

DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

14 12S 15W Russell

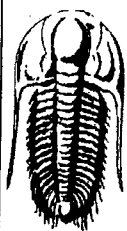
Haberer Unit #1

Start Date: 2006.07.31 @ 13:19:02

End Date: 2006.07.31 @ 19:58:15

Job Ticket #: 25198 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

Mai Oil Operations

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

Haberer Unit #1

14 12S 15W Russell

Job Ticket: 25198

DST#: 1

Test Start: 2006.07.31 @ 13:19:02

GENERAL INFORMATION:

Formation: **LKC "B & C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:12:00

Time Test Ended: 19:58:15

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **2811.00 ft (KB) To 2856.00 ft (KB) (TVD)**

Total Depth: 2856.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1637.00 ft (KB)

1632.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 205.74 psig @ 2816.01 ft (KB)

Start Date: 2006.07.31

End Date:

2006.07.31

Capacity: 7000.00 psig

Last Calib.: 2006.07.31

Start Time: 13:19:02

End Time:

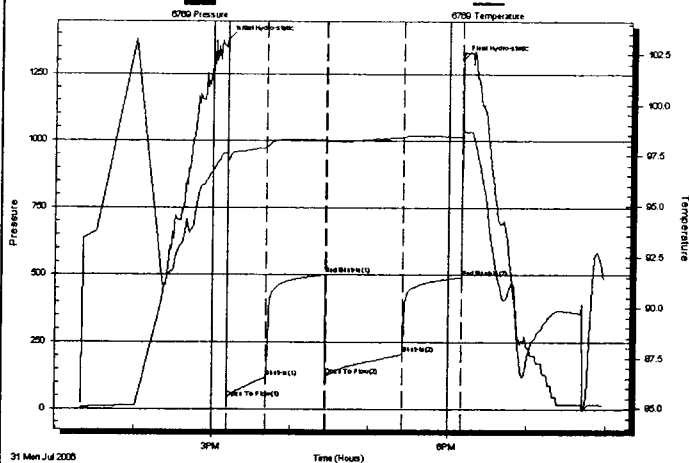
19:58:15

Time On Btm: 2006.07.31 @ 15:11:45

Time Off Btm: 2006.07.31 @ 18:10:45

TEST COMMENT: IFP BOB in 9 minutes
ISI 1 " blow back
FFP BOB in 10 minutes
FSI 3 " blow back

Pressure vs. Time



PRESSURE SUMMARY

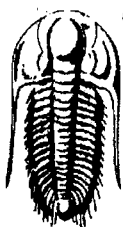
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1378.62	97.66	Initial Hydro-static
1	38.07	97.30	Open To Flow (1)
30	116.83	97.90	Shut-In (1)
75	501.13	98.29	End Shut-In (1)
75	123.96	98.21	Open To Flow (2)
134	205.74	98.37	Shut-In (2)
179	491.63	98.43	End Shut-In (2)
179	1304.83	98.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
312.00	MW 90%W 10%M	4.10
124.00	GMW 5%G 45%W 40 M	1.74
45.00	GWM 10%G 10%W 80%M	0.63
15.00	FREE OIL 20%G 75%O 5%M	0.21

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations

Haberer Unit #1

PO Box 33
Russell KS 67665

14 12S 15W Russell

Job Ticket: 25198

DST#: 1

ATTN: Kitt Noah

Test Start: 2006.07.31 @ 13:19:02

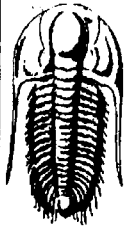
Tool Information

Drill Pipe:	Length: 2784.00 ft	Diameter: 3.80 inches	Volume: 39.05 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 44000.00 lb
		Total Volume:	39.20 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 37000.00 lb
Depth to Top Packer:	2811.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.02 ft			
Tool Length:	65.02 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			2796.00	
Hydraulic tool	5.00			2801.00	
Packer	5.00			2806.00	20.00 Bottom Of Top Packer
Packer	5.00			2811.00	
Stubb	1.00			2812.00	
Perforations	3.00			2815.00	
Change Over Sub	1.00			2816.00	
Recorder	0.01	6769	Inside	2816.01	
Blank Spacing	31.00			2847.01	
Change Over Sub	1.00			2848.01	
Perforations	5.00			2853.01	
Recorder	0.01	13548	Outside	2853.02	
Bullnose	3.00			2856.02	45.02 Bottom Packers & Anchor

Total Tool Length: 65.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations

Haberer Unit #1

PO Box 33
Russell KS 67665

14 12S 15W Russell

Job Ticket: 25198

DST#: 1

ATTN: Kitt Noah

Test Start: 2006.07.31 @ 13:19:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

38000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.93 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
312.00	MW 90%W 10%M	4.103
124.00	GMW 5%G 45%W 40 M	1.739
45.00	GWM 10%G 10%W 80%M	0.631
15.00	FREE OIL 20%G 75%O 5%M	0.210

Total Length:

496.00 ft

Total Volume:

6.683 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 310' GIP

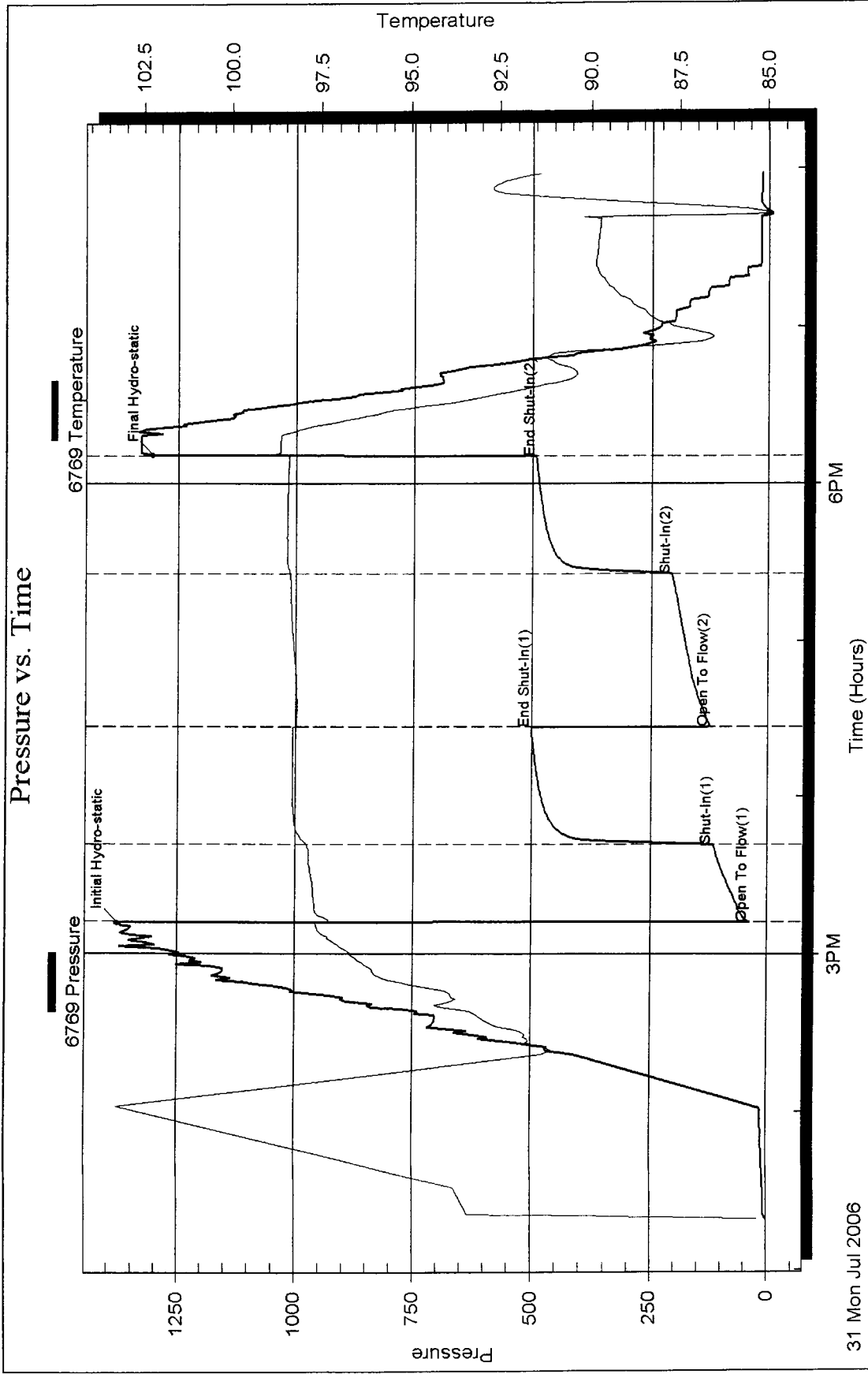
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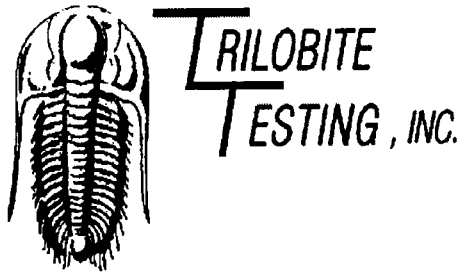
Inside

