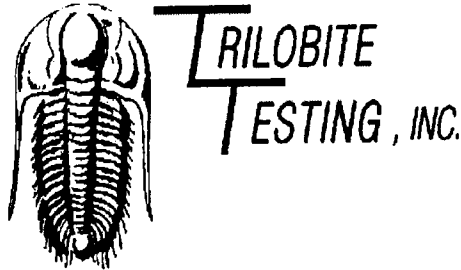


not dbl sided



DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Company**

12950 E 13th
Wichita KS 67230

ATTN: Jim Musgrove

22 18S 16W Rush KS

Maneth #1

Start Date: 2006.08.21 @ 15:00:55

End Date: 2006.08.21 @ 19:29:55

Job Ticket #: 25403 DST #: 1

6 hrs Cyl

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Hartman Oil Company

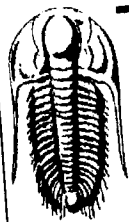
Maneth #1

22 18S 16W Rush KS

DST # 1

Conglomerate Sand

2006.08.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Company

12950 E 13th
Wichita KS 67230

ATTN: Jim Musgrove

Maneth #1

22 18S 16W Rush KS

Job Ticket: 25403

DST#: 1

Test Start: 2006.08.21 @ 15:00:55

GENERAL INFORMATION:

Formation: **Conglomerate Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 19:29:55

Test Type: Conventional Bottom Hole
 Tester: John Colavito
 Unit No: 19

Interval: **3461.00 ft (KB) To 3600.00 ft (KB) (TVD)**
 Total Depth: 3600.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1932.00 ft (KB)
 1928.00 ft (CF)
 KB to GR/CF: 4.00 ft

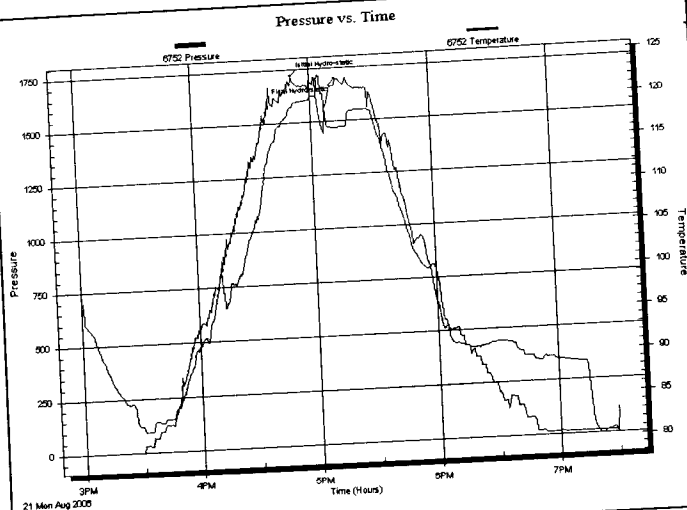
Serial #: 6752

Inside

Press@RunDepth: psig @ 3462.00 ft (KB)
 Start Date: 2006.08.21 End Date: 2006.08.21
 Start Time: 15:01:05 End Time: 19:29:55

Capacity: 7000.00 psig
 Last Calib.: 2006.08.21
 Time On Btm: 2006.08.21 @ 16:50:45
 Time Off Btm: 2006.08.21 @ 17:12:45

TEST COMMENT: Misrun Packer failure



PRESSURE SUMMARY

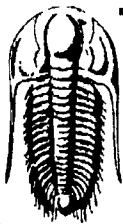
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.17	119.87	Initial Hydro-static
22	1700.19	117.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Company

Maneth #1

12950 E 13th
Wichita KS 67230

22 18S 16W Rush KS

Job Ticket: 25403

DST#: 1

ATTN: Jim Musgrove

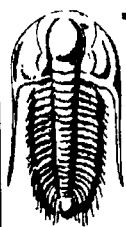
Test Start: 2006.08.21 @ 15:00:55

Tool Information

Drill Pipe:	Length: 3197.00 ft	Diameter: 3.80 inches	Volume: 44.85 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 46.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3461.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	139.00 ft			
Tool Length:	159.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3446.00	
Hydraulic tool	5.00			3451.00	
Packer	5.00			3456.00	20.00 Bottom Of Top Packer
Packer	5.00			3461.00	
Stubb	1.00			3462.00	
Recorder	0.00	6752	Inside	3462.00	
Perforations	5.00			3467.00	
Change Over Sub	0.50			3467.50	
Blank Spacing	123.00			3590.50	
Change Over Sub	0.50			3591.00	
Perforations	6.00			3597.00	
Recorder	0.00	6074	Outside	3597.00	
Bullnose	3.00			3600.00	139.00 Bottom Packers & Anchor

Total Tool Length: 159.00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Company

Maneth #1

12950 E 13th
Wichita KS 67230

22 18S 16W Rush KS

Job Ticket: 25403

DST#: 1

ATTN: Jim Musgrove

Test Start: 2006.08.21 @ 15:00:55

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: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 6752

