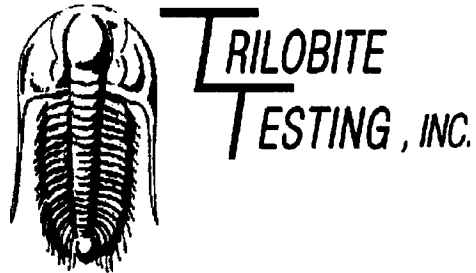


15-135-24629

4-17s-23w



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Phil Aslay

4 17 23 Ness KS

Klitzke B 1-4

Start Date: 2007.04.26 @ 02:51:00

End Date: 2007.04.26 @ 10:42:39

Job Ticket #: 26638 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 Company

PO Box 2758
Wichita KS 67201

ATTN: Phil Aslay

Klitzke B 1-4

4 17 23 Ness KS

Job Ticket: 26638

DST#: 1

Test Start: 2007.04.26 @ 02:51:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:47:25

Time Test Ended: 10:42:39

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4290.00 ft (KB) To 4322.00 ft (KB) (TVD)**

Total Depth: 4322.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2418.00 ft (KB)

2413.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772

Inside

Press@RunDepth: 70.77 psig @ 4291.00 ft (KB)

Start Date: 2007.04.26

End Date:

2007.04.26

Capacity: 7000.00 psig

Last Calib.: 2007.04.26

Start Time: 02:51:00

End Time:

10:42:39

Time On Btm: 2007.04.26 @ 05:47:10

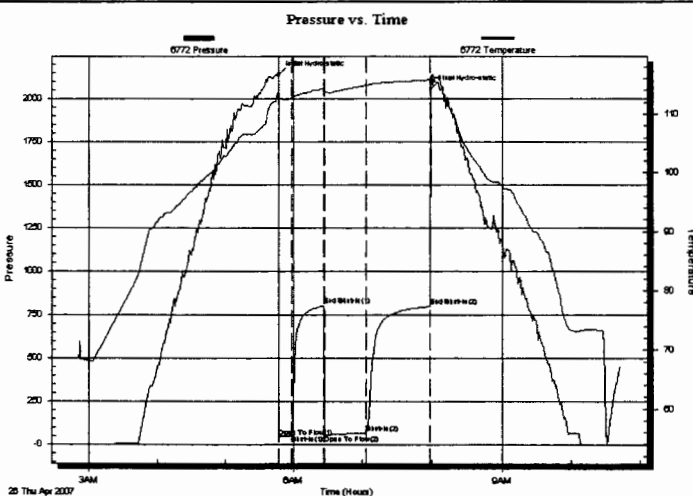
Time Off Btm: 2007.04.26 @ 07:58:54

TEST COMMENT: IF Surface blow built to 1/4 "

IS No return

FF No blow

FS No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.30	113.68	Initial Hydro-static
1	45.86	113.07	Open To Flow (1)
11	55.30	112.75	Shut-In(1)
40	804.83	114.24	End Shut-In(1)
41	56.76	114.06	Open To Flow (2)
76	70.77	114.90	Shut-In(2)
132	801.18	115.84	End Shut-In(2)
132	2059.47	116.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	100%M	0.30
61.00	Mud heavy Oil spots 100%M	0.30
1.00	Free Oil 100%O	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Klitzke B 1-4

PO Box 2758
Wichita KS 67201

4 17 23 Ness KS

ATTN: Phil Aslay

Job Ticket: 26638

DST#: 1

Test Start: 2007.04.26 @ 02:51:00

Tool Information

Drill Pipe:	Length: 4162.00 ft	Diameter: 3.80 inches	Volume: 58.38 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	85000.00 lb
		Total Volume:	58.99 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4290.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	52.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4271.00	
Shut In Tool	5.00			4276.00	
Hydraulic tool	5.00			4281.00	
Packer	5.00			4286.00	20.00 Bottom Of Top Packer
Packer	4.00			4290.00	
Stubb	1.00			4291.00	
Recorder	0.00	6772	Inside	4291.00	
Perforations	26.00			4317.00	
Recorder	0.00	7437	Outside	4317.00	
Bullnose	5.00			4322.00	32.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Klitzke B 1-4