Mai Oil Operations

14 12S 15W Russell

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

14 12S 15W Russell

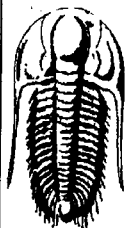
Haberer Unit #1

Start Date: 2006.08.01 @ 03:24:10

End Date: 2006.08.01 @ 09:30:53

Job Ticket #: 25199 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

Mai Oil Operations

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

Haberer Unit #1

14 12S 15W Russell

Job Ticket: 25199

DST#: 2

Test Start: 2006.08.01 @ 03:24:10

GENERAL INFORMATION:

Formation: **LKC "E-G"**

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

Time Tool Opened: 04:50:53

Time Test Ended: 09:30:53

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **24**

Interval: **2861.00 ft (KB) To 2906.00 ft (KB) (TVD)**

Total Depth: **2906.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **1637.00 ft (KB)**

1632.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 6769

Inside

Press@RunDepth: **201.56 psig @ 2866.01 ft (KB)**

Start Date: **2006.08.01**

End Date:

2006.08.01

Capacity: **7000.00 psig**

Last Calib.: **2006.08.01**

Start Time: **03:24:10**

End Time:

09:30:53

Time On Btm: **2006.08.01 @ 04:50:08**

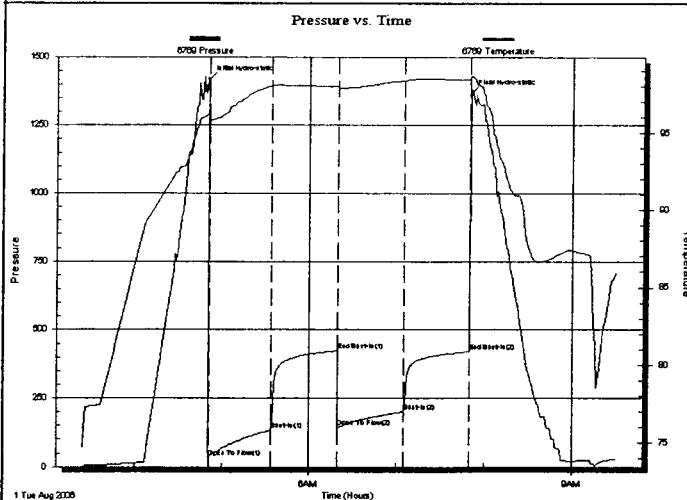
Time Off Btm: **2006.08.01 @ 07:50:23**

TEST COMMENT: **IFP BOB in 7 minutes**

ISI 1/4 " blow back died in 30 min

FFP BOB in 13 minutes

FSI 2 " blow back died to 1/4 "



PRESSURE SUMMARY

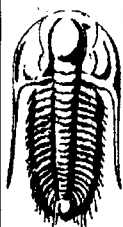
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1418.49	96.19	Initial Hydro-static
1	36.10	95.84	Open To Flow (1)
45	133.06	98.05	Shut-In(1)
90	423.19	97.99	End Shut-In(1)
90	142.81	97.90	Open To Flow (2)
135	201.56	98.38	Shut-In(2)
180	420.12	98.43	End Shut-In(2)
181	1366.17	98.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 90%W 10%M	1.41
180.00	MW 70%W 30%M	2.52
80.00	WM 30%W 70%M	1.12
20.00	FREE OIL 2%G 3%M 90%O	0.28

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations

Haberer Unit #1

PO Box 33
Russell KS 67665

14 12S 15W Russell

Job Ticket: 25199

DST#: 2

ATTN: Kitt Noah

Test Start: 2006.08.01 @ 03:24:10

Tool Information

Drill Pipe:	Length: 2823.00 ft	Diameter: 3.80 inches	Volume: 39.60 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 46000.00 lb
		Total Volume:	39.75 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	2861.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.02 ft			
Tool Length:	65.02 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			2846.00	
Hydraulic tool	5.00			2851.00	
Packer	5.00			2856.00	20.00 Bottom Of Top Packer
Packer	5.00			2861.00	
Stubb	1.00			2862.00	
Perforations	3.00			2865.00	
Change Over Sub	1.00			2866.00	
Recorder	0.01	6769	Inside	2866.01	
Blank Spacing	31.00			2897.01	
Change Over Sub	1.00			2898.01	
Perforations	5.00			2903.01	
Recorder	0.01	13548	Outside	2903.02	
Bullnose	3.00			2906.02	45.02 Bottom Packers & Anchor

Total Tool Length: 65.02



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DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations

Haberer Unit #1

PO Box 33
Russell KS 67665

14 12S 15W Russell

Job Ticket: 25199

DST#: 2

ATTN: Kitt Noah

Test Start: 2006.08.01 @ 03:24:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

38000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.91 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 90%W 10%M	1.410
180.00	MW 70%W 30%M	2.525
80.00	WM 30%W 70%M	1.122
20.00	FREE OIL 2%G 3%M 90%O	0.281