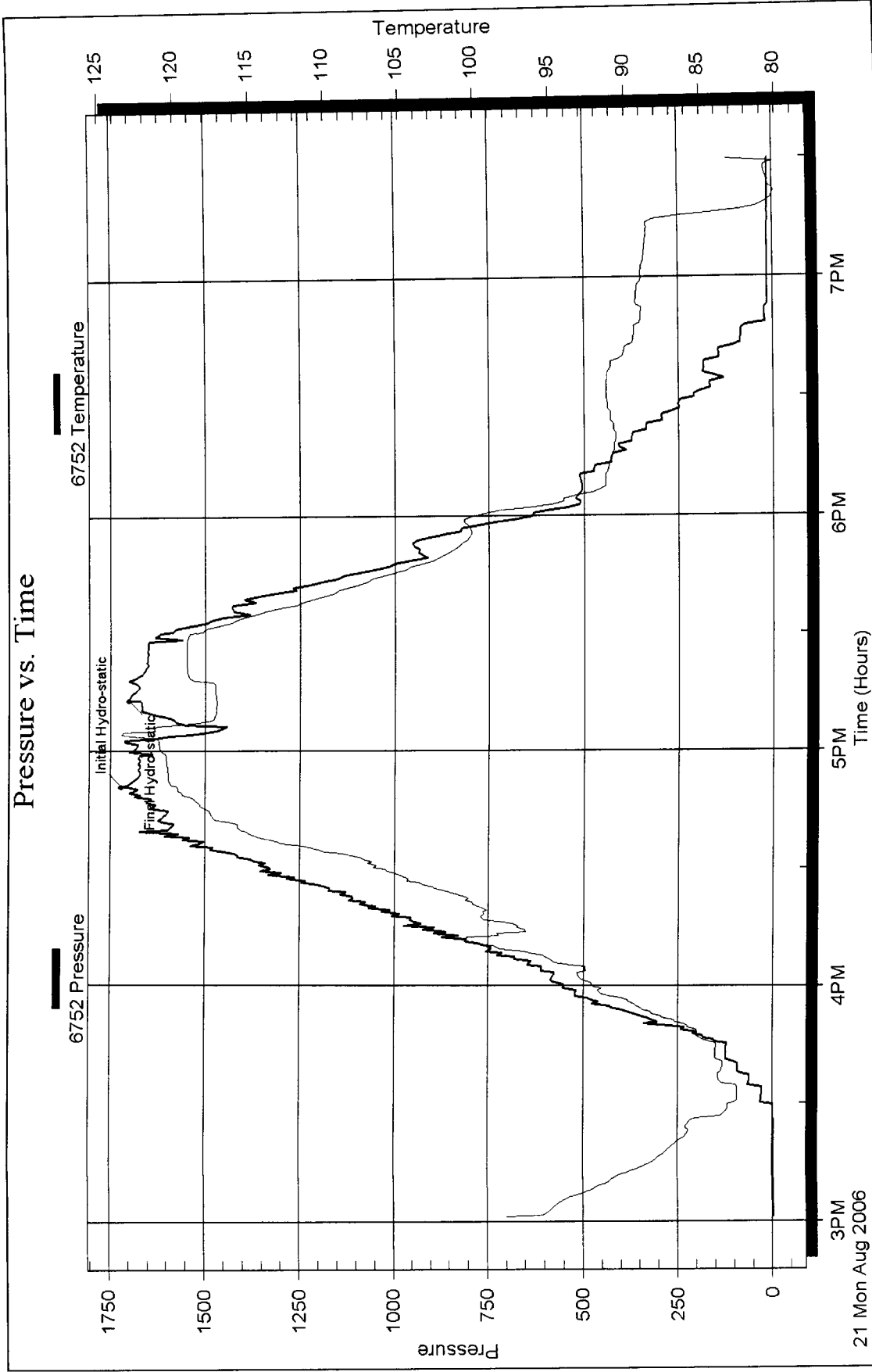
Inside

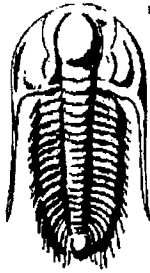
Hartman Oil Company

22 18S 16W Rush KS

DST Test Number: 1

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Company**

12950 E 13th
Wichita KS 67230

ATTN: Jim Musgrove

22 18S 16W Rush KS

Maneth #1

Start Date: 2006.08.21 @ 19:43:21

End Date: 2006.08.22 @ 00:14:36

Job Ticket #: 25404 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Hartman Oil Company

