off Btm:

2017.06.02 @ 15:25:30

TEST COMMENT: 1st opening 30 Minutes weak blow built to the bottom of a 5 gallon bucket in 28 minutes
1st Shut-in 30 Minutes no blow back
2nd Opening 45 Minutes weak building blow built to 5 3/4 inches into the water
2nd Shut-in 45 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.50	99.14	Initial Hydro-static
1	78.40	98.76	Open To Flow (1)
31	105.86	100.18	Shut-In(1)
60	725.24	102.60	End Shut-In(1)
62	114.46	102.44	Open To Flow (2)
105	140.94	104.99	Shut-In(2)
152	665.23	108.23	End Shut-In(2)
152	1690.47	109.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean Oil	0.07
50.00	Oil cut mud	0.70
0.00	10%oil 10% Water 80%Mud	0.00
60.00	Oil cut w atery mud	0.84
60.00	5%Oil 40%w ater 55% Mud	0.84
60.00	slightly oil cut w atery mud	0.84

Gas Rates

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



DRILL STEM TEST REPORT

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542`
Ness City, Kansas

Blum #1

Job Ticket: 01171

DST#: 3

ATTN: Wyatt Urban

Test Start: 2017.06.02 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:14:00

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3360.00 ft (KB) To 3419.00 ft (KB) (TVD)

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3360.00 ft (KB) (TVD)

1879.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 91716 Outside

Press@RunDepth: 660.67 psig @ 3413.74 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.06.02

End Date:

2017.06.02

Last Calib.:

2017.06.02

Start Time: 11:14:00

End Time:

16:54:00

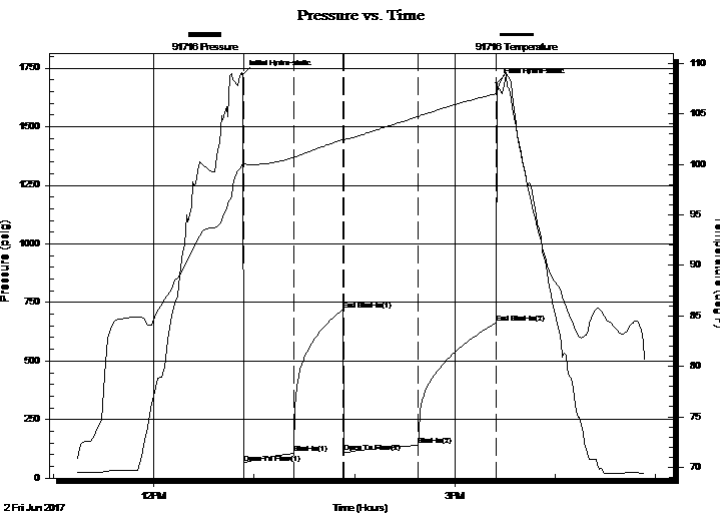
Time On Btm:

2017.06.02 @ 12:53:00

Time Off Btm:

2017.06.02 @ 15:25:00

TEST COMMENT: 1st opening 30 Minutes weak blow built to the bottom of a 5 gallon bucket in 28 minutes
1st Shut-in 30 Minutes no blow back
2nd Opening 45 Minutes weak building blow built to 5 3/4 inches into the water
2nd Shut-in 45 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1724.06	100.03	Initial Hydro-static
1	64.24	100.08	Open To Flow (1)
31	104.98	100.66	Shut-In(1)
60	719.03	102.47	End Shut-In(1)
61	109.96	102.48	Open To Flow (2)
105	140.54	104.72	Shut-In(2)
152	660.67	107.00	End Shut-In(2)
152	1687.44	107.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean Oil	0.07
50.00	Oil cut mud	0.70
0.00	10%oil 10% Water 80%Mud	0.00
60.00	Oil cut w atery mud	0.84
60.00	5%Oil 40%w ater 55% Mud	0.84
60.00	slightly oil cut w atery mud	0.84

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542`
Ness City, Kansas

Blum #1

Job Ticket: 01171

DST#: 3

ATTN: Wyatt Urban

Test Start: 2017.06.02 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3371.00 ft	Diameter: 3.80 inches	Volume: 47.29 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	63000.00 lb
			<u>Total Volume: 47.29 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3360.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.74 ft				
Tool Length:	78.74 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3345.00	
Hydraulic tool	5.00			3350.00	
Top Packer	5.00			3355.00	
Packer	5.00			3360.00	20.00 Bottom Of Top Packer
Anchor	2.00			3362.00	
Change Over Sub	0.75			3362.75	
Drill Pipe	29.24			3391.99	
Change Over Sub	0.75			3392.74	
Anchor	21.00			3413.74	
Recorder	0.00	9139	Inside	3413.74	
Recorder	0.00	91716	Outside	3413.74	
Bullnose	5.00			3418.74	58.74 Anchor Tool