Total Length: 400.00 ft

Total Volume: 5.338 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

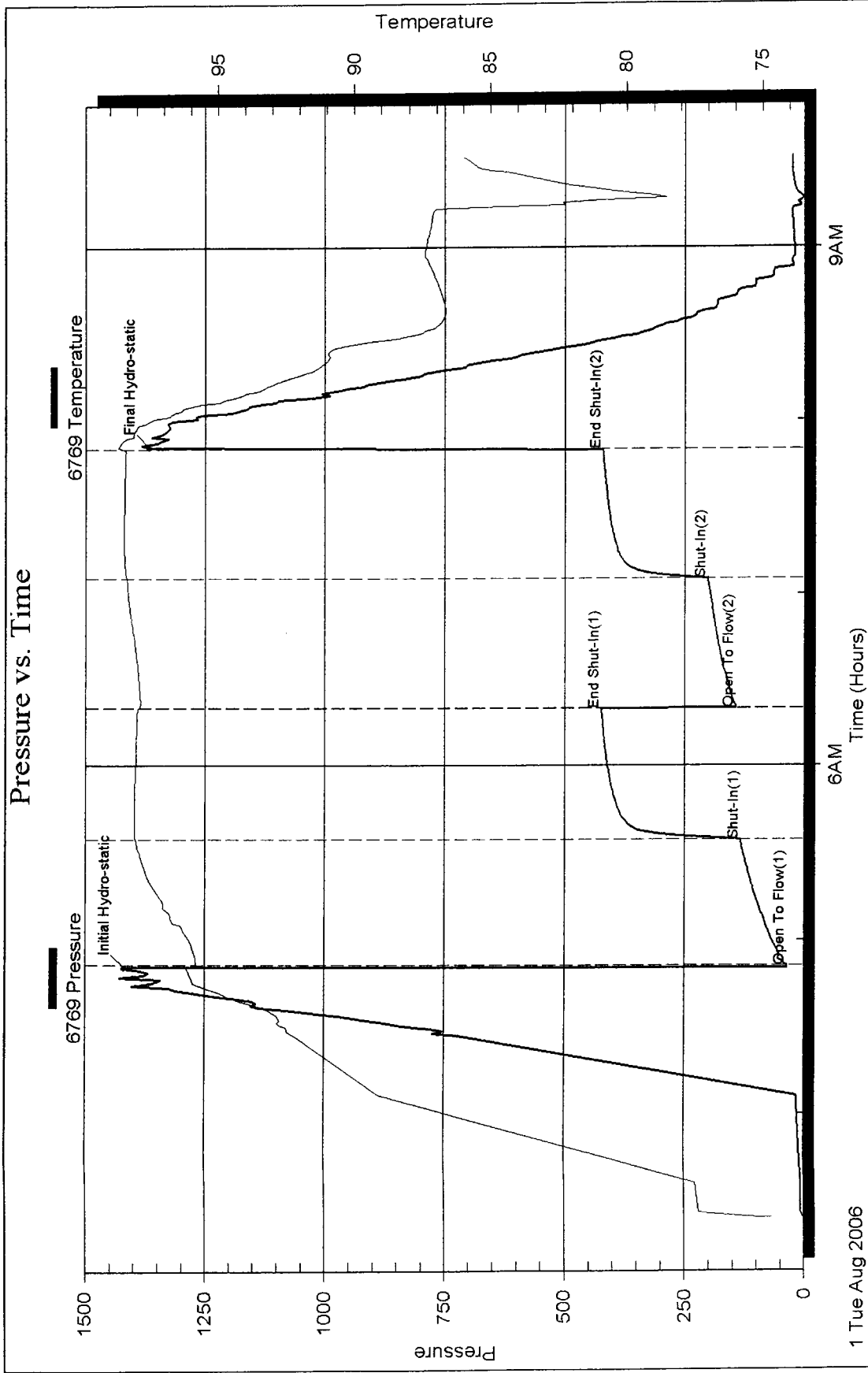
Serial #:

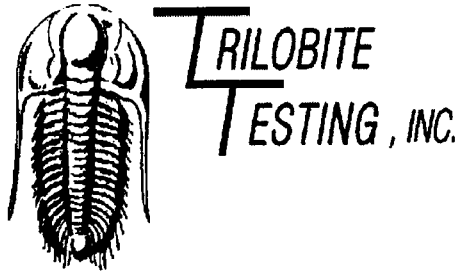
Laboratory Name:

Laboratory Location:

Recovery Comments: 230' GIP

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

14 12S 15W Russell

Haberer Unit #1

Start Date: 2006.08.01 @ 19:40:17

End Date: 2006.08.02 @ 02:08:30

Job Ticket #: 25200 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Mai Oil Operations

Haberer Unit #1

14 12S 15W Russell

DST # 3

LKC "H-J"

2006.08.01



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

Haberer Unit #1

14 12S 15W Russell

Job Ticket: 25200

DST#: 3

Test Start: 2006.08.01 @ 19:40:17

GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:25:45

Time Test Ended: 02:08:30

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **2930.00 ft (KB) To 2995.00 ft (KB) (TVD)**

Total Depth: 2995.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1637.00 ft (KB)

1632.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769

Inside

Press@RunDepth: 281.28 psig @ 2935.01 ft (KB)

Start Date: 2006.08.01

End Date:

2006.08.02

Start Time: 19:40:17

End Time:

02:08:30

Capacity: 7000.00 psig

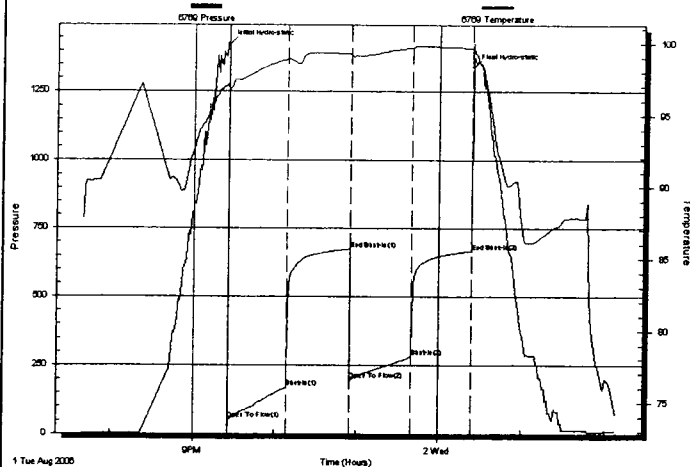
Last Calib.: 2006.08.02

Time On Btm: 2006.08.01 @ 21:25:30

Time Off Btm: 2006.08.02 @ 00:24:15

TEST COMMENT: IFP BOB in 7 min
ISI No blow back
FFP BOB in 12 min
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1425.55	97.13	Initial Hydro-static
1	51.31	96.69	Open To Flow (1)
44	169.90	98.89	Shut-In (1)
90	675.10	99.26	End Shut-In (1)
90	198.19	99.10	Open To Flow (2)
135	281.28	99.67	Shut-In (2)
179	667.83	99.67	End Shut-In (2)
179	1340.98	100.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M 100%	0.05
420.00	MW 80%W 20%M	5.71
120.00	WM 30%W 70%M	1.68
105.00	WM 5%W 95%M	1.47

