



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations Inc.**

P.O.Box 33
Russell, KS 67665

ATTN: Allen Bangert

6-11s-20w Ellis KS

Richards # 13

Start Date: 2001.10.06 @ 10:51:17

End Date: 2001.10.06 @ 18:40:47

Job Ticket #: 15630 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



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TESTING, INC.**

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Richards # 13

P.O.Box 33
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Job Ticket: 15630

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Test Start: 2001.10.06 @ 10:51:17

GENERAL INFORMATION:

Formation: **L.Kc-H,I,J & K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:46:47

Time Test Ended: 18:40:47

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3440.00 ft (KB) To 3530.00 ft (KB) (TVD)**

Reference Elevations: 2044.00 ft (KB)

Total Depth: 3530.00 ft (KB) (TVD)

2039.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 3017

Inside

Press@RunDepth: 84.36 psig @ 3445.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.10.06 End Date: 2001.10.06

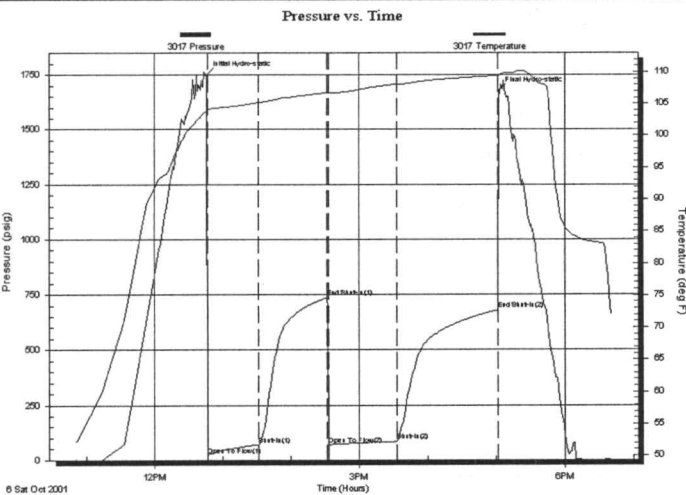
Last Calib.: 2001.10.06

Start Time: 10:51:18 End Time: 18:40:47

Time On Btm: 2001.10.06 @ 12:46:17

Time Off Btm: 2001.10.06 @ 17:02:17

TEST COMMENT: IF-Weak built to 5" in ISI-no blow
FF-Weak built to 7" in FSI-no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1748.51	103.78	Initial Hydro-static
1	19.40	103.77	Open To Flow (1)
46	70.59	105.16	Shut-In(1)
106	736.07	106.69	End Shut-In(1)
107	68.60	106.73	Open To Flow (2)
167	84.36	108.01	Shut-In(2)
256	680.03	109.41	End Shut-In(2)
256	1677.51	109.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	G-M-C-O 25%G-30%M-45% O	0.30
62.00	G-M-C-O 10%G-30%M-60% O	0.30
36.00	G-O-C-M 5%G-35%O 60% M	0.50

Gas Rates

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



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TOOL DIAGRAM

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Test Start: 2001.10.06 @ 10:51:17

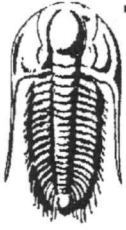
Tool Information

Drill Pipe:	Length: 3300.00 ft	Diameter: 3.80 inches	Volume: 46.29 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 46.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3440.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.02 ft			
Tool Length:	48.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3421.00	
S.I. Tool	5.00			3426.00	
HMV	5.00			3431.00	
Packer	4.00			3435.00	20.00 Bottom Of Top Packer
Packer	5.00			3440.00	
Stubb	1.00			3441.00	
Perforations	4.00			3445.00	
Recorder	0.01	3017	Inside	3445.01	
Perforations	20.00			3465.01	
Recorder	0.01	13308	Outside	3465.02	
Bullnose	3.00			3468.02	28.02 Bottom Packers & Anchor

Total Tool Length: 48.02



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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: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	G-M-C-O 25%G-30%M-45% O	0.305
62.00	G-M-C-O 10%G-30%M-60% O	0.305
36.00	G-O-C-M 5%G-35%O 60% M	0.505

Total Length: 160.00 ft Total Volume: 1.115 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

