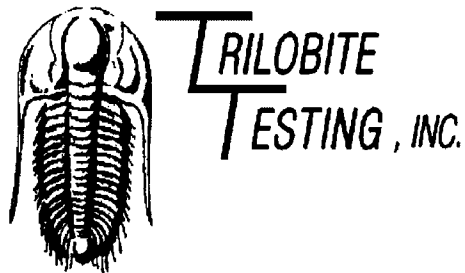


15-033-21377

30-34s-18w



DRILL STEM TEST REPORT

Prepared For: **MM Energy Inc**

1900 SE 15th Street
Edmond, OK 73013

ATTN: Marvin Harvey

30-34s-18w

Huck #1

Start Date: 2004.01.19 @ 21:10:48

End Date: 2004.01.20 @ 06:51:56

Job Ticket #: 17218 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

MM Energy Inc

1900 SE 15th Street
Edmond, OK 73013

ATTN: Marvin Harvey

Huck #1

30-34s-18w

Job Ticket: 17218

DST#: 1

Test Start: 2004.01.19 @ 21:10:48

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 23:24:56

Time Test Ended: 06:51:56

Test Type: **Conventional Bottom Hole**

Tester: **Nick Budig**

Unit No: **17**

Interval: **5438.00 ft (KB) To 5512.00 ft (KB) (TVD)**

Total Depth: **5512.00 ft (KB) (TVD)**

Hole Diameter: **7.78 inches** Hole Condition: **Fair**

Reference Elevations: **2013.00 ft (KB)**

2000.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 6771 **Inside**

Press@RunDepth: **47.08 psig @ 5442.00 ft (KB)**

Start Date: **2004.01.19**

End Date:

2004.01.20

Start Time: **21:10:53**

End Time:

06:51:55

Capacity: **7000.00 psig**

Last Calib.: **2004.01.20**

Time On Btm: **2004.01.19 @ 23:17:56**

Time Off Btm: **2004.01.20 @ 03:56:46**

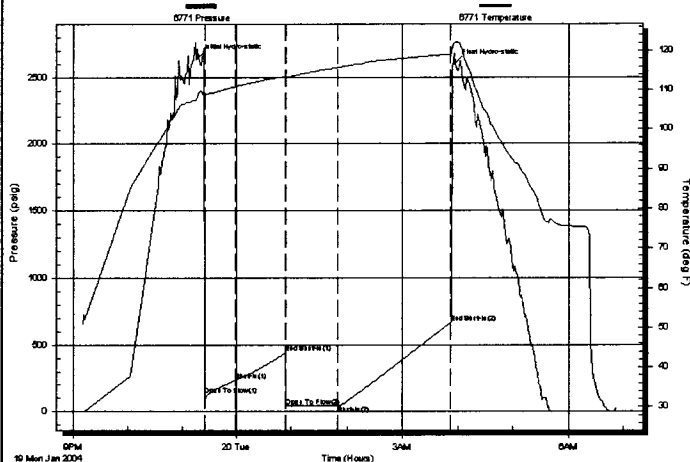
TEST COMMENT: IF-Weak Blow 1/2 in. in bucket

IS- No Blow

FF- Strong Blow obb in 30 sec

FS- No Blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2646.93	109.06	Initial Hydro-static
7	126.72	108.41	Open To Flow (1)
41	232.31	110.95	Shut-In (1)
96	437.96	113.52	End Shut-In (1)
97	41.65	113.14	Open To Flow (2)
152	47.08	115.80	Shut-In (2)
275	663.15	119.14	End Shut-In (2)
279	2606.43	122.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1500.00	Gas, gas in pipe hard to smell	15.50
65.00	Mud	0.72

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

MM Energy Inc

1900 SE 15th Street
Edmond, OK 73013

ATTN: Marvin Harvey

Huck #1

30-34s-18w

Job Ticket: 17218

DST#: 1

Test Start: 2004.01.19 @ 21:10:48

Tool Information

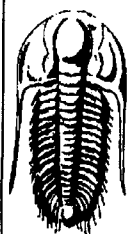
Drill Pipe:	Length: 5226.00 ft	Diameter: 3.38 inches	Volume: 58.00 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 90000.00 lb
		Total Volume: 58.91 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	5438.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	104.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			5409.00	
Shut In Tool	5.00			5414.00	
Sampler	3.00			5417.00	
Hydraulic tool	5.00			5422.00	
Jars	5.00			5427.00	
Safety Joint	2.00			5429.00	
Packer	5.00			5434.00	30.00 Bottom Of Top Packer
Packer	4.00			5438.00	
Stubb	1.00			5439.00	
Perforations	2.00			5441.00	
Change Over Sub	1.00			5442.00	
Recorder	0.00	6771	Inside	5442.00	
Blank Spacing	62.00			5504.00	
Change Over Sub	1.00			5505.00	
Perforations	4.00			5509.00	
Recorder	0.00	13761	Inside	5509.00	
Bullnose	3.00			5512.00	74.00 Bottom Packers & Anchor
Total Tool Length:	104.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