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations

Haberer Unit #1

PO Box 33
Russell KS 67665

14 12S 15W Russell

Job Ticket: 25200

DST#: 3

ATTN: Kitt Noah

Test Start: 2006.08.01 @ 19:40:17

Tool Information

Drill Pipe:	Length: 2885.00 ft	Diameter: 3.80 inches	Volume: 40.47 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume: 40.62 bbl		Tool Chased 1.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	2930.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.02 ft			
Tool Length:	85.02 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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Shut In Tool	5.00			2915.00	
Hydraulic tool	5.00			2920.00	
Packer	5.00			2925.00	20.00 Bottom Of Top Packer
Packer	5.00			2930.00	
Stubb	1.00			2931.00	
Perforations	3.00			2934.00	
Change Over Sub	1.00			2935.00	
Recorder	0.01	6769	Inside	2935.01	
Blank Spacing	31.00			2966.01	
Change Over Sub	1.00			2967.01	
Perforations	25.00			2992.01	
Recorder	0.01	13548	Outside	2992.02	
Bullnose	3.00			2995.02	65.02 Bottom Packers & Anchor

Total Tool Length: 85.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations

Haberer Unit #1

PO Box 33
Russell KS 67665

14 12S 15W Russell

Job Ticket: 25200

DST#: 3

ATTN: Kitt Noah

Test Start: 2006.08.01 @ 19:40:17

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:

27000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M 100%	0.049
420.00	MW 80%W 20%M	5.709
120.00	WM 30%W 70%M	1.683
105.00	WM 5%W 95%M	1.473

Total Length: 655.00 ft

Total Volume: 8.914 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

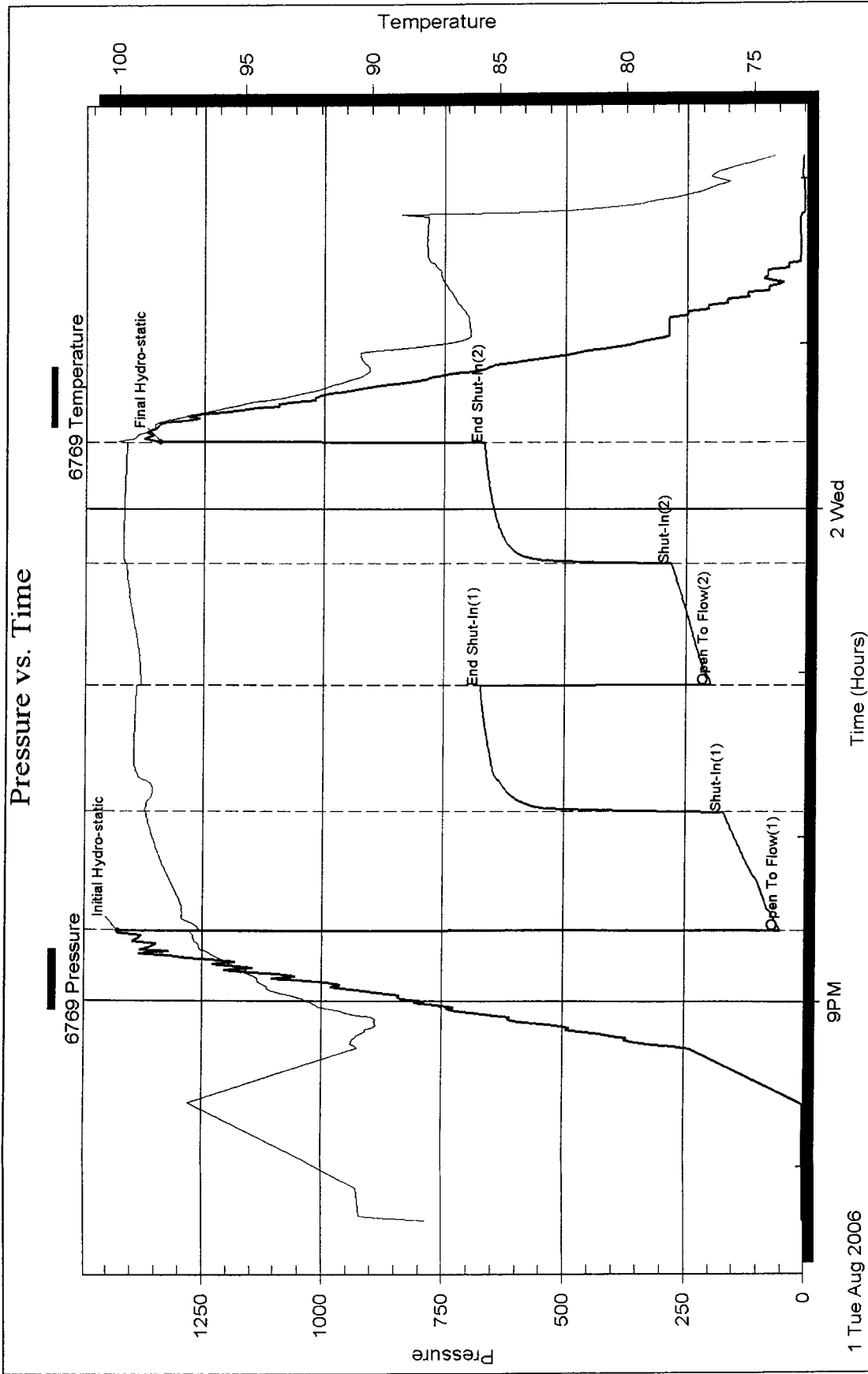
Serial #: 6769

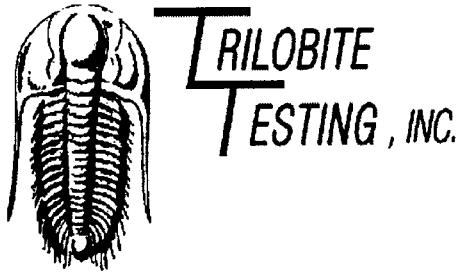
Inside

Mai Oil Operations

14 12S 15W Russell

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

14 12S 15W Russell

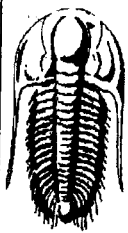
Haberer Unit #1

Start Date: 2006.08.02 @ 12:38:54

End Date: 2006.08.02 @ 18:30:09

Job Ticket #: 25301 DST #: 4

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



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DRILL STEM TEST REPORT

Mai Oil Operations

PO Box 33
Russell KS 67665

ATTN: Kitt Noah

Haberer Unit #1

14 12S 15W Russell

Job Ticket: 25301

DST#: 4

Test Start: 2006.08.02 @ 12:38:54

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:13:09

Time Test Ended: 18:30:09

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **3052.00 ft (KB) To 3093.00 ft (KB) (TVD)**

Total Depth: 2856.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1637.00 ft (KB)

1632.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6769 Inside

Press@RunDepth: 132.94 psig @ 3061.01 ft (KB)

