

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

PO Box 48788
Wichita KS 67201

ATTN: Kim Shoemaker

5 17 29W Lane KS

Munsell #1

Start Date: 2007.02.04 @ 13:51:56

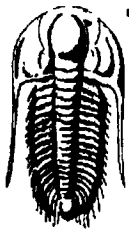
End Date: 2007.02.04 @ 21:00:39

Job Ticket #: 25988 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

Raymond Oil Company

PO Box 48788
Wichita KS 67201

ATTN: Kim Shoemaker

Munsell #1

5 17 29W Lane KS

Job Ticket: 25988

DST#: 1

Test Start: 2007.02.04 @ 13:51:56

GENERAL INFORMATION:

Formation: **LKC, H**

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

Time Tool Opened: 15:53:54

Time Test Ended: 21:00:39

Test Type: **Conventional Bottom Hole**

Tester: **Michael Shinn**

Unit No: **1**

Interval: **4103.00 ft (KB) To 4133.00 ft (KB) (TVD)**

Total Depth: **4133.00 ft (KB) (TVD)**

Hole Diameter: **7.80 inches** Hole Condition: **Fair**

Reference Elevations: **2824.00 ft (KB)**

2819.00 ft (CF)

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

Serial #: 6672

Inside

Press@RunDepth: **198.55 psig @ 4103.00 ft (KB)**

Start Date: **2007.02.04**

End Date:

2007.02.04

Capacity: **7000.00 psig**

Last Calib.: **2007.02.05**

Start Time: **13:51:56**

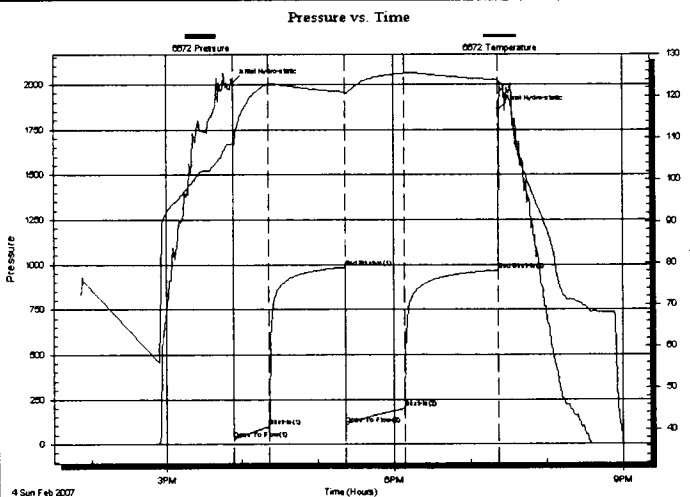
End Time:

21:00:39

Time On Btm: **2007.02.04 @ 15:53:39**

Time Off Btm: **2007.02.04 @ 19:22:24**

TEST COMMENT: IF BOB in 10 min.
IS Return blow to 2 in.
FF BOB in 11 min.
ISI Return blow to 3 1/4 in.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.71	108.66	Initial Hydro-static
1	27.50	108.25	Open To Flow (1)
29	98.21	122.92	Shut-In (1)
89	983.69	120.96	End Shut-In (1)
89	108.14	120.67	Open To Flow (2)
135	198.55	125.44	Shut-In (2)
209	966.71	123.85	End Shut-In (2)
209	1861.55	123.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	Salt water	3.48
186.00	McO 5%M 95%O	2.61
248.00	Gas	3.48

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Munsell #1

PO Box 48788
Wichita KS 67201

5 17 29W Lane KS

Job Ticket: 25988

DST#: 1

ATTN: Kim Shoemaker

Test Start: 2007.02.04 @ 13:51:56

Tool Information

Drill Pipe:	Length: 4096.00 ft	Diameter: 3.80 inches	Volume: 57.46 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 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: 57.46 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4103.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	1	Diameter: inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4081.00	
Hydraulic tool	5.00			4086.00	
Jars	5.00			4091.00	
Safety Joint	2.00			4093.00	
Packer	5.00			4098.00	27.00 Bottom Of Top Packer
Packer	5.00			4103.00	
Recorder	0.00	6672	Inside	4103.00	
Perforations	25.00			4128.00	
Recorder	0.00	11020	Inside	4128.00	
Bullnose	5.00			4133.00	30.00 Bottom Packers & Anchor
Total Tool Length:	57.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Munsell #1

PO Box 48788
Wichita KS 67201

5 17 29W Lane KS

Job Ticket: 25988

DST#: 1

ATTN: Kim Shoemaker

Test Start: 2007.02.04 @ 13:51:56

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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.44 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	Saltwater	3.479
186.00	McO 5%M 95%O	2.609
248.00	Gas	3.479

Total Length: 682.00 ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

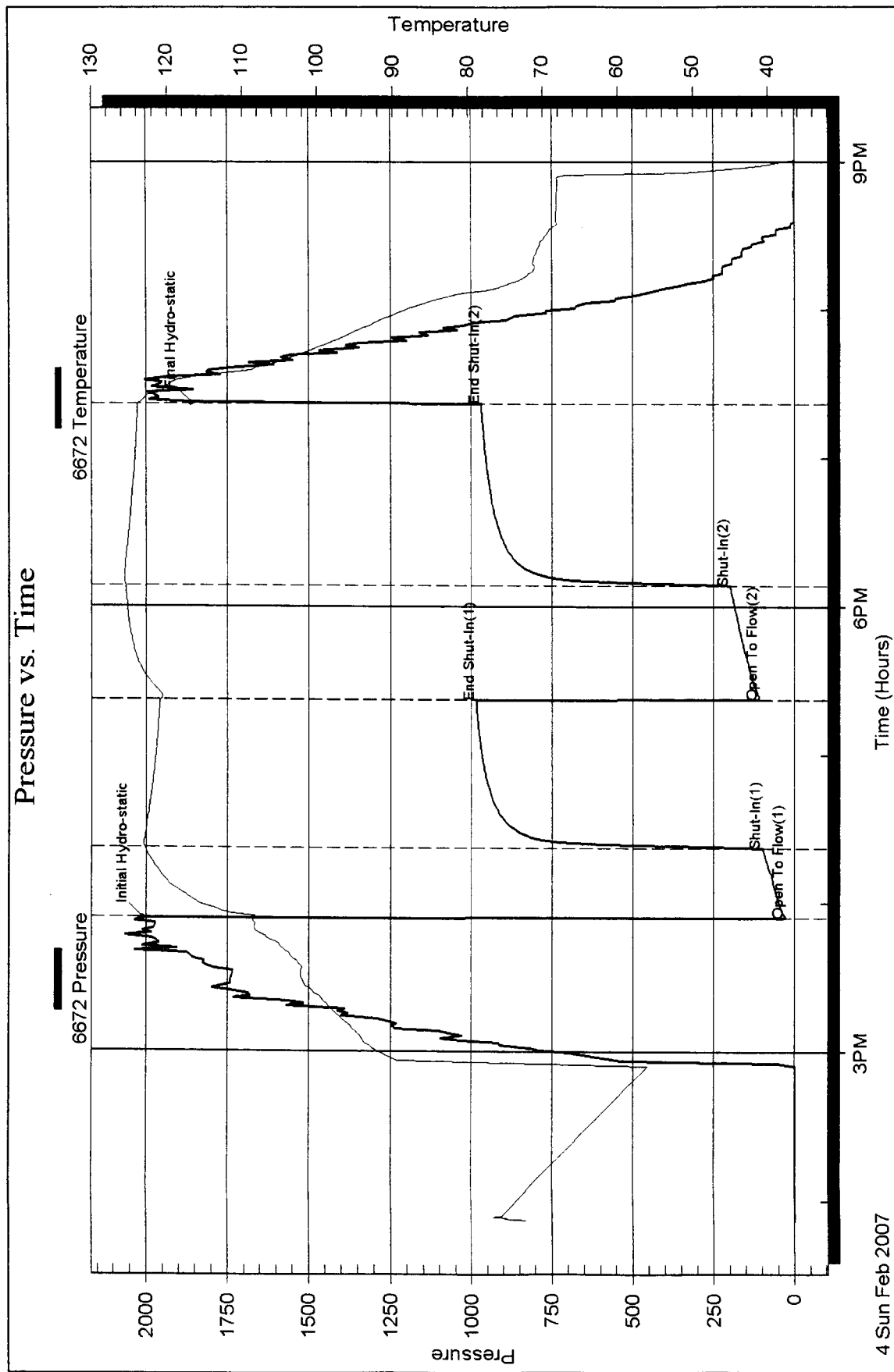
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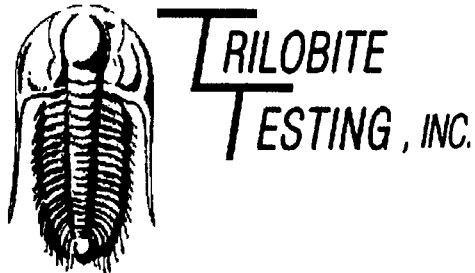
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

PO Box 48788
Wichita KS 67201

ATTN: Kim Shoemaker

5 17 29W Lane KS

Munsell #1

Start Date: 2007.02.05 @ 07:41:07

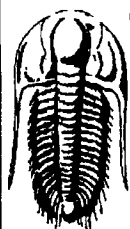
End Date: 2007.02.05 @ 13:07:50

Job Ticket #: 25989 DST #: 2

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

Raymond Oil Company

PO Box 48788
Wichita KS 67201

ATTN: Kim Shoemaker

Munsell #1

5 17 29W Lane KS

Job Ticket: 25989

DST#: 2

Test Start: 2007.02.05 @ 07:41:07

GENERAL INFORMATION:

Formation: LKC, 160/180

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:40:20

Time Test Ended: 13:07:50

Test Type: Conventional Bottom Hole

Tester: Michael Shinn

Unit No: 1

Interval: 4140.00 ft (KB) To 4196.00 ft (KB) (TVD)

Total Depth: 4196.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 2824.00 ft (KB)

2819.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6672

Inside

Press@RunDepth: 20.57 psig @ 4140.00 ft (KB)

Start Date: 2007.02.05

End Date:

2007.02.05

Start Time: 07:41:07

End Time:

13:07:50

Capacity: 7000.00 psig

Last Calib.: 2007.02.05

Time On Btm: 2007.02.05 @ 09:40:05

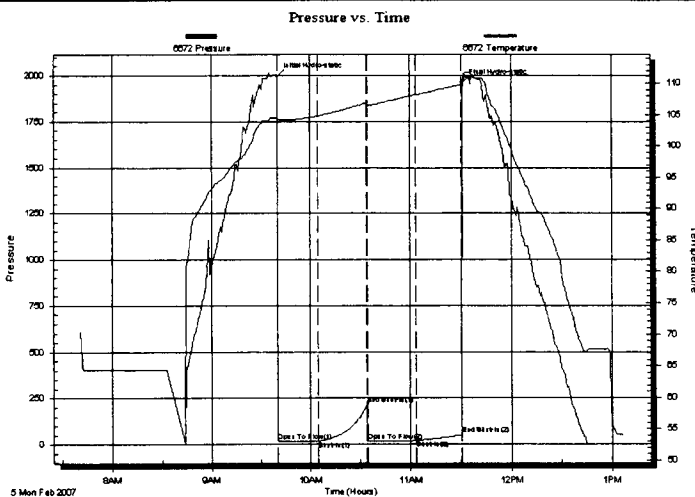
Time Off Btm: 2007.02.05 @ 11:30:50

TEST COMMENT: IF Return blow to 1/4 in.