Total Tool Length: 78.74



DRILL STEM TEST REPORT

FLUID SUMMARY

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542`
Ness City, Kansas

Blum #1

Job Ticket: 01171

DST#: 3

ATTN: Wyatt Urban

Test Start: 2017.06.02 @ 00:00:00

Mud and Cushion Information

Mud Type:		Cushion Type:		Oil API:	deg API
Mud Weight:	lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	sec/qt	Cushion Volume:	bbbl		
Water Loss:	in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Clean Oil	0.070
50.00	Oil cut mud	0.701
0.00	10%oil 10% Water 80%Mud	0.000
60.00	Oil cut w atery mud	0.842
60.00	5%Oil 40%w ater 55% Mud	0.842
60.00	slightly oil cut w atery mud	0.842
0.00	less than 1%Oil 30%Waterf 70%Mud	0.000
0.00	chloridess 16,000	0.000

Total Length: 235.00 ft Total Volume: 3.297 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 9139

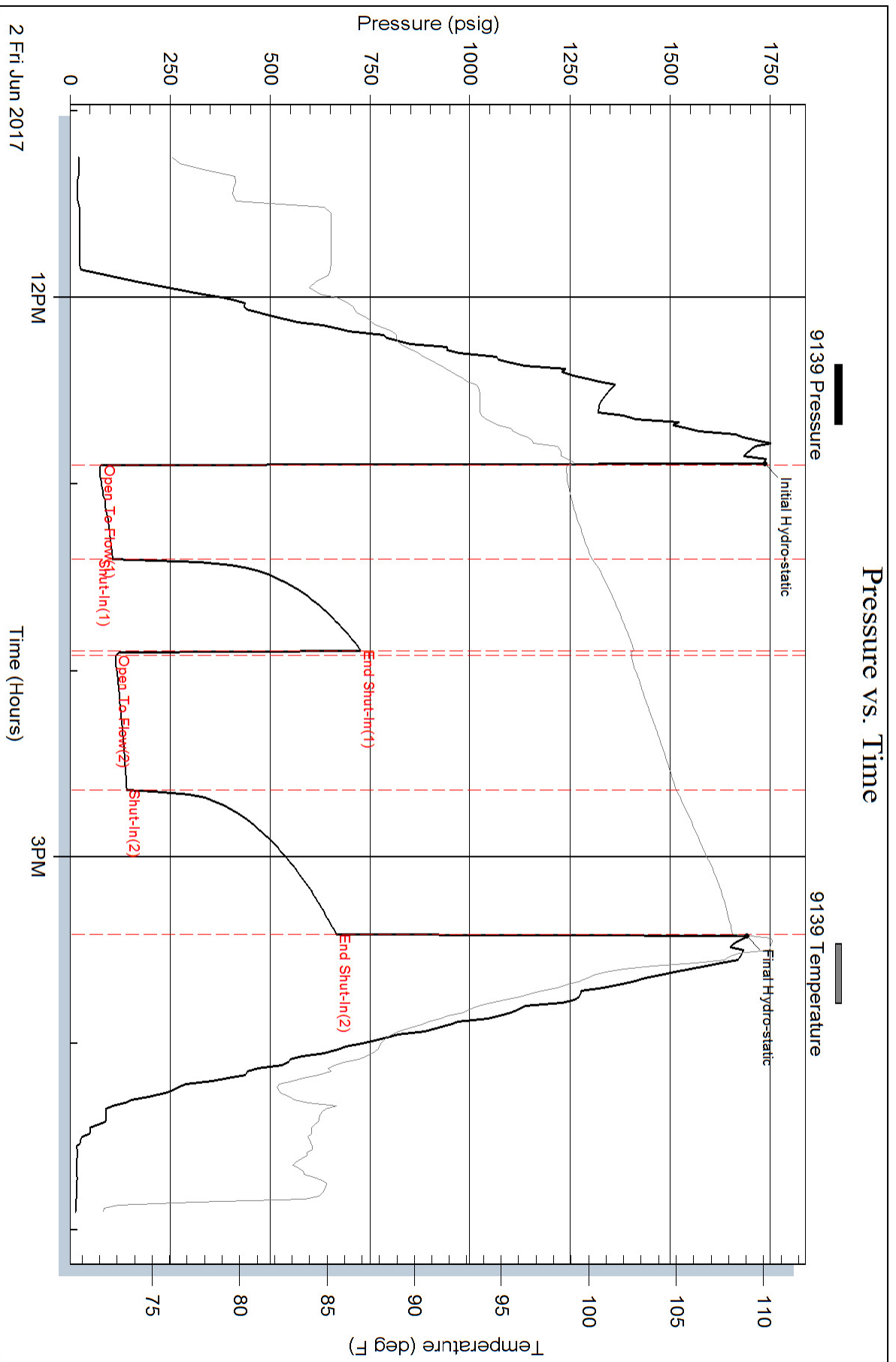
Inside

R F Hembree Oil LLC

Blum #1

DST Test Number: 3

Pressure vs. Time



Eagle Testers

Ref. No: 01171

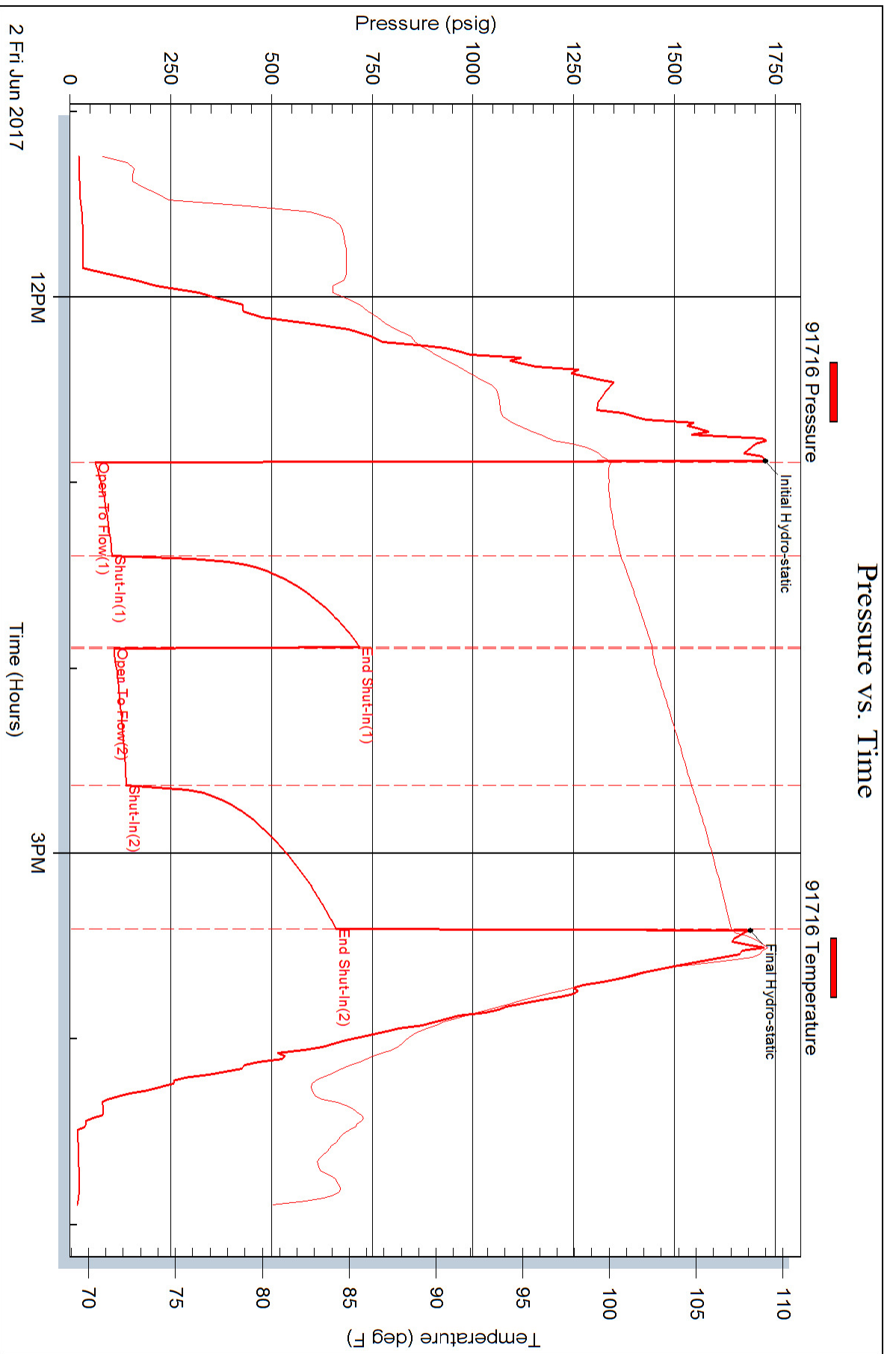
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Serial #: 91716