Start Date: 2006.08.02

End Date: 2006.08.02

Start Time: 12:38:56

End Time: 18:30:09

Capacity: 7000.00 psig

Last Calib.: 2006.08.02

Time On Btm: 2006.08.02 @ 14:12:24

Time Off Btm: 2006.08.02 @ 16:42:39

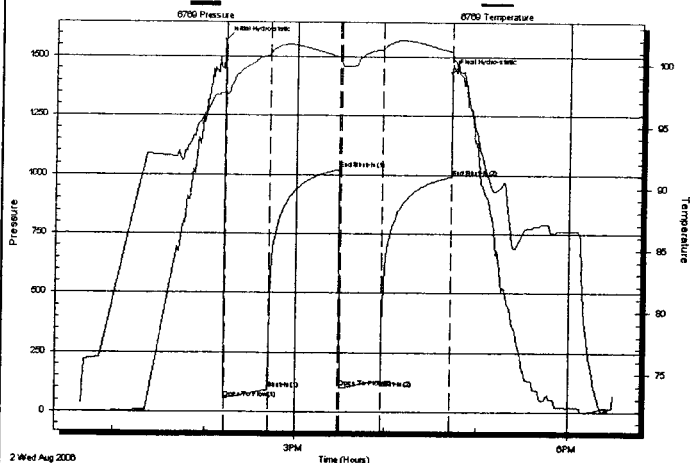
TEST COMMENT: IFP BOB in 15 min

ISI Weak blow throughout surface to 1/4 " died in 27 min

FFP No blow for 4 min built to BOB in 30 min

FSI No blow back for 15 min weak surface blow died in 15 min

Pressure vs. Time



PRESSURE SUMMARY

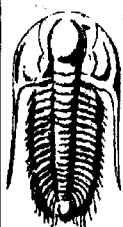
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1570.65	97.85	Initial Hydro-static
1	54.26	97.51	Open To Flow (1)
30	93.15	100.82	Shut-In (1)
77	1021.72	100.61	End Shut-In (1)
78	101.23	100.19	Open To Flow (2)
105	132.94	101.23	Shut-In (2)
150	992.20	101.11	End Shut-In (2)
151	1434.19	101.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSOCM 95% M 5% O	0.57
30.00	SOCM 90% M 10% O	0.42
160.00	FREE OIL 10% G 90% O	2.24

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations

Haberer Unit #1

PO Box 33
Russell KS 67665

14 12S 15W Russell

Job Ticket: 25301

DST#: 4

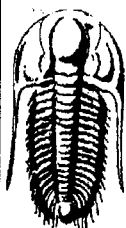
ATTN: Kitt Noah

Test Start: 2006.08.02 @ 12:38:54

Tool Information

Drill Pipe:	Length: 3010.00 ft	Diameter: 3.80 inches	Volume: 42.22 bbl	Tool Weight:	2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	52000.00 lb
			Total Volume: 42.37 bbl	Tool Chased	3.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	39000.00 lb
Depth to Top Packer:	3052.00 ft			Final	43000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	41.02 ft				
Tool Length:	61.02 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			3037.00	
Hydraulic tool	5.00			3042.00	
Packer	5.00			3047.00	20.00 Bottom Of Top Packer
Packer	5.00			3052.00	
Stubb	1.00			3053.00	
Perforations	8.00			3061.00	
Recorder	0.01	6769	Inside	3061.01	
Perforations	29.00			3090.01	
Recorder	0.01	13548	Outside	3090.02	
Bullnose	3.00			3093.02	41.02 Bottom Packers & Anchor
Total Tool Length:	61.02				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Mai Oil Operations

Haberer Unit #1

PO Box 33
Russell KS 67665

14 12S 15W Russell

Job Ticket: 25301

DST#: 4

ATTN: Kitt Noah

Test Start: 2006.08.02 @ 12:38:54

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

26 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	VSOCM 95%M 5% O	0.568
30.00	SOCM 90%M 10%O	0.421
160.00	FREE OIL 10%G 90%O	2.244