PO Box 2758
Wichita KS 67201

4 17 23 Ness KS

Job Ticket: 26638

DST#: 1

ATTN: Phil Aslay

Test Start: 2007.04.26 @ 02:51:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	100%M	0.305
61.00	Mud heavy Oil spots 100%M	0.300
1.00	Free Oil 100%O	0.005

Total Length: 124.00 ft

Total Volume: 0.610 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

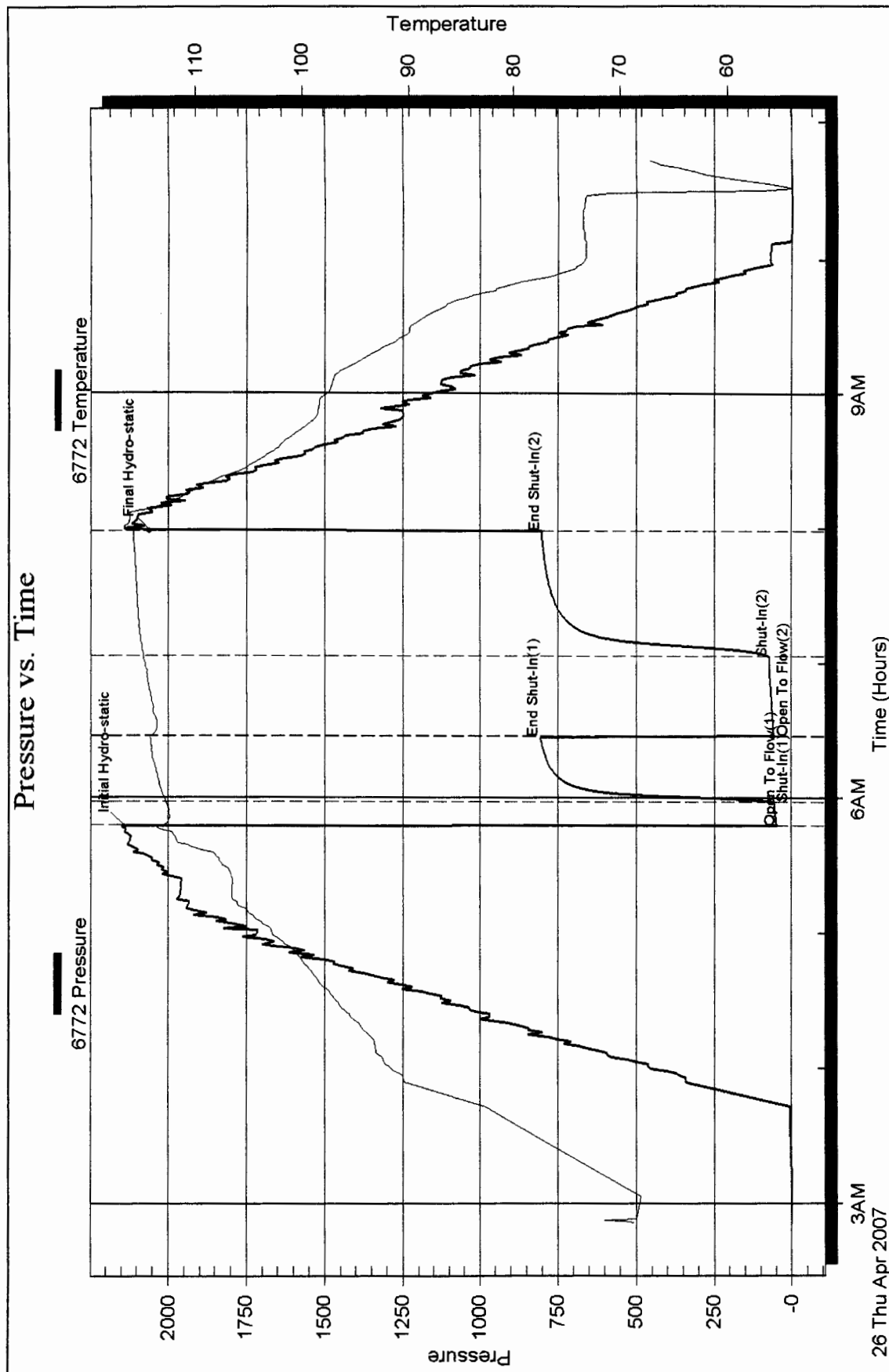
Serial #:

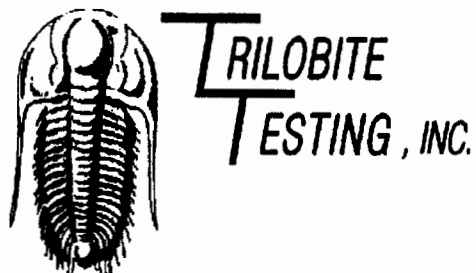
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company**

PO Box 2758
Wichita KS 67201

ATTN: Phil Aslay

4 17 23 Ness KS

Klitzke B 1-4

Start Date: 2007.04.26 @ 23:52:59

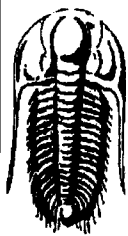
End Date: 2007.04.27 @ 09:45:09

Job Ticket #: 26639 DST #: 2

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 Company

PO Box 2758
Wichita KS 67201

ATTN: Phil Aslay

Klitzke B 1-4

4 17 23 Ness KS

Job Ticket: 26639

DST#: 2

Test Start: 2007.04.26 @ 23:52:59

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:23:09

Time Test Ended: 09:45:09

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4368.00 ft (KB) To 4417.00 ft (KB) (TVD)**

Total Depth: 4417.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2418.00 ft (KB)

2413.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6772

Inside

Press@RunDepth: 409.80 psig @ 4369.00 ft (KB)

Start Date: 2007.04.26

End Date:

2007.04.27

Capacity: 7000.00 psig

Last Calib.: 2007.04.27

Start Time: 23:52:59

End Time:

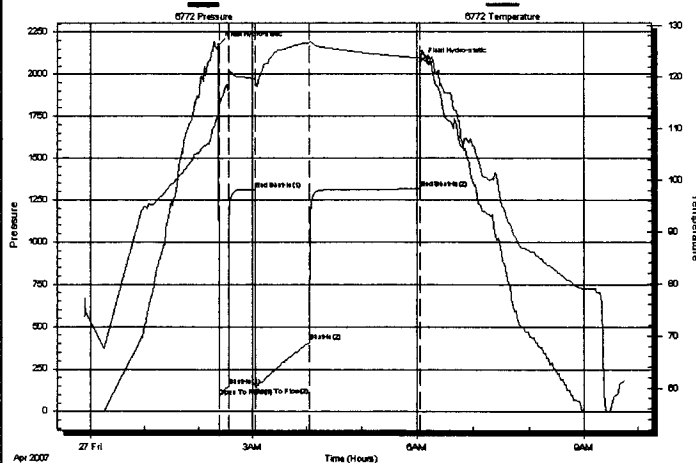
09:45:09

Time On Btm: 2007.04.27 @ 02:22:39

Time Off Btm: 2007.04.27 @ 06:03:38

TEST COMMENT: IF BOB in 8 min.
IS Surface blow that never built
FF BOB in 7 min.
FS Surface blow built to 1 died in 30 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2174.46	112.38	Initial Hydro-static
1	86.67	113.43	Open To Flow (1)
11	148.08	117.74	Shut-In (1)
41	1314.20	119.66	End Shut-In (1)
41	146.69	119.12	Open To Flow (2)
101	409.80	126.69	Shut-In (2)
221	1315.63	123.72	End Shut-In (2)
221	2073.10	123.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOOM 10%G 20%O 70%M	0.30
62.00	MCOG 10%G 80%O 10%M	0.30
465.00	MCOG 30%G 20%O 50%M	6.52
453.00	GO 20%G 80%O	6.35

