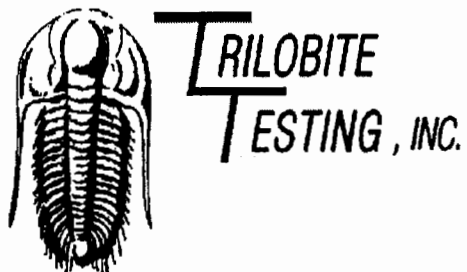


15-135-24284

6-17s-23w



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co. Inc.**

P.O.Box 2758
Wichita, Ks. 67201-2758

ATTN: Mark Shreve

6-17s-23w

Klitzke # 1-6

Start Date: 2004.06.02 @ 05:04:18

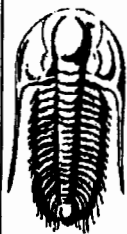
End Date: 2004.06.02 @ 13:03:18

Job Ticket #: 19438 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

Mull Drilling Co. Inc.

P.O.Box 2758
Wichita, Ks. 67201-2758

ATTN: Mark Shreve

Klitzke # 1-6

6-17s-23w

Job Ticket: 19438

DST#: 1

Test Start: 2004.06.02 @ 05:04:18

GENERAL INFORMATION:

Formation: **Ft. Scott-Cherokee-Co**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:18:18

Time Test Ended: 13:03:18

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **4440.00 ft (KB) To 4600.00 ft (KB) (TVD)**

Total Depth: 4600.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2500.00 ft (KB)

2491.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6741

Inside

Press@RunDepth: 1300.80 psig @ 4449.00 ft (KB)

Start Date: 2004.06.02

End Date:

2004.06.02

Start Time: 05:04:19

End Time:

13:03:18

Capacity: 7000.00 psig

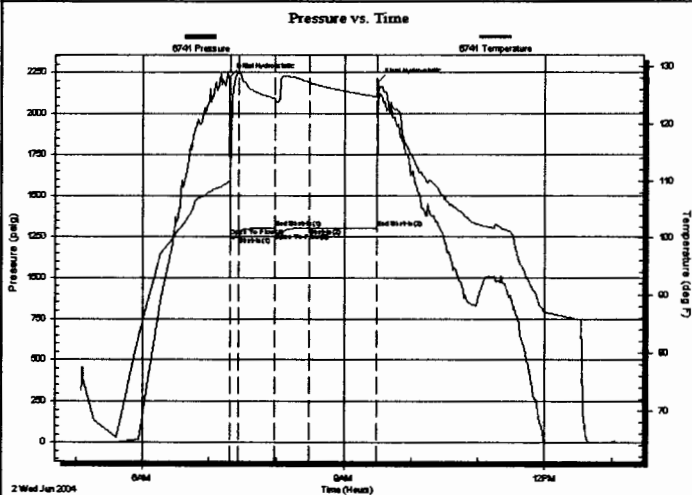
Last Calib.: 2004.06.02

Time On Btmr: 2004.06.02 @ 07:17:48

Time Off Btmr: 2004.06.02 @ 09:29:48

TEST COMMENT: F-Strong B.O.B.30 Sec.
FF-Strong B.O.B.30 Sec.

ISI-Dead
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2220.56	110.00	Initial Hydro-static
1	1245.81	109.76	Open To Flow (1)
9	1250.89	128.91	Shut-In (1)
41	1302.49	124.46	End Shut-In (1)
41	1270.16	124.13	Open To Flow (2)
71	1300.80	127.28	Shut-In (2)
132	1303.98	124.78	End Shut-In (2)
132	2193.98	124.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1960.00	Muddy salt water	27.49
840.00	Drilling mud	11.78

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co. Inc.