Outside R F Hembree Oil LLC

Blum #1

DST Test Number: 3



Eagle Testers

Ref. No: 01171

Printed: 2017.06.02 @ 17:13:47



P. O. Box 466
 Ness City, KS 67560
 Off: 785-798-2300



Invoice

DATE	INVOICE #
5/27/2017	30379

BILL TO
Robert F. Hembree PO Box 542 Ness City, KS 67560-0542

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Blum	Barton	Pickrell Rig #10	Oil	Development	Cement Surface ...	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	5.00	200.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)				1	Job	800.00	800.00
325	Standard Cement				210	Sacks	12.25	2,572.50T
278	Calcium Chloride				12	Sack(s)	40.00	480.00T
279	Bentonite Gel				4	Sack(s)	25.00	100.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
581D	Service Charge Cement				210	Sacks	1.50	315.00
583D	Drayage				412.8	Ton Miles	0.75	309.60
580	Additional Hours (If Circulate More Than 1 Hour)				1	Hours	200.00	200.00T
	Subtotal							5,061.10
	Sales Tax Barton County						7.50%	257.74
We Appreciate Your Business!							Total	\$5,318.84

June #1215



Services, Inc.

TICKET 30879

CHARGE TO: Robert F. Venable
 ADDRESS:
 CITY, STATE, ZIP CODE:

PAGE 1 OF 1

SERVICE LOCATIONS: New City, KS
 WELL/PROJECT NO: 41
 LEASE: Blum
 COUNTY/PARISH: Barton
 RIG NAME/NO: 10
 STATE: KS
 CITY: Great Bend
 DATE: 27 May 17
 OWNER:
 ORDER NO:
 TICKET TYPE: SERVICE SALES
 CONTRACTOR:
 WELL TYPE: Oil
 WELL CATEGORY: Development
 JOB PURPOSE: cement surface pipe
 WELLS PERMIT NO.:
 WELL LOCATION: 3-19-13

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY	UM	QTY	UM	UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE	40	mi			5.00	200.00	
576S		1			Pump Charge	1	ea			800.00	800.00	
325		1			Standard Cement	210	sk			12.25	2572.50	
278		1			Coleman Chloride	500	lb		12	sk	480.00	480.00
279		1			Bentonite gel	4	sk			25.00	100.00	
290		1			D-Air	210	sk			42.00	8700.00	
581		1			Service charge	1	sk			1.50	315.00	
583		1			Damage	200	lb		412.5	7M	309.60	
580		1			Additional Hours	1	hr			200.00	200.00	

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY**, and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: _____ TIME SIGNED: _____
 A.M. P.M.
 X

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				5061	110
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					
				750	174
				5318	184

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR: _____ APPROVAL: _____
 Thank You!

SWIFT Services, Inc.

DATE 27 MAY 17 PAGE NO. 1

JOB LOG

CUSTOMER Robert F Hewber WELL NO. 41 LEASE Blom JOB TYPE Cement surface pipe TICKET NO. 30379

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	

								210 sk Standard cement w/ 2% gel 3% CC 8 5/8" x 20# 320' 8, 7s
	0215							on loc TRK 114
	0415							start 8 5/8" x 20# casing in well
	0620							circulate well
	0628	4	52			150		Mix STD 2% 3% cement 210 sk @ 14.7 PPG
	0642	4				150		Displace cement
								→ Cement to surface ←
	0700	4	19			250		Kickout displacement shot in 8 5/8"
	0705							wash truck
	0725							Rack up swift 8 5/8" iron on location
	0735							job complete

210sk mixed
30sk to pt

Thanks
Blair, Flint & Kirby

3613A Y Road
Madison, KS 66860
Ph: 620-437-2661
Fax: 620-437-2881



HURRICANE SERVICES INC

104 Prairie Plaza Parkway
Garnett, KS 66032
Ph: 785-448-3100
Fax: 785-448-3102

FED ID# 48-1214033
MC ID# 165290

Remit to: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202

Customer:
RF HEMBREE OIL LLC
PO BOX 542
NESS CITY, KS 67560

Invoice Date: 6/3/2017
Invoice #: 0031336
Lease Name: BLUM
Well #: 1
County: BARTON

Date/Description	HRS/QTY	Rate	Total
Ticket 100748 PTA	0.000	0.000	0.00
Heavy Eq mileage one way	120.000	2.438	292.50
Light Eq mileage one way	60.000	1.125	67.50
Ton Mileage one way #242	613.000	0.975	597.68
60/40 Pozmix cement	220.000	9.638	2,120.25
Bentonite Gel	757.000	0.225	170.33
Pheno-Seal	55.000	1.275	70.13
Wooded 8 5/8 Plug	1.000	81.000	81.00
Cementer #230	1.000	712.500	712.50

Net Invoice 4,111.89
Sales Tax: (7.50%) 165.09
Total 4,276.98

All invoices are due upon receipt. Interest at the rate of 1 1/2% per month may be charged on all invoices not paid within 30 days from date of invoice.

WE APPRECIATE YOUR BUSINESS!

