

**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Discovery Natural Resources

**21-22s-46w Prower county**

460 17th St #900  
Denver Co , 80202

**Wooten 2a**

Job Ticket: 61510

**DST#: 5**

ATTN: Gary Doke , Jim musg

Test Start: 2015.01.13 @ 12:48:00

## GENERAL INFORMATION:

Formation: **St. Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:59:00

Time Test Ended: 20:31:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Harris

Unit No: 58

**Interval: 4380.00 ft (KB) To 4463.00 ft (KB) (TVD)**

Reference Elevations: 3693.00 ft (KB)

Total Depth: 4463.00 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 @ Run Depth: 560.93 psig @ 4459.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.13

End Date:

2015.01.13

Last Calib.:

2015.01.13

Start Time: 12:48:01

End Time:

20:31:00

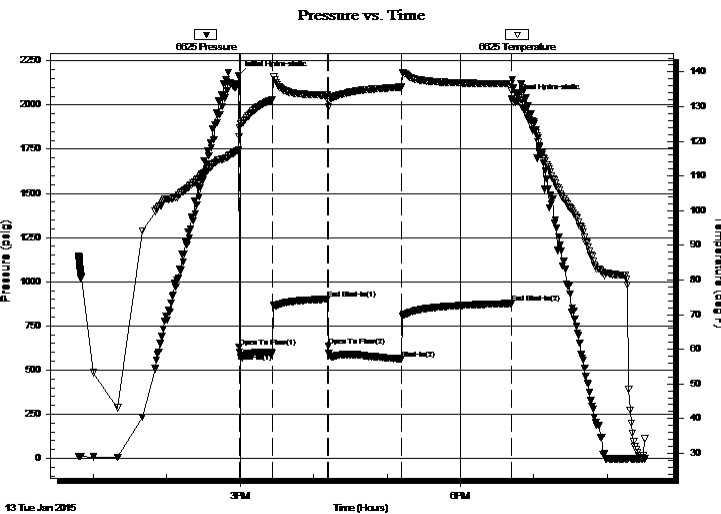
Time On Btm:

2015.01.13 @ 14:58:30

Time Off Btm:

2015.01.13 @ 18:42:00

**TEST COMMENT:** 30: B.O.B at open.  
45: Bled off 25 mins. No Return.  
60: B.O.B at open.  
90: bled off 25 mins. No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.29	117.42	Initial Hydro-static
1	631.97	121.36	Open To Flow (1)
28	597.22	131.96	Shut-In(1)
73	901.93	133.28	End Shut-In(1)
74	635.87	129.85	Open To Flow (2)
133	560.93	135.61	Shut-In(2)
223	877.03	136.56	End Shut-In(2)
224	2034.66	134.62	Final Hydro-static

## Recovery

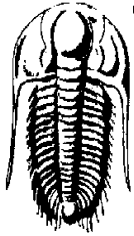
Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	120.00	2094.62
Last Gas Rate	0.75	190.00	3188.01
Max. Gas Rate	0.75	190.00	3188.01





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**GAS RATES**

Discovery Natural Resources

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**Wootten 2a**

Job Ticket: 61510

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Test Start: 2015.01.13 @ 12:48:00

### 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	5	0.75	120.00	2094.62
1	10	0.75	150.00	2563.22
1	15	0.75	165.00	2797.52
1	20	0.75	170.00	2875.61
1	25	0.75	175.00	2953.72
1	30	0.75	175.00	2953.72
2	5	0.75	150.00	2563.22
2	10	0.75	180.00	3031.81
2	15	0.75	190.00	3188.01
2	20	0.75	190.00	3188.01
2	30	0.75	190.00	3188.01
2	40	0.75	190.00	3188.01
2	50	0.75	190.00	3188.01
2	60	0.75	190.00	3188.01