P.O.Box 2758
Wichita, Ks. 67201-2758

ATTN: Mark Shreve

Klitzke # 1-6

6-17s-23w

Job Ticket: 19438

DST#: 1

Test Start: 2004.06.02 @ 05:04:18

Tool Information

Drill Pipe:	Length: 4425.00 ft	Diameter: 3.80 inches	Volume: 62.07 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			Total Volume: 62.07 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4440.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	160.00 ft				
Tool Length:	180.00 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			4421.00	
Shut In Tool	5.00			4426.00	
Hydraulic tool	5.00			4431.00	
Packer	4.00			4435.00	20.00 Bottom Of Top Packer
Packer	5.00			4440.00	
Stubb	1.00			4441.00	
Perforations	7.00			4448.00	
Change Over Sub	1.00			4449.00	
Recorder	0.00	6741	Inside	4449.00	
Blank Spacing	127.00			4576.00	
Change Over Sub	1.00			4577.00	
Recorder	0.00	11084	Outside	4577.00	
Perforations	20.00			4597.00	
Bullnose	3.00			4600.00	160.00 Bottom Packers & Anchor

Total Tool Length: 180.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co. Inc.
P.O.Box 2758
Wichita,Ks.67201-2758
ATTN: Mark Shreve

Klitzke # 1-6
6-17s-23w
Job Ticket: 19438 DST#: 1
Test Start: 2004.06.02 @ 05:04:18

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 10.37 in³
Resistivity: ohm.m
Salinity: 6000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig
Oil API: deg API
Water Salinity: 25000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1960.00	Muddy salt water	27.494
840.00	Drilling mud	11.783

Total Length: 2800.00 ft Total Volume: 39.277 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

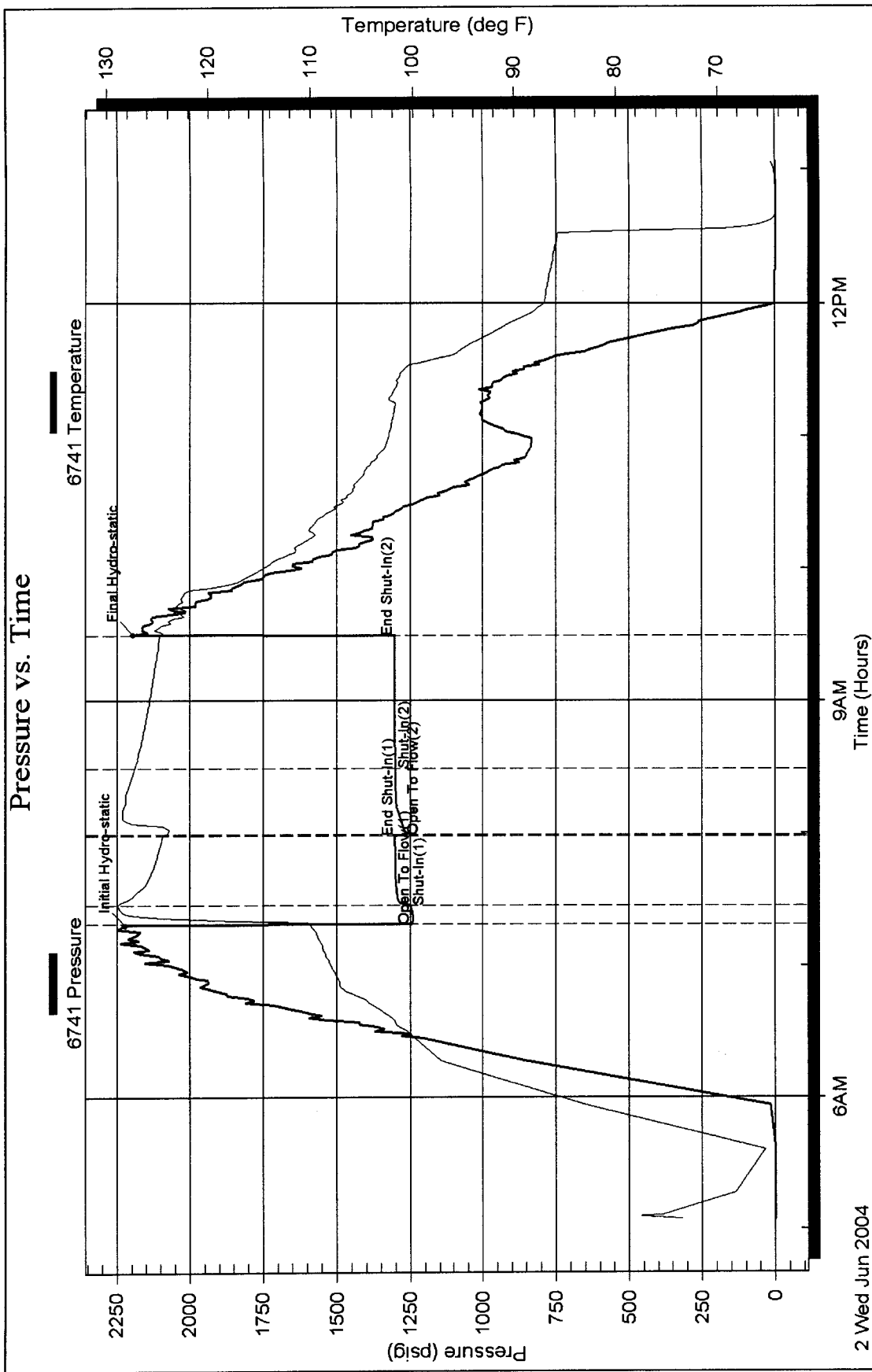
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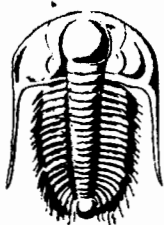
Inside