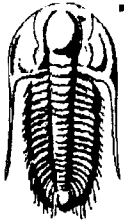
Maneth #1

22 18S 16W Rush KS

DST # 2

Conglomerate Sand

2006.08.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Company

Maneth #1

12950 E 13th
Wichita KS 67230

22 18S 16W Rush KS

Job Ticket: 25404

DST#: 2

ATTN: Jim Musgrove

Test Start: 2006.08.21 @ 19:43:21

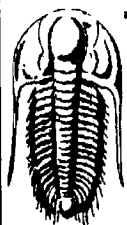
Tool Information

Drill Pipe:	Length: 3284.00 ft	Diameter: 3.80 inches	Volume: 46.07 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 152.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 46.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3427.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	177.00 ft			
Tool Length:	197.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3412.00	
Hydraulic tool	5.00			3417.00	
Packer	5.00			3422.00	20.00 Bottom Of Top Packer
Packer	5.00			3427.00	
Stubb	1.00			3428.00	
Recorder	0.00	6752	Inside	3428.00	
Perforations	9.00			3437.00	
Change Over Sub	0.50			3437.50	
Blank Spacing	157.00			3594.50	
Change Over Sub	0.50			3595.00	
Perforations	6.00			3601.00	
Recorder	0.00	6074	Outside	3601.00	
Bullnose	3.00			3604.00	177.00 Bottom Packers & Anchor

Total Tool Length: 197.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Company