Total Length: 250.00 ft

Total Volume: 3.233 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

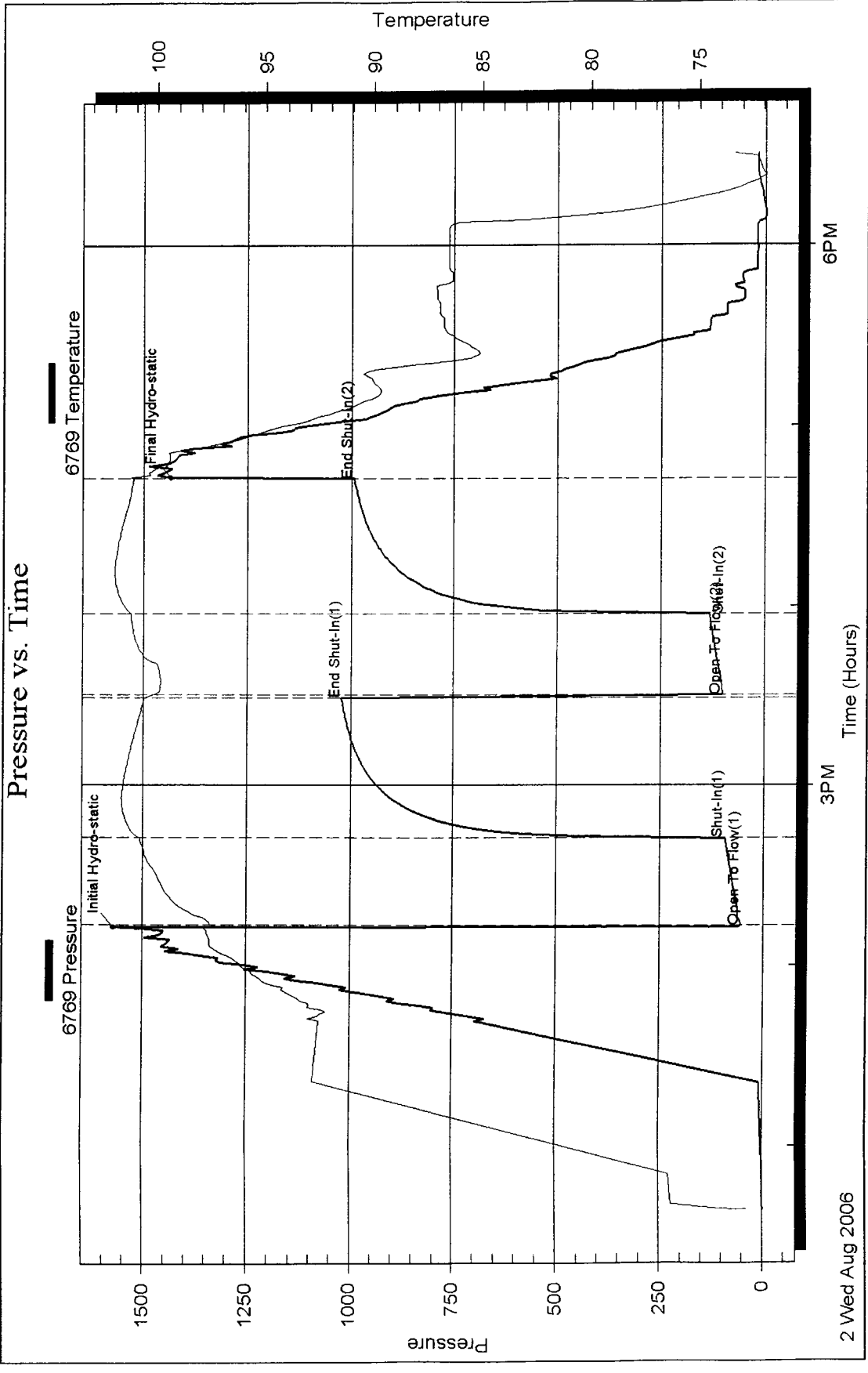
Serial #: 6769

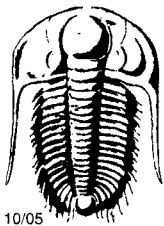
Inside

Mai Oil Operations

14 12S 15W Russell

DST Test Number: 4





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9072

25198

Test Ticket

Well Name & No. Haberer Unit #1 Test No. 1 Date 7/31/04
 Company Man Oil Operations, Inc Zone Tested LKC "B+C"
 Address P.O. Box 33 Russell, KS 67665 Elevation 1637 KB 1632 GL
 Co. Rep / Geo. Kirt Noah Rig Mu-fin 16
 Location: Sec. 14 Twp. 12^s Rge. 15^w Co. Russell State KS
 Comment: _____ Release date / time: _____

Interval Tested 2811 - 2856 Initial Str Wt./Lbs. 37,000 Unseated Str Wt./Lbs. 40,000
 Anchor Length 45' Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 44,000
 Top Packer Depth 2806 Tool Weight 2500
 Bottom Packer Depth 2811 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 2856 Wt. Pipe Run _____ Drill Collar Run 30'
 Mud Wt. 9.2 LCM 80 Vis. 47 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 2784

Blow Description IEP - BOB in 9 min
ISI - 1" blow back
FFP - BOB in 10 min
FST - 3" blow back

Recovery - Total Feet 496 GIP 310 Ft. in DC 30 Ft. in DP 466
 Rec. 15 Feet of Free oil 20 %gas 75 %oil %water 5 %mud
 Rec. 45 Feet of GWM 10 %gas %oil 10 %water 80 %mud
 Rec. 124 Feet of GMW 5 %gas %oil 45 %water 40 %mud
 Rec. 312 Feet of MW %gas %oil 90 %water 10 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT _____ °F Gravity 37 °API D @ 80° °F Corrected Gravity 35 °API
 RW ,105 @ 98 °F Chlorides 11000 ppm Recovery _____ Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud <u>1362</u>	AK-1	Alpine	PSI	Recorder No. <u>6769</u>	Test <u>✓ 1000</u>
(B) First Initial Flow Pressure <u>38</u>			PSI	(depth) <u>2816</u>	Jars _____
(C) First Final Flow Pressure <u>117</u>			PSI	Recorder No. <u>13548</u>	Safety Jt. _____
(D) Initial Shut-In Pressure <u>501</u>			PSI	(depth) <u>2853</u>	Circ Sub _____
(E) Second Initial Flow Pressure <u>124</u>			PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure <u>206</u>			PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure <u>492</u>			PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud <u>1329</u>			PSI	Initial Shut-In <u>45</u>	Shale Packer _____

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Approved By Kirt Noah
 Our Representative Brian Fairbank Thab

Final Flow 60
 Final Shut-In 45
 T-On Location 12:15
 T-Started 13:19
 T-Open 15:11
 T-Pulled 18:11
 T-Out 1958
 Ruined Packer _____
 Mileage ✓ Art 98.75
 Sub Total: 1
 Std. By _____
 Acc. Chg: _____
 Other: _____
 Total: _____

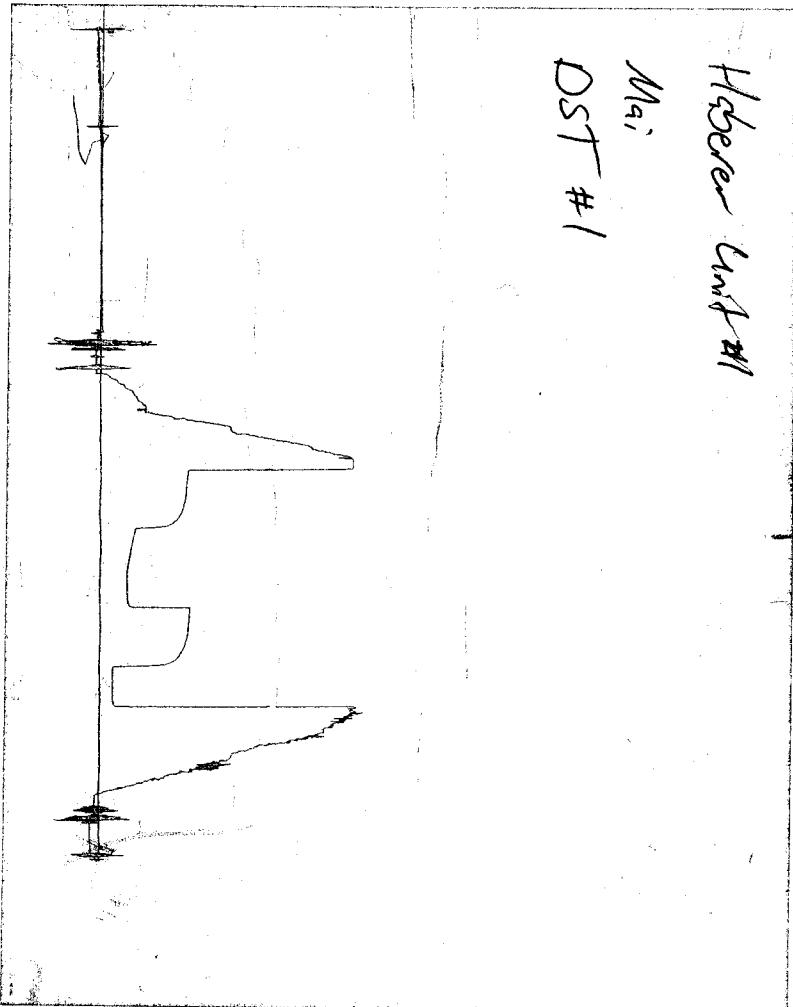
CHART PAGE

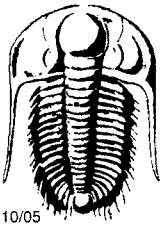
This is a photocopy of the actual AK-1 recorder chart.

