



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Discovery Natural Resources

21-22s-46w Prower county

460 17th St #900
Denver Co , 80202

Wootten #2-21-2246

Job Ticket: 61509

DST#: 4

ATTN: Gary Doke , Jim musg

Test Start: 2015.01.12 @ 08:55:00

GENERAL INFORMATION:

Formation: **Lower Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:00:30

Time Test Ended: 15:08:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Harris

Unit No: 58

Interval: 4240.00 ft (KB) To 4294.00 ft (KB) (TVD)

Reference Elevations: 3693.00 ft (KB)

Total Depth: 4294.00 ft (KB) (TVD)

3682.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 6625 Outside

Press@RunDepth: 24.84 psig @ 4290.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.12

End Date:

2015.01.12

Last Calib.:

2015.01.12

Start Time: 08:55:01

End Time:

15:08:30

Time On Btm:

2015.01.12 @ 11:00:00

Time Off Btm:

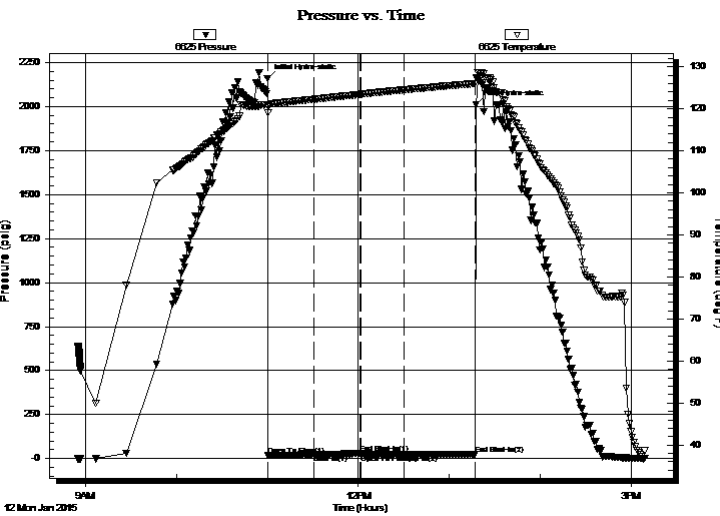
2015.01.12 @ 13:17:30

TEST COMMENT: 30: Weak surface blow build to 1 1/4".

30: No Return.

30: No Blow .

45: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2159.83	120.71	Initial Hydro-static
1	20.68	119.06	Open To Flow (1)
31	22.47	122.26	Shut-In(1)
61	29.61	123.42	End Shut-In(1)
62	24.43	123.46	Open To Flow (2)
90	24.84	124.51	Shut-In(2)
137	25.82	126.03	End Shut-In(2)
138	2010.50	127.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w ith sulfur odor	0.02

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Test Start: 2015.01.12 @ 08:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w ith sulfur odor	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