Maneth #1

12950 E 13th
Wichita KS 67230

22 18S 16W Rush KS

Job Ticket: 25404

DST#: 2

ATTN: Jim Musgrove

Test Start: 2006.08.21 @ 19:43:21

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 2

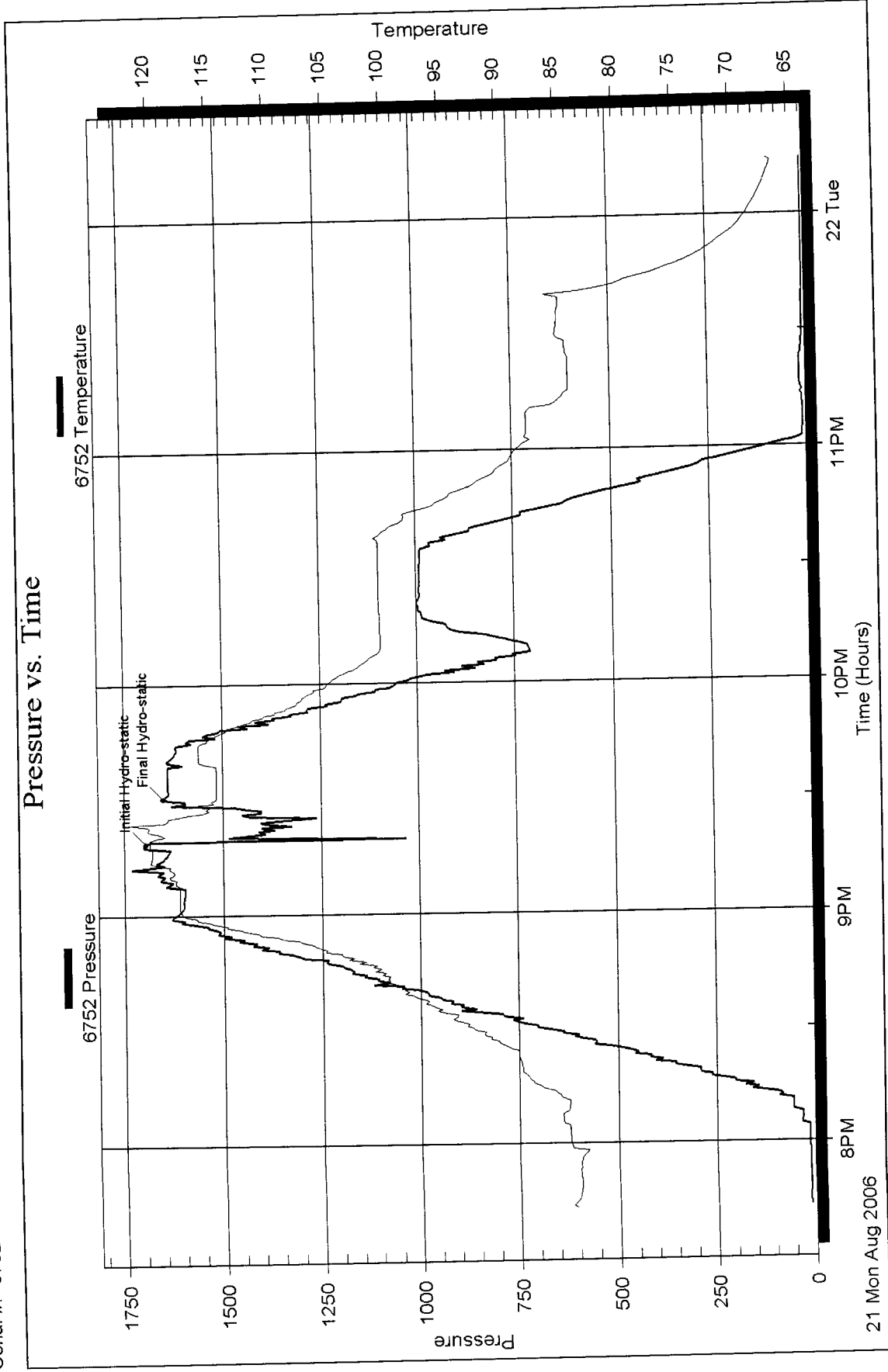
22 18S 16W Rush KS

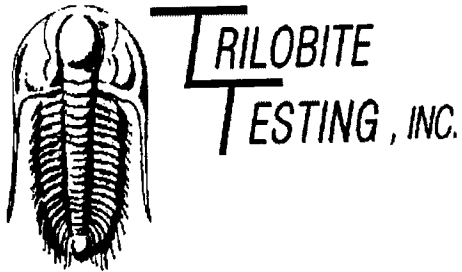
Hartman Oil Company

Inside

Serial #: 6752

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Hartman Oil Company**

12950 E 13th
Wichita KS 67230

ATTN: Jim Musgrove

22 18S 16W Rush KS

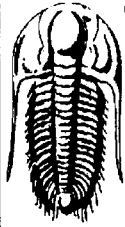
Maneth #1

Start Date: 2006.08.22 @ 05:40:55

End Date: 2006.08.22 @ 13:37:55

Job Ticket #: 25405 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hartman Oil Company
 12950 E 13th
 Wichita KS 67230
 ATTN: Jim Musgrove

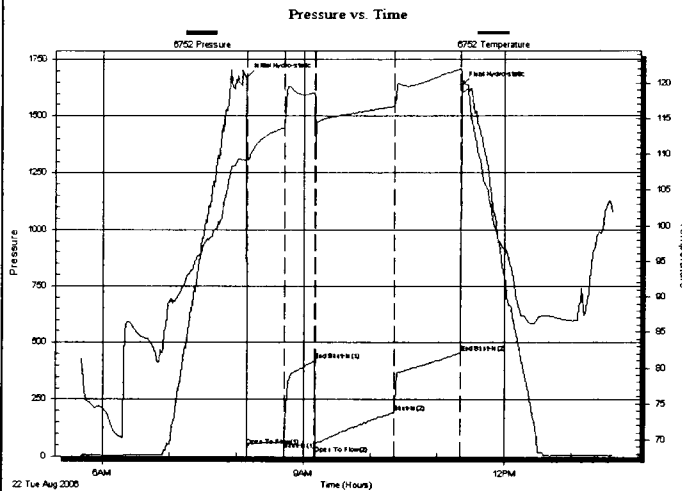
Maneth #1
22 18S 16W Rush KS
 Job Ticket: 25405 **DST#: 3**
 Test Start: 2006.08.22 @ 05:40:55

GENERAL INFORMATION:

Formation: **Conglomerate Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:09:05
 Time Test Ended: 13:37:55
 Interval: **3427.00 ft (KB) To 3600.00 ft (KB) (TVD)**
 Total Depth: 3600.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole
 Tester: John Colavito
 Unit No: 19
 Reference Elevations: 1932.00 ft (KB)
 1928.00 ft (CF)
 KB to GR/CF: 4.00 ft

Serial #: 6752 **Inside**
 Press@RunDepth: 195.26 psig @ 3428.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2006.08.22 End Date: 2006.08.22 Last Calib.: 2006.08.22
 Start Time: 05:41:05 End Time: 13:37:55 Time On Btm: 2006.08.22 @ 08:08:44
 Time Off Btm: 2006.08.22 @ 11:21:25

TEST COMMENT: IF Strong blow BOB in 4 min GTS in 30 min
 ISI Weak surface blow back
 FF Strong blow BOB in 1 sec. (See gas flow chart) (Caught gas sample)