Hydrex Unit #1

Mai

DST #1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25199

Test Ticket

Well Name & No. <u>Haberer Unit #1</u>	Test No. <u>2</u>	Date <u>8/1/04</u>
Company <u>Maw</u>	Zone Tested <u>LKC "E+G"</u>	
Address <u>P.O. Box 33 Russell, KS 67665</u>	Elevation <u>1637</u> KB <u>1632</u> GL	
Co. Rep / Geo. <u>Kitt Noah</u>	Rig	
Location: Sec. <u>14</u> Twp. <u>12^s</u> Rge. <u>15^w</u>	Co. <u>Russell</u>	State <u>KS</u>
Comment:	Release date / time:	

Interval Tested <u>2861 - 2906</u>	Initial Str Wt./Lbs. <u>38000</u>	Unseated Str Wt./Lbs. <u>41000</u>
Anchor Length <u>45'</u>	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>44000</u>
Top Packer Depth <u>2854</u>	Tool Weight <u>2500</u>	
Bottom Packer Depth <u>2861</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>2906</u>	Wt. Pipe Run	Drill Collar Run <u>30'</u>
Mud Wt. <u>9.2</u> LCM <u>—</u> Vis. <u>47</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>2823</u>

Blow Description IFP - BOB in 7 min
ISI - 1/4 in. blow back died in 30 min
FFP - BOB in 13 min
FSI - 2 in blow back died to 1/4 in

Recovery - Total Feet <u>400</u>	GIP <u>230</u>	Ft. in DC <u>30</u>	Ft. in DP <u>370</u>
Rec. <u>20</u>	Feet of <u>Free oil</u>	2 %gas <u>95%</u> oil	%water <u>3</u> %mud
Rec. <u>80</u>	Feet of <u>WM</u>	%gas	%oil <u>30</u> %water <u>70</u> %mud
Rec. <u>180</u>	Feet of <u>MW</u>	%gas	%oil <u>70</u> %water <u>30</u> %mud
Rec. <u>120</u>	Feet of <u>MW</u>	%gas	%oil <u>90</u> %water <u>10</u> %mud
Rec.	Feet of	%gas	%oil
BHT <u>98</u>	°F Gravity <u>41</u>	°API D @ <u>90</u>	°F Corrected Gravity <u>38</u> °API
RW <u>.154</u> @ <u>83</u>	°F Chlorides	ppm Recovery <u>38,000</u>	Chlorides <u>7600</u> ppm System

(A) Initial Hydrostatic Mud <u>1347</u>	PSI	Recorder No. <u>6769</u>	Test <u>✓ 1000</u>
(B) First Initial Flow Pressure <u>36</u>	PSI	(depth) <u>2866</u>	Jars
(C) First Final Flow Pressure <u>133</u>	PSI	Recorder No. <u>13548</u>	Safety Jt.
(D) Initial Shut-In Pressure <u>423</u>	PSI	(depth) <u>2905</u>	Circ Sub
(E) Second Initial Flow Pressure <u>143</u>	PSI	Recorder No.	Sampler
(F) Second Final Flow Pressure <u>202</u>	PSI	(depth)	Straddle
(G) Final Shut-In Pressure <u>420</u>	PSI	Initial Opening <u>45</u>	Ext. Packer
(Q) Final Hydrostatic Mud <u>1332</u>	PSI	Initial Shut-In <u>45</u>	Shale Packer

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Final Flow <u>45</u>	T-On Location <u>03:18</u>	Sub Total: <u>1.1</u>
Final Shut-In <u>45</u>	T-Started <u>03:24</u>	Std. By <u>—</u>
	T-Open <u>04:51</u>	Acc. Chg: <u>—</u>
	T-Pulled <u>0751</u>	Other: <u>—</u>
	T-Out <u>0931</u>	Total: <u>—</u>

Approved By Brian Fairbank (Habs)

Our Representative Brian Fairbank (Habs)

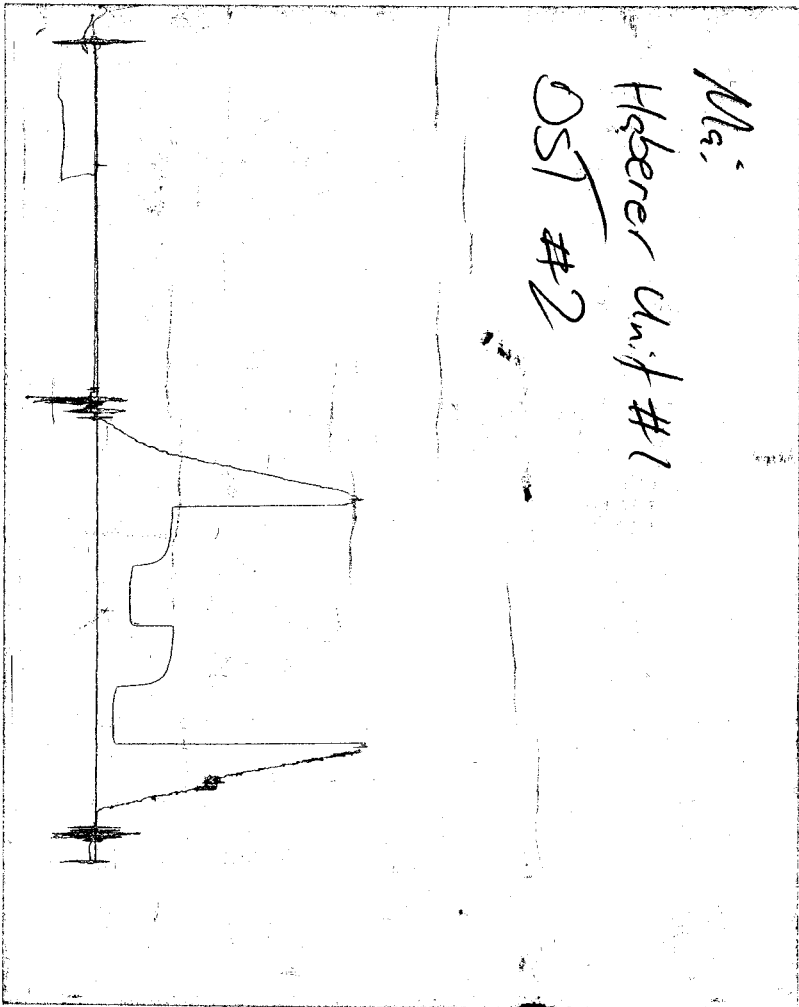
CHART PAGE

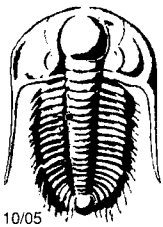
This is a photocopy of the actual AK-1 recorder chart.

Me.

Haberer Unit #1

OST #2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25200

Test Ticket

Well Name & No. Haberer Unit #1 Test No. 3 Date 8-1-06
Company Mai Oil Operations, Inc Zone Tested LKC "H-J"
Address P.O. Box 33 Russell, KS 67665 Elevation 1637 KB 1632 GL
Co. Rep / Geo. Kitt Noah Rig Munich 16
Location: Sec. 14 Twp. 12^s Rge. 15^w Co. Russell State KS
Comment: _____ Release date / time: _____

Interval Tested 2930 - 2995 Initial Str Wt./Lbs. 38000 Unseated Str Wt./Lbs. 42000
Anchor Length 65' Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 55000
Top Packer Depth 2925 Tool Weight 2500
Bottom Packer Depth 2930 Hole Size 7 7/8" Rubber Size 6 3/4"
Total Depth 2995 Wt. Pipe Run _____ Drill Collar Run 30'
Mud Wt. 9.2 LCM _____ Vis. 50 WL 8.4 Drill Pipe Size 4 1/2 x H Ft. Run 2885

