

**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sonoma Resources
PO Box 384
El Dorado, KS 67042
ATTN: Bill Stout

23-17S-1E Marion, KS
Unruh #1
Job Ticket: 59889 **DST#: 1**
Test Start: 2014.12.03 @ 13:25:29

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:23:59
Time Test Ended: 21:34:29
Interval: 2657.00 ft (KB) To 2712.00 ft (KB) (TVD)
Total Depth: 2712.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 1460.00 ft (KB)
1450.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6798

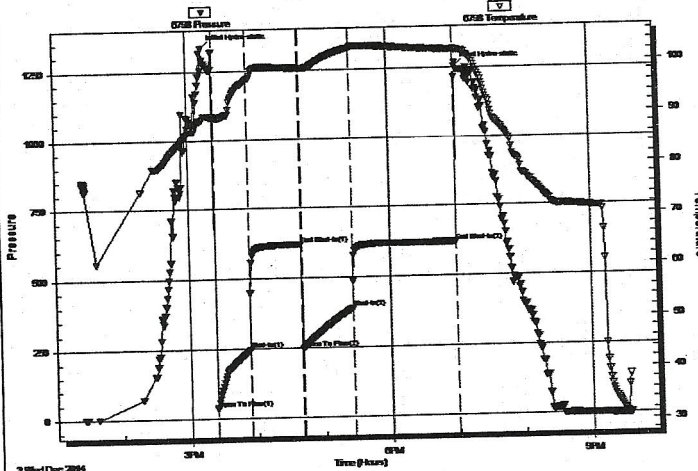
Inside

Press@RunDepth: 389.51 psig @ 2658.00 ft (KB)
Start Date: 2014.12.03 End Date: 2014.12.03
Start Time: 13:25:30 End Time: 21:34:29

Capacity: 8000.00 psig
Last Calib.: 2014.12.03
Time On Btm: 2014.12.03 @ 15:14:14
Time Off Btm: 2014.12.03 @ 19:00:59

TEST COMMENT: IF: Weak Blow, BOB in 18 minutes
IS: No Blow Back
FF: Weak Blow, BOB in 14 minutes
FSI: No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1332.08	89.34	Initial Hydro-static
10	36.28	89.43	Open To Flow (1)
40	246.06	96.82	Shut-In(1)
86	617.07	99.07	End Shut-In(1)
87	247.54	98.94	Open To Flow (2)
132	389.51	102.81	Shut-In(2)
226	617.71	102.19	End Shut-In(2)
227	1251.91	102.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
551.00	Water	5.01
252.00	MCW 30%M 70%W	3.53
10.00	SOSWCM 2%O 20%W 78%M	0.14

Gas Rates

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