

DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co, Inc.**

P.O. Box 48788
Wichita, KS 67201

ATTN: Rocky Milford

33-31s-13w-Barber-KS

Dugan Trust "E" #2

Start Date: 2005.12.10 @ 23:14:08

End Date: 2005.12.11 @ 07:52:38

Job Ticket #: 21937 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

TOOL DIAGRAM

Raymond Oil Co. Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21937

DST#: 1

ATTN: Rocky Milford

Test Start: 2005.12.10 @ 23:14:08

Tool Information

Drill Pipe:	Length: 2377.00 ft	Diameter: 3.80 inches	Volume: 33.34 bbl	Tool Weight: 2100.00 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: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 34.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	2639.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2617.00	
Hydraulic tool	5.00			2622.00	
Jars	5.00			2627.00	
Safety Joint	2.00			2629.00	
Packer	5.00			2634.00	27.00 Bottom Of Top Packer
Packer	5.00			2639.00	
Stubb	1.00			2640.00	
Recorder	0.00	6668	Inside	2640.00	
Perforations	18.00			2658.00	
Recorder	0.00	13266	Outside	2658.00	
Bullnose	3.00			2661.00	22.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



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33-31s-13w-Barber-KS

Job Ticket: 21937

DST#: 1

ATTN: Rocky Milford

Test Start: 2005.12.10 @ 23:14:08

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 55000.00 ppm

Filter Cake: 0.04 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	SGCM 5%g 95%m	0.590
60.00	MCW 10%m 90%w	0.295
0.00	RW= .30ohm@36degF= 48,000 chl ppm	0.000

Total Length: 180.00 ft

Total Volume: 0.885 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Raymond Oil Co, Inc.

Dugan Trust 'E' #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21937

DST#: 1

ATTN: Rocky Milford

Test Start: 2005.12.10 @ 23:14:08

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)
1	5	0.50	155.00	1142.72
1	5	0.50	155.00	1142.72
1	10	0.50	250.00	1783.56
1	15	0.75	133.00	2302.37
1	20	0.75	141.00	2427.33
1	25	0.75	146.00	2505.43
1	30	0.75	150.00	2567.90
2	5	0.75	156.00	2661.62
2	10	0.75	164.00	2786.58
2	15	0.75	174.00	2942.78
2	20	0.75	172.00	2911.54
2	25	0.75	166.00	2817.82
2	30	0.75	165.00	2802.20
2	35	0.75	166.00	2817.82
2	40	0.75	166.00	2817.82
2	45	0.75	166.00	2817.82

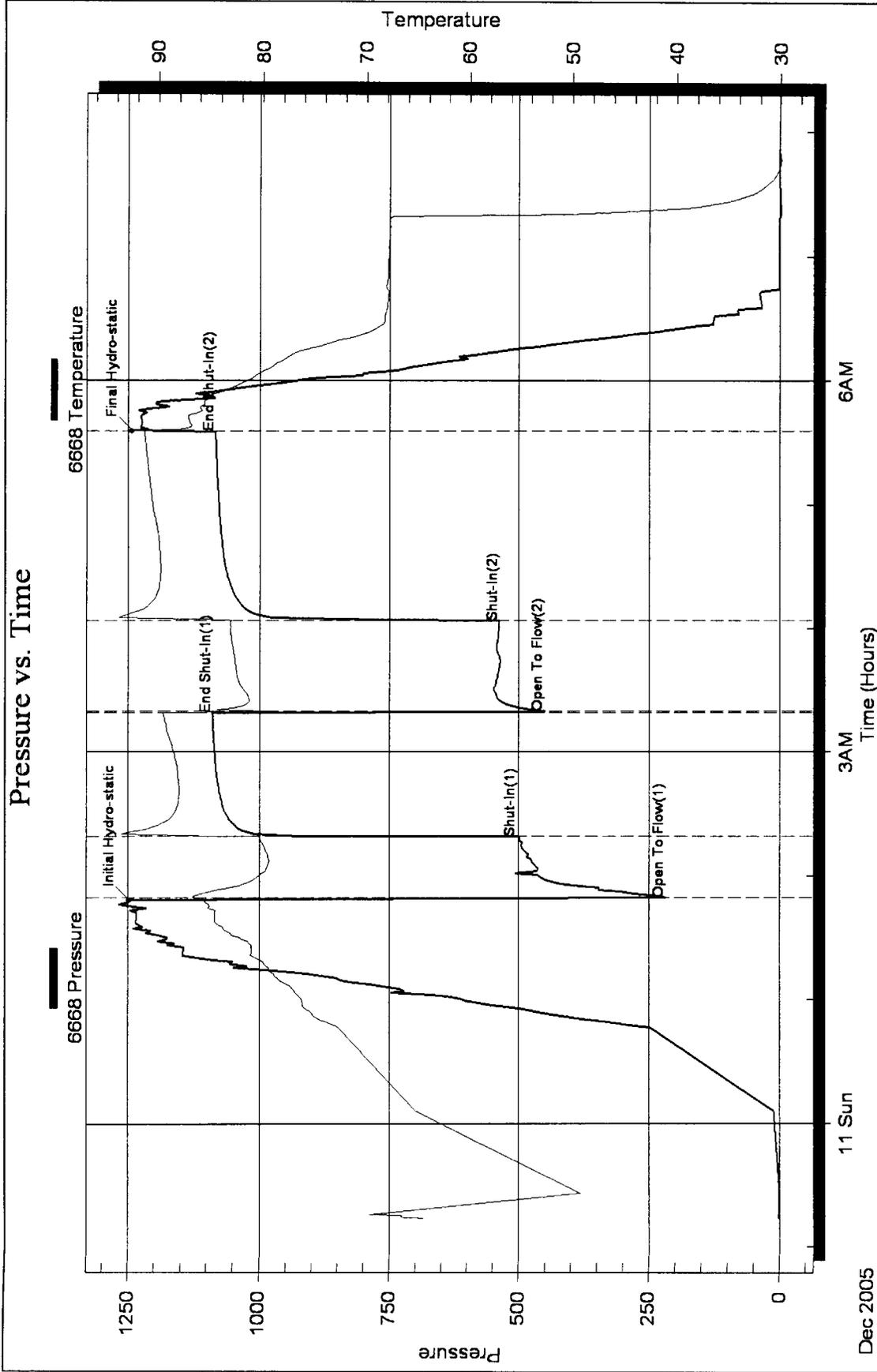
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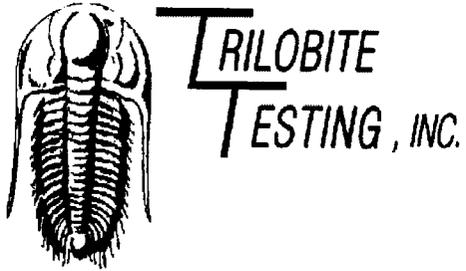
Inside

Raymond Oil Co, Inc.

33-31s-13w-Barber-KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co, Inc.**

P.O. Box 48788
Wichita, KS 67201

ATTN: Rocky Milford

33-31s-13w-Barber-KS

Dugan Trust "E" #2

Start Date: 2005.12.12 @ 07:15:47

End Date: 2005.12.12 @ 14:31:47

Job Ticket #: 21938 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

Raymond Oil Co, Inc.