IS No return

FF No return blow

ISI No return



PRESSURE SUMMARY

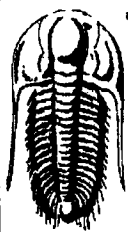
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1997.40	104.48	Initial Hydro-static
1	15.19	104.16	Open To Flow (1)
25	16.60	104.80	Shut-In (1)
54	213.47	106.83	End Shut-In (1)
55	17.14	106.65	Open To Flow (2)
83	20.57	108.14	Shut-In (2)
111	51.94	109.77	End Shut-In (2)
111	1960.60	110.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.07

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Munsell #1

PO Box 48788
Wichita KS 67201

5 17 29W Lane KS

Job Ticket: 25989

DST#: 2

ATTN: Kim Shoemaker

Test Start: 2007.02.05 @ 07:41:07

Tool Information

Drill Pipe:	Length: 4126.00 ft	Diameter: 3.80 inches	Volume: 57.88 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:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 57.88 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4140.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	83.00 ft				
Number of Packers:	1	Diameter:	inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4118.00	
Hydraulic tool	5.00			4123.00	
Jars	5.00			4128.00	
Safety Joint	2.00			4130.00	
Packer	5.00			4135.00	27.00 Bottom Of Top Packer
Packer	5.00			4140.00	
Recorder	0.00	6672	Inside	4140.00	
Change Over Sub	1.00			4141.00	
Perforations	18.00			4159.00	
Drill Pipe	31.00			4190.00	
Change Over Sub	1.00			4191.00	
Recorder	0.00	11020	Inside	4191.00	
Bullnose	5.00			4196.00	56.00 Bottom Packers & Anchor

Total Tool Length: 83.00



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Munsell #1

PO Box 48788
Wichita KS 67201

5 17 29W Lane KS

Job Ticket: 25989

DST#: 2

ATTN: Kim Shoemaker

Test Start: 2007.02.05 @ 07:41:07

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.070

Total Length: 5.00 ft

Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

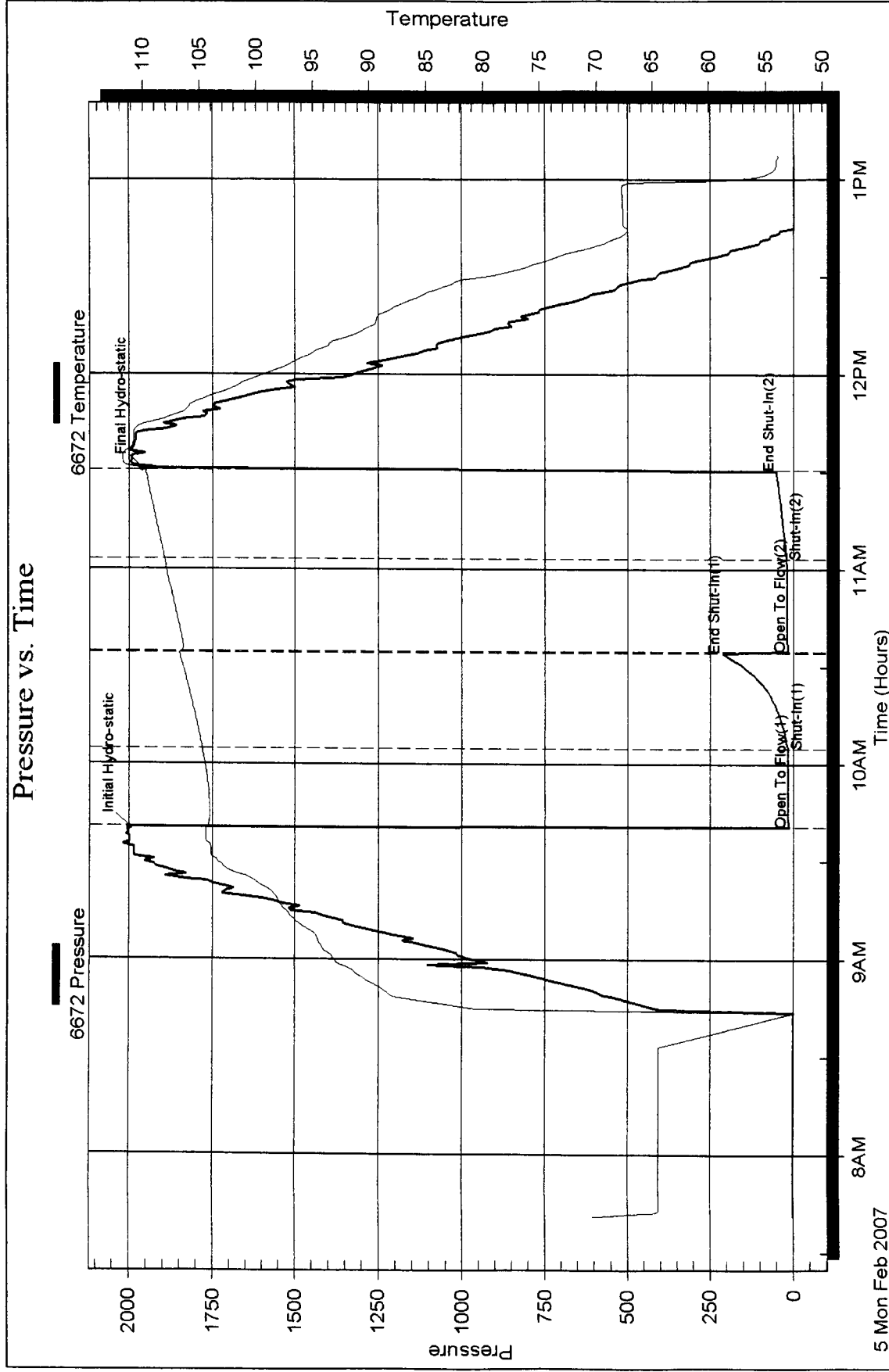
Serial #:

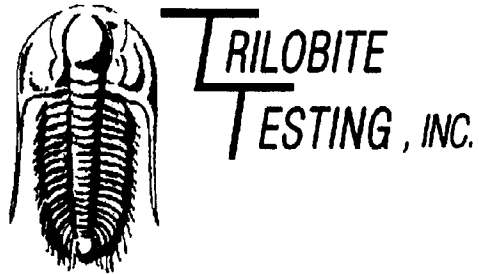
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

PO Box 48788
Wichita KS 67201

ATTN: Kim Shoemaker

5 17 29W Lane KS

Munsell #1

Start Date: 2007.02.05 @ 22:32:19

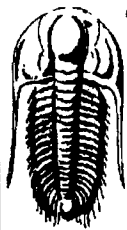
End Date: 2007.02.06 @ 03:47:47

Job Ticket #: 25990 DST #: 3

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

Raymond Oil Company

PO Box 48788
Wichita KS 67201

ATTN: Kim Shoemaker

Munsell #1

5 17 29W Lane KS

Job Ticket: 25990

DST#: 3

Test Start: 2007.02.05 @ 22:32:19

GENERAL INFORMATION:

Formation: **LKC, H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:16:17

Time Test Ended: 03:47:47

Test Type: Conventional Bottom Hole

Tester: Michael Shinn

Unit No: 1

Interval: **4199.00 ft (KB) To 4227.00 ft (KB) (TVD)**

Total Depth: 4227.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 2824.00 ft (KB)

2819.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 6672

Inside

Press@RunDepth: 41.37 psig @ 4199.00 ft (KB)

Start Date: 2007.02.05

End Date:

2007.02.06

Start Time: 22:32:19

End Time:

03:47:47

Capacity: 7000.00 psig

Last Calib.: 2007.02.06

Time On Btm: 2007.02.06 @ 00:15:47

Time Off Btm: 2007.02.06 @ 02:11:17

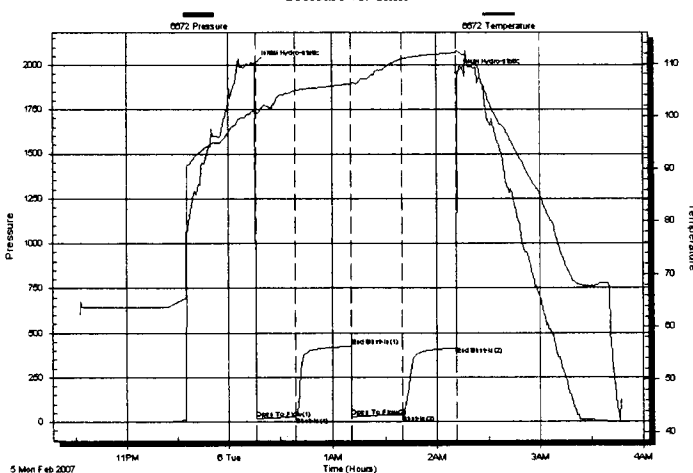
TEST COMMENT: IF;Return blow to 1 1/2 in died to 3/4 in.

IS No return

FF Return blow to 2 in.