MM Energy Inc

Huck #1

1900 SE 15th Street
Edmond, OK 73013

30-34s-18w

Job Ticket: 17218

DST#: 1

ATTN: Marvin Harvey

Test Start: 2004.01.19 @ 21:10:48

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:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1500.00	Gas, gas in pipe hard to smell	15.497
65.00	Mud	0.721

Total Length: 1565.00 ft

Total Volume: 16.218 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6771

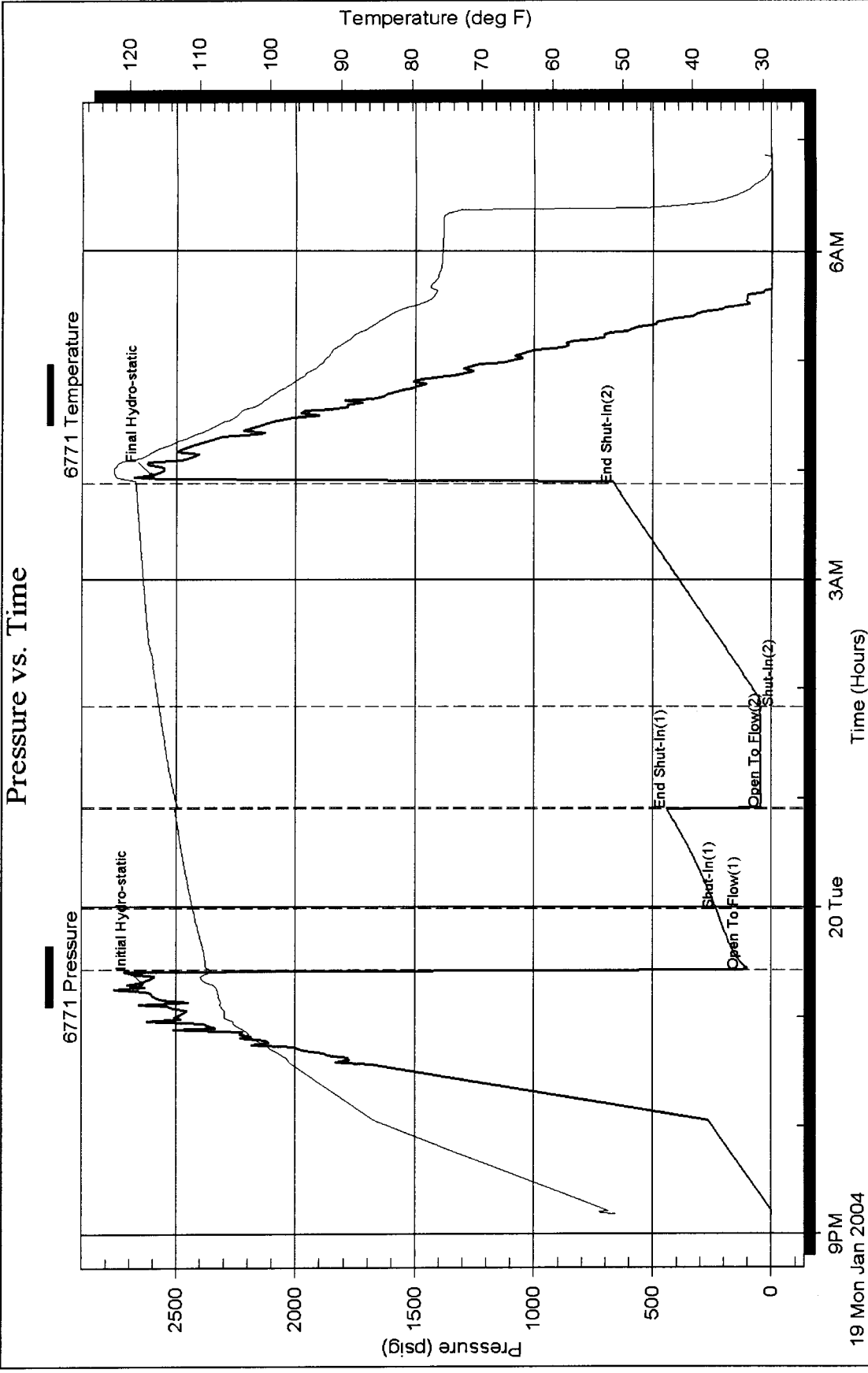
Inside

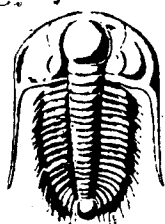
MM Energy Inc

30-34s-18w

DST Test Number: 1

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 17218

12/02

Test Ticket

Well Name & No. Huck #1 Test No. 1 Date 1-19-04
 Company MM Energy, Inc Zone Tested Mississippi
 Address 1900 SE 15th Street Edmond, OK 73013 Elevation 2013 KB 2000 GL
 Co. Rep / Geo. Marvin Harvey Cont. Duke #7 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 30 Twp. 34s Rge. 18W Co. Comanche State Ks
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 5438 - 5512 Initial Str Wt./Lbs. 80,000 Unseated Str Wt./Lbs. 80,000
 Anchor Length 74' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 90,000
 Top Packer Depth 5435 Tool Weight 2200
 Bottom Packer Depth 5438 Hole Size 7 7/8" ☒ Rubber Size 6 3/4" ☒
 Total Depth 5512 Wt. Pipe Run 0 Drill Collar Run 186
 Mud Wt. 9.1 LCM _____ Vis. 58 WL 10.2 Drill Pipe Size 4 1/2 Ft. Run 5326

Blow Description IF - Weak Blow 1/2 in. in bucket
ISI - No Blow
FF - Strong Blow OBB in 30 sec
FSI - No Blow

Recovery - Total Feet 65 GIP possible 1500 Ft. in DC 65 Ft. in DP 0
 Rec. _____ Feet of Gas in pipe hard to smell
 Rec. 65 Feet of Mud