P.O. Box 48788
Wichita, KS 67201

ATTN: Rocky Milford

Dugan Trust "E" #2

33-31s-13w-Barber-KS

Job Ticket: 21938

DST#: 2

Test Start: 2005.12.12 @ 07:15:47

GENERAL INFORMATION:

Formation: **Howard**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 09:15:17
 Time Test Ended: 14:31:47

Test Type: **Conventional Bottom Hole**
 Tester: **Jake Fahrenbruch**
 Unit No: **30**

Interval: **3057.00 ft (KB) To 3103.00 ft (KB) (TVD)**
 Total Depth: **3103.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1582.00 ft (KB)**
1571.00 ft (CF)
 KB to GR/CF: **11.00 ft**

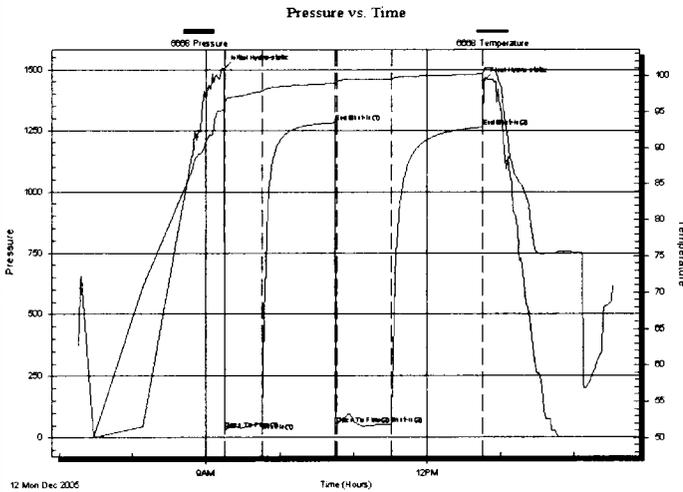
Serial #: 6668

Inside

Press@RunDepth: **53.15 psig @ 3058.00 ft (KB)**
 Start Date: **2005.12.12** End Date: **2005.12.12**
 Start Time: **07:15:48** End Time: **14:31:47**

Capacity: **7000.00 psig**
 Last Calib.: **2005.12.12**
 Time On Btm: **2005.12.12 @ 09:14:17**
 Time Off Btm: **2005.12.12 @ 12:45:47**

TEST COMMENT: IF: Strong blow, BOB 28 seconds, GTS 12 minutes 25 seconds.
 IS: Bled off, no blow back.
 FF: Strong blow, BOB immediately.
 FSI: Bled off, no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1502.09	95.16	Initial Hydro-static
1	31.21	96.29	Open To Flow (1)
31	59.60	97.82	Shut-In(1)
90	1282.30	98.94	End Shut-In(1)
92	52.35	99.14	Open To Flow (2)
137	53.15	99.50	Shut-In(2)
212	1263.76	100.24	End Shut-In(2)
212	1453.23	100.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	SLGCM 5%g 95%m	0.44
0.00	Gas in all fluid free pipe.	0.00
0.00	0	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	6.00	32.36
Last Gas Rate	0.25	18.00	51.40
Max. Gas Rate	0.25	18.00	51.40



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21938

DST#: 2

ATTN: Rocky Milford

Test Start: 2005.12.12 @ 07:15:47

Tool Information

Drill Pipe:	Length: 2912.00 ft	Diameter: 3.80 inches	Volume: 40.85 bbl	Tool Weight: 2100.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 41.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3057.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	73.00 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			3035.00	
Hydraulic tool	5.00			3040.00	
Jars	5.00			3045.00	
Safety Joint	2.00			3047.00	
Packer	5.00			3052.00	27.00 Bottom Of Top Packer
Packer	5.00			3057.00	
Stubb	1.00			3058.00	
Recorder	0.00	6668	Inside	3058.00	
Perforations	10.00			3068.00	
Blank Spacing	30.00			3098.00	
Recorder	0.00	13266	Outside	3098.00	
Bullnose	5.00			3103.00	46.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21938 **DST#: 2**

ATTN: Rocky Milford

Test Start: 2005.12.12 @ 07:15:47

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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.95 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 13000.00 ppm			
Filter Cake: 0.04 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	SLGCM 5%g 95%m	0.443
0.00	Gas in all fluid free pipe.	0.000
0.00	0	0.000

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 1 Num Gas Bombs: 0 Serial #:

Laboratory Name: Caraway Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21938

DST#: 2

ATTN: Rocky Milford

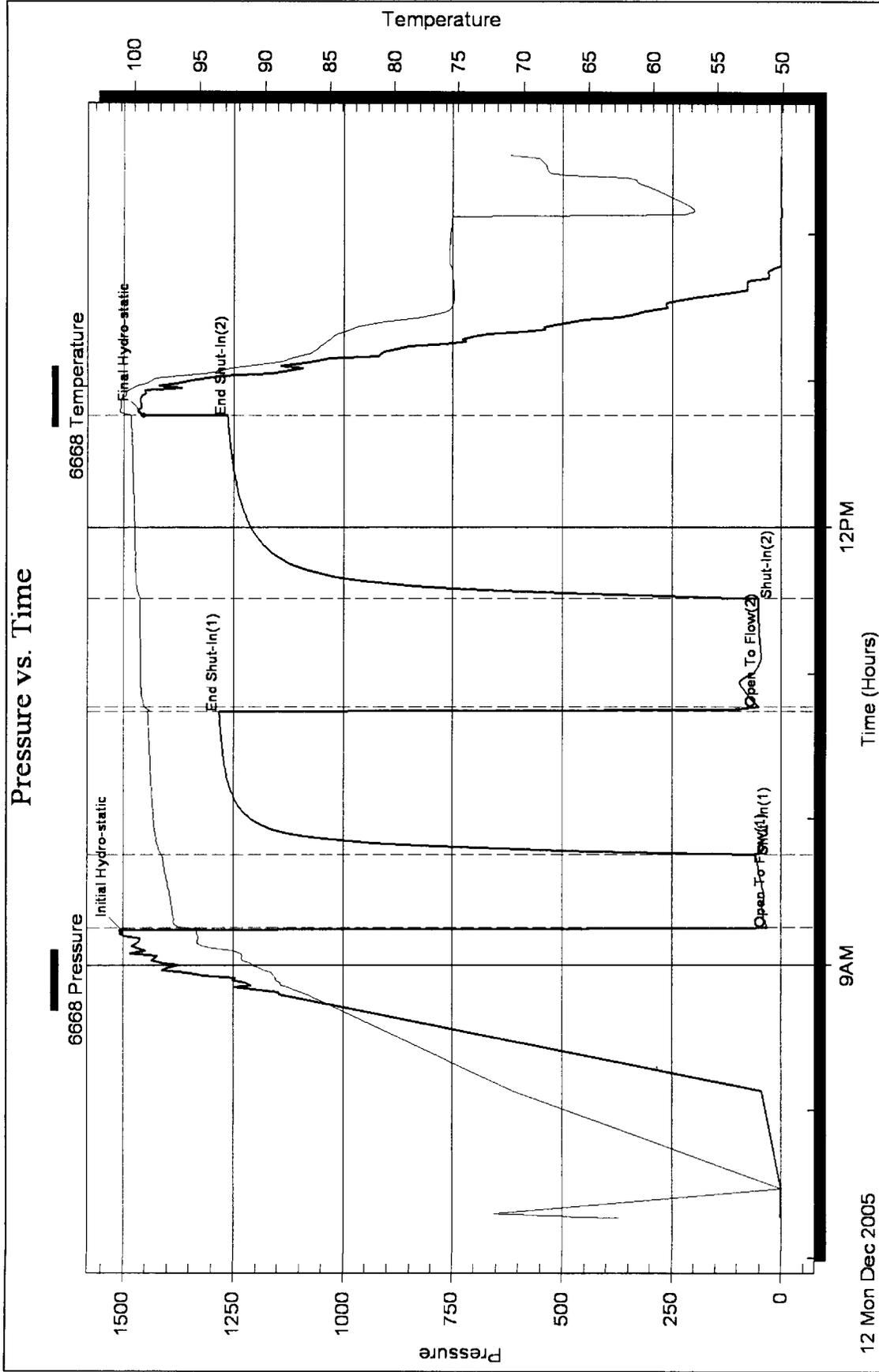
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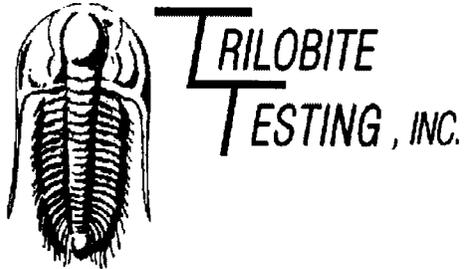
Gas Rates Information

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)
1	17	0.25	6.00	32.36
1	17	0.25	6.00	32.36
1	22	0.25	11.00	40.30
1	27	0.25	14.50	45.85
1	30	0.25	15.00	46.64
2	5	0.25	7.00	33.95
2	10	0.25	10.00	38.71
2	15	0.25	12.50	42.67
2	20	0.25	14.00	45.05
2	25	0.25	15.50	47.43
2	30	0.25	17.00	49.81
2	35	0.25	17.50	50.61
2	40	0.25	18.00	51.40
2	45	0.25	18.00	51.40