ISI No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2003.17	100.94	Initial Hydro-static
1	16.73	100.61	Open To Flow (1)
24	28.80	104.80	Shut-In(1)
55	422.17	106.16	End Shut-In(1)
56	29.89	106.00	Open To Flow (2)
84	41.37	110.90	Shut-In(2)
116	376.24	112.08	End Shut-In(2)
116	1956.52	112.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	FreeOil 100%O	0.04
60.00	McSW 20%M 80%SW	0.84

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Munsell #1

PO Box 48788
Wichita KS 67201

5 17 29W Lane KS

Job Ticket: 25990

DST#: 3

ATTN: Kim Shoemaker

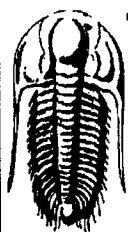
Test Start: 2007.02.05 @ 22:32:19

Tool Information

Drill Pipe:	Length: 4190.00 ft	Diameter: 3.80 inches	Volume: 58.77 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 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: 80000.00 lb
		Total Volume: 58.77 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4199.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	1	Diameter: inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4177.00	
Hydraulic tool	5.00			4182.00	
Jars	5.00			4187.00	
Safety Joint	2.00			4189.00	
Packer	5.00			4194.00	27.00 Bottom Of Top Packer
Packer	5.00			4199.00	
Recorder	0.00	6672	Inside	4199.00	
Perforations	23.00			4222.00	
Recorder	0.00	11020	Inside	4222.00	
Bullnose	5.00			4227.00	28.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Munsell #1

PO Box 48788
Wichita KS 67201

5 17 29W Lane KS

Job Ticket: 25990

DST#: 3

ATTN: Kim Shoemaker

Test Start: 2007.02.05 @ 22:32:19

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	FreeOil 100%O	0.042
60.00	McSW 20%M 80%SW	0.842

Total Length: 63.00 ft Total Volume: 0.884 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

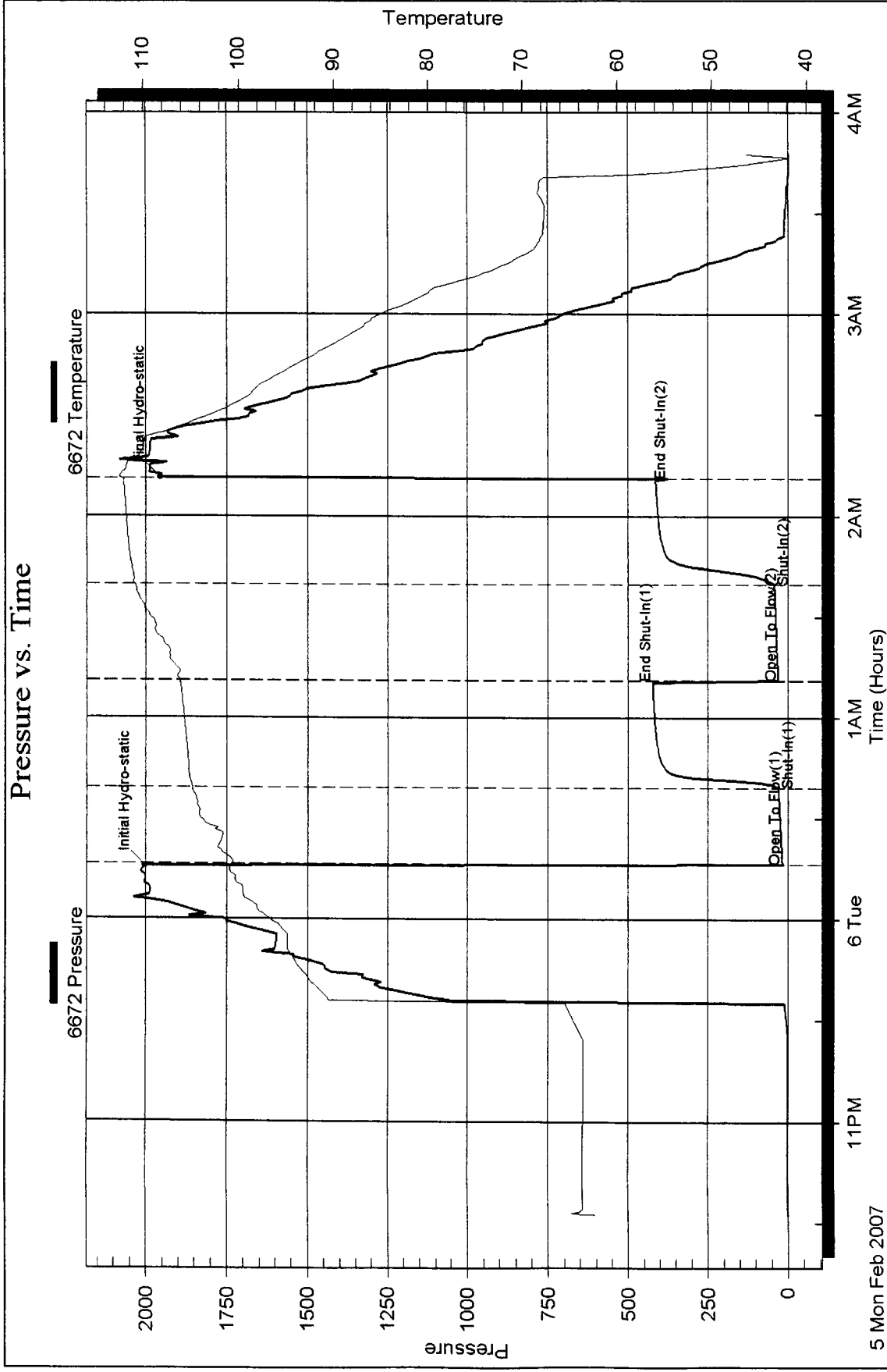
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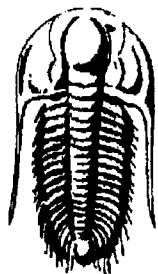
Serial #: 6672

Inside Raymond Oil Company

5 17 29W Lane KS

DST Test Number: 3





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

PO Box 48788
Wichita KS 67201

ATTN: Kim Shoemaker

5 17 29W Lane KS

Munsell #1

Start Date: 2007.02.06 @ 11:08:12

End Date: 2007.02.06 @ 18:02:10

Job Ticket #: 25991 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
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DRILL STEM TEST REPORT

Raymond Oil Company

PO Box 48788
Wichita KS 67201

ATTN: Kim Shoemaker

Munsell #1

5 17 29W Lane KS

Job Ticket: 25991

DST#: 4

Test Start: 2007.02.06 @ 11:08:12

GENERAL INFORMATION:

Formation: **Middle Creek**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:31:55

Time Test Ended: 18:02:10

Test Type: Conventional Bottom Hole

Tester: Michael Shinn

Unit No: 1

Interval: **4239.00 ft (KB) To 4258.00 ft (KB) (TVD)**

Total Depth: 4258.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 2824.00 ft (KB)

2819.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6672

Inside

Press@RunDepth: 232.43 psig @ 4239.00 ft (KB)

Start Date: 2007.02.06

End Date:

2007.02.06

Start Time: 11:08:12

End Time:

18:02:10

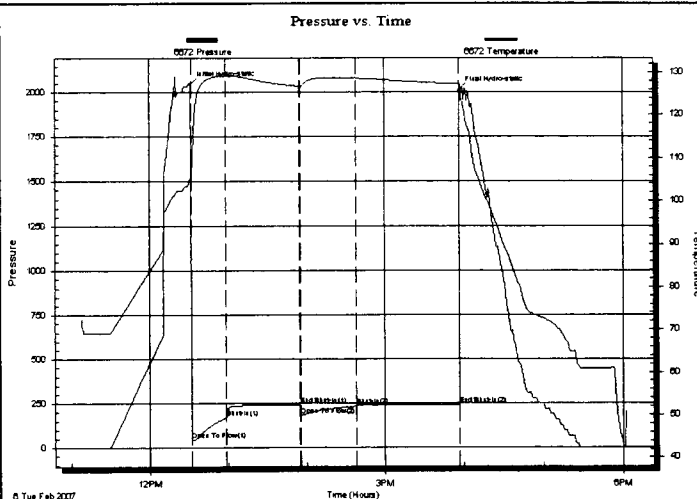
Capacity: 7000.00 psig

Last Calib.: 2007.02.06

Time On Btm: 2007.02.06 @ 12:31:25

Time Off Btm: 2007.02.06 @ 15:56:25

TEST COMMENT: IF BOB in 1 min.
IS Return blow to 10 1/2 BOB in 50 min.
FF BOB in 1 min.
ISI Return blow to 1 1/2 in.



PRESSURE SUMMARY

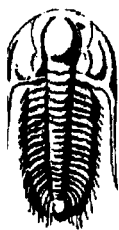
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2044.82	105.08	Initial Hydro-static
1	41.84	105.07	Open To Flow (1)
28	170.64	129.09	Shut-In (1)
84	240.60	126.62	End Shut-In (1)
84	177.88	126.57	Open To Flow (2)
127	232.43	128.53	Shut-In (2)
205	241.37	127.19	End Shut-In (2)
205	2011.07	127.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	Free Oil 100% O	8.84
756.00	Gas 100% G	10.60

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

PO Box 48788
Wichita KS 67201

ATTN: Kim Shoemaker

Munsell #1

5 17 29W Lane KS

Job Ticket: 25991

DST#: 4

Test Start: 2007.02.06 @ 11:08:12

Tool Information

Drill Pipe:	Length: 4217.00 ft	Diameter: 3.80 inches	Volume: 59.15 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 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: 75000.00 lb
		Total Volume: 59.15 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4239.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	1	Diameter: inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4217.00	
Hydraulic tool	5.00			4222.00	
Jars	5.00			4227.00	
Safety Joint	2.00			4229.00	
Packer	5.00			4234.00	27.00 Bottom Of Top Packer
Packer	5.00			4239.00	
Recorder	0.00	6672	Inside	4239.00	
Perforations	14.00			4253.00	
Recorder	0.00	11020	Inside	4253.00	
Bullnose	5.00			4258.00	19.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Munsell #1

PO Box 48788
Wichita KS 67201

5 17 29W Lane KS

Job Ticket: 25991

DST#: 4

ATTN: Kim Shoemaker

Test Start: 2007.02.06 @ 11:08:12

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: 9.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
630.00	FreeOil 100%O	8.837
756.00	Gas 100%G	10.605