Blow Description IFP - BOB in 7 min

ISI - no blow back

FFP - BOB in 12 min

FSI - no blow back

Recovery - Total Feet 655 GIP _____ Ft. in DC 30 Ft. in DP 625
Rec. 105 Feet of WM %gas _____ %oil _____ %water 5 %mud 95
Rec. 120 Feet of WM %gas _____ %oil _____ %water 30 %mud 70
Rec. 420 Feet of MW %gas _____ %oil _____ %water 80 %mud 20
Rec. 10 Feet of mud %gas _____ %oil _____ %water 100 %mud
Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
BHT 100 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
RW .203 @ 77 °F Chlorides _____ ppm Recovery 27,000 Chlorides 8000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1365</u> PSI		<u>6769</u>	<u>✓ 1000. -</u>
(B) First Initial Flow Pressure	<u>51</u> PSI		<u>2935</u>	Jars _____
(C) First Final Flow Pressure	<u>170</u> PSI		<u>13548</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>675</u> PSI		<u>2992</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>198</u> PSI			Sampler _____
(F) Second Final Flow Pressure	<u>281</u> PSI			Straddle _____
(G) Final Shut-In Pressure	<u>668</u> PSI	Initial Opening	<u>2125 45</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1358</u> PSI	Initial Shut-In	<u>45</u>	Shale Packer _____

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Approved By _____

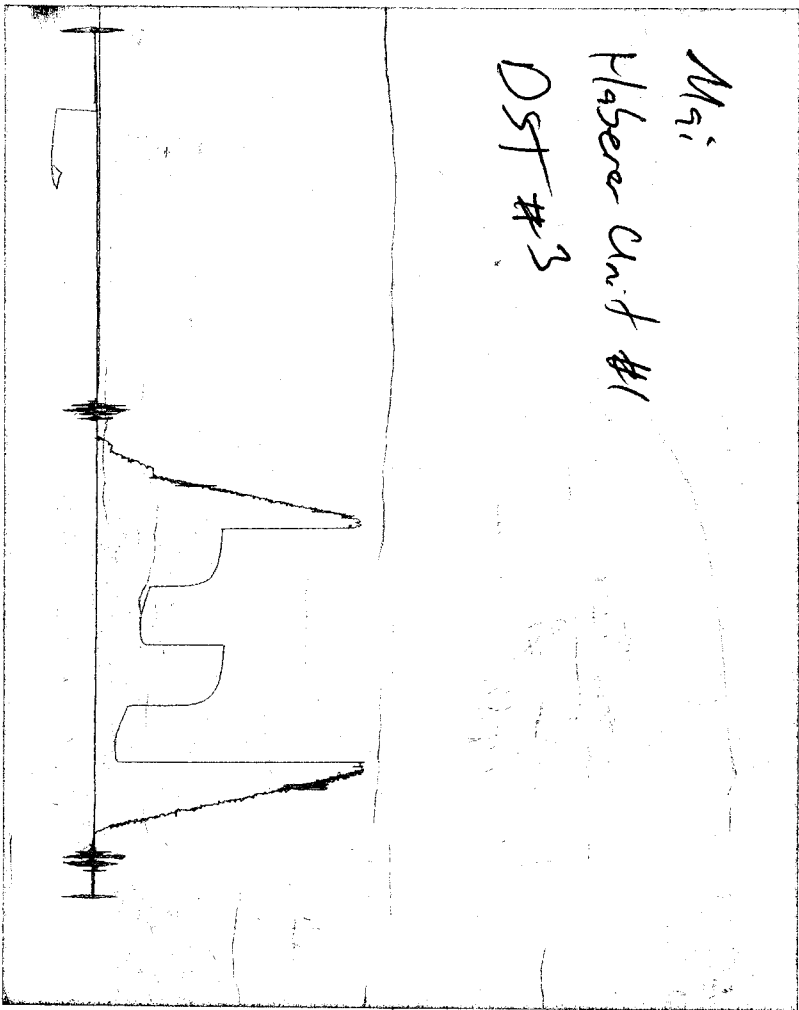
Our Representative Brian Fairbank (John)

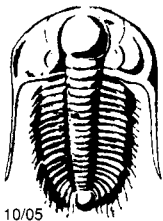
Final Flow 45
Final Shut-In 45
T-On Location 19:17
T-Started 19:40
T-Open 21:25
T-Pulled 00:25
T-Out 02:08

Mileage ✓ 98.75 79.75
Sub Total: 1098.75
Std. By _____
Acc. Chg: _____
Other: _____
Total: _____

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25301

Test Ticket

Well Name & No. Haberer Unit #1 Test No. 4 Date 8/2/06
 Company Mar Oil Operations, Inc Zone Tested Arbuckle
 Address P.O. Box 33 Russell, KS 67665 Elevation 1637 KB 1632 GL
 Co. Rep / Geo. Kitt Noah Rig Murfin 16
 Location: Sec. 14 Twp. 12S Rge. 15W Co. Russell State KS
 Comment: _____ Release date / time: _____

Interval Tested 3052 - 3093 Initial Str Wt./Lbs. 39000 Unseated Str Wt./Lbs. 43000
 Anchor Length 41' Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 52000
 Top Packer Depth 3047 Tool Weight 2500
 Bottom Packer Depth 3052 Hole Size 7 7/8" _____ Rubber Size 6 3/4" _____
 Total Depth 3093 Wt. Pipe Run _____ Drill Collar Run 30'
 Mud Wt. 9.1 LCM _____ Vis. 48 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 3010'
 Blow Description IFP - BOB in 15 min

ISI - weak blow throughout, surface to 1/4" died in 27 min

FFP - no blow for 4 min built to BOB in 30 min

FSI - no blow back for 15 min, weak surface blow died in 15 min

Recovery - Total Feet 250 GIP 45 Ft. in DC 30 Ft. in DP 220
 Rec. 160 Feet of Free oil 10 %gas 90 %oil %water %mud
 Rec. 30 ft Feet of 50CM %gas 10 %oil %water 90 %mud
 Rec. 60 ft Feet of VSOCM %gas 5 %oil %water 95 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 101 °F Gravity 28 °API D @ 80 °F Corrected Gravity 26 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 10000 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1453	PSI	Recorder No.	6769	Test	✓ 1000
(B) First Initial Flow Pressure			54	PSI	(depth)	3061	Jars	
(C) First Final Flow Pressure			93	PSI	Recorder No.	13548	Safety Jt.	
(D) Initial Shut-In Pressure			1022	PSI	(depth)	3090	Circ Sub	
(E) Second Initial Flow Pressure			101	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			133	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			992	PSI	Initial Opening	30	Ext. Packer	
(Q) Final Hydrostatic Mud			1426	PSI	Initial Shut-In	45	Shale Packer	

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Final Flow 30
 Final Shut-In 45
 T-On Location 12:34
 T-Started 12:38
 T-Open 14:12
 T-Pulled 16:42
 T-Out 18:29
 Mileage ✓ 98.75 79.00
 Sub Total: 1098.75
 Std. By _____
 Acc. Chg: _____
 Other: _____
 Total: _____

Approved By

Our Representative

[Signature]
[Signature]

CHART PAGE

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

Psi

Habers Unit #1

DST #4