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Prepared For: **Raymond Oil Co, Inc.**

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ATTN: Rocky Milford

33-31s-13w-Barber-KS

Dugan Trust "E" #2

Start Date: 2005.12.13 @ 17:23:11

End Date: 2005.12.14 @ 01:30:41

Job Ticket #: 21938 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 Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21938

DST#: 3

ATTN: Rocky Milford

Test Start: 2005.12.13 @ 17:23:11

GENERAL INFORMATION:

Formation: **Upper Douglas Sand**

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

Time Tool Opened: 19:31:26

Time Test Ended: 01:30:41

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **30**

Interval: **3605.00 ft (KB) To 3642.00 ft (KB) (TVD)**

Total Depth: **3642.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1582.00 ft (KB)**

1571.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: 6668

inside

Press@RunDepth: **125.24 psig @ 3606.00 ft (KB)**

Start Date: **2005.12.13**

End Date:

2005.12.14

Start Time: **17:23:12**

End Time:

01:30:41

Capacity: **7000.00 psig**

Last Calib.: **2005.12.14**

Time On Btm: **2005.12.13 @ 19:30:11**

Time Off Btm: **2005.12.13 @ 23:01:56**

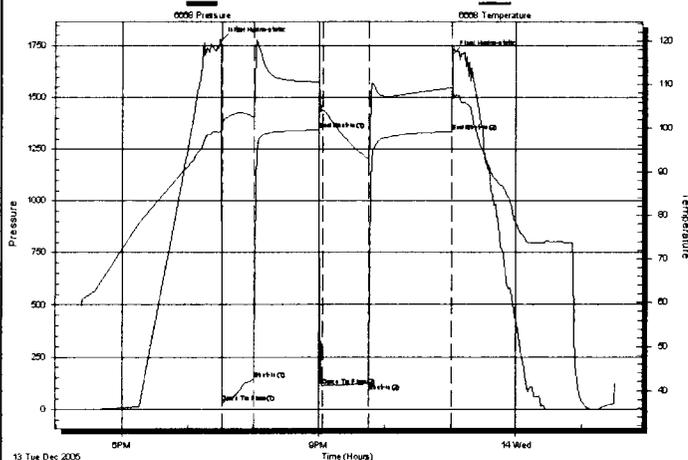
TEST COMMENT: **IF: Strong blow, BOB 35 seconds, GTS 10 minutes 12 seconds.**

ISl: Bled off, weak blow back @ .5".

FF: Strong blow, BOB immediately.

FSl: Bled off, no blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1774.42	99.48	Initial Hydro-static
2	28.88	101.02	Open To Flow (1)
30	142.04	102.50	Shut-In(1)
90	1344.17	110.60	End Shut-In(1)
93	111.61	104.05	Open To Flow (2)
136	125.24	92.68	Shut-In(2)
212	1335.76	109.23	End Shut-In(2)
212	1709.74	109.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	Drig Mud 100%m	0.97
0.00	Gas in all fluid free pipe.	0.00
0.00	0	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	28.00	67.26
Last Gas Rate	0.75	24.50	607.61
Max. Gas Rate	0.38	76.00	331.16



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21938

DST#: 3

ATTN: Rocky Milford

Test Start: 2005.12.13 @ 17:23:11

Tool Information

Drill Pipe:	Length: 3479.00 ft	Diameter: 3.80 inches	Volume: 48.80 bbl	Tool Weight: 2100.00 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 49.41 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3605.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 ft			
Tool Length:	64.00 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			3583.00	
Hydraulic tool	5.00			3588.00	
Jars	5.00			3593.00	
Safety Joint	2.00			3595.00	
Packer	5.00			3600.00	27.00 Bottom Of Top Packer
Packer	5.00			3605.00	
Stubb	1.00			3606.00	
Recorder	0.00	6668	Inside	3606.00	
Perforations	33.00			3639.00	
Recorder	0.00	13266	Outside	3639.00	
Bullnose	3.00			3642.00	37.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Co, Inc.

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33-31s-13w-Barber-KS

Job Ticket: 21938

DST#: 3

ATTN: Rocky Milford

Test Start: 2005.12.13 @ 17:23:11

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: 42.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 13000.00 ppm

Filter Cake: 0.04 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Drlg Mud 100%m	0.975
0.00	Gas in all fluid free pipe.	0.000
0.00	0	0.000

Total Length: 150.00 ft Total Volume: 0.975 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21938

DST#: 3

ATTN: Rocky Milford

Test Start: 2005.12.13 @ 17:23:11

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)
1	15	0.25	28.00	67.26
1	15	0.25	28.00	67.26
1	20	0.25	59.00	116.44
1	25	0.38	70.00	309.18
1	30	0.38	76.00	331.16
2	5	0.75	19.00	521.70
2	10	0.75	21.00	552.94
2	15	0.75	21.50	560.75
2	20	0.75	22.00	568.56
2	25	0.75	22.50	576.37
2	30	0.75	23.00	584.18
2	35	0.75	23.50	591.99
2	40	0.75	24.00	599.80
2	45	0.75	24.50	607.61

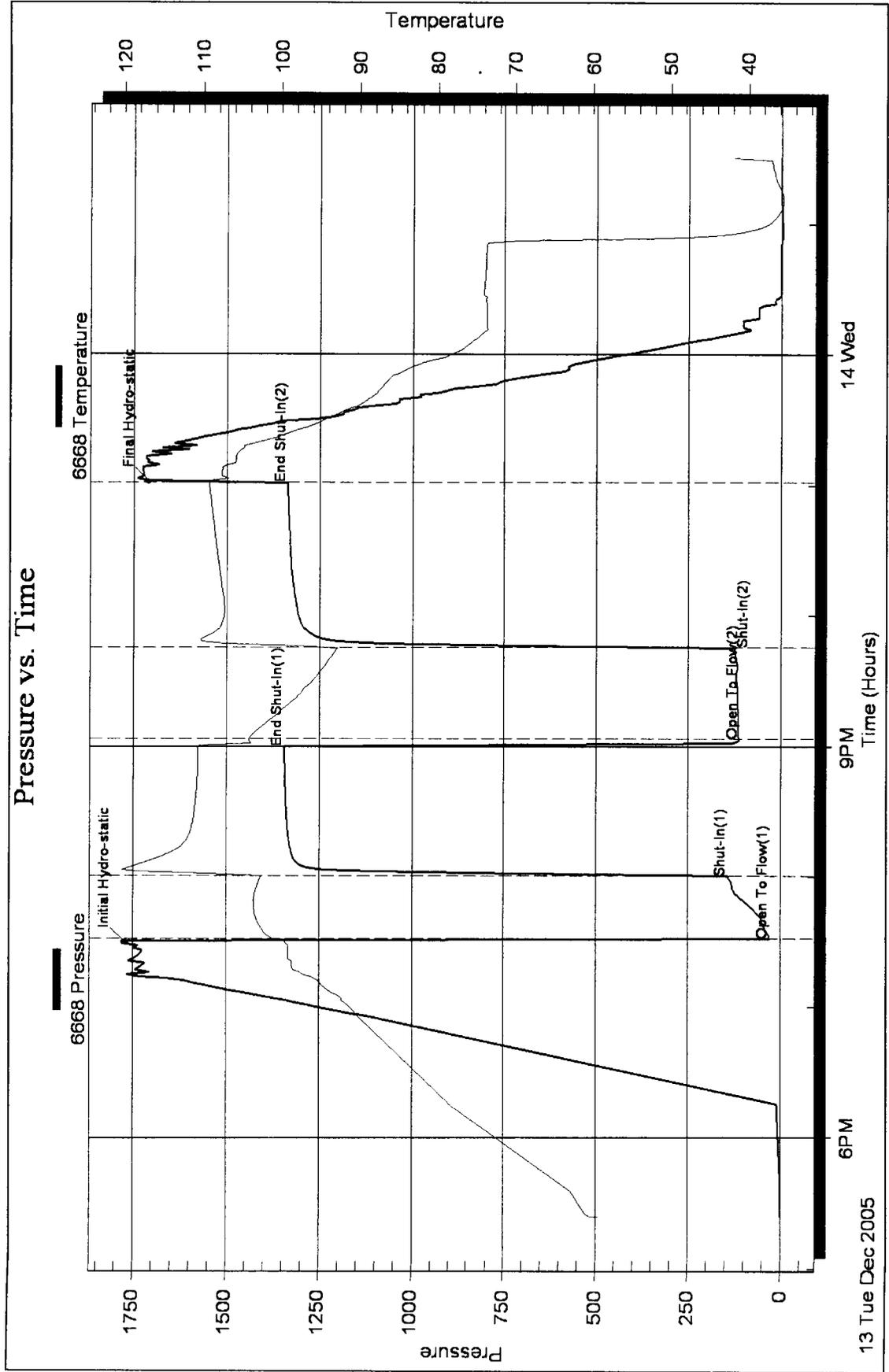
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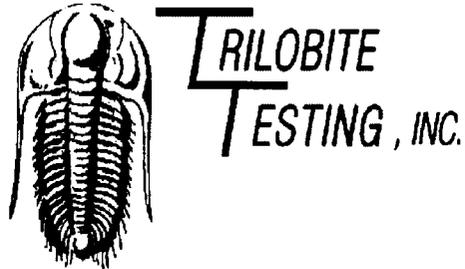
Inside