Total Length: 1386.00 ft

Total Volume: 19.442 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 4

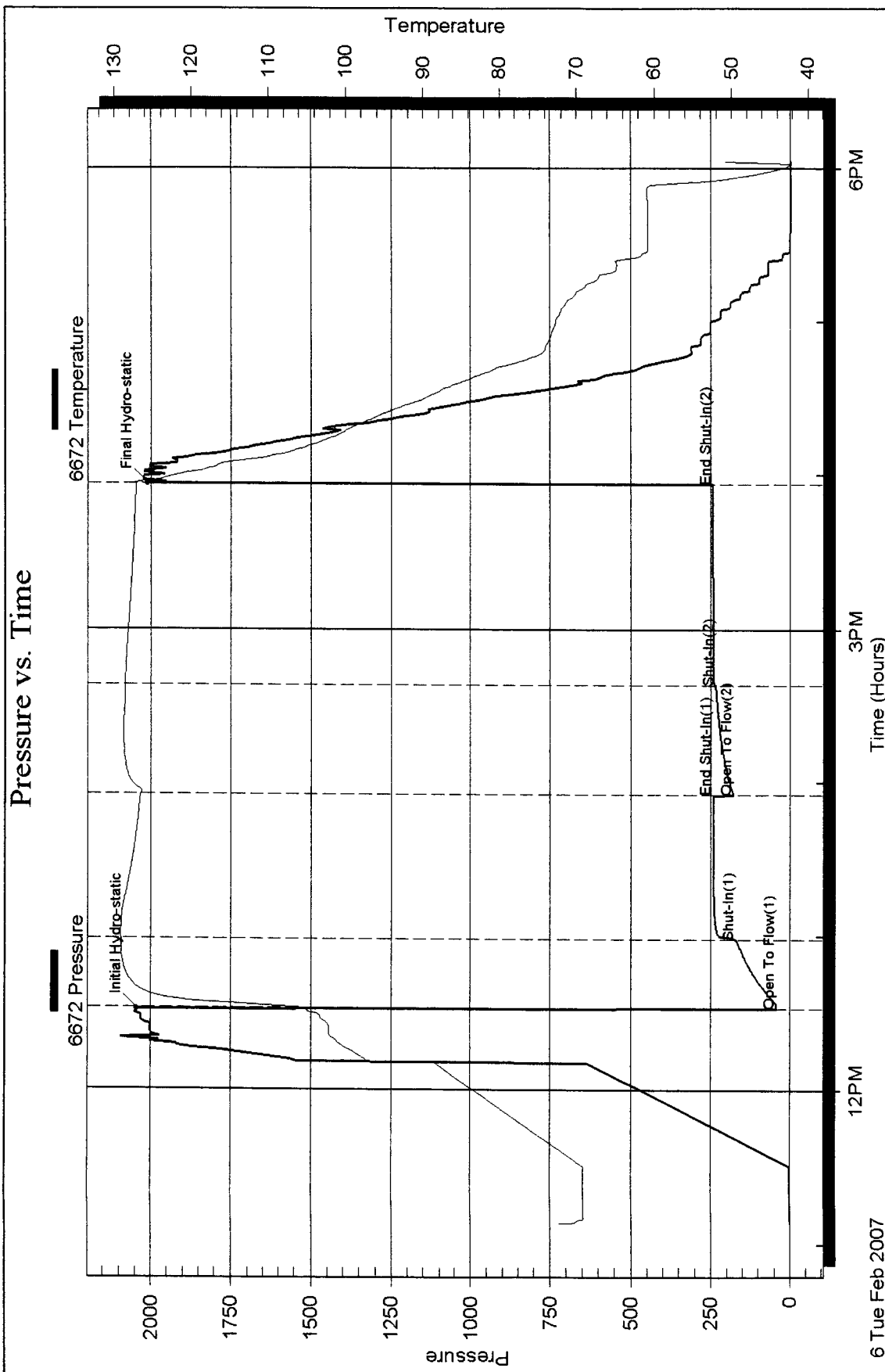
5 17 29W Lane KS

Raymond Oil Company

Inside

Serial #: 6672

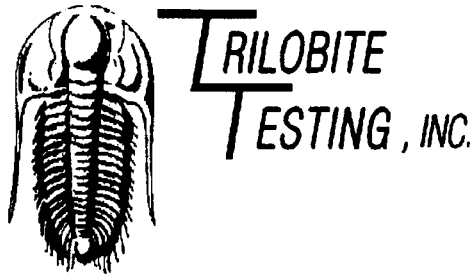
Pressure vs. Time



Ref. No: 25991

Tribolite Testing, Inc

Printed: 2007.02.12 @ 11:00:39 Page 5



DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

PO Box 48788
Wichita KS 67201

ATTN: Kim Shoemaker

5 17 29W Lane KS

Munsell #1

Start Date: 2007.02.07 @ 12:47:53

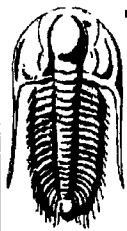
End Date: 2007.02.07 @ 21:26:03

Job Ticket #: 25992 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Raymond Oil Company

PO Box 48788
Wichita KS 67201

ATTN: Kim Shoemaker

Munsell #1

5 17 29W Lane KS

Job Ticket: 25992

DST#: 5

Test Start: 2007.02.07 @ 12:47:53

GENERAL INFORMATION:

Formation: **Myrick Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:20:03

Time Test Ended: 21:26:03

Test Type: Conventional Bottom Hole

Tester: Michael Shinn

Unit No: 1

Interval: **4416.00 ft (KB) To 4440.00 ft (KB) (TVD)**

Total Depth: 4440.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 2824.00 ft (KB)

2819.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755 Inside

Press@RunDepth: 734.97 psig @ 4416.00 ft (KB)

Start Date: 2007.02.07

End Date:

2007.02.07

Start Time: 12:47:53

End Time:

21:26:03

Capacity: 7000.00 psig

Last Calib.: 2007.02.07

Time On Btm: 2007.02.07 @ 14:19:48

Time Off Btm: 2007.02.07 @ 17:47:17

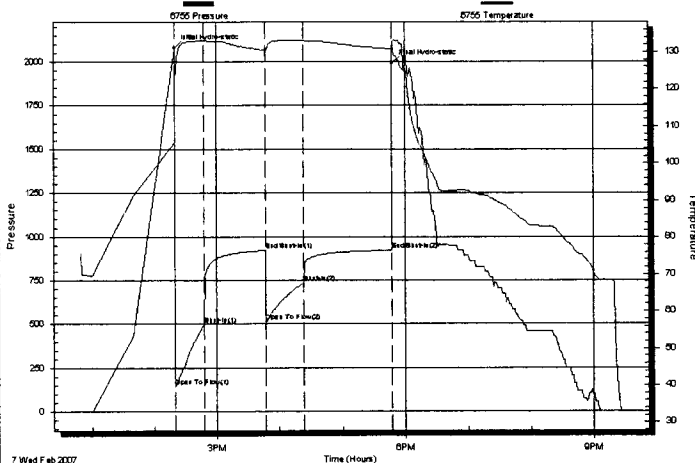
TEST COMMENT: IF BOB in 30 sec.

ISI BOB in 3 min.

FF BOB in 10 sec. Gas to surface in 30 min. To small to get PSI

ISI BOB in 5 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2077.57	105.53	Initial Hydro-static
1	146.42	122.07	Open To Flow (1)
29	498.38	133.03	Shut-In (1)
87	919.96	130.46	End Shut-In (1)
88	512.91	130.24	Open To Flow (2)
124	734.97	133.00	Shut-In (2)
208	920.44	130.80	End Shut-In (2)
208	1988.71	131.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
372.00	Saltwater 100%SW	5.22
1632.00	FreeOil 100%O	22.89
2405.00	Gas 100%G	33.74

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Munsell #1

PO Box 48788
Wichita KS 67201

5 17 29W Lane KS

Job Ticket: 25992

DST#: 5

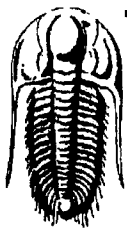
ATTN: Kim Shoemaker

Test Start: 2007.02.07 @ 12:47:53

Tool Information

Drill Pipe:	Length: 4409.00 ft	Diameter: 3.80 inches	Volume: 61.85 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 75000.00 lb
			Total Volume: 61.85 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4416.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	1	Diameter:	inches	
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4394.00	
Hydraulic tool	5.00			4399.00	
Jars	5.00			4404.00	
Safety Joint	2.00			4406.00	
Packer	5.00			4411.00	27.00 Bottom Of Top Packer
Packer	5.00			4416.00	
Recorder	0.00	6755	Inside	4416.00	
Perforations	19.00			4435.00	
Recorder	0.00	11020	Inside	4435.00	
Bullnose	5.00			4440.00	24.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Munsell #1

PO Box 48788
Wichita KS 67201

5 17 29W Lane KS

Job Ticket: 25992

DST#: 5

ATTN: Kim Shoemaker

Test Start: 2007.02.07 @ 12:47:53

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	Saltwater 100%SW	5.218
1632.00	FreeOil 100%O	22.893
2405.00	Gas 100%G	33.736

Total Length: 4409.00 ft

Total Volume: 61.847 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

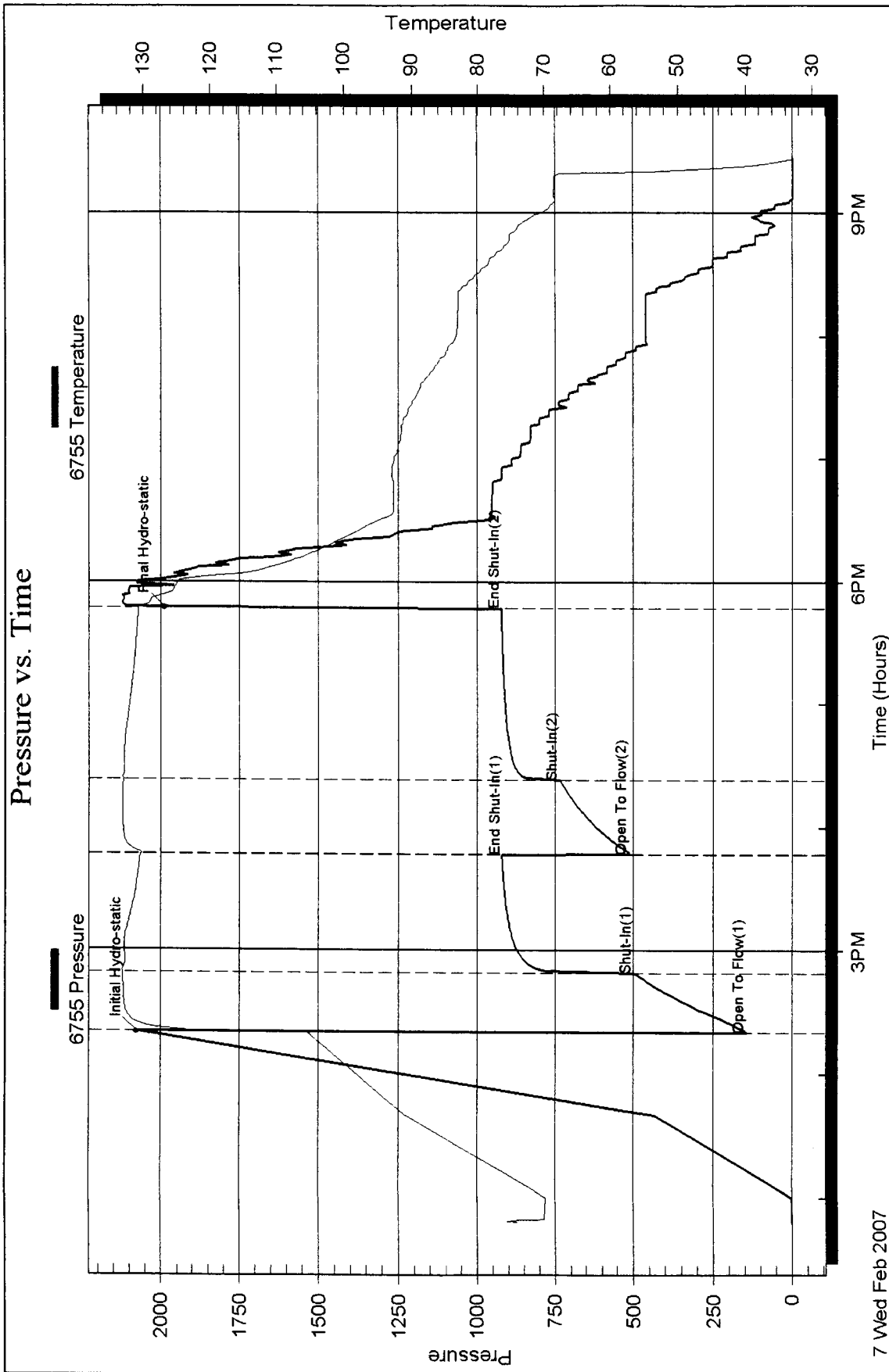
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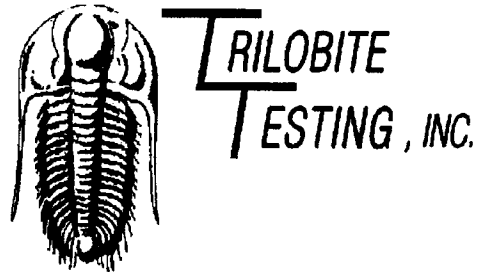
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company**