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 119 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW 1 @ 34.4 °F Chlorides 13,000 ppm Recovery _____ Chlorides 5000 ppm System

	AK-1	Alpine	PSI	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>2647</u>		<u>6771</u>	<u>900</u>
(B) First Initial Flow Pressure		<u>127</u>		<u>5442</u>	Elec. Rec. <u>150</u>
(C) First Final Flow Pressure		<u>232</u>		<u>13761</u>	Jars <u>200</u>
(D) Initial Shut-In Pressure		<u>438</u>		<u>5509</u>	Safety Jt. <u>50</u>
(E) Second Initial Flow Pressure		<u>42</u>			Circ Sub _____
(F) Second Final Flow Pressure		<u>47</u>			Sampler <u>200</u>
(G) Final Shut-In Pressure		<u>663</u>			Straddle _____
(Q) Final Hydrostatic Mud		<u>2606</u>			Ext. Packer _____

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Marvin Harvey
 Our Representative Neck Brady

Final Flow 60
 Final Shut-In 120
 T-On Location 7:45
 T-Started 9:10
 T-Open 11:25
 T-Pulled 3:55
 T-Out 6:40
 Shale Packer 150
 Mileage 72
 Sub Total: 1772.40
 Std. By 1772.40
 Other _____
 Total: _____



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 17218 Date 1-19-04
Company Name MM ENERGY, INC.
Lease Huck #1 Test No. 1
County Comanche, KS Sec. 36 Twp. 34s Rng. 18w

SAMPLER RECOVERY

Gas 550 lbs 1.1 cubic ft ML Chlorides 5000 ppm.
Oil . ML Resistivity ohms @ F
Mud 200 ML Viscosity 58
Water ML Mud Weight 9.1
Other ML Filtrate 10.1
Pressure 550 lbs ML Other
Total 200 ML

PIT MUD ANALYSIS

SAMPLER ANALYSIS

Resistivity ohms @ F
Chlorides ppm.
Gravity corrected @60F

PIPE RECOVERY

TOP
Resistivity ohms @ F
Chlorides ppm.
MIDDLE
Resistivity ohms @ F
Chlorides ppm.
BOTTOM
Resistivity 1. ohms @ 34 F
Chlorides 13,000 ppm.

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart

