DRILL STEM TEST REPORT

Culbreath Oil & Gas Company Inc.

3501 S. Yale Ave.
Tulsa, OK 74135

ATTN: Richard Bell

5-15S-34W Logan, KS

Sowers #1-5

Job Ticket: 65616 **DST#: 2**

Test Start: 2016.10.07 @ 18:34:15

GENERAL INFORMATION:

Formation: **LKC J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:09:30
Time Test Ended: 02:03:15

Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 81

Interval: 4023.00 ft (KB) To 4064.00 ft (KB) (TVD)
Total Depth: 4064.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

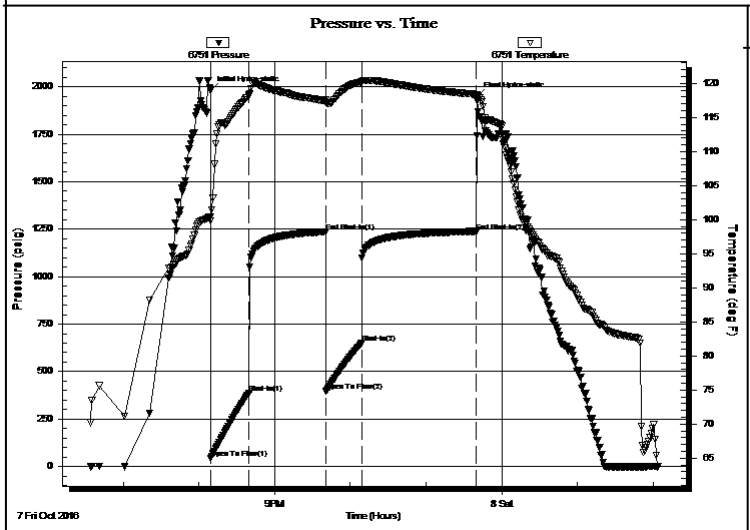
Reference Elevations: 2922.00 ft (KB)
2912.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6751 **Outside**

Press@RunDepth: 649.60 psig @ 4025.00 ft (KB)
Start Date: 2016.10.07 End Date: 2016.10.08
Start Time: 18:34:15 End Time: 02:03:15

Capacity: 8000.00 psig
Last Calib.: 2016.10.08
Time On Btm: 2016.10.07 @ 20:09:15
Time Off Btm: 2016.10.07 @ 23:40:30

TEST COMMENT: IF:BOB in 4 min.
IS:No return blow
FF:BOB in 4 min.
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1980.01	100.38	Initial Hydro-static
1	41.78	99.81	Open To Flow (1)
31	388.02	118.28	Shut-In(1)
92	1234.94	117.52	End Shut-In(1)
92	396.49	117.21	Open To Flow (2)
120	649.60	120.18	Shut-In(2)
211	1238.26	118.37	End Shut-In(2)
212	1946.16	117.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
496.00	sw cm 20%sw 80%m	7.03
992.00	sw 100%sw	14.06

* Recovery from multiple tests

Gas Rates

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

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Unit No: 81

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Total Depth: 4064.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

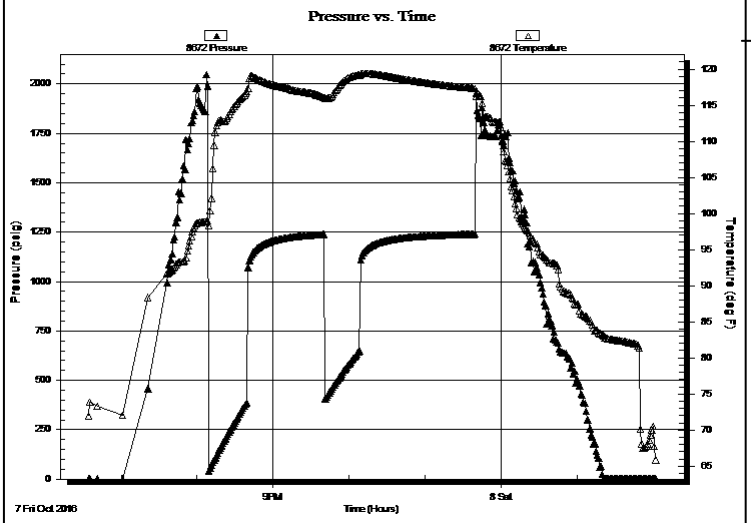
Reference Elevations: 2922.00 ft (KB)
2912.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8672 **Inside**

Press@RunDepth: psig @ 4025.00 ft (KB)
Start Date: 2016.10.07 End Date: 2016.10.08
Start Time: 18:34:15 End Time: 02:03:00

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

TEST COMMENT: IF:BOB in 4 min.
IS:No return blow
FF:BOB in 4 min.
FS:No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
496.00	sw cm 20%sw 80%m	7.03
992.00	sw 100%sw	14.06

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Culbreath Oil & Gas Company Inc.