PO Box 48788
Wichita KS 67201

ATTN: Kim Shoemaker

5 17 29W Lane KS

Munsell #1

Start Date: 2007.02.08 @ 09:54:29

End Date: 2007.02.08 @ 18:09:23

Job Ticket #: 25993 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Company

PO Box 48788
Wichita KS 67201

ATTN: Kim Shoemaker

Munsell #1

5 17 29W Lane KS

Job Ticket: 25993

DST#: 6

Test Start: 2007.02.08 @ 09:54:29

GENERAL INFORMATION:

Formation: **Ft. Scott, Chero, Johns**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:06:24

Time Test Ended: 18:09:23

Test Type: Conventional Bottom Hole

Tester: Michael Shinn

Unit No: 1

Interval: **4441.00 ft (KB) To 4525.00 ft (KB) (TVD)**

Total Depth: 4525.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 2824.00 ft (KB)

2819.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6755 Inside

Press@RunDepth: 160.50 psig @ 4441.00 ft (KB)

Start Date: 2007.02.08

End Date:

2007.02.08

Start Time: 09:54:29

End Time:

18:09:23

Capacity: 7000.00 psig

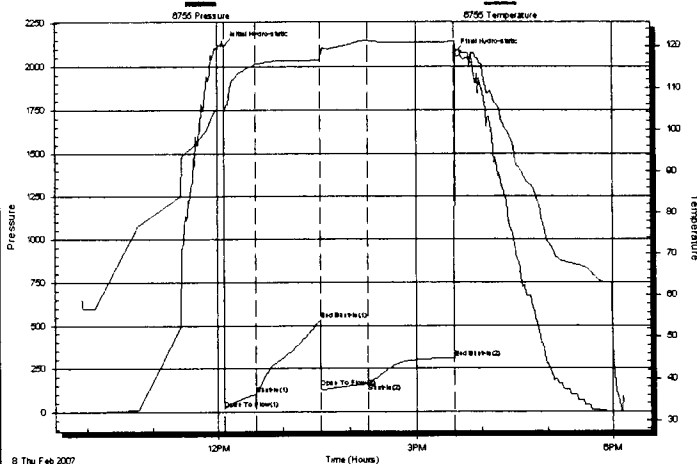
Last Calib.: 2007.02.08

Time On Btm: 2007.02.08 @ 12:06:09

Time Off Btm: 2007.02.08 @ 15:34:53

TEST COMMENT: IF BOB in 15 min.
IS Return blow to 2 1/2 in.
FF BOB in 8 min. Gas to surface in 10 min. To small to get PSI
ISI Return blow to 5 1/4 in.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2121.15	104.69	Initial Hydro-static
1	19.79	104.28	Open To Flow (1)
29	102.98	115.59	Shut-In (1)
88	530.29	116.66	End Shut-In (1)
88	137.90	117.56	Open To Flow (2)
131	160.50	121.24	Shut-In (2)
209	308.57	120.93	End Shut-In (2)
209	2076.58	120.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	McO 90%M 10%O	2.61
186.00	OcM 70%O 30%M	2.61
4032.00	Gas 100%G	56.56

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company

Munsell #1

PO Box 48788
Wichita KS 67201

5 17 29W Lane KS

Job Ticket: 25993

DST#: 6

ATTN: Kim Shoemaker

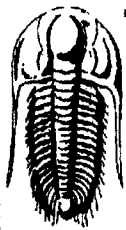
Test Start: 2007.02.08 @ 09:54:29

Tool Information

Drill Pipe:	Length: 4443.00 ft	Diameter: 3.80 inches	Volume: 62.32 bbl	Tool Weight: 15000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 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: 75000.00 lb
			Total Volume: 62.32 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4441.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	1	Diameter:	inches	
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4424.00	
Hydraulic tool	5.00			4429.00	
Jars	0.00			4429.00	
Safety Joint	2.00			4431.00	
Packer	5.00			4436.00	22.00 Bottom Of Top Packer
Packer	5.00			4441.00	
Recorder	0.00	6755	Inside	4441.00	
Change Over Sub	1.00			4442.00	
Drill Pipe	62.00			4504.00	
Change Over Sub	1.00			4505.00	
Perforations	15.00			4520.00	
Recorder	0.00	11020	Inside	4520.00	
Bullnose	5.00			4525.00	84.00 Bottom Packers & Anchor

Total Tool Length: 106.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company

Munsell #1

PO Box 48788
Wichita KS 67201

5 17 29W Lane KS

Job Ticket: 25993

DST#: 6

ATTN: Kim Shoemaker

Test Start: 2007.02.08 @ 09:54:29

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.47 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	McO 90%M 10%O	2.609
186.00	OcM 70%O 30%M	2.609
4032.00	Gas 100%G	56.558

Total Length: 4404.00 ft

Total Volume: 61.776 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6755

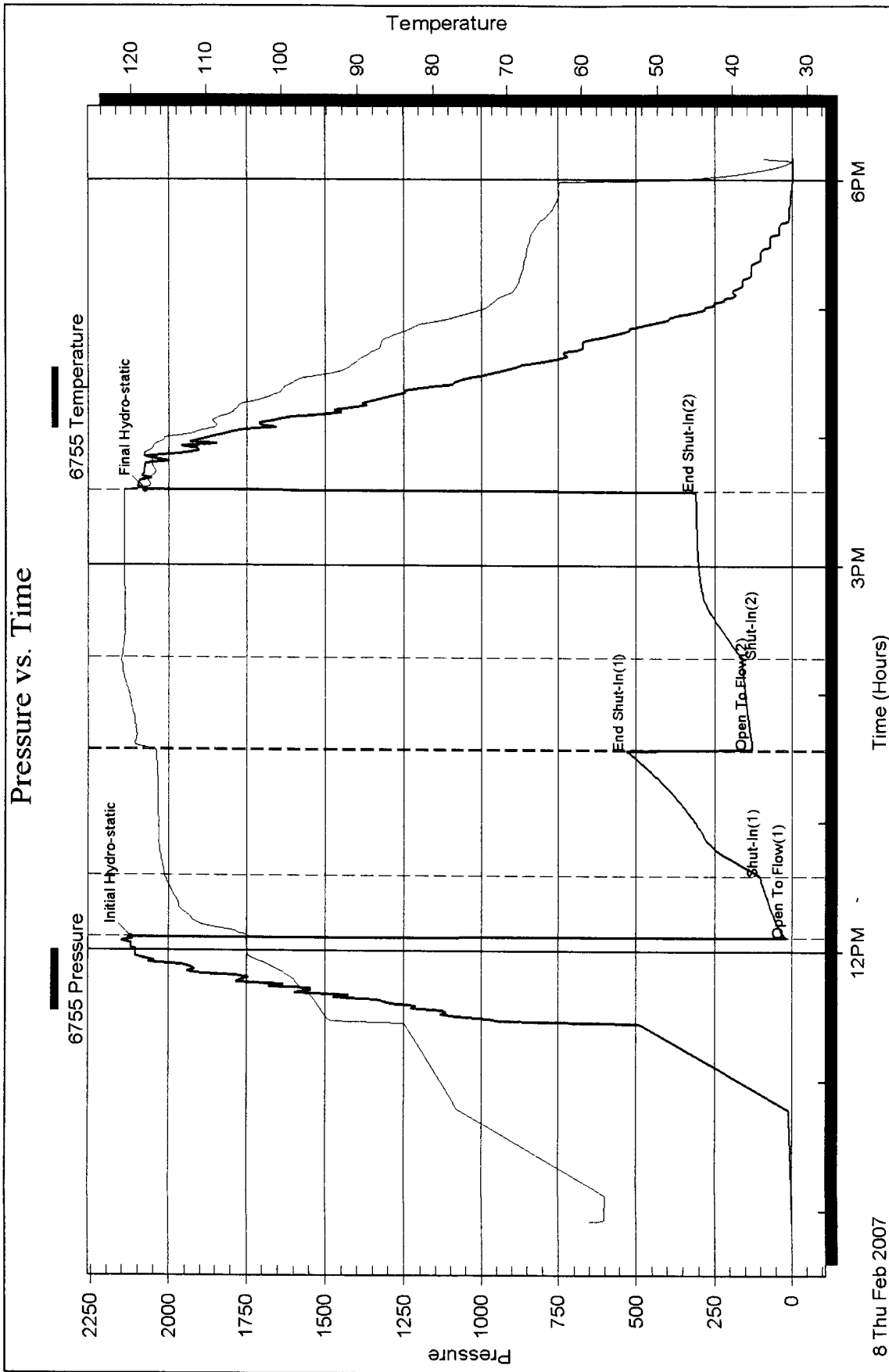
Inside

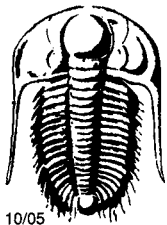
Raymond Oil Company

5 17 29W Lane KS

DST Test Number: 6

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25988

9830

Test Ticket

Well Name & No. <u>Wellsell #1</u>	Test No. <u>1</u>	Date <u>02-04-07</u>
Company <u>Raymond O.L. Company</u>	Zone Tested <u>L5C, "H"</u>	
Address <u>P.O. Box 48788 Wichita, KS 67201</u>	Elevation <u>2824</u> KB <u>2819</u> GL	
Co. Rep / Geo. <u>Kim Shoemaker</u>	Rig <u>C.P. Drilling Rig #1</u>	
Location: Sec. <u>5</u> Twp. <u>17s</u> Rge. <u>29w</u> Co. <u>Lawrence</u> State <u>KS</u>		
Comment: _____	Release date / time: _____	

Interval Tested 4103' 4133' Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 70,000
 Anchor Length 30' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 54,000
 Top Packer Depth 4098' Tool Weight 1500
 Bottom Packer Depth 4103' Hole Size 7 7/8" ☒ Rubber Size 6 3/4" ☒
 Total Depth 4133' Wt. Pipe Run ☒ Drill Collar Run ☒
 Mud Wt. 9.3 LCM ☒ Vis. 57 WL 9.5 Drill Pipe Size 4 1/2 IH Ft. Run 4096'

Blow Description EF, 3.0.3 in 10 min.