Raymond Oil Co, Inc.

33-31s-13w -Barber-KS

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co, Inc.**

P.O. Box 48788
Wichita, KS 67201

ATTN: Rocky Milford

33-31s-13w-Barber-KS

Dugan Trust "E" #2

Start Date: 2005.12.14 @ 11:14:20

End Date: 2005.12.14 @ 16:38:50

Job Ticket #: 21940 DST #: 4

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 Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

ATTN: Rocky Milford

Job Ticket: 21940

DST#: 4

Test Start: 2005.12.14 @ 11:14:20

GENERAL INFORMATION:

Formation: **Lower Douglas Sand**

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

Time Tool Opened: 12:46:20

Time Test Ended: 16:38:50

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **30**

Interval: **3713.00 ft (KB) To 3741.00 ft (KB) (TVD)**

Total Depth: **3741.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1582.00 ft (KB)**

1571.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: 6668

Inside

Press@RunDepth: **75.24 psig @ 3714.00 ft (KB)**

Start Date: **2005.12.14** End Date:

Start Time: **11:14:21** End Time:

2005.12.14

16:38:50

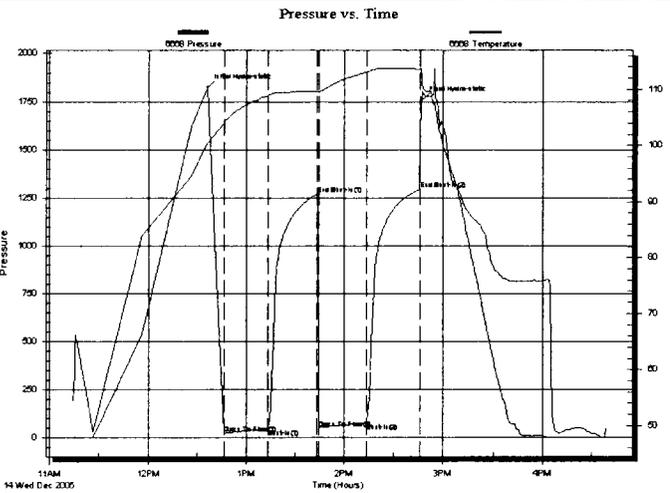
Capacity: **7000.00 psig**

Last Calib.: **2005.12.14**

Time On Btm: **2005.12.14 @ 12:36:20**

Time Off Btm: **2005.12.14 @ 14:47:05**

TEST COMMENT: IF: Fair blow, BOB 53 seconds.
IS: Bled off, no blow back.
FF: Fair blow, BOB 5 minutes 30 seconds.
FS: Bled off, weak surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1823.56	100.36	Initial Hydro-static
10	21.68	104.03	Open To Flow (1)
37	46.89	108.89	Shut-In(1)
67	1270.71	109.55	End Shut-In(1)
68	47.62	109.40	Open To Flow (2)
98	75.24	113.08	Shut-In(2)
130	1294.77	113.61	End Shut-In(2)
131	1755.97	112.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	HVCM 44%w 56%m	0.84
65.00	MCW 20%m 80%w	0.91
0.00	No GIP	0.00
0.00	RW= 19ohm@52degF=59000 chl. ppm	0.00
0.00	0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21940

DST#: 4

ATTN: Rocky Milford

Test Start: 2005.12.14 @ 11:14:20

Tool Information

Drill Pipe:	Length: 3699.00 ft	Diameter: 3.80 inches	Volume: 51.89 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 51.89 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3713.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3691.00	
Hydraulic tool	5.00			3696.00	
Jars	5.00			3701.00	
Safety Joint	2.00			3703.00	
Packer	5.00			3708.00	27.00 Bottom Of Top Packer
Packer	5.00			3713.00	
Stubb	1.00			3714.00	
Recorder	0.00	6668	Inside	3714.00	
Perforations	24.00			3738.00	
Recorder	0.00	13266	Outside	3738.00	
Bullnose	3.00			3741.00	28.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21940

DST#: 4

ATTN: Rocky Milford

Test Start: 2005.12.14 @ 11:14:20

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:

bbbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 13000.00 ppm

Filter Cake: 0.04 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	HMCM 44%w 56%m	0.842
65.00	MCW 20%m 80%w	0.912
0.00	No GIP	0.000
0.00	RV= .19ohm@52degF=59000 chl. ppm	0.000
0.00	0	0.000

Total Length: 125.00 ft

Total Volume: 1.754 bbl

Num Fluid Samples: 0

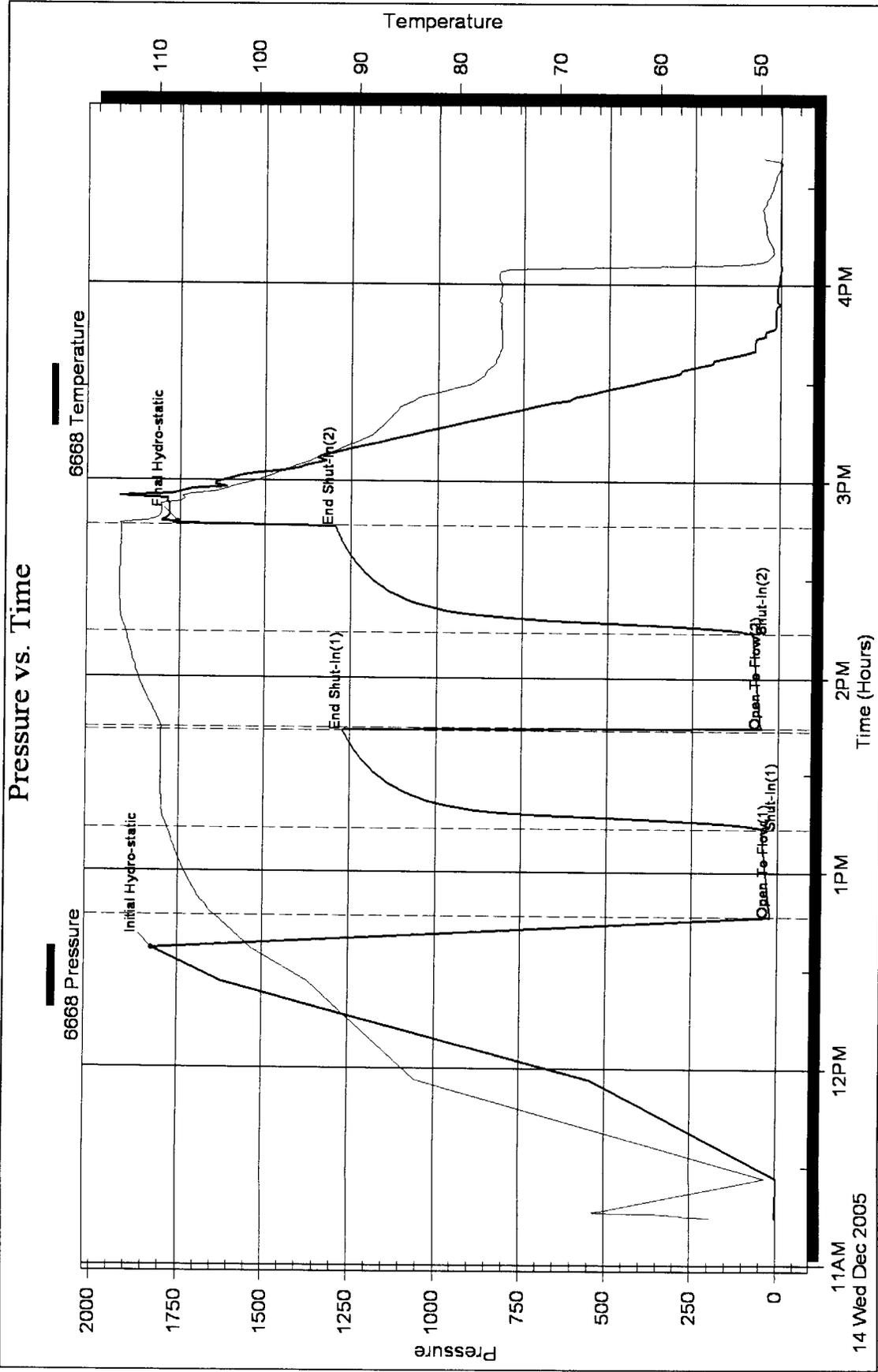
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co, Inc.**