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company

Klitzke B 1-4

PO Box 2758
Wichita KS 67201

4 17 23 Ness KS

Job Ticket: 26639

DST#: 2

ATTN: Phil Aslay

Test Start: 2007.04.26 @ 23:52:59

Tool Information

Drill Pipe:	Length: 4256.00 ft	Diameter: 3.80 inches	Volume: 59.70 bbl	Tool Weight:	1500.00 lb	
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb	
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	80000.00 lb	
			Total Volume:	60.31 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	56000.00 lb	
Depth to Top Packer:	4368.00 ft			Final	62000.00 lb	
Depth to Bottom Packer:	ft					
Interval between Packers:	49.00 ft					
Tool Length:	69.00 ft					
Number of Packers:	2	Diameter:	6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4349.00	
Shut In Tool	5.00			4354.00	
Hydraulic tool	5.00			4359.00	
Packer	5.00			4364.00	20.00 Bottom Of Top Packer
Packer	4.00			4368.00	
Stubb	1.00			4369.00	
Recorder	0.00	6772	Inside	4369.00	
Perforations	10.00			4379.00	
Change Over Sub	1.00			4380.00	
Drill Pipe	31.00			4411.00	
Change Over Sub	1.00			4412.00	
Recorder	0.00	7437	Outside	4412.00	
Bullnose	5.00			4417.00	49.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company

Klitzke B 1-4

PO Box 2758
Wichita KS 67201

4 17 23 Ness KS

Job Ticket: 26639

DST#: 2

ATTN: Phil Aslay

Test Start: 2007.04.26 @ 23:52:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.34 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GOCM 10%G 20%O 70%M	0.305
62.00	MCGO 10%G 80%O 10%M	0.305
465.00	MCGO 30%G 20%O 50%M	6.523
453.00	GO 20%G 80%O	6.354