IS, Return blow to 2 in.

EF, 3.0.3 in 11 min.

IS, Return blow to 3 1/4 in.

Recovery - Total Feet 434' GIP 248' Ft. in DC _____ Ft. in DP 434'

Rec. 248' Feet of Gas 100% gas _____ %oil _____ %water _____ %mud

Rec. 126 Feet of MCO _____ %gas 95 %oil _____ %water 5 %mud

Rec. 248' Feet of Heavy Sulfur _____ %gas _____ %oil 100 %water _____ %mud

Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud

Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud

BHT 124 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

RW 0.92 @ 21 °F Chlorides 26,000 ppm Recovery _____ Chlorides 2,200 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2011	PSI	Recorder No.	6672	Test	X P1200.00 1200
(B) First Initial Flow Pressure			29	PSI	(depth)	4103'	Jars	X P250.00 250
(C) First Final Flow Pressure			98	PSI	Recorder No.		Safety Jt.	X #75.00 75
(D) Initial Shut-In Pressure			984	PSI	(depth)		Circ Sub	X WIR
(E) Second Initial Flow Pressure			108	PSI	Recorder No.	11020	Sampler	
(F) Second Final Flow Pressure			199	PSI	(depth)	4128'	Straddle	
(G) Final Shut-In Pressure			967	PSI	Initial Opening	30	Ext. Packer	
(Q) Final Hydrostatic Mud			1862	PSI	Initial Shut-In		Shale Packer	
					Final Flow	45	Ruined Packer	
					Final Shut-In	75	Mileage	X 60 75

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Approved By [Signature]
 Our Representative [Signature]

T-On Location

T-Started

T-Open

T-Pulled

T-Out

13:30 p.m.

14:20 p.m.

16:20 p.m.

19:50 p.m.

21:25 p.m.

Sub Total:

Std. By

Acc. Chg:

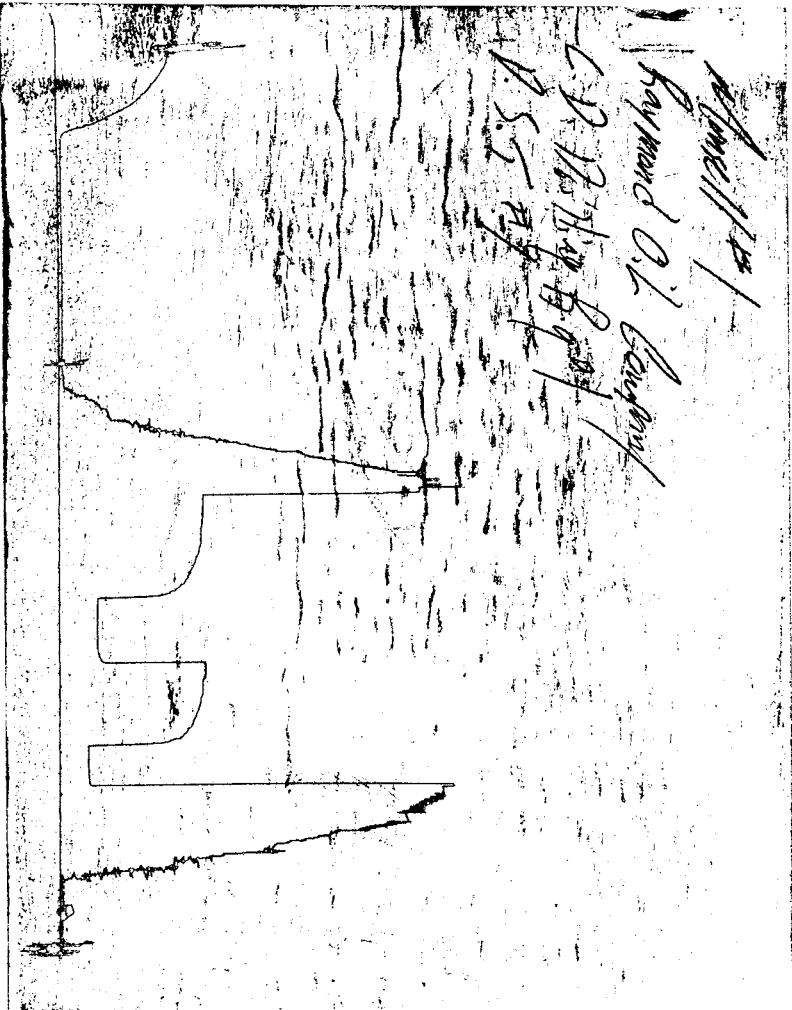
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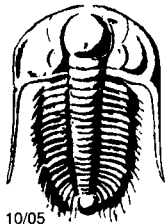
Total:

\$1600

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25989

Test Ticket

Well Name & No. <u>Munsell #1</u>	Test No. <u>2</u>	Date <u>02-05-07</u>
Company <u>Raymond O. L. Company</u>	Zone Tested <u>LKL, 160/180</u>	
Address <u>P.O. Box 48788 Wichita, KS 67201</u>	Elevation <u>2824</u> KB <u>2819</u> GL	
Co. Rep / Geo. <u>Kim Shremaker</u>	Rig <u>C.P. Pulling Rig #1</u>	
Location: Sec. <u>5</u> Twp. <u>12S</u> Bge. <u>29E</u>	Co. <u>Lane</u> State <u>KS</u>	
Comment: <u>[Signature]</u>	Release date / time: _____	

Interval Tested 4140' 4196' Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 55,000
 Anchor Length 56' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 4135' Tool Weight 1500
 Bottom Packer Depth 4140' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4196' Wt. Pipe Run ✓ Drill Collar Run 0
 Mud Wt. 9.1 LCM 14 Vis. 49 WL 10.0 Drill Pipe Size 4 1/2 x H Ft. Run 4126'
 Blow Description IS, No Return
FF, No Return
ISL, No Return

Recovery - Total Feet 5 GIP _____ Ft. in DC _____ Ft. in DP _____
 Rec. 5' Feet of mud %gas _____ %oil _____ %water 100 %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 110 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2600 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1997	PSI	Recorder No. <u>6672</u>	Test <u>x 1200.00</u> <u>1400</u>
(B) First Initial Flow Pressure			15	PSI	(depth) <u>4140'</u>	Jars <u>x 250.00</u> <u>250</u>
(C) First Final Flow Pressure			17	PSI	Recorder No. _____	Safety Jt. <u>x 275.00</u> <u>75</u>
(D) Initial Shut-In Pressure			213	PSI	(depth) _____	Circ Sub <u>x MIC</u>
(E) Second Initial Flow Pressure			17	PSI	Recorder No. <u>11020</u>	Sampler _____
(F) Second Final Flow Pressure			21	PSI	(depth) <u>4191'</u>	Straddle _____
(G) Final Shut-In Pressure			52	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud			1961	PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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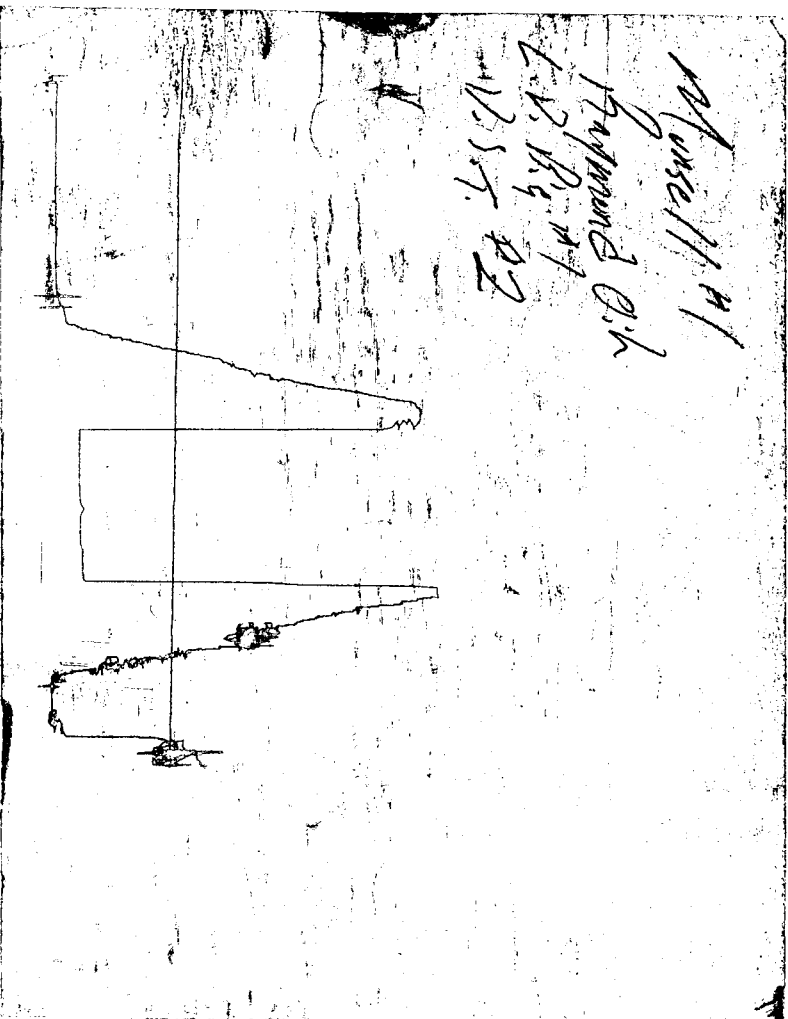
Approved By [Signature]
 Our Representative [Signature]

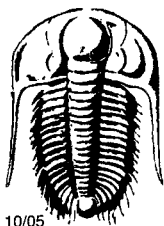
T-On Location 07:30 a.m.
 T-Started 08:55 a.m.
 T-Open 10:45 a.m.
 T-Pulled 12:45 p.m.
 T-Out 14:20 p.m.

Mileage x 60 75
 Sub Total: _____
 Std. By [Signature]
 Acc. Chg: \$ 186.00
 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

25990

Test Ticket

Well Name & No. <u>W. Russell #</u>	Test No. <u>3</u>	Date <u>02-05-07</u>
Company <u>Raymond O.H. Company</u>	Zone Tested <u>UCL, "K"</u>	
Address <u>P.O. Box 48788 Wichita, KS 67201</u>	Elevation <u>2824</u> KB <u>2819</u> GL	
Co. Rep / Geo. <u>Kim Sheenmaker</u>	Rig <u>L.D. Drilling Rig #1</u>	
Location: Sec. <u>5</u> Twp. <u>17S</u> Rge. <u>27W</u> Co. <u>Lanc</u> State <u>KS</u>		
Comment: _____	Release date / time: _____	

Interval Tested 4199' 4227' Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 52,000
 Anchor Length 28' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 80,000
 Top Packer Depth 4194' Tool Weight 1500
 Bottom Packer Depth 4199' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4227' Wt. Pipe Run ✓ Drill Collar Run 0
 Mud Wt. 9.1 LCM 1" Vis. 49 WL 10.0 Drill Pipe Size 4 1/2" XH Ft. Run 4190'

Blow Description 11', Return blow to 1 1/2" in, 17' to 3 1/4" in

ES, No Return

FF, Return blow to 2 in.