P.O. Box 48788
Wichita, KS 67201

ATTN: Rocky Milford

33-31s-13w-Barber-KS

Dugan Trust "E" #2

Start Date: 2005.12.15 @ 01:26:17

End Date: 2005.12.15 @ 06:23:02

Job Ticket #: 21941 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 Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21941

DST#: 5

ATTN: Rocky Milford

Test Start: 2005.12.15 @ 01:26:17

GENERAL INFORMATION:

Formation: **Lansing**

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

Time Tool Opened:

Time Test Ended: **06:23:02**

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **30**

Interval: **3795.00 ft (KB) To 3825.00 ft (KB) (TVD)**

Total Depth: **3825.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **1582.00 ft (KB)**

1571.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: 6668

Inside

Press@RunDepth: **psig @ 3796.00 ft (KB)**

Start Date: **2005.12.15**

End Date: **2005.12.15**

Start Time: **01:26:18**

End Time: **06:23:02**

Capacity: **7000.00 psig**

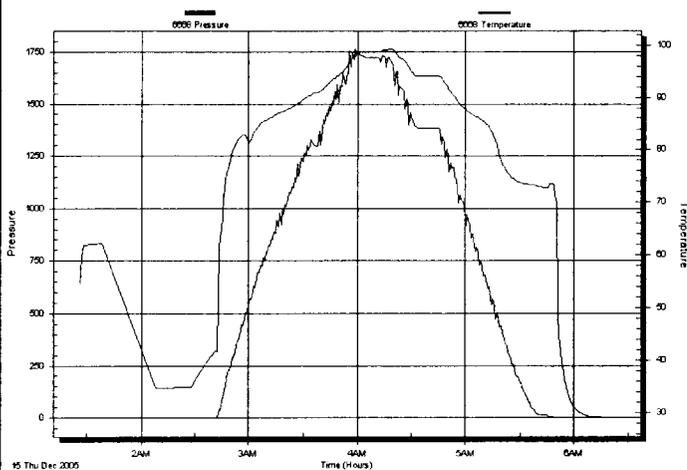
Last Calib.: **2005.12.15**

Time On Btm:

Time Off Btm:

TEST COMMENT: Hit bridge w hile T.I.H. w /tool at approx 220' from bottom.
Rocky called company man, decided to pull tool out of hole
and go back in w /bit to CTCH. Was 04:00 w hen w e hit the bridge.
MIS-RUN

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

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

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21941

DST#: 5

ATTN: Rocky Milford

Test Start: 2005.12.15 @ 01:26:17

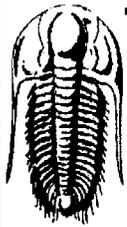
Tool Information

Drill Pipe:	Length: 3793.00 ft	Diameter: 3.80 inches	Volume: 53.21 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 0.00 lb
			<u>Total Volume: 53.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 0.00 lb
Depth to Top Packer:	3795.00 ft			Final 0.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 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			3773.00	
Hydraulic tool	5.00			3778.00	
Jars	5.00			3783.00	
Safety Joint	2.00			3785.00	
Packer	5.00			3790.00	27.00 Bottom Of Top Packer
Packer	5.00			3795.00	
Stubb	1.00			3796.00	
Recorder	0.00	6668	Inside	3796.00	
Perforations	26.00			3822.00	
Recorder	0.00	13266	Outside	3822.00	
Bullnose	3.00			3825.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21941

DST#: 5

ATTN: Rocky Milford

Test Start: 2005.12.15 @ 01:26:17

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:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 13000.00 ppm

Filter Cake: 0.04 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:

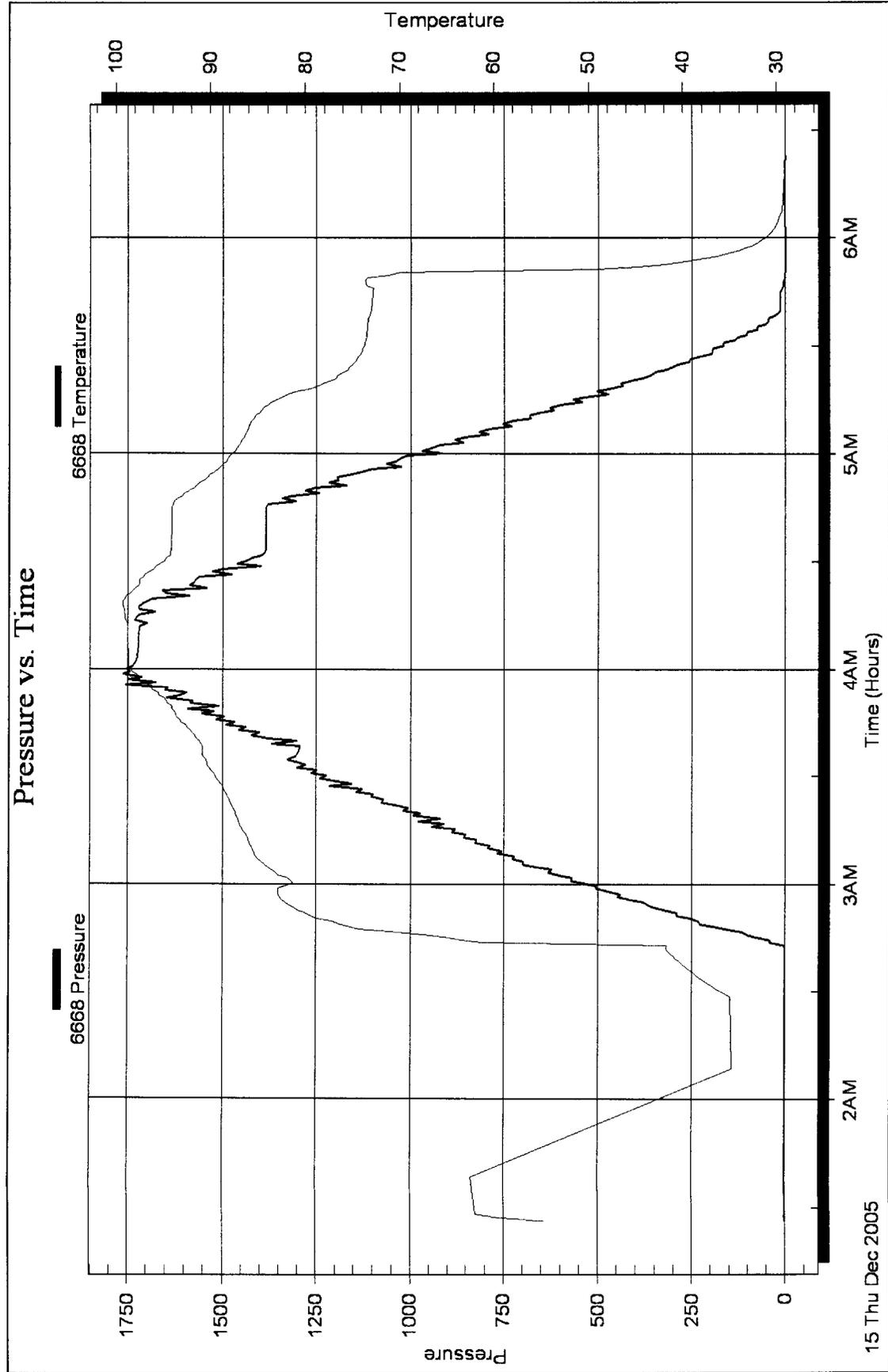
Serial #: 6668

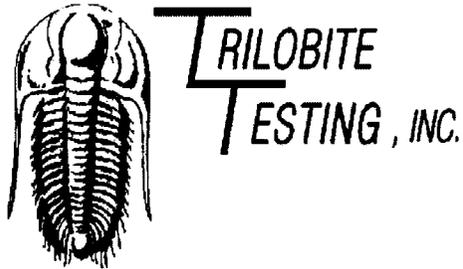
Inside

Raymond Oil Co, Inc.

33-31s-13w -Barber-KS

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co, Inc.**

P.O. Box 48788
Wichita, KS 67201

ATTN: Rocky Milford

33-31s-13w-Barber-KS

Dugan Trust "E" #2

Start Date: 2005.12.15 @ 13:47:05

End Date: 2005.12.15 @ 20:54:35

Job Ticket #: 21942 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 Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21942

DST#: 6

ATTN: Rocky Milford

Test Start: 2005.12.15 @ 13:47:05

GENERAL INFORMATION:

Formation: **Lansing 35' zone**

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

Time Tool Opened: 15:39:50

Time Test Ended: 20:54:35

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **30**

Interval: **3795.00 ft (KB) To 3825.00 ft (KB) (TVD)**

Reference Elevations: **1582.00 ft (KB)**

Total Depth: **3825.00 ft (KB) (TVD)**

1571.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

KB to GR/CF: **11.00 ft**

Serial #: 6668

Inside

Press@RunDepth: **78.80 psig @ 3796.00 ft (KB)**

Capacity: **7000.00 psig**

Start Date: **2005.12.15** End Date: **2005.12.15**

Last Calib.: **2005.12.15**

Start Time: **13:47:06** End Time: **20:54:35**

Time On Btm: **2005.12.15 @ 15:30:20**

Time Off Btm: **2005.12.15 @ 19:03:50**

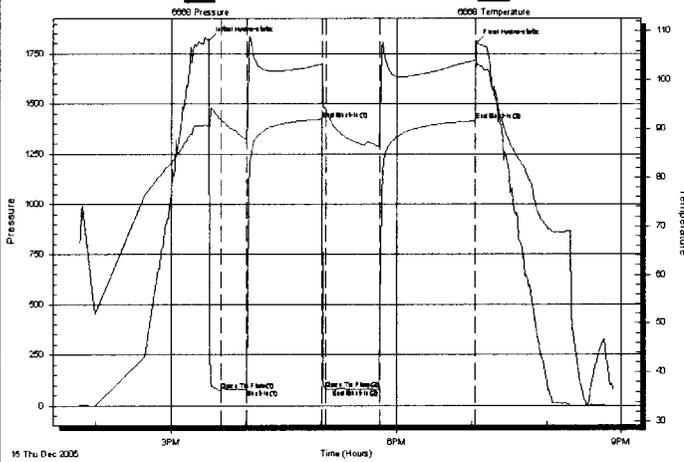
TEST COMMENT: F: Strong blow, BOB 13 seconds, GTS 3 minutes 10 seconds.

IS: Bled off, weak blow back @ .5".

FF: Strong blow BOB immediately.

FS: Bled off, weak blow back @ 1".

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1818.51	90.76	Initial Hydro-static
10	75.50	91.73	Open To Flow (1)
30	78.80	87.73	Shut-In(1)
91	1422.80	103.34	End Shut-In(1)
94	80.63	93.80	Open To Flow (2)
136	76.93	86.26	End Shut-In(2)
213	1414.69	104.00	End Shut-In(3)
214	1803.80	103.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Drig Mud 100%m	0.70
0.00	Gas in all fluid free pipe.	0.00
0.00	0	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	10.00	381.12
Last Gas Rate	0.63	18.50	352.06
Max. Gas Rate	0.63	21.00	378.81



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21942

DST#: 6

ATTN: Rocky Milford

Test Start: 2005.12.15 @ 13:47:05

Tool Information

Drill Pipe:	Length: 3793.00 ft	Diameter: 3.80 inches	Volume: 53.21 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 53.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3795.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 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			3773.00	
Hydraulic tool	5.00			3778.00	
Jars	5.00			3783.00	
Safety Joint	2.00			3785.00	
Packer	5.00			3790.00	27.00 Bottom Of Top Packer
Packer	5.00			3795.00	
Stubb	1.00			3796.00	
Recorder	0.00	6668	Inside	3796.00	
Perforations	26.00			3822.00	
Recorder	0.00	13266	Outside	3822.00	
Bullnose	3.00			3825.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21942

DST#: 6

ATTN: Rocky Milford

Test Start: 2005.12.15 @ 13:47:05

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 13000.00 ppm			
Filter Cake: 0.04 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Drig Mud 100%m	0.701
0.00	Gas in all fluid free pipe.	0.000
0.00	0	0.000

