



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Castle Resources

16/2s/34w Rawlins KS

PO Box 583
Russell, KS 675665

Worley #1

Job Ticket: 63448

DST#: 1

ATTN: Jerry Green

Test Start: 2018.01.21 @ 13:07:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:21:15

Time Test Ended: 20:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Interval: 4003.00 ft (KB) To 4060.00 ft (KB) (TVD)

Total Depth: 4060.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3133.00 ft (KB)

3128.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8017 Outside

Press@RunDepth: 17.67 psig @ 4004.00 ft (KB)

Start Date: 2018.01.21

End Date:

2018.01.21

Start Time: 13:07:05

End Time:

20:08:29

Capacity: 8000.00 psig

Last Calib.: 2018.01.21

Time On Btm: 2018.01.21 @ 15:21:00

Time Off Btm: 2018.01.21 @ 18:09:00

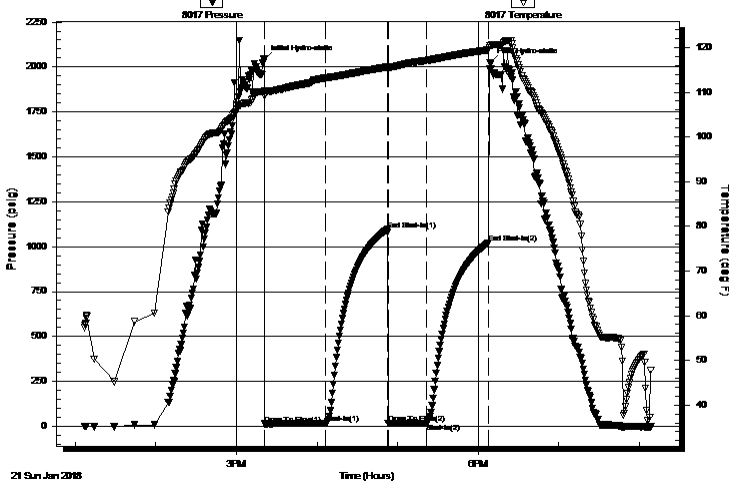
TEST COMMENT: 45 - IF: Blow built to 2" (Diesel in bucket)

45 - IS: No blow back

30 - FF: Blow built to 1/4"

45 - FS: No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2041.35	110.27	Initial Hydro-static
1	13.42	109.23	Open To Flow (1)
46	15.43	113.22	Shut-In(1)
92	1095.04	115.65	End Shut-In(1)
92	16.90	115.25	Open To Flow (2)
121	17.67	117.10	Shut-In(2)
167	1022.74	119.48	End Shut-In(2)
168	2024.09	120.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.21

Gas Rates

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



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FLUID SUMMARY

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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: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
15.00	Mud 100%	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