 FSI Weak blow Built to 2" in bucket



PRESSURE SUMMARY

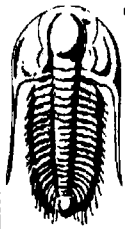
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1673.63	109.20	Initial Hydro-static
1	45.98	109.39	Open To Flow (1)
35	67.44	113.76	Shut-In(1)
62	420.20	118.68	End Shut-In(1)
62	48.04	111.07	Open To Flow (2)
133	195.26	116.74	Shut-In(2)
193	453.92	122.01	End Shut-In(2)
193	1636.30	121.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
215.00	SGCWM 10%G 5%W 85%M	1.63
0.00	3221' GIP	0.00
0.00		0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	8.00	8.38
Last Gas Rate	0.13	120.00	50.30
Max. Gas Rate	0.13	120.00	50.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hartman Oil Company

Maneth #1

12950 E 13th
Wichita KS 67230

22 18S 16W Rush KS

Job Ticket: 25405

DST#: 3

ATTN: Jim Musgrove

Test Start: 2006.08.22 @ 05:40:55

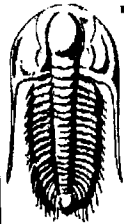
Tool Information

Drill Pipe:	Length: 3284.00 ft	Diameter: 3.80 inches	Volume: 46.07 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 152.00 ft	Diameter: 2.25 inches	Volume: 0.75 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 46.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3427.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	173.00 ft			
Tool Length:	193.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3412.00	
Hydraulic tool	5.00			3417.00	
Packer	5.00			3422.00	20.00 Bottom Of Top Packer
Packer	5.00			3427.00	
Stubb	1.00			3428.00	
Recorder	0.00	6752	Inside	3428.00	
Perforations	5.00			3433.00	
Change Over Sub	0.50			3433.50	
Blank Spacing	157.00			3590.50	
Change Over Sub	0.50			3591.00	
Perforations	6.00			3597.00	
Recorder	0.00	6074	Outside	3597.00	
Bullnose	3.00			3600.00	173.00 Bottom Packers & Anchor