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21942

DST#: 6

ATTN: Rocky Milford

Test Start: 2005.12.15 @ 13:47:05

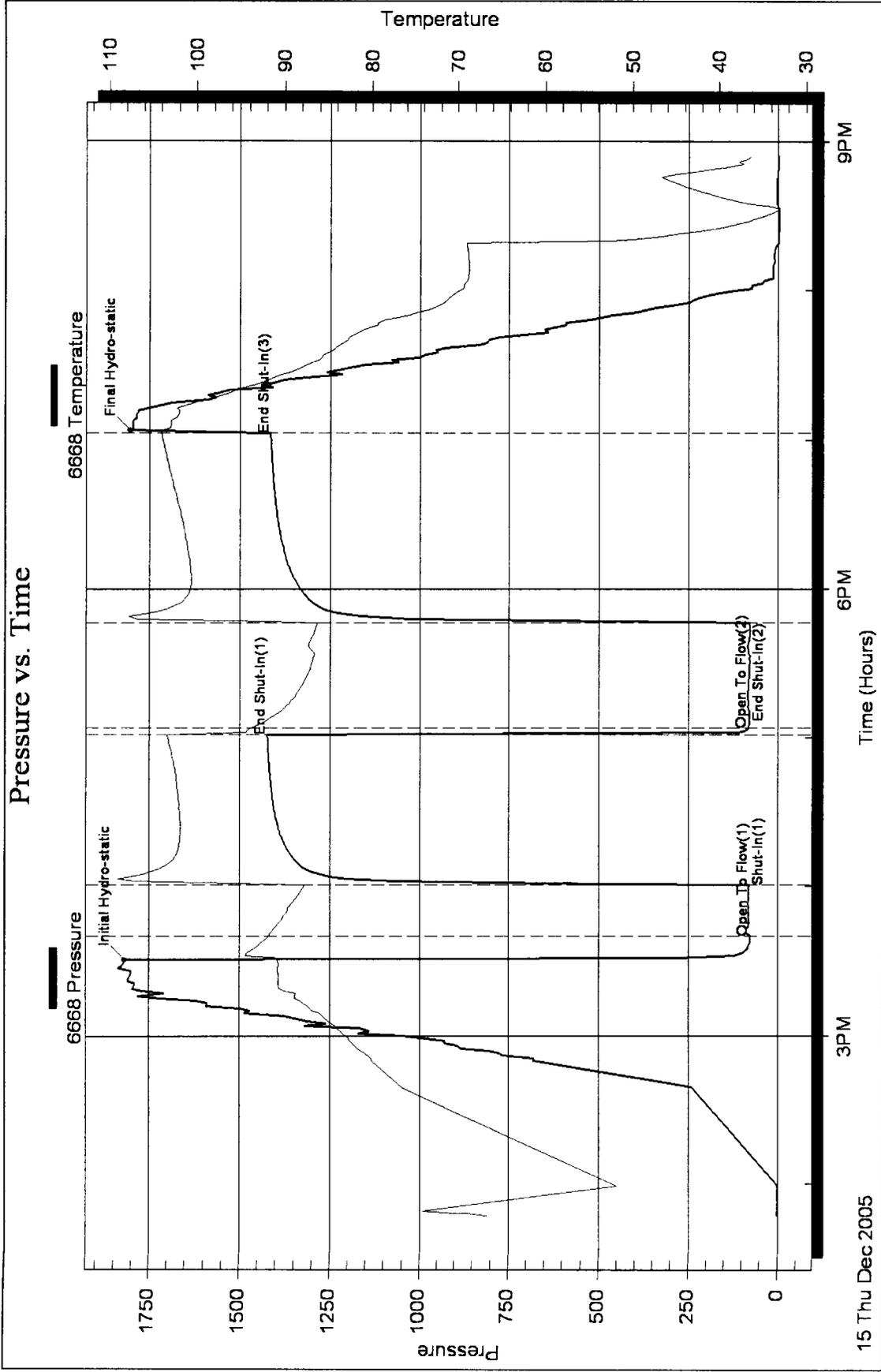
Gas Rates Information

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)
1	5	0.75	10.00	381.12
1	5	0.75	10.00	381.12
1	10	0.75	10.00	381.12
1	15	0.75	9.00	365.50
1	20	0.75	9.00	365.50
1	25	0.75	8.50	357.69
1	30	0.75	8.00	349.88
2	5	0.63	19.00	357.40
2	10	0.63	21.00	378.81
2	15	0.63	21.00	378.81
2	20	0.63	20.50	373.46
2	25	0.63	20.00	368.11
2	30	0.63	19.50	362.76
2	35	0.63	19.00	357.40
2	40	0.63	19.00	357.40
2	45	0.63	18.50	352.06

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co, Inc.**

P.O. Box 48788
Wichita, KS 67201

ATTN: Rocky Milford

33-31s-13w-Barber-KS

Dugan Trust "E" #2

Start Date: 2005.12.16 @ 11:18:21

End Date: 2005.12.16 @ 19:54:06

Job Ticket #: 21943 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Raymond Oil Co, Inc.

Dugan Trust "E" #2

33-31s-13w-Barber-KS

DST # 7

Lansing, Kansas City

2005.12.16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

ATTN: Rocky Milford

Job Ticket: 21943

DST#: 7

Test Start: 2005.12.16 @ 11:18:21

GENERAL INFORMATION:

Formation: **Lansing, Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:04:06

Time Test Ended: 19:54:06

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 30

Interval: **3981.00 ft (KB) To 4004.00 ft (KB) (TVD)**

Total Depth: 4004.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1582.00 ft (KB)

1571.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6668

Inside

Press@RunDepth: 981.32 psig @ 3982.00 ft (KB)

Start Date: 2005.12.16

End Date:

2005.12.16

Start Time: 11:18:22

End Time:

19:54:06

Capacity: 7000.00 psig

Last Calib.: 2005.12.16

Time On Btm: 2005.12.16 @ 13:01:36

Time Off Btm: 2005.12.16 @ 16:37:36

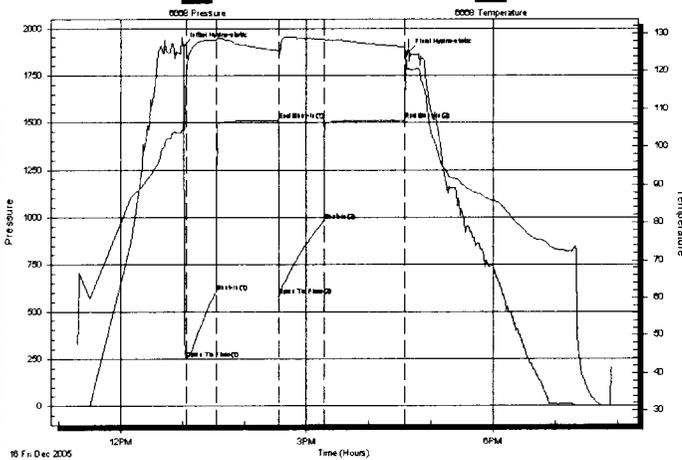
TEST COMMENT: IF: Strong blow, BOB 12 seconds, GTS 5 minutes 45 seconds.

IS: Bled down 10 minutes, blow back BOB.

FF: Strong blow, BOB immediately.

FS: Bled down 10 minutes, blow back BOB.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1907.15	104.78	Initial Hydro-static
3	249.17	119.24	Open To Flow (1)
32	606.29	128.20	Shut-In(1)
92	1513.51	125.33	End Shut-In(1)
92	584.67	124.68	Open To Flow (2)
135	981.32	128.48	Shut-In(2)
213	1513.51	126.44	End Shut-In(2)
216	1872.25	120.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
135.00	HGCCOM 32%g18%o50%m	1.89
186.00	Free oil	2.61
1632.00	Salt Water	22.89
0.00	RW= .3ohm@44degF=38000 chl ppm	0.00
0.00	No check on gravity, spilled saved oil.	0.00
0.00	0	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	10.50	39.50
Last Gas Rate	0.13	12.00	9.88
Max. Gas Rate	0.25	17.00	49.81



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21943

DST#: 7

ATTN: Rocky Milford

Test Start: 2005.12.16 @ 11:18:21

Tool Information

Drill Pipe:	Length: 3985.00 ft	Diameter: 3.80 inches	Volume: 55.90 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 55.90 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3981.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3959.00	
Hydraulic tool	5.00			3964.00	
Jars	5.00			3969.00	
Safety Joint	2.00			3971.00	
Packer	5.00			3976.00	27.00 Bottom Of Top Packer
Packer	5.00			3981.00	
Stubb	1.00			3982.00	
Recorder	0.00	6668	Inside	3982.00	
Perforations	19.00			4001.00	
Recorder	0.00	13266	Outside	4001.00	
Bullnose	3.00			4004.00	23.00 Bottom Packers & Anchor

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21943

DST#: 7

ATTN: Rocky Milford

Test Start: 2005.12.16 @ 11:18:21

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: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 16000.00 ppm

Filter Cake: 0.04 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
135.00	HGCCOM 32%g 18%o 50%m	1.894
186.00	Free oil	2.609
1632.00	Salt Water	22.893
0.00	RW= .3ohm@44degF=38000 chl ppm	0.000
0.00	No check on gravity, spilled saved oil.	0.000
0.00	0	0.000

Total Length: 1953.00 ft

Total Volume: 27.396 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21943

DST#: 7

ATTN: Rocky Milford

Test Start: 2005.12.16 @ 11:18:21

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)
1	10	0.25	10.50	39.50
1	10	0.25	10.50	39.50
1	15	0.25	14.00	45.05
1	20	0.25	16.00	48.23
1	25	0.25	16.50	49.02
1	30	0.25	17.00	49.81
2	5	0.13	1.50	5.95
2	10	0.13	2.50	6.33
2	15	0.13	3.00	6.51
2	20	0.13	4.00	6.89
2	25	0.13	5.00	7.26
2	30	0.13	5.50	7.45
2	35	0.13	8.00	8.38
2	40	0.13	10.50	9.32
2	45	0.13	12.00	9.88

