



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Berexco LLC  
 2020 N. Bramblewood  
 Wichita, KS, 67206  
 ATTN: Bryan Bynog

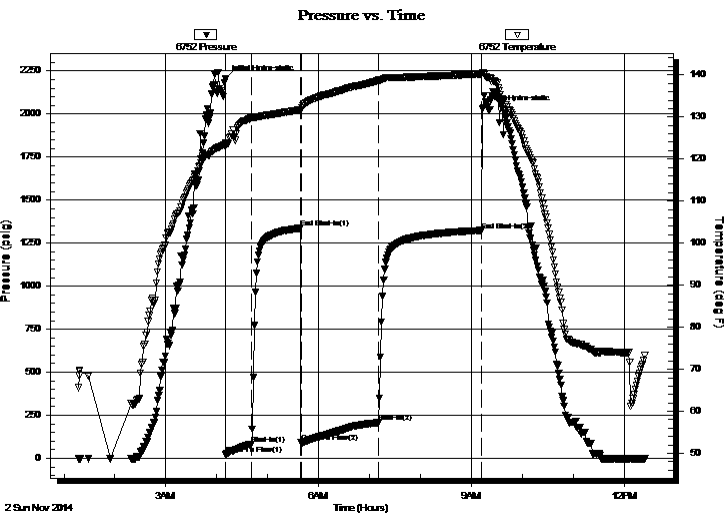
**32-1s-36w**  
**Moser #4-32**  
 Job Ticket: 60037 **DST#: 5**  
 Test Start: 2014.11.02 @ 01:17:00

## GENERAL INFORMATION:

Formation: **LKC " D - E "**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 04:10:30 Tester: Ryan Nichols  
 Time Test Ended: 12:24:15 Unit No: 78  
 Interval: **4330.00 ft (KB) To 4420.00 ft (KB) (TVD)** Reference Elevations: 3254.00 ft (KB)  
 Total Depth: 4420.00 ft (KB) (TVD) 3243.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

**Serial #: 6752 Inside**  
 Press @ Run Depth: 207.89 psig @ 4331.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.11.02 End Date: 2014.11.02 Last Calib.: 2014.11.02  
 Start Time: 01:17:05 End Time: 12:24:15 Time On Btm: 2014.11.02 @ 04:09:45  
 Time Off Btm: 2014.11.02 @ 09:12:45

**TEST COMMENT:** 30 IF - 3/4" blow built to 6"  
 60 ISI - No return  
 90 FF- Surface blow started @ 5 mins built to BoB @ 67 mins  
 120 FSI - Surface blow started @ 25 mins died @ 32 mins



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2203.41	123.55	Initial Hydro-static
1	21.27	123.24	Open To Flow (1)
31	82.90	129.84	Shut-In(1)
89	1337.34	131.70	End Shut-In(1)
90	90.18	131.71	Open To Flow (2)
181	207.89	138.78	Shut-In(2)
302	1324.13	140.20	End Shut-In(2)
303	2028.66	140.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
115.00	OWCM - 20%o - 10%W - 70%M	0.57
172.00	OWCM - 20%o - 30%W - 50%M	0.85
108.00	WOCM - 10%W - 20%o - 70%M	0.53
45.00	GO - 5%G - 95%o	0.50

\* Recovery from multiple tests

## Gas Rates

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



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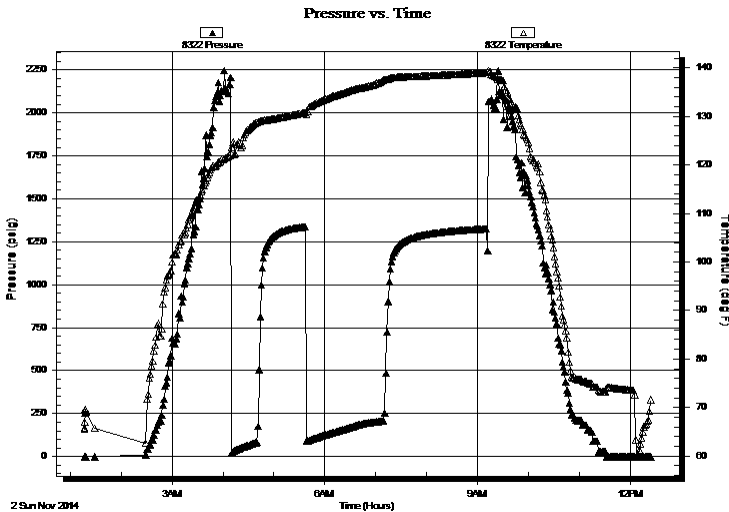
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Total Depth: 4420.00 ft (KB) (TVD) 3243.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

**Serial #: 8322 Outside**  
Press @ Run Depth: psig @ 4331.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.11.02 End Date: 2014.11.02 Last Calib.: 2014.11.02  
Start Time: 01:17:01 End Time: 12:24:00 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 30 IF - 3/4" blow built to 6"  
60 ISI - No return  
90 FF- Surface blow started @ 5 mins built to BoB @ 67 mins  
120 FSI - Surface blow started @ 25 mins died @ 32 mins



