



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita, KS 67206
ATTN: Ed Grieves

22-30s-33w Haskell, KS

Risa 1-22

Job Ticket: 66101

DST#: 5

Test Start: 2019.11.23 @ 03:40:00

GENERAL INFORMATION:

Formation: **Atoka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:03:20
 Time Test Ended: 13:55:10
 Interval: **5213.00 ft (KB) To 5224.00 ft (KB) (TVD)**
 Total Depth: 5224.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 82
 Reference Elevations: ft (KB)
 ft (CF)
 KB to GR/CF: ft

Serial #: 8734

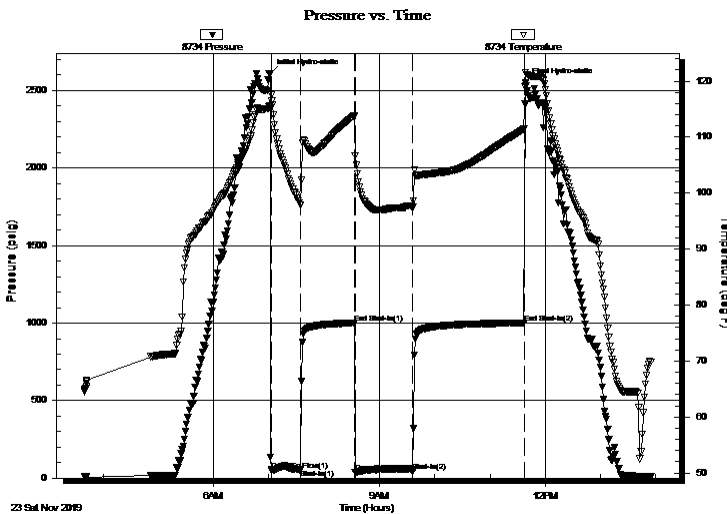
Outside

Press@RunDepth: 44.14 psig @ 5214.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.23 End Date: 2019.11.23 Last Calib.: 2019.11.23
 Start Time: 03:40:01 End Time: 13:55:10 Time On Btm: 2019.11.23 @ 07:01:10
 Time Off Btm: 2019.11.23 @ 11:38:50

TEST COMMENT: 30-IF-B.O.B 15 secs G.T.S @ 15 mins
 60-ISI-S.blow back @ 2 mins built to 1 1/4"
 60-FF-B.O.B ASAO built to 27 1/2 P.S.I. on 3/8" choke
 120-FS-S.blow back built to 1/2"

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2611.10	115.66	Initial Hydro-static
3	50.95	116.57	Open To Flow (1)
34	53.47	97.83	Shut-In(1)
92	999.16	113.79	End Shut-In(1)
93	36.91	106.70	Open To Flow (2)
156	44.14	97.48	Shut-In(2)
276	1000.83	111.46	End Shut-In(2)
278	2548.81	121.58	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
25.00	100%Mud	0.35
0.00	5167' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	30.00	299.51
Last Gas Rate	0.38	27.21	152.43
Max. Gas Rate	0.50	30.00	299.51

* Recovery from multiple tests



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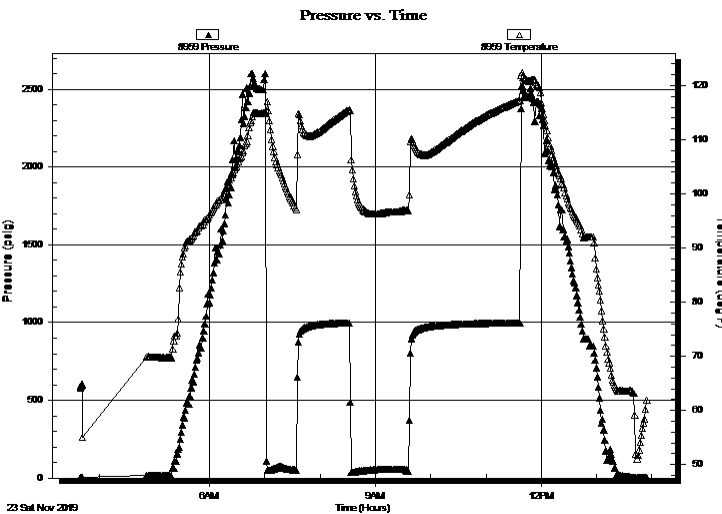
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 Tester: Martine Salinas
 Time Test Ended: 13:55:10
 Unit No: 82
 Interval: **5213.00 ft (KB) To 5224.00 ft (KB) (TVD)**
 Reference Elevations: ft (KB)
 Total Depth: 5224.00 ft (KB) (TVD)
 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: ft

Serial #: 8959 Inside
 Press@RunDepth: psig @ 5214.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.23 End Date: 2019.11.23 Last Calib.: 2019.11.23
 Start Time: 03:40:01 End Time: 13:55:10 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-B.O.B 15 secs G.T.S @ 15 mins
 60-ISI-S.blow back @ 2 mins built to 1 1/4"
 60-FF-B.O.B ASAO built to 27 1/2 P.S.I. on 3/8" choke
 120-FSI-S.blow back built to 1/2"



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
25.00	100%Mud	0.35
0.00	5167' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	30.00	299.51
Last Gas Rate	0.38	27.21	152.43
Max. Gas Rate	0.50	30.00	299.51

* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 66101

DST#: 5

ATTN: Ed Grieves

Test Start: 2019.11.23 @ 03:40:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	100%Mud	0.351
0.00	5167' GIP	0.000

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

Berexco LLC

22-30s-33w Haskell, KS

2020 N Bramblewood
Wichita, KS 67206

Risa 1-22

Job Ticket: 66101

DST#: 5

ATTN: Ed Grieves

Test Start: 2019.11.23 @ 03:40:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	17	0.50	30.00	299.51
1	20	0.50	24.16	260.11
1	25	0.50	18.38	221.12
1	30	0.50	15.53	201.90
2	5	0.38	11.77	95.87
2	10	0.38	18.69	121.22
2	20	0.38	24.83	143.71
2	30	0.38	27.13	152.13
2	40	0.38	27.48	153.42
2	50	0.38	27.38	153.05
2	60	0.38	27.21	152.43