Total Length: 1042.00 ft

Total Volume: 13.487 bbl

Num Fluid Samples: 0

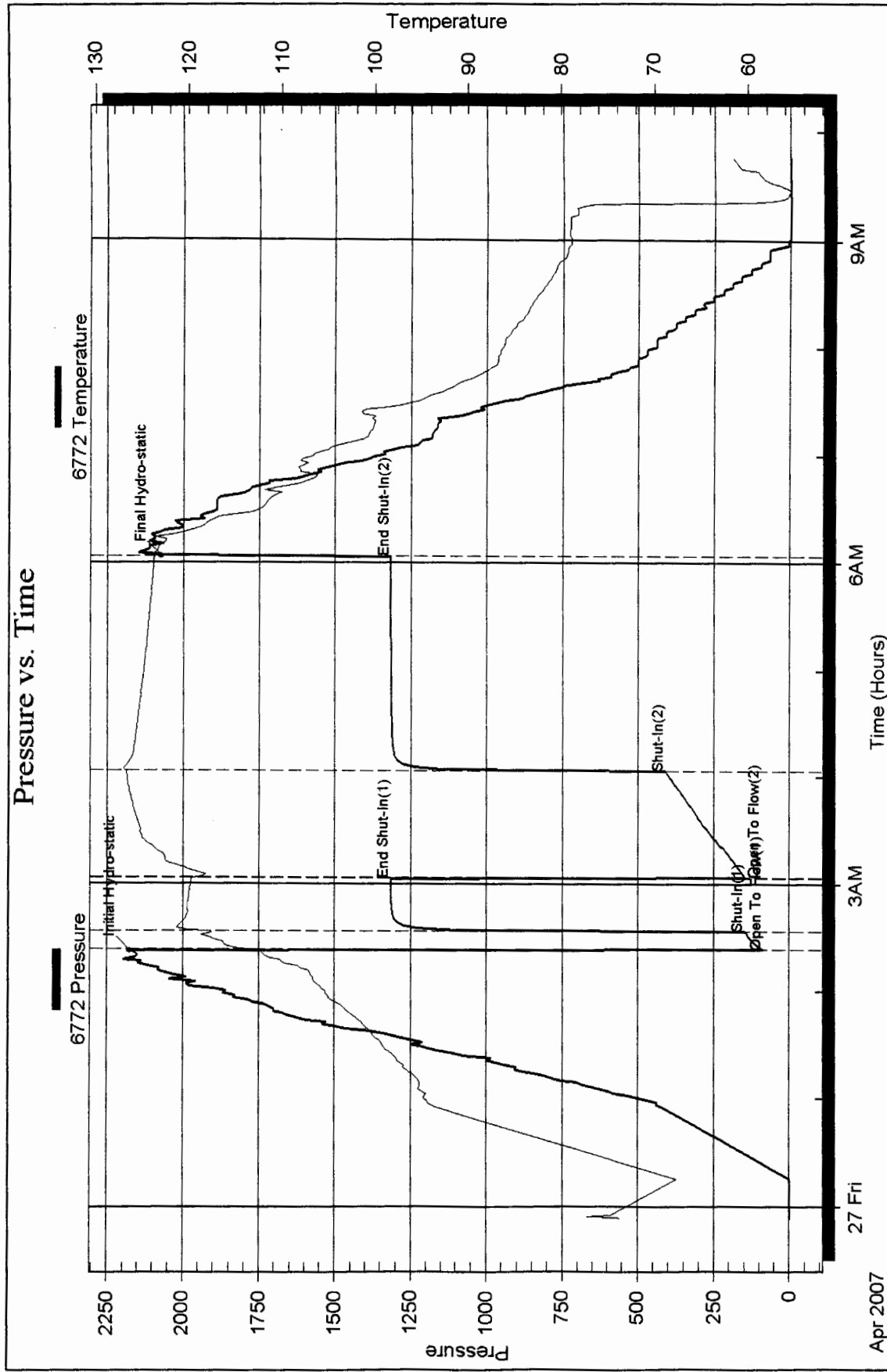
Num Gas Bombs: 0

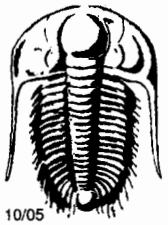
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26638

100913

Test Ticket

Well Name & No.	Klitzke 'B' 1-4	Test No.	1	Date	4-26-07
Company	Mull Drilling Company	Zone Tested	Ft. Scott		
Address	P.O. Box 2758 Wichita, KS 67201	Elevation	2418	KB	2413
Co. Rep / Geo.	Phil Asbury	Rig	WW #2		
Location: Sec.	4	Twp.	17	Rge.	23
		Co.	Ness	State	KS
Comment:	Release date / time:				

Interval Tested	4290	4322	Initial Str Wt./Lbs	55,000	Unseated Str Wt./Lbs	55,000
Anchor Length		32	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	85,000
Top Packer Depth		4285	Tool Weight	1500		
Bottom Packer Depth		4290	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4322	Wt. Pipe Run	—	Drill Collar Run	124
Mud Wt.	9.6	LCM 1	Vis. 54	WL 10.4	Drill Pipe Size	4 1/2 x H
Blow Description	IF: surface blow built to 1/4,					

IS: No return,
FF: No return blow,
FS: No return

Recovery - Total Feet	124	GIP	—	Ft. in DC	124	Ft. in DP	—
Rec.	1	Feet of	Free oil	%gas	100	%oil	%water %mud
Rec.	61	Feet of	mud Heavy oil spots	%gas	%oil	%water	100% mud
Rec.	62	Feet of	mud	%gas	%oil	%water	100% mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
BHT	115	°F Gravity	—	°API D @	—	°F Corrected Gravity	—
RW	—	@	—	°F Chlorides	—	ppm Recovery	—
				Chlorides	5400	ppm System	

(A) Initial Hydrostatic Mud	AK-1	Alpine	2140	PSI	Recorder No.	6772	Test x	1200.00
(B) First Initial Flow Pressure			45	PSI	(depth)	4291	Jars	
(C) First Final Flow Pressure			55	PSI	Recorder No.	7437	Safety Jt.	
(D) Initial Shut-In Pressure			804	PSI	(depth)	4321	Circ Sub	x N/L
(E) Second Initial Flow Pressure			56	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			70	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			801	PSI	Initial Opening	10	Ext. Packer	
(Q) Final Hydrostatic Mud			2146	PSI	Initial Shut-In	30	Shale Packer	