Mull Drilling Co. Inc.

6--17s--23w

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19438

05/03

Test Ticket

Well Name & No. KLITZKE #1-6 Test No. #1 Date 6-2-04
Company MULL DRILLING CO. INC. Zone Tested FT. SCOTT + CHEROKEE
Address P.O. Box 2758 WICHITA, KS, 67201-2758 Elevation 2500 KB 2491 GL
Co. Rep / Geo. ROGER L. MARTIN Cont. DUKE #4 Est. Ft. of Pay _____ Por. _____ %
Location: Sec. 6 Twp. 17S Rge. 23W Co. NE 5S State KS
No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4440 TO 4600 Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 64,000
Anchor Length 160' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000
Top Packer Depth 4435' Tool Weight 2200
Bottom Packer Depth 4440 Hole Size 7 7/8" Rubber Size 6 3/4"
Total Depth 4600 Wt. Pipe Run 0 Drill Collar Run 0
Mud Wt. 9.2 LCM 1* Vis. 45 WL 10.4 Drill Pipe Size 4 1/2 XH Ft. Run 4425'
Blow Description IF - STRONG B.O.B. 30 SEC. FSI - DEAD
FF - STRONG B.O.B. 30 SEC. FSI - DEAD

Recovery - Total Feet 2800 GIP 0 Ft. in DC 0 Ft. in DP 2800
Rec. 1960 Feet of MUDDY SALT WATER %gas _____ %oil 80 %water 20 %mud
Rec. 840 Feet of DRILLING MUD %gas _____ %oil _____ %water _____ %mud
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
RW 3 @ 64 °F Chlorides 25,000 ppm Recovery _____ Chlorides 6,000 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud		<u>2220</u> PSI	Recorder No.	<u>6741</u>	Test <u>B. HOLE 800</u>
(B) First Initial Flow Pressure		<u>1245</u> PSI	(depth)	<u>4449</u>	Elec. Rec. <u>✓ 150</u>
(C) First Final Flow Pressure		<u>1250</u> PSI	Recorder No.	<u>11084</u>	Jars _____
(D) Initial Shut-In Pressure		<u>1302</u> PSI	(depth)	<u>4577</u>	Safety Jt. _____
(E) Second Initial Flow Pressure		<u>1270</u> PSI	Recorder No.		Circ Sub <u>✓ 35</u>
(F) Second Final Flow Pressure		<u>1300</u> PSI	(depth)		Sampler _____
(G) Final Shut-In Pressure		<u>1303</u> PSI	Initial Opening	<u>10</u>	Straddle _____
(Q) Final Hydrostatic Mud		<u>2193</u> PSI	Initial Shut-In	<u>30</u>	Ext. Packer _____
			Final Flow	<u>30</u>	Shale Packer _____
			Final Shut-In	<u>60</u>	Mileage <u>60</u> <u>102</u>
			T-On Location	<u>03:45</u>	Sub Total: <u>1087</u>
			T-Started	<u>05:04</u>	Std. By <u>1/2 hr</u> <u>15</u>
			T-Open	<u>07:18</u>	Other _____
			T-Pulled	<u>09:29</u>	Total: <u>1102</u>
			T-Out	<u>13:03</u>	

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Approved By Roger Martin
Our Representative John J. Schmidt

CHART PAGE

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