Total Tool Length: 193.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hartman Oil Company

Maneth #1

12950 E 13th
Wichita KS 67230

22 18S 16W Rush KS

Job Ticket: 25405

DST#: 3

ATTN: Jim Musgrove

Test Start: 2006.08.22 @ 05:40:55

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 11.18 in³
Resistivity: ohm.m
Salinity: 3800.00 ppm
Filter Cake: 0.02 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
215.00	SGCWM 10%G 5%W 85%M	1.631
0.00	3221' GIP	0.000
0.00		0.000

Total Length: 215.00 ft Total Volume: 1.631 bbl

Num Fluid Samples: 0

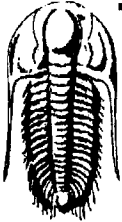
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Hartman Oil Company

Maneth #1

12950 E 13th
Wichita KS 67230

22 18S 16W Rush KS

Job Ticket: 25405

DST#: 3

ATTN: Jim Musgrove

Test Start: 2006.08.22 @ 05:40:55

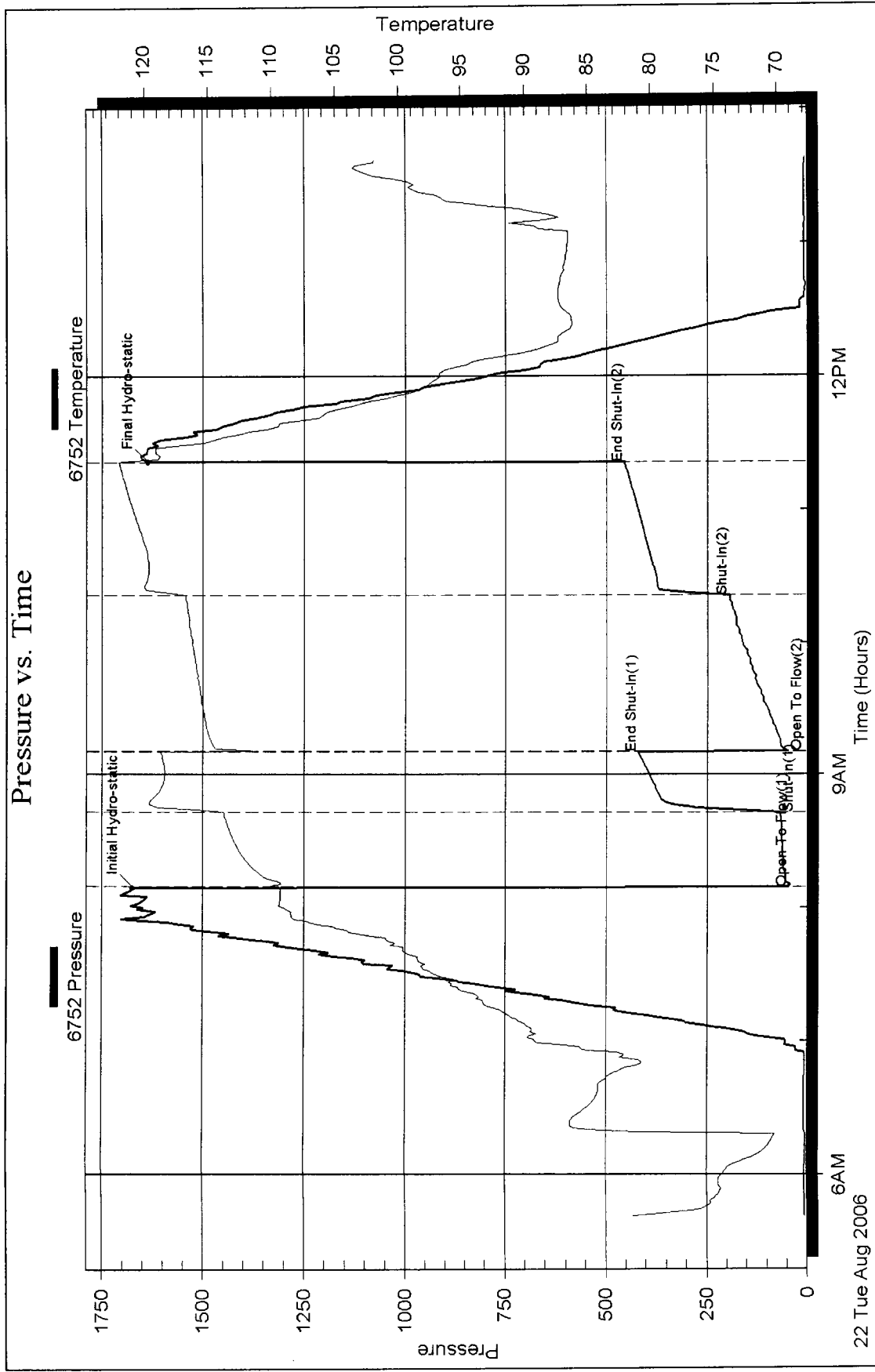
Gas Rates Information

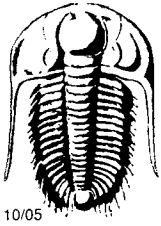
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	5	0.13	8.00	8.38
2	5	0.13	8.00	8.38
2	10	0.13	17.00	11.75
2	15	0.13	25.00	14.75
2	20	0.13	36.00	18.86
2	25	0.13	46.00	22.61
2	30	0.13	54.00	25.60
2	35	0.13	64.00	29.34
2	40	0.13	72.00	32.34
2	45	0.13	79.00	34.96
2	50	0.13	86.00	37.58
2	55	0.13	95.00	40.95
2	60	0.13	103.00	43.94
2	65	0.13	110.00	46.56
2	70	0.13	120.00	50.30

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

0183

25403

Test Ticket

Well Name & No. Maneth #1 Test No. 1 Date 08-21-06
 Company Hartman Oil Company Zone Tested Conglomerate Sand
 Address 12950 E. 13th Wichita Ks 67230 Elevation 1932 KB 1928 GL
 Co. Rep / Geo. Jim Musgrove Rig Murfin Rig 16
 Location: Sec. 22 Twp. 18^s Rge. 16^w Co. Rush State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3462-3600 Initial Str Wt./Lbs. 60⁰⁰⁰ Unseated Str Wt./Lbs. 670⁰⁰⁰
 Anchor Length 139 Wt. Set Lbs. 20⁰⁰⁰ Wt. Pulled Loose/Lbs. 64⁰⁰⁰
 Top Packer Depth 3456 Tool Weight 2000
 Bottom Packer Depth 3462 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3600 Wt. Pipe Run 2 Drill Collar Run 246
 Mud Wt. 9.1 LCM Q Vis. 45 WL 11.2 Drill Pipe Size 4 1/2 XH Ft. Run \$3197
 Blow Description Miscun: Packer Failure

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>M</u> Feet of _____	%gas _____	%oil _____	%water _____
Rec. <u>I</u> Feet of _____	%gas _____	%oil _____	%water _____
Rec. <u>S</u> Feet of _____	%gas _____	%oil _____	%water _____
Rec. <u>A</u> Feet of _____	%gas _____	%oil _____	%water _____
Rec. <u>U n</u> Feet of _____	%gas _____	%oil _____	%water _____

BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 3800 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1720</u> PSI	<u>1720</u> PSI	<u>6752</u>	Test <u>✓ Miscun 900</u>
(B) First Initial Flow Pressure	<u>M</u> PSI	<u>M</u> PSI	<u>3462</u>	Jars <u>NIL</u>
(C) First Final Flow Pressure	<u>I</u> PSI	<u>I</u> PSI	_____	Safety Jt. <u>NIL</u>
(D) Initial Shut-In Pressure	<u>S</u> PSI	<u>S</u> PSI	_____	Circ Sub <u>✓ NIL</u>
(E) Second Initial Flow Pressure	<u>A</u> PSI	<u>A</u> PSI	<u>6074</u>	Sampler <u>NIL</u>
(F) Second Final Flow Pressure	<u>U</u> PSI	<u>U</u> PSI	<u>3597</u>	Straddle <u>NIL</u>
(G) Final Shut-In Pressure	<u>n</u> PSI	<u>n</u> PSI	<u>1651</u>	Ext. Packer <u>NIL</u>
(Q) Final Hydrostatic Mud	<u>1700</u> PSI	<u>1700</u> PSI	<u>MT SARUN</u>	Shale Packer <u>NIL</u>

TRILOBITES TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED 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 _____ Our Representative Jim G... Thank You

