



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

MTM Petroleum Inc.

23-30s-7w Kingman Ks

PO Box 391
Kingman Ks. 67068

Hufford #1-23

Job Ticket: 54247

DST#: 2

ATTN: Aaron Young

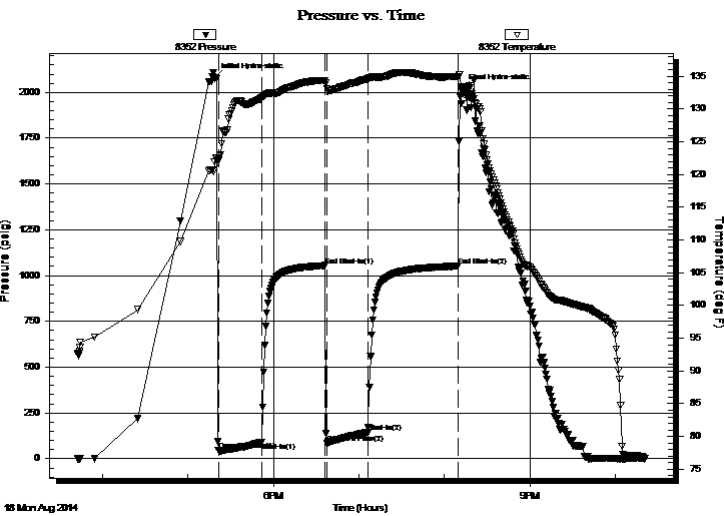
Test Start: 2014.08.18 @ 15:42:37

GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:21:22
 Time Test Ended: 22:20:52
 Interval: **4190.00 ft (KB) To 4202.00 ft (KB) (TVD)**
 Total Depth: 4202.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Gary Pevoteaux
 Unit No: 56
 Reference Elevations: 1488.00 ft (KB)
 1478.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8352 Outside
 Press@RunDepth: 142.51 psig @ 4191.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.18 End Date: 2014.08.18 Last Calib.: 2014.08.18
 Start Time: 15:42:42 End Time: 22:20:51 Time On Btm: 2014.08.18 @ 17:18:37
 Time Off Btm: 2014.08.18 @ 20:12:07

TEST COMMENT: IF: Strong blow. B.O.B. in 15 secs. GTS in 16 mins. (see gas flow report)
 IS: Weak blow. 1/4 - 3/4".
 FF: Strong blow. (see gas flow report)
 FS: Fair blow. 2 - 10".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2077.95	121.99	Initial Hydro-static
3	44.61	122.18	Open To Flow (1)
33	89.25	131.69	Shut-In(1)
78	1054.80	134.34	End Shut-In(1)
79	83.71	133.13	Open To Flow (2)
108	142.51	134.58	Shut-In(2)
171	1051.90	134.97	End Shut-In(2)
174	2022.97	132.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	SW / w o specs/Rw .055ohms@92deg	0.87
190.00	GM&WCO 30%g 15%m 17%w 38%o	2.67

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.50	31.57
Last Gas Rate	0.25	9.00	37.12
Max. Gas Rate	0.25	9.00	37.12



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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:

116000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
140.00	SW / w o specs/Rw .055ohms@92deg	0.871
190.00	GM&WCO 30%g 15%m 17%w 38%o	2.665

Total Length: 330.00 ft

Total Volume: 3.536 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



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GAS RATES

MTM Petroleum Inc.

23-30s-7w Kingman Ks

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Kingman Ks. 67068

Hufford #1-23

Job Ticket: 54247

DST#: 2

ATTN: Aaron Young

Test Start: 2014.08.18 @ 15:42:37

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	20	0.25	5.50	31.57
1	20	0.25	5.50	31.57
1	20	0.25	5.50	31.57
1	30	0.25	8.00	35.54
2	10	0.25	9.00	37.12