3501 S. Yale Ave.
Tulsa, OK 74135

ATTN: Richard Bell

5-15S-34W Logan, KS

Sowers #1-5

Job Ticket: 65616 **DST#: 2**

Test Start: 2016.10.07 @ 18:34:15

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	17000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.77 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	20000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

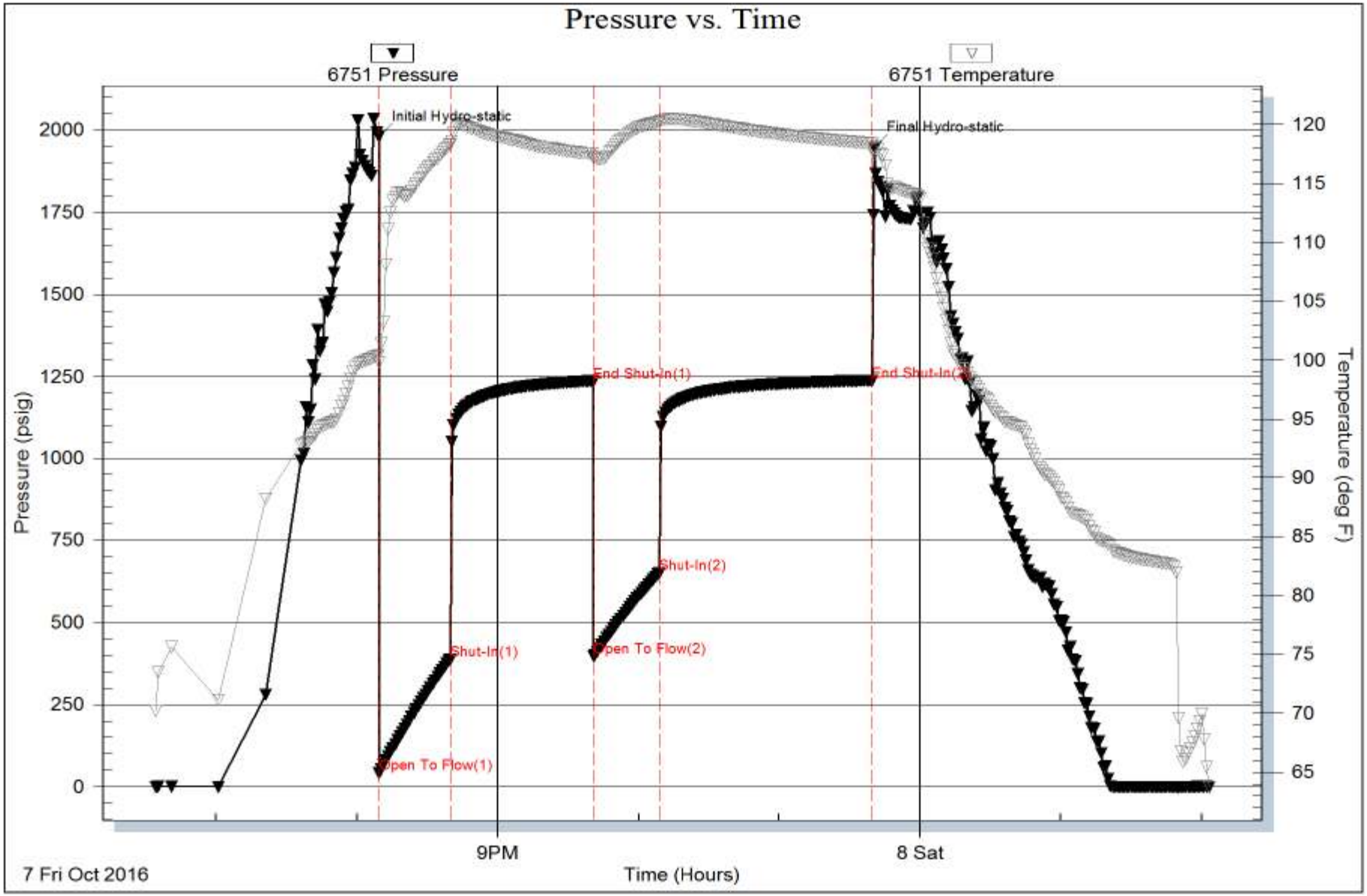
Length ft	Description	Volume bbl
496.00	sw cm 20%sw 80%m	7.031
992.00	sw 100%sw	14.062