SS, No Return

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>63'</u>	<u>30'</u>	<u>0</u>	<u>63'</u>
Rec. <u>3'</u>	Feet of <u>Free Oil</u>	%gas <u>100%</u> oil <u>0%</u> water <u>0%</u> mud <u>0%</u>	
Rec. <u>60</u>	Feet of <u>MC 5W</u>	%gas <u>0%</u> oil <u>80%</u> water <u>20%</u> mud <u>0%</u>	
Rec. _____	Feet of _____	%gas _____ oil _____ water _____ mud _____	
Rec. _____	Feet of _____	%gas _____ oil _____ water _____ mud _____	
Rec. _____	Feet of _____	%gas _____ oil _____ water _____ mud _____	

BHT 112 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW 0.91 @ 18 °F Chlorides 29,000 ppm Recovery _____ Chlorides 2600 ppm System

AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2003</u> PSI	<u>6672</u>	<u>2 1/2" 200.00"</u>
(B) First Initial Flow Pressure	<u>17</u> PSI	(depth) <u>4199'</u>	Jars <u>X 250.00"</u>
(C) First Final Flow Pressure	<u>29</u> PSI	Recorder No. _____	Safety Jt. <u>X 25.00"</u>
(D) Initial Shut-In Pressure	<u>422</u> PSI	(depth) _____	Circ Sub <u>X N/C</u>
(E) Second Initial Flow Pressure	<u>30</u> PSI	Recorder No. <u>11020</u>	Sampler _____
(F) Second Final Flow Pressure	<u>91</u> PSI	(depth) <u>4222'</u>	Straddle _____
(G) Final Shut-In Pressure	<u>410</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1957</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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Approved By [Signature]

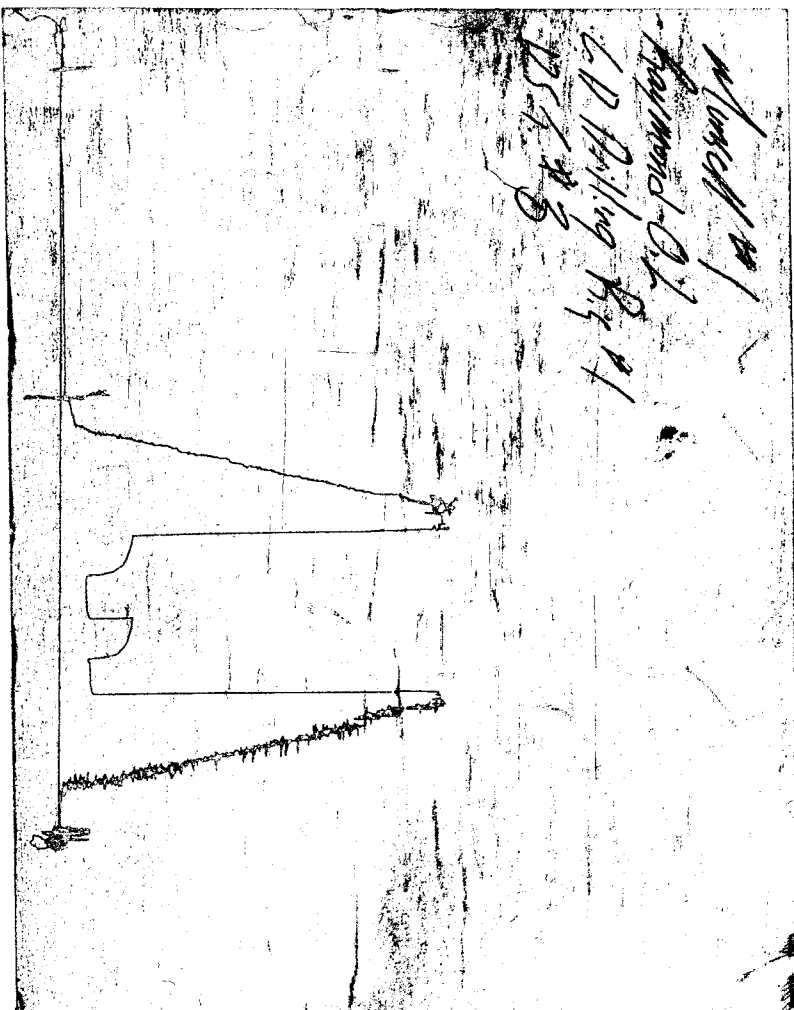
Our Representative [Signature]

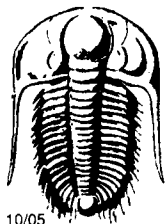
Ruined Packer _____
 Mileage 2 60 TS
 Sub Total: _____
 Std. By _____
 Acc. Chg: \$1600
 Other: _____
 Total: _____

T-On Location 23:15 p.m.
 T-Started 23:40 p.m.
 T-Open 24:20 a.m.
 T-Pulled 02:20 a.m.
 T-Out 03:55 a.m.

CHART PAGE

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





TRILOBITE TESTING INC.

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25991

Test Ticket

Well Name & No. <u>Munsell #1</u>	Test No. <u>4</u>	Date <u>02-06-07</u>
Company <u>Raymond O.T. Company</u>	Zone Tested <u>Middle Creek</u>	
Address <u>P.O. Box 48788 Wichita, KS 67201</u>	Elevation <u>2824</u> KB <u>2819</u> GL	
Co. Rep / Geo. <u>Kim Schumacher</u>	Rig <u>C.D. Drilling R-9 #1</u>	
Location: Sec. <u>5</u> Twp. <u>12S</u> Rge. <u>27W</u> Co. <u>Lane</u> State <u>KS</u>		
Comment: _____	Release date / time: _____	

Interval Tested <u>4239' - 4258'</u>	Initial Str Wt./Lbs. <u>54,000</u>	Unseated Str Wt/Lbs. <u>57,000</u>
Anchor Length <u>19'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>25,000</u>
Top Packer Depth <u>4234'</u>	Tool Weight <u>1,500</u>	
Bottom Packer Depth <u>4239'</u>	Hole Size <u>7 7/8"</u>	Rubber Size <u>6 3/4"</u>
Total Depth <u>4258'</u>	Wt. Pipe Run <u>✓</u>	Drill Collar Run <u>✓</u>
Mud Wt. <u>9.2</u> LCM <u>0</u> Vis. <u>45</u> WL <u>10.0</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4217'</u>

Blow Description 2F, 13.0.8 in 1 min.
IS, Return blow to 10 1/2 in, 13.0.8 in 50 min.
FF, 13.0.8 in 1 min.
IS, Return blow to 1 1/2 in.

Recovery - Total Feet <u>630'</u>	GIP <u>756'</u>	Ft. in DC <u>0</u>	Ft. in DP <u>630'</u>
Rec. <u>756'</u>	Feet of <u>Gas</u>	<u>100%</u> gas	%oil %water %mud
Rec. <u>630'</u>	Feet of <u>Free Oil</u>	%gas <u>100%</u> 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 127 °F Gravity 34 °API D @ 50 °F Corrected Gravity 35 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2,700 ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>2045</u> PSI	Alpine	Recorder No. <u>6672</u>	Test <u>X 11:00 a.m.</u>
(B) First Initial Flow Pressure	<u>42</u> PSI		(depth) <u>4239'</u>	Jars <u>X 12:50 a.m.</u>
(C) First Final Flow Pressure	<u>171</u> PSI		Recorder No. _____	Safety Jt. <u>X 12:55 a.m.</u>
(D) Initial Shut-In Pressure	<u>241</u> PSI		(depth) _____	Circ Sub <u>X 12:12</u>
(E) Second Initial Flow Pressure	<u>178</u> PSI		Recorder No. <u>11020</u>	Sampler _____
(F) Second Final Flow Pressure	<u>241</u> PSI		(depth) <u>4253'</u>	Straddle _____
(G) Final Shut-In Pressure	<u>241</u> PSI	Initial Opening <u>30</u>		Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>3011</u> PSI	Initial Shut-In <u>60</u>		Shale Packer _____

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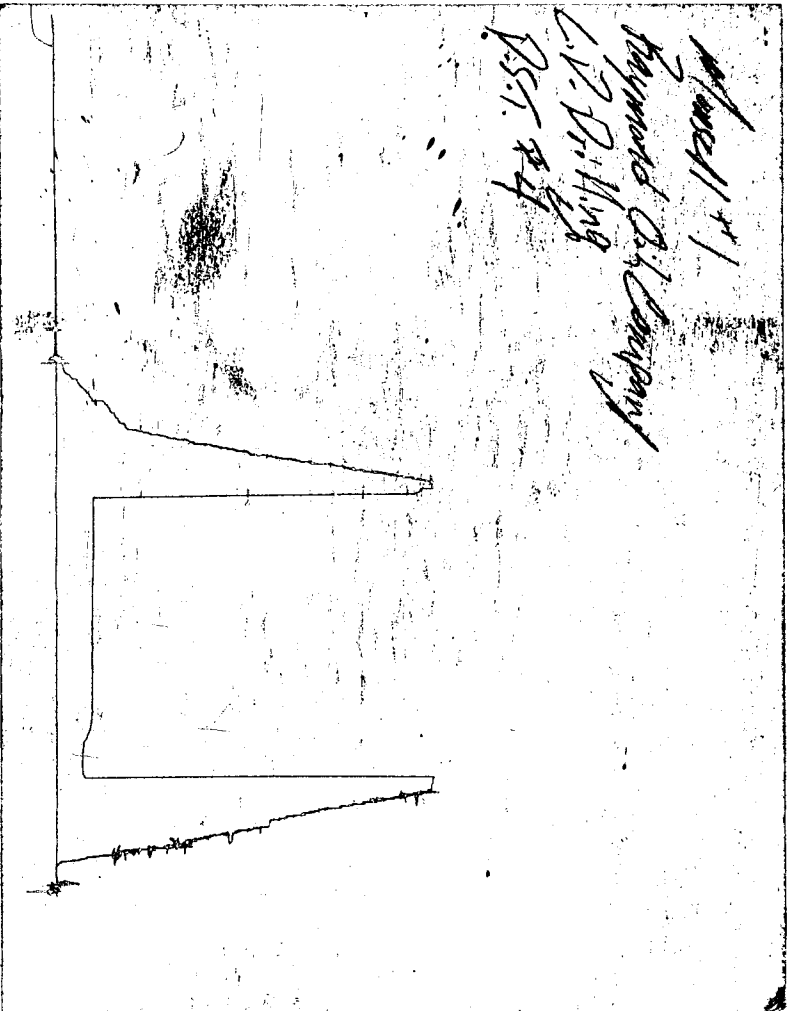
Approved By _____
 Our Representative [Signature]

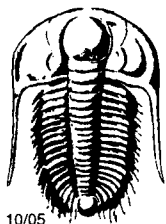
Final Flow 45
 Final Shut-In 75
 T-On Location 11:00 a.m.
 T-Started 11:15 a.m.
 T-Open 12:40 p.m.
 T-Pulled 16:10 p.m.
 T-Out 18:05 p.m.

