



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco, LLC
 2020 N. Bramblewood
 Wichita, KS 67206
 ATTN: Jerry A. Smith

9-11S-15W Russell, KS

Lebow #10

Job Ticket: 65512

DST#: 5

Test Start: 2019.01.27 @ 05:11:29

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:44:05
 Time Test Ended: 11:36:05
 Interval: **3412.00 ft (KB) To 3460.00 ft (KB) (TVD)**
 Total Depth: 3460.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 1942.00 ft (KB)
 1935.00 ft (CF)
 KB to GR/CF: 7.00 ft

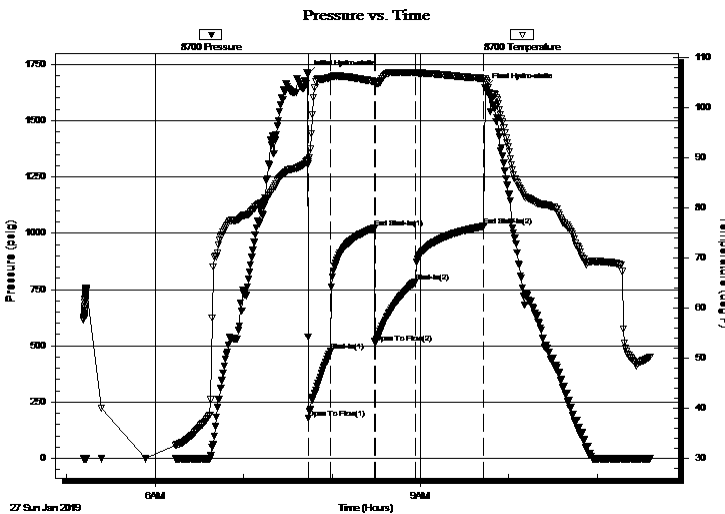
Serial #: 8700

Outside

Press@RunDepth: 782.66 psig @ 3413.00 ft (KB)
 Start Date: 2019.01.27 End Date: 2019.01.27
 Start Time: 05:11:30 End Time: 11:36:05
 Capacity: 8000.00 psig
 Last Calib.: 2019.01.27
 Time On Btm: 2019.01.27 @ 07:43:35
 Time Off Btm: 2019.01.27 @ 09:43:50

TEST COMMENT: 15- IF- BOB 30 secs. Built to 137.40"
 30- IS- No blow
 30- FF- BOB 1min. Built to 151.89"
 45- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.76	89.56	Initial Hydro-static
1	178.40	89.31	Open To Flow (1)
16	477.63	106.10	Shut-In(1)
45	1021.33	105.30	End Shut-In(1)
46	514.53	105.00	Open To Flow (2)
73	782.66	106.99	Shut-In(2)
120	1030.86	105.90	End Shut-In(2)
121	1645.20	105.78	Final Hydro-static

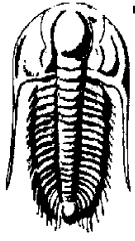
Recovery

Length (ft)	Description	Volume (bbl)
1152.00	OCMW, 5%O 10%M 85%W	16.33
384.00	WOCM, 20%W 5%O 75%M	5.44
160.00	M	2.27

Gas Rates

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

* Recovery from multiple tests



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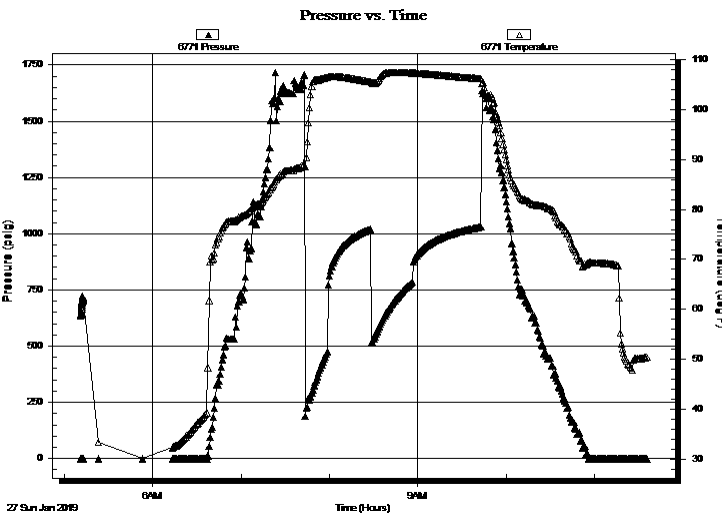
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 Unit No: 73
 Reference Elevations: 1942.00 ft (KB)
 1935.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6771 Inside

Press@RunDepth: psig @ 3413.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.01.27 End Date: 2019.01.27 Last Calib.: 2019.01.27
 Start Time: 05:11:07 End Time: 11:35:42 Time On Btm:
 Time Off Btm:

TEST COMMENT: 15- IF- BOB 30 secs. Built to 137.40"
 30- IS- No blow
 30- FF- BOB 1min. Built to 151.89"
 45- FS- No blow



PRESSURE SUMMARY

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

Recovery

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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

15000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 16000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1152.00	OCMW, 5%O 10%M 85%W	16.330
384.00	WOCM, 20%W 5%O 75%M	5.443
160.00	M	2.268

Total Length: 1696.00 ft Total Volume: 24.041 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .61@50deg