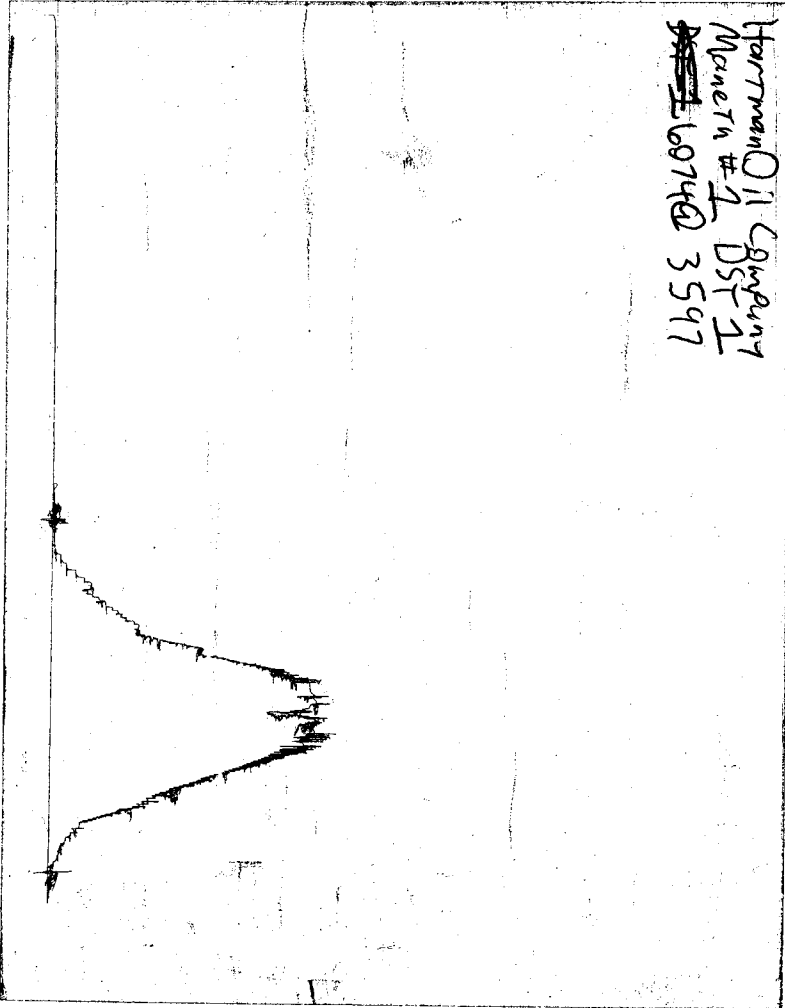
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 T-Started 1501
 T-Open 1651
 T-Pulled 1713
 T-Out 1930

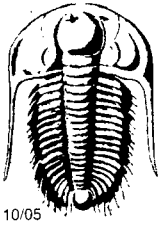
Mileage 150 187.50
 Sub Total: 1087.50
 Std. By _____
 Acc. Chg: _____
 Other: _____
 Total: _____

CHART PAGE

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

Hamman Oil Company
Meter # 1 DST 1
~~60740~~ 3597





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25404

Test Ticket

Well Name & No. Maneth #1 Test No. 2 Date 08-21-06
 Company Hartman Oil Company Zone Tested Conglomerate Sand
 Address 12950 E 13th Wichita ks 67230 Elevation 1932 KB 1928 GL
 Co. Rep / Geo. Jim Musgrove Rig Murfin Rig #16
 Location: Sec. 22 Twp. 18s Rge. 16w Co. Rush State KS
 Comment: _____ Release date / time: _____

Interval Tested 3423 3422-3600 Initial Str Wt./Lbs. 56⁰⁰⁰ Unseated Str Wt./Lbs. 64⁰⁰⁰
 Anchor Length 177 173 Wt. Set Lbs. 20⁰⁰⁰ Wt. Pulled Loose/Lbs. 70⁰⁰⁰
 Top Packer Depth _____ Tool Weight 2000
 Bottom Packer Depth _____ Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth _____ Wt. Pipe Run Q Drill Collar Run ~~3284~~ 152
 Mud Wt. 9.1 LCM Q Vis. 45 WL 11.2 Drill Pipe Size 4 1/2 XH Ft. Run 3284
 Blow Description MISRUN Packer Failure
DROP BAR

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>MP</u> Feet of _____	%gas _____	%oil _____	%water _____
Rec. <u>SRUN</u> Feet of _____	%gas _____	%oil _____	%water _____
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____
Rec. _____ Feet of _____	%gas _____	%oil _____	%water _____

BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 3800 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1696</u>	PSI	<u>6752</u>	Test ✓ <u>Misrun 900</u>
(B) First Initial Flow Pressure	<u>M</u>	PSI (depth)	<u>3428</u>	Jars <u>NIL</u>
(C) First Final Flow Pressure	<u>I</u>	PSI	_____	Safety Jt. <u>NIL</u>
(D) Initial Shut-In Pressure	<u>S</u>	PSI (depth)	_____	Circ Sub <u>✓ ATE *</u>
(E) Second Initial Flow Pressure	<u>R</u>	PSI	<u>6074</u>	Sampler <u>NIL</u>
(F) Second Final Flow Pressure	<u>N</u>	PSI (depth)	<u>3597</u>	Straddle <u>NIL</u>
(G) Final Shut-In Pressure	<u>N</u>	PSI	<u>MISRUN</u>	Ext. Packer <u>NIL</u>
(Q) Final Hydrostatic Mud	<u>1650</u>	PSI	_____	Shale Packer <u>NIL</u>