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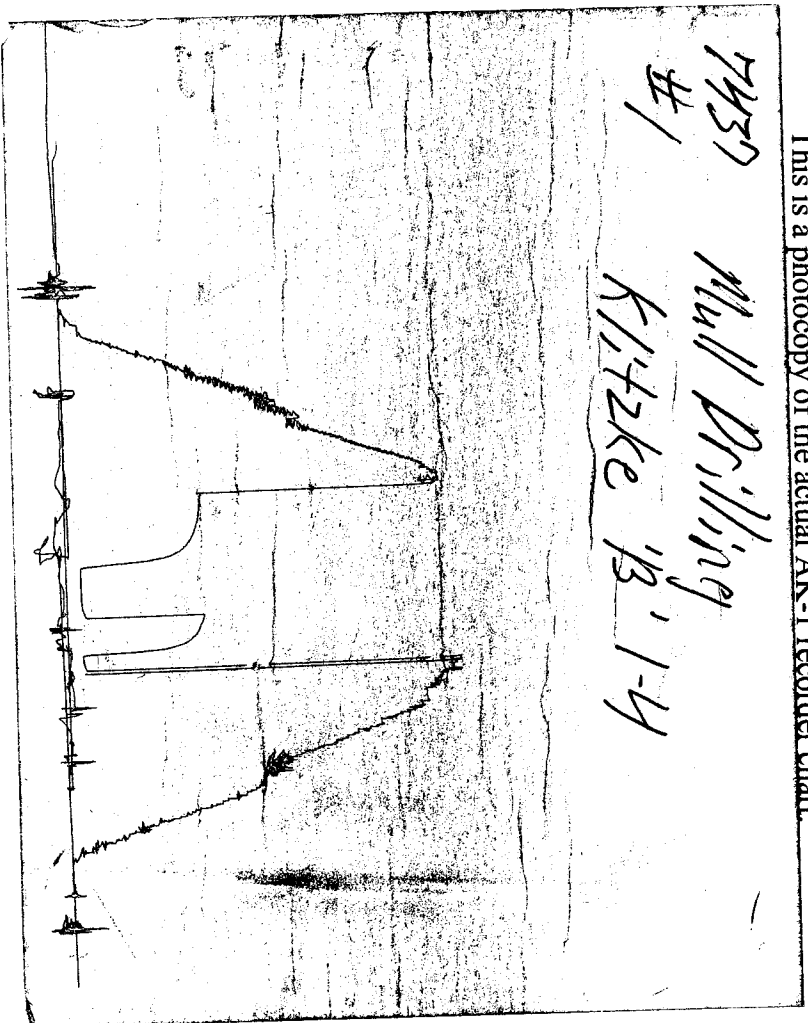
Approved By Phil Asbury
Our Representative [Signature]

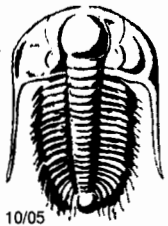
Final Flow	30	Final Shut-In	60
T-On Location	12:30 AM	T-Started	2:50
T-Open	5:45	T-Pulled	7:55
T-Out	10:45		
Recorder No.	6772	Test x	1200.00
(depth)	4291	Jars	
Recorder No.	7437	Safety Jt.	
(depth)	4321	Circ Sub	x N/L
Recorder No.		Sampler	
(depth)		Straddle	
Initial Opening	10	Ext. Packer	
Initial Shut-In	30	Shale Packer	
Final Flow	30	Ruined Packer	
Final Shut-In	60	Mileage	152 - 190.00
T-On Location	12:30 AM	Sub Total:	1390
T-Started	2:50	Std. By	
T-Open	5:45	Acc. Chg:	
T-Pulled	7:55	Other:	
T-Out	10:45	Total:	