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
115.00	OWCM - 20%o - 10%W - 70%M	0.57
172.00	OWCM - 20%o - 30%W - 50%M	0.85
108.00	WOCM - 10%W - 20%o - 70%M	0.53
45.00	GO - 5%G - 95%o	0.50

\* Recovery from multiple tests

## Gas Rates

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



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**FLUID SUMMARY**

Berexco LLC

**32-1s-36w**

2020 N. Bramblewood  
Wichita, KS, 67206

**Moser #4-32**

Job Ticket: 60037

**DST#: 5**

ATTN: Bryan Bynog

Test Start: 2014.11.02 @ 01:17:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
115.00	OWCM - 20%o - 10%W - 70%M	0.566
172.00	OWCM - 20%o - 30%W - 50%M	0.846
108.00	WOCM - 10%W - 20%o - 70%M	0.531
45.00	GO - 5%G - 95%o	0.504

Total Length: 440.00 ft      Total Volume: 2.447 bbl

Num Fluid Samples: 0

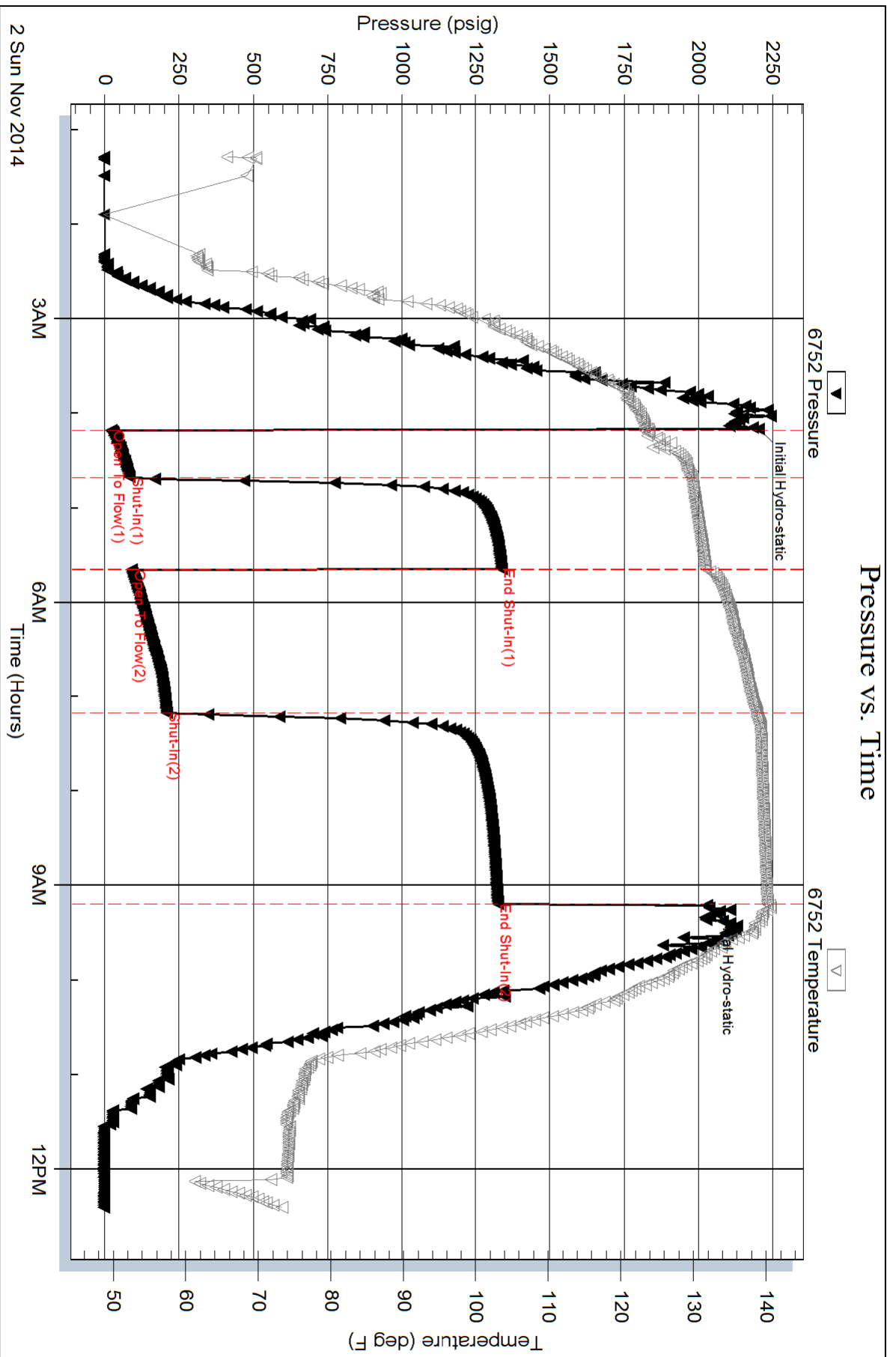
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 36 @ 70 DEG F = 35 COR 60 DEG F



Serial #: 8322

Outside Berexco LLC

Moser #4-32

DST Test Number: 5