Ruined Packer _____
 Mileage X 60
 Sub Total: _____
 Std. By _____
 Acc. Chg: \$1600
 Other: _____
 Total: _____

CHART PAGE

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TRILOBITE TESTING INC.

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25992

Test Ticket

Well Name & No. <u>Musell #1</u>	Test No. <u>5</u>	Date <u>02-07-07</u>
Company <u>Raymond Oil Company</u>	Zone Tested <u>Wichita Station</u>	
Address <u>P.O. Box 48788 Wichita, KS 67201</u>	Elevation <u>2824</u> KB <u>2819</u> GL	
Co. Rep / Geo. <u>Kim Sherman</u>	Rig <u>C.D. Pilling Rig #1</u>	
Location: Sec. <u>5</u> Twp. <u>12s</u> Rge. <u>27w</u> Co. <u>Lane</u> State <u>KS</u>		
Comment: _____	Release date / time: _____	

Interval Tested <u>4416'</u>	<u>4440'</u>	Initial Str Wt./Lbs. <u>56,000</u>	Unseated Str Wt./Lbs. <u>64,060</u>
Anchor Length <u>24'</u>		Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>75,000</u>
Top Packer Depth <u>4411'</u>		Tool Weight <u>1500</u>	
Bottom Packer Depth <u>4416'</u>		Hole Size <u>7 7/8"</u> ☒	Rubber Size <u>6 3/4"</u> ☒
Total Depth <u>4440'</u>		Wt. Pipe Run <u>✓</u>	Drill Collar Run <u>0</u>
Mud Wt. <u>9.3</u> LCM <u>0</u> Vis. <u>49</u> WL <u>10.0</u>		Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4469'</u>

Blow Description IF, 30.8 in 30 sec.
IS, 13.0 in 3 min.
PF, 13.0 in 10 sec. - Gas to surface in 30 min - too small to get PSI
IS, 13.0 in 5 min.

Recovery - Total Feet <u>2400</u>	GIP <u>2400</u>	Ft. in DC <u>0</u>	Ft. in DP <u>2004</u>
Rec. <u>2,400</u>	Feet of <u>Gas</u>	100% gas	%oil %water %mud
Rec. <u>1632</u>	Feet of <u>Free Oil</u>	%gas <u>100</u>	%oil %water %mud
Rec. <u>372</u>	Feet of <u>Sealant for</u>	%gas %oil <u>100</u>	%water %mud
Rec. _____	Feet of _____	%gas %oil	%water %mud
Rec. _____	Feet of _____	%gas %oil	%water %mud

BHT 131 °F Gravity 36 °API D @ 30 °F Corrected Gravity 39 °API
 RW 0.89 @ 42 °F Chlorides 12,000 ppm Recovery _____ Chlorides 2,900 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	Recorder No. <u>6755</u>	Test <u>X #1200</u>
(B) First Initial Flow Pressure	<u>2078</u>	PSI	(depth) <u>4416'</u>	Jars <u>X #750</u>
(C) First Final Flow Pressure	<u>146</u>	PSI	Recorder No. _____	Safety Jt. <u>X #75</u>
(D) Initial Shut-In Pressure	<u>498</u>	PSI	(depth) _____	Circ Sub <u>X NIC</u>
(E) Second Initial Flow Pressure	<u>920</u>	PSI	Recorder No. <u>11020</u>	Sampler _____
(F) Second Final Flow Pressure	<u>513</u>	PSI	(depth) <u>4435'</u>	Straddle _____
(G) Final Shut-In Pressure	<u>735</u>	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>920</u>	PSI	Initial Shut-In <u>60</u>	Shale Packer _____

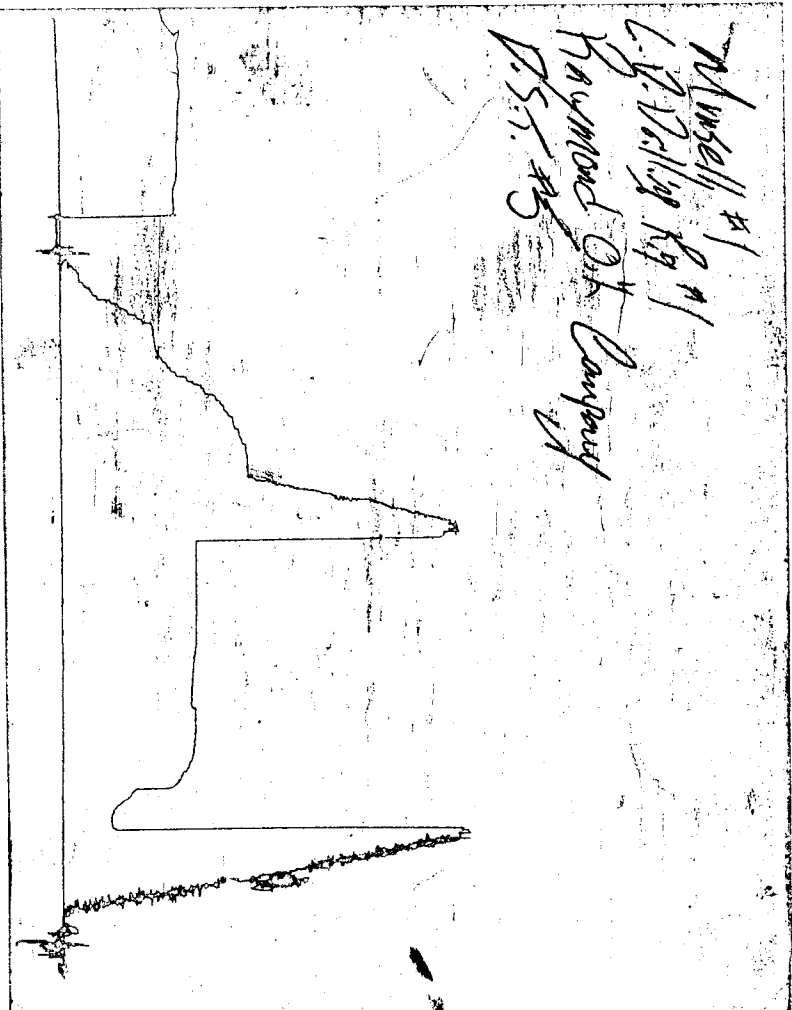
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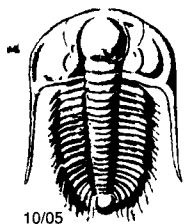
Approved By _____
 Our Representative Michael A. Klein

Final Flow <u>45</u>	T-On Location <u>12:30 p.m.</u>	Sub Total: _____
Final Shut-In <u>75</u>	T-Started <u>13:10 p.m.</u>	Std. By _____
	T-Open <u>14:40 p.m.</u>	Acc. Chg. <u>\$1600</u>
	T-Pulled <u>18:10 p.m.</u>	Other: _____
	T-Out <u>21:50 p.m.</u>	Total: _____

CHART PAGE

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TRILOBITE TESTING INC.

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25993

Test Ticket

Well Name & No. <u>Muse 11 #1</u>	Test No. <u>6</u>	Date <u>02-08-07</u>
Company <u>Raymond O. L. Company</u>	Zone Tested <u>H. Smith, Chero. Johnson</u>	
Address <u>P.O. Box 49780 Wichita, KS 67201</u>	Elevation <u>2824</u> KB <u>2819</u> GL	
Co. Rep / Geo. <u>Kim Streuncker</u>	Rig <u>C.D. Pulling Rig #1</u>	
Location: Sec. <u>5</u> Twp. <u>12s</u> Rge. <u>27w</u>	Co. <u>Can</u> State <u>KS</u>	
Comment: _____		Release date / time: _____

Interval Tested 4441' 4525' Initial Str Wt./Lbs. 38,000 Unseated Str Wt./Lbs. 60,000
 Anchor Length 84' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 75,000
 Top Packer Depth 4436' Tool Weight 1500
 Bottom Packer Depth 4441' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 4525' Wt. Pipe Run ✓ Drill Collar Run 0
 Mud Wt. 9.2 LCM 0 Vis. 48 WL 10.5 Drill Pipe Size 4 1/2" XH Ft. Run 4443

Blow Description FF, 17.0.3 in 15 min.
ISI, Return blow to 2 1/4 in.
FF, 17.0.3 in 8 min, loss to surface in 10 min.
ISI, Return blow to 5 1/4 in.

Recovery - Total Feet 372' GIP 4032 Ft. in DC 0 Ft. in DP 372'
 Rec. 186' Feet of MCO %gas 70% oil 0% water 30% mud 0%
 Rec. 186' Feet of OCM %gas 10% oil 0% water 90% mud 0%
 Rec. 4,032 Feet of Gas 100% gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 120 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 2500 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2121	PSI	Recorder No. <u>6755</u>	Test <u>41200.00</u> <u>1200</u>
(B) First Initial Flow Pressure			20	PSI	(depth) <u>4441'</u>	Jars <u>9250.00</u> <u>250</u>
(C) First Final Flow Pressure			103	PSI	Recorder No. _____	Safety Jt. <u>X 75.00</u> <u>75</u>
(D) Initial Shut-In Pressure			530	PSI	(depth) _____	Circ Sub <u>X N/C</u>
(E) Second Initial Flow Pressure			138	PSI	Recorder No. <u>11020</u>	Sampler _____
(F) Second Final Flow Pressure			161	PSI	(depth) <u>4520'</u>	Straddle _____
(G) Final Shut-In Pressure			309	PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud			2077	PSI	Initial Shut-In <u>60</u>	Shale Packer _____
					Final Flow <u>45</u>	Ruined Packer <u>4200.00</u> <u>260</u>
					Final Shut-In <u>75</u>	Mileage <u>X 60</u> <u>75</u>
					T-On Location <u>10:45 a.m.</u>	Sub Total: _____
					T-Started <u>11:10 a.m.</u>	Std. By _____
					T-Open <u>12:25 p.m.</u>	Acc. Chg: <u>\$1860</u>
					T-Pulled <u>15:55 p.m.</u>	Other: _____
					T-Out <u>18:30 p.m.</u>	Total: _____

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Approved By [Signature]

Our Representative [Signature]

CHART PAGE

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