CHART PAGE

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

7457 Mull Drilling
#1 K142ke 13' 1-4





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26639

Test Ticket

Well Name & No.	<u>Klitzke 'B' 1-4</u>	Test No.	<u>2</u>	Date	<u>4-26-07</u>
Company	<u>Mull Drilling Company</u>	Zone Tested	<u>Mississippi</u>		
Address	<u>P.O. Box 2758 Wichita, KS 67201</u>	Elevation	<u>2418</u>	KB	<u>2413</u>
Co. Rep / Geo.	<u>Phil As/gy</u>	Rig	<u>NW #2</u>		
Location: Sec.	<u>4</u>	Twp.	<u>17</u>	Rge.	<u>23</u>
		Co.	<u>Ness</u>	State	<u>KS</u>
Comment:	Release date / time:				

Interval Tested	<u>4368</u>	<u>4417</u>	Initial Str Wt./Lbs.	<u>56,000</u>	Unseated Str Wt./Lbs.	<u>62,000</u>
Anchor Length		<u>49</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>80,000</u>
Top Packer Depth		<u>4363</u>	Tool Weight	<u>1500</u>		
Bottom Packer Depth		<u>4368</u>	Hole Size 7 7/8"	<u>✓</u>	Rubber Size 6 3/4"	<u>✓</u>
Total Depth		<u>4417</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>124</u>
Mud Wt.	<u>9.4</u>	LCM <u>1</u>	Vis. <u>44</u>	WL <u>10.4</u>	Drill Pipe Size	<u>4 1/2 x 4</u>
Blow Description	<u>IF: BoB in 8 min.</u>					

IS: Surface blow that never built.

FF: BoB in 7 min.

FS: Surface blow built to 1 died in 30 min.

Recovery - Total Feet	<u>1024</u>	GIP	<u>310</u>	Ft. in DC	<u>124</u>	Ft. in DP	<u>900</u>
Rec.	<u>453</u>	Feet of	<u>90</u>	<u>20</u> %gas	<u>80</u> %oil	%water	%mud
Rec.	<u>465</u>	Feet of	<u>ML90</u>	<u>30</u> %gas	<u>20</u> %oil	%water	<u>50</u> %mud
Rec.	<u>62</u>	Feet of	<u>ML90</u>	<u>10</u> %gas	<u>80</u> %oil	%water	<u>10</u> %mud
Rec.	<u>62</u>	Feet of	<u>90CM</u>	<u>10</u> %gas	<u>20</u> %oil	%water	<u>20</u> %mud
Rec.		Feet of		%gas	%oil	%water	%mud
BHT	<u>123</u>	°F Gravity	<u>36</u>	°API D @	<u>60</u>	°F Corrected Gravity	<u>36</u> °API
RW	<u>—</u>	@	<u>—</u>	°F Chlorides	<u>—</u>	ppm Recovery	<u>—</u>
				Chlorides	<u>4300</u>	ppm System	

(A) Initial Hydrostatic Mud	<u>2206</u>	PSI	Recorder No.	<u>6772</u>	Test	<u>x 1200.00</u>
(B) First Initial Flow Pressure	<u>86</u>	PSI	(depth)	<u>4369</u>	Jars	
(C) First Final Flow Pressure	<u>148</u>	PSI	Recorder No.	<u>7437</u>	Safety Jt.	
(D) Initial Shut-In Pressure	<u>1314</u>	PSI	(depth)	<u>4416</u>	Circ Sub	<u>x N/C</u>
(E) Second Initial Flow Pressure	<u>146</u>	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure	<u>409</u>	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure	<u>1315</u>	PSI	Initial Opening	<u>10</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>2191</u>	PSI	Initial Shut-In	<u>30</u>	Shale Packer	

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Approved By Phil As/gy
Our Representative [Signature]

Final Flow	<u>60</u>	Ruined Packer	<u>x 260</u>
Final Shut-In	<u>120</u>	Mileage	<u>152-190.00</u>
T-On Location	<u>23:10</u>	Sub Total:	<u>1650</u>
T-Started	<u>23:52</u>	Std. By	<u>x 12 50</u>
T-Open	<u>2:22</u>	Acc. Chg:	
T-Pulled	<u>6:02</u>	Other:	
T-Out	<u>9:50</u>	Total:	<u>\$1700</u>

CHART PAGE

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

7437
#2

Wall Drilling

Kistke B-4

