



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mkol Oil LLC
1407 Washington Cir
Hays KS 67601
ATTN: Bob stolzle

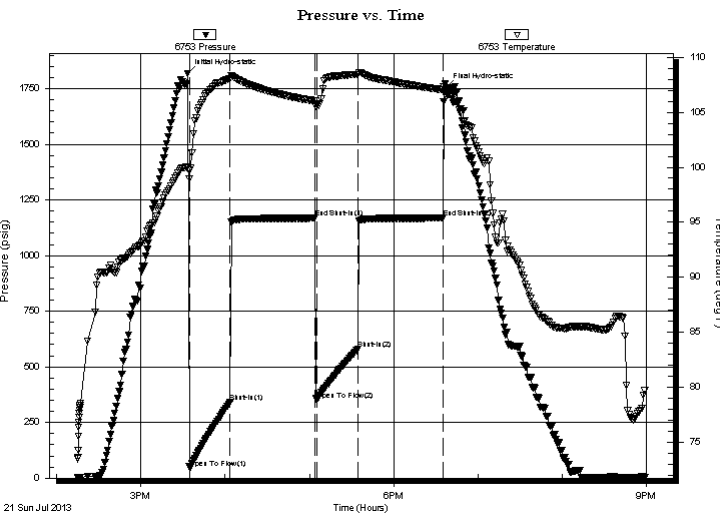
28-10-17, Rooks, KS
Brummitt #1-28
Job Ticket: 54293 **DST#: 3**
Test Start: 2013.07.21 @ 14:15:00

GENERAL INFORMATION:

Formation: **Arb**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:35:00
Time Test Ended: 20:59:00
Interval: **3616.00 ft (KB) To 3675.00 ft (KB) (TVD)**
Total Depth: 3675.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Brett Dickinson
Unit No: 59
Reference Elevations: 2067.00 ft (KB)
2060.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6753 Inside
Press @ Run Depth: 579.48 psig @ 3617.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.07.21 End Date: 2013.07.21 Last Calib.: 2013.07.21
Start Time: 14:15:05 End Time: 20:58:59 Time On Btm: 2013.07.21 @ 15:33:30
Time Off Btm: 2013.07.21 @ 18:37:30

TEST COMMENT: IF-BOB in 3 1/2min
ISI-No blow
FF-BOB in 5min
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1818.95	100.07	Initial Hydro-static
2	46.04	99.77	Open To Flow (1)
30	340.66	108.07	Shut-In(1)
91	1168.26	106.03	End Shut-In(1)
92	352.62	105.71	Open To Flow (2)
121	579.48	108.43	Shut-In(2)
182	1168.57	107.02	End Shut-In(2)
184	1753.11	106.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
210.00	WCM 45%W 55%M	2.95
120.00	MCW 60%W 40%M	1.68
120.00	MCW 75%W 25%M	1.68
180.00	SMCW 90%W 10%M	2.52
660.00	Water	9.26

* Recovery from multiple tests

Gas Rates

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



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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:	32000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
210.00	WCM 45%W 55%M	2.946
120.00	MCW 60%W 40%M	1.683
120.00	MCW 75%W 25%M	1.683
180.00	SMCW 90%W 10%M	2.525
660.00	Water	9.258

Total Length: 1290.00 ft Total Volume: 18.095 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

