



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

P.O.Box 33
Russell, KS 67665

ATTN: Allen Bangert

27-11s-19w Ellis KS

Vine "C" #2

Start Date: 2001.07.29 @ 21:17:01

End Date: 2001.07.30 @ 06:22:01

Job Ticket #: 14776 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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TESTING, INC**

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Mai Oil Operations

Vine "C" #2

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DST#: 1

Test Start: 2001.07.29 @ 21:17:01

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:51:31

Time Test Ended: 06:22:01

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3582.00 ft (KB) To 3606.00 ft (KB) (TVD)**

Total Depth: 3606.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2102.00 ft (KB)

2097.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 3017

Inside

Press@RunDepth: 1116.97 psig @ 3583.01 ft (KB)

Start Date: 2001.07.29

End Date:

2001.07.30

Start Time: 21:17:02

End Time:

06:22:01

Capacity: 7000.00 psig

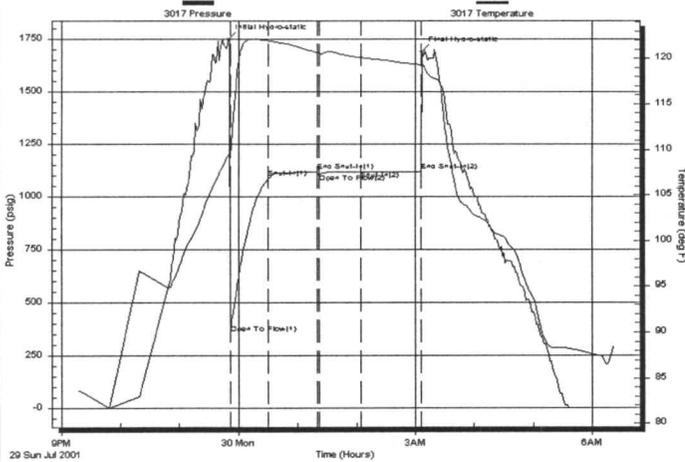
Last Calib.: 2001.01.30

Time On Btm: 2001.07.29 @ 23:49:31

Time Off Btm: 2001.07.30 @ 03:06:31

TEST COMMENT: IF-Strong B.O.B.in 1min. ISI no blow
FF- Good 7" in 18 min. Decreasing Dead in 30 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1748.34	109.36	Initial Hydro-static
2	349.60	109.73	Open To Flow (1)
41	1087.49	121.97	Shut-In(1)
91	1116.38	120.67	End Shut-In(1)
93	1106.03	120.58	Open To Flow (2)
135	1116.97	120.10	Shut-In(2)
197	1117.87	119.31	End Shut-In(2)
197	1688.98	119.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1680.00	Salt Water	21.87
180.00	O-C-W 20%oil 80%w ater	2.52
250.00	O-C-W 30%oil 70%w ater	3.51
370.00	Free Oil	5.19

Gas Rates

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

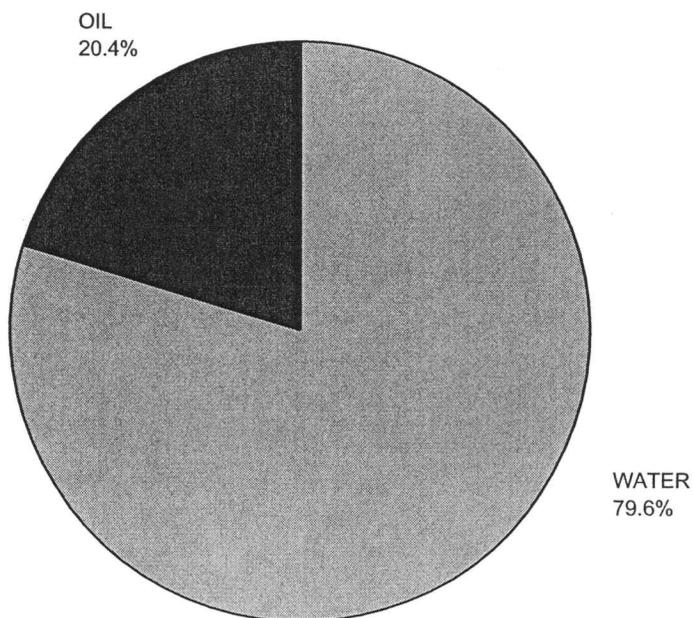
CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 14776

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	370	0	0	100	370	0	0	0	0
PIPE 2	250	0	0	30	75	70	175	0	0
3	180	0	0	20	36	80	144	0	0
4	1494	0	0	0	0	100	1494	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
WEIGHT 1	0	0	0	0	0	0	0	0	0
PIPE 2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
DRILL 1	186	0	0	0	0	100	186	0	0
COLLARS 2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
TOTAL	2480	0	0	0	481	0	1999	0	0

BBL OIL=	6.83982	*	HRS OPEN	1.5	=	BBL/DAY	109.43712
BBL WATER=	26.6904	*			=		427.0464
BBL MUD=	0						
BBL GAS =	0						





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TOOL DIAGRAM

Mai Oil Operations

Vine "C" #2

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27-11s-19w Ellis KS

Job Ticket: 14776

DST#: 1

ATTN: Allen Bangert

Test Start: 2001.07.29 @ 21:17:01

Tool Information

Drill Pipe:	Length: 3380.00 ft	Diameter: 3.80 inches	Volume: 47.41 bbl	Tool Weight: 2500.00 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: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 48.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3582.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.02 ft			
Tool Length:	44.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			3563.00	
S.I. Tool	5.00			3568.00	
HMV	5.00			3573.00	
Packer	4.00			3577.00	20.00 Bottom Of Top Packer
Packer	5.00			3582.00	
Stubb	1.00			3583.00	
Recorder	0.01	3017	Inside	3583.01	
Perforations	20.00			3603.01	
Recorder	0.01	13308	Outside	3603.02	
Bullnose	3.00			3606.02	24.02 Bottom Packers & Anchor
Total Tool Length:	44.02				



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

20 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1680.00	Salt Water	21.872
180.00	O-C-W 20%oil 80%w ater	2.525
250.00	O-C-W 30%oil 70%w ater	3.507
370.00	Free Oil	5.190

Total Length: 2480.00 ft Total Volume: 33.094 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