Total Length: 1488.00 ft Total Volume: 21.093 bbl

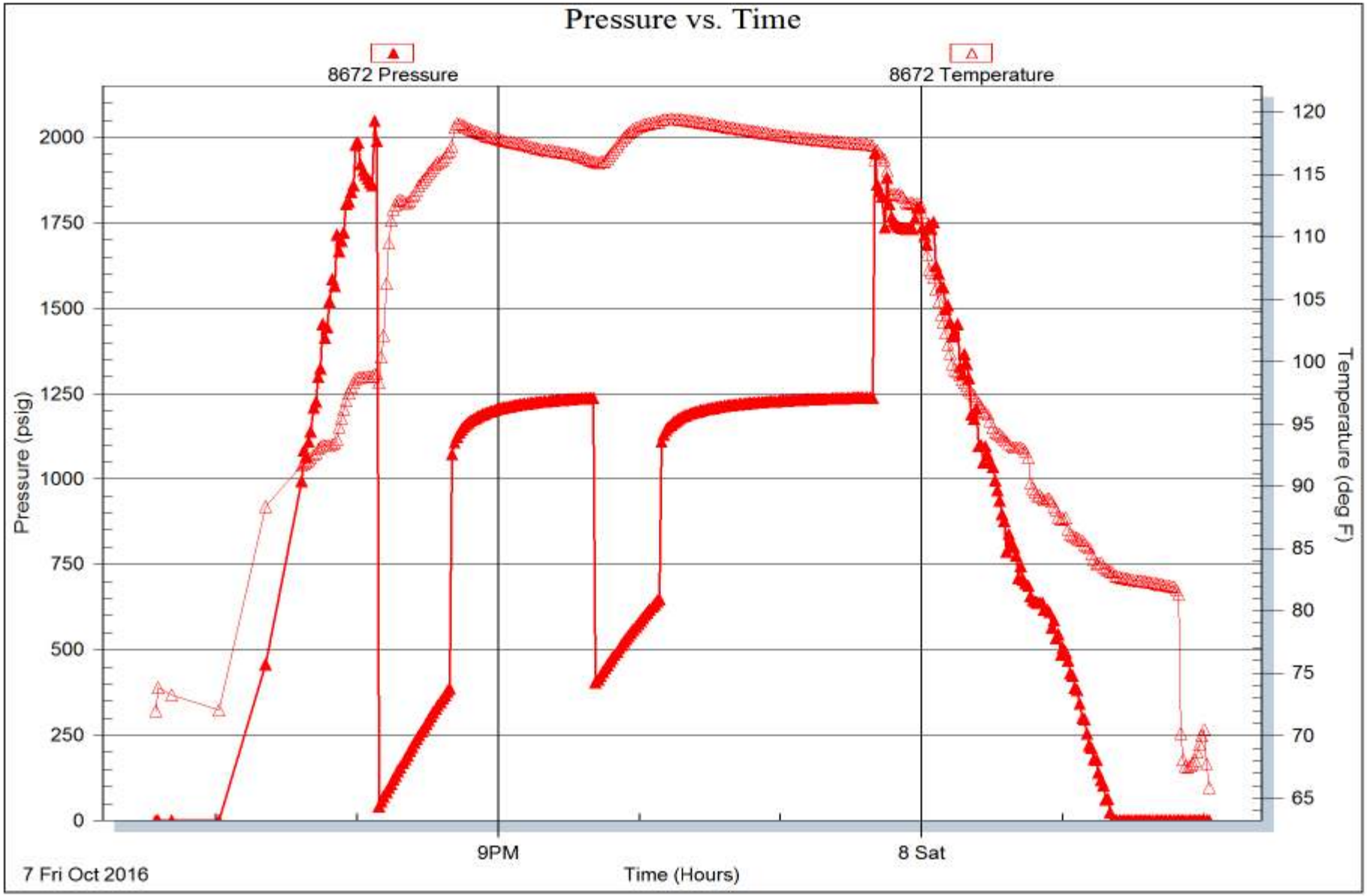
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW= .558@49.6= 17,000 ppm


Pressure vs. Time
6751 Pressure
6751 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
2000
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
85
80
75
70
65
9PM
8 Sat
7 Fri Oct 2016
Time (Hours)

Serial #: 8672 **Inside** Culbreath Oil & Gas Company Inc. Sow ers #1-5 DST Test Number: 2



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