

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Discovery Natural Resources

21-22s-46w Prower county

460 17th St #900
Denver Co , 80202

Wootten 2a

Job Ticket: 61507

DST#: 2

ATTN: Gary Duke , Jim

Test Start: 2015.01.08 @ 19:23:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:15:00

Time Test Ended: 01:28:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Harris

Unit No: 58

Interval: 3090.00 ft (KB) To 31467.0 ft (KB) (TVD)

Total Depth: 3146.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3693.00 ft (KB)

3682.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6625 Outside

Press @ Run Depth: 102.21 psig @ 3142.00 ft (KB)

Start Date: 2015.01.08

End Date: 2015.01.09

Start Time: 19:23:01

End Time: 01:28:30

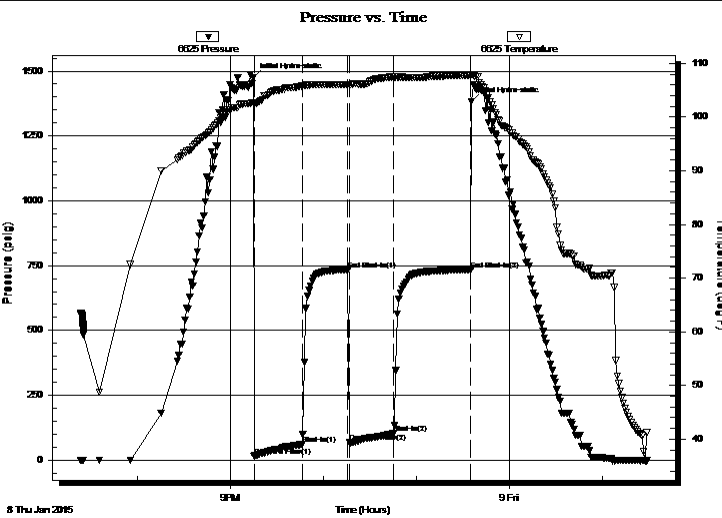
Capacity: 8000.00 psig

Last Calib.: 2015.01.09

Time On Btm: 2015.01.08 @ 21:14:30

Time Off Btm: 2015.01.08 @ 23:35:30

TEST COMMENT: 30: Weak surface blow build to 1 3/4".
30: No Return.
30: Weak surface blow build to 1".
45: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1474.62	102.69	Initial Hydro-static
1	15.41	102.54	Open To Flow (1)
32	62.03	105.79	Shut-In(1)
61	734.45	106.09	End Shut-In(1)
62	67.40	106.07	Open To Flow (2)
91	102.21	107.49	Shut-In(2)
141	734.40	107.74	End Shut-In(2)
141	1381.82	107.95	Final Hydro-static

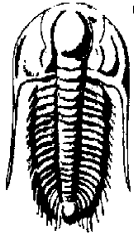
Recovery

Length (ft)	Description	Volume (bbl)
188.00	mcw 10m 90w	0.92

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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ATTN: Gary Doke , Jim

Test Start: 2015.01.08 @ 19:23:00

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:

20000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
188.00	mcw 10m 90w	0.925

Total Length: 188.00 ft Total Volume: 0.925 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW .7 @ 29 F = 20000 chlorides