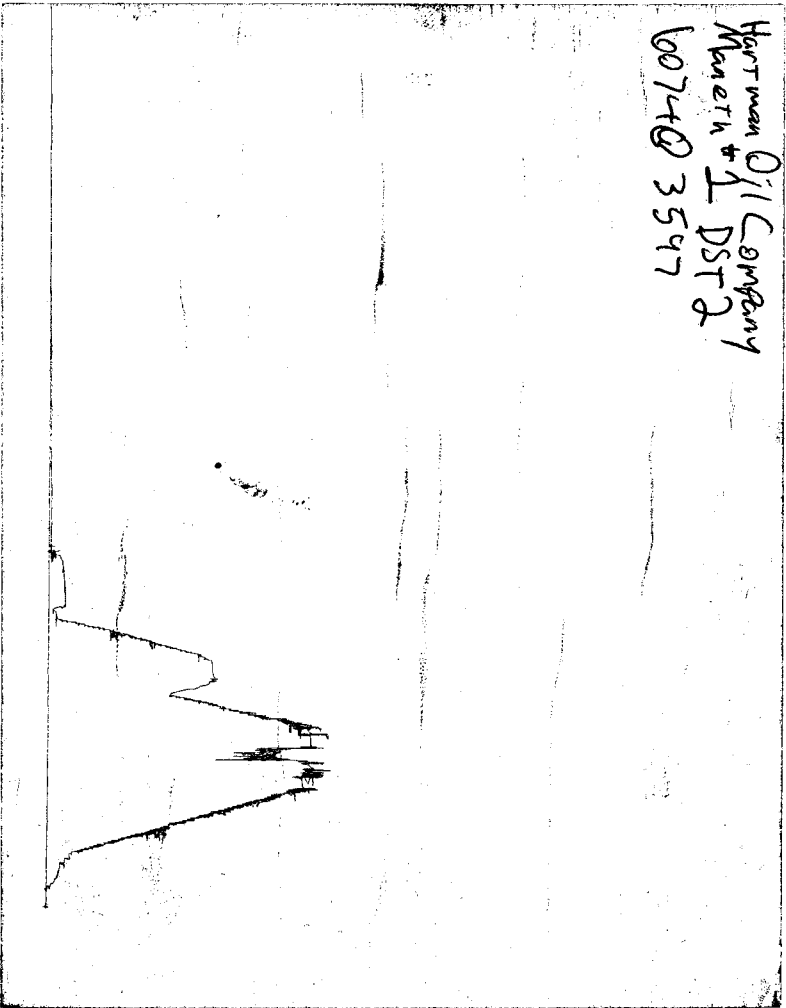
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

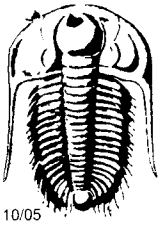
Approved By _____ T-Started 1943
 Our Representative Jim Musgrove T-Open 2119
 Thank You T-Pulled 2130
 T-Out 0015
 Sub Total: 900
 Std. By _____
 Acc. Chg: _____
 Other: _____
 Total: _____

CHART PAGE

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

Hartman Oil Company
Maretz #1 DST 2
60740 3597





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25405

Test Ticket

Well Name & No. Maneth #1 Test No. 3 Date 08-27-06
 Company Hartman Oil Company Zone Tested Conglomerate Sand
 Address 12950 E 13th Wichita Ks 67230 Elevation 1932 KB 1928 GL
 Co. Rep / Geo. Jim Musgrove Rig Murfin Rig #16
 Location: Sec. 22 Twp. 18s Rge. 16w Co. Rush State KS
 Comment: _____ Release date / time: _____

Interval Tested 3427-3600 Initial Str Wt./Lbs. 54000 Unseated Str Wt./Lbs. 45800
 Anchor Length 173 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 65000
 Top Packer Depth 3422 Tool Weight 2000
 Bottom Packer Depth 3427 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3600 Wt. Pipe Run 2 Drill Collar Run 152
 Mud Wt. 9.2 LCM 2 Vis. 46 WL 11.2 Drill Pipe Size 4 1/2 XH Ft. Run 3284

Blow Description IF: Strong blow. B.O.B. in 4 mins. GTS in 30 mins
FSI: Weak surface blow back.
FF: Strong blow. B.O.B. in 1 sec. (Caught gas sample.) (See gas flow chart.)
FSI: Weak blow back. Built to 2 in bucket.

Recovery - Total Feet 215 GIP 3221 Ft. in DC 152 Ft. in DP 63
 Rec. 215 Feet of SGCWM 10 %gas 0 %oil 5 %water 85 %mud
 Rec. _____ Feet of _____ %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 122.01 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 3800 ppm System

	AK-1	Alpine	PSI	Recorder No.	Test	
(A) Initial Hydrostatic Mud		1710		6752	✓	1100
(B) First Initial Flow Pressure		46		3428	N/C	
(C) First Final Flow Pressure		67			N/C	
(D) Initial Shut-In Pressure		420			✓	
(E) Second Initial Flow Pressure		48		6074	N/C	
(F) Second Final Flow Pressure		195		3597	N/C	
(G) Final Shut-In Pressure		454			✓	
(Q) Final Hydrostatic Mud		1668			✓	

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Approved By [Signature] T-Started 0541
 Our Representative [Signature] T-Open 0809
 T-Pulled 1123
 T-Out 1338

Initial Opening 0809
 Initial Shut-In 0843
 Final Flow 0910
 Final Shut-In 1021

T-On Location _____
 Sub Total: 114750
 Std. By _____
 Acc. Chg: _____
 Other: _____
 Total: _____

CHART PAGE

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

Hartman Oil Company
Mach # 2 DST3
6074 @ 3547