Serial #: 6668

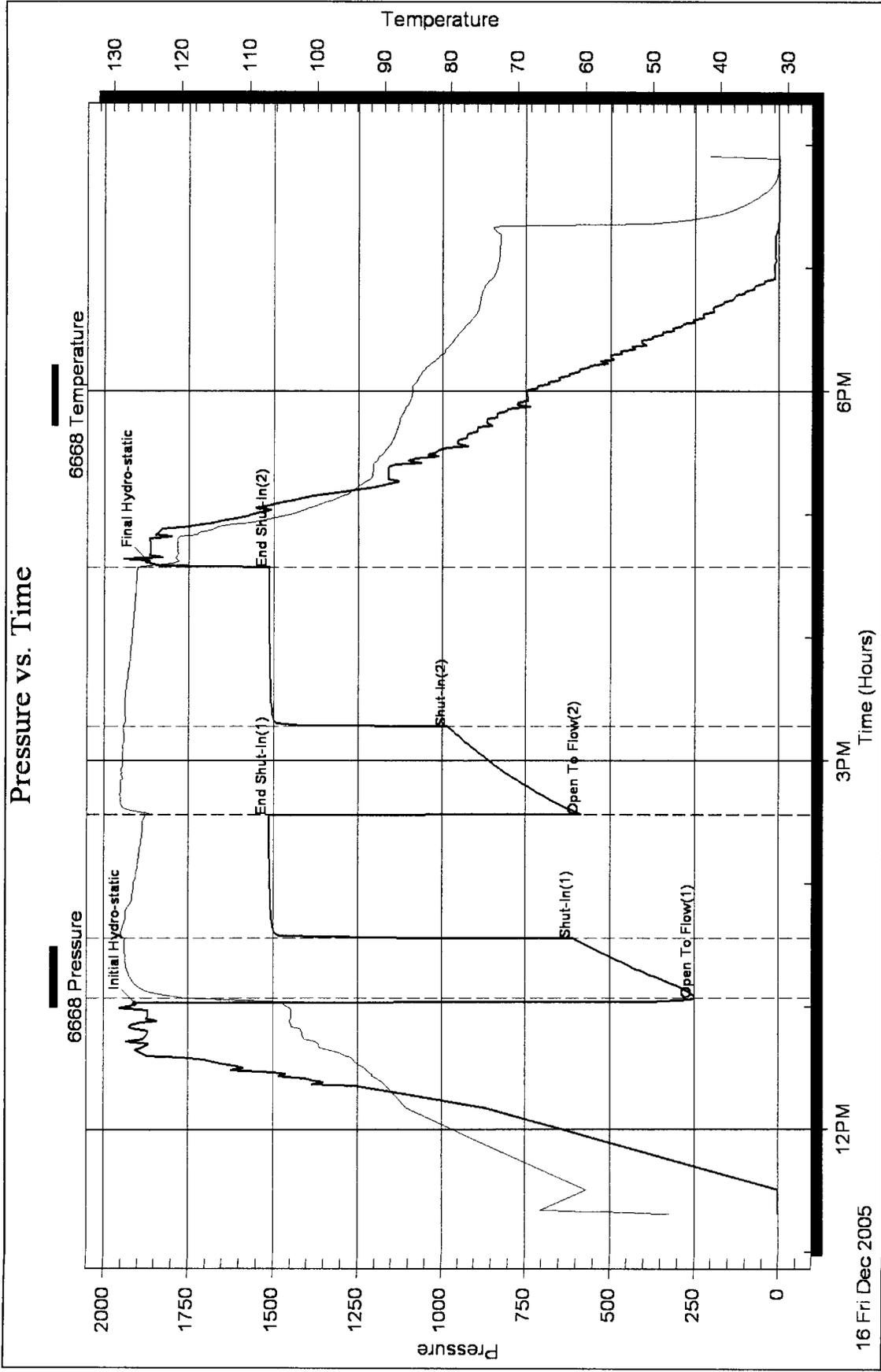
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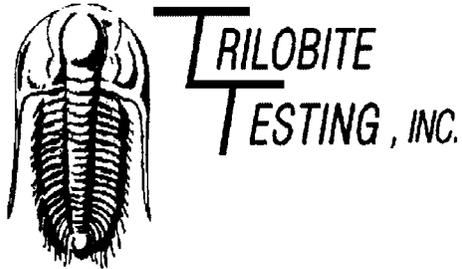
Raymond Oil Co., Inc.

33-31s-13w -Barber-KS

DST Test Number: 7

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Co, Inc.**

P.O. Box 48788
Wichita, KS 67201

ATTN: Rocky Milford

33-31s-13w-Barber-KS

Dugan Trust "E" #2

Start Date: 2005.12.17 @ 06:14:51

End Date: 2005.12.17 @ 14:36:36

Job Ticket #: 21944 DST #: 8

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 Co, Inc.

P.O. Box 48788
Wichita, KS 67201

ATTN: Rocky Milford

Dugan Trust "E" #2

33-31s-13w-Barber-KS

Job Ticket: 21944

DST#: 8

Test Start: 2005.12.17 @ 06:14:51

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

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

Time Tool Opened: 08:54:51

Time Test Ended: 14:36:36

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 30

Interval: **4060.00 ft (KB) To 4079.00 ft (KB) (TVD)**

Total Depth: 4079.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1582.00 ft (KB)

1571.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6668**

Inside

Press@RunDepth: 117.16 psig @ 4061.00 ft (KB)

Start Date: 2005.12.17

End Date:

2005.12.17

Start Time: 06:14:52

End Time:

14:36:36

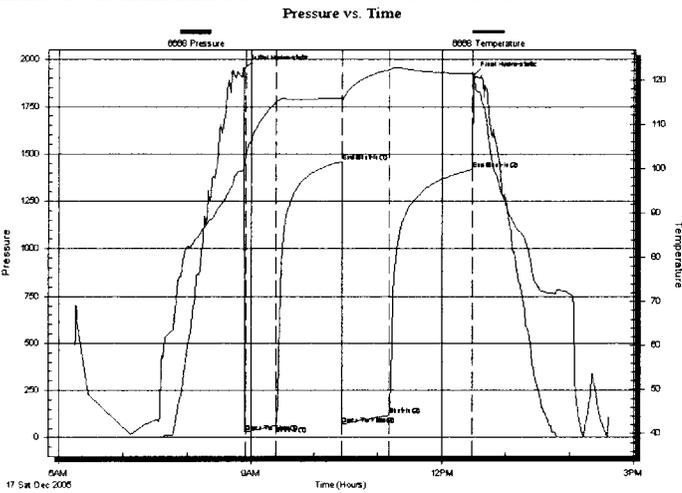
Capacity: 7000.00 psig

Last Calib.: 2005.12.17

Time On Btm: 2005.12.17 @ 08:53:51

Time Off Btm: 2005.12.17 @ 12:29:51

TEST COMMENT: IF: Fair blow, BOB 11 minutes.
IS: Bled off, weak surface blow back.
FF: Fair blow, BOB 26 minutes.
FS: Bled off, weak surface blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1950.39	100.28	Initial Hydro-static
1	29.68	102.88	Open To Flow (1)
30	64.21	115.10	Shut-In(1)
93	1460.88	115.91	End Shut-In(1)
93	70.95	115.32	Open To Flow (2)
137	117.16	122.28	Shut-In(2)
215	1417.30	121.33	End Shut-In(2)
216	1914.01	121.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	SLOCM 8%o 92%m	0.21
62.00	SLOCM 6%o 30%w 64%m	0.87
124.00	Salt water 100%w	1.74
0.00	RW= .15ohm@52degF= 69,000 ppm chl	0.00
0.00	0	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21944

DST#: 8

ATTN: Rocky Milford

Test Start: 2005.12.17 @ 06:14:51

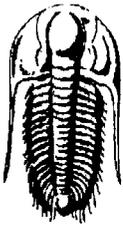
Tool Information

Drill Pipe:	Length: 4045.00 ft	Diameter: 3.80 inches	Volume: 56.74 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 56.74 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4060.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	46.00 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			4038.00	
Hydraulic tool	5.00			4043.00	
Jars	5.00			4048.00	
Safety Joint	2.00			4050.00	
Packer	5.00			4055.00	27.00 Bottom Of Top Packer
Packer	5.00			4060.00	
Stubb	1.00			4061.00	
Recorder	0.00	6668	Inside	4061.00	
Perforations	15.00			4076.00	
Recorder	0.00	13266	Outside	4076.00	
Bullnose	3.00			4079.00	19.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Co, Inc.

Dugan Trust "E" #2

P.O. Box 48788
Wichita, KS 67201

33-31s-13w-Barber-KS

Job Ticket: 21944

DST#: 8

ATTN: Rocky Milford

Test Start: 2005.12.17 @ 06:14:51

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 0.04 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	SLOCM 8%o 92%m	0.210
62.00	SLOCMM 6%o 30%w 64%m	0.870
124.00	Salt water 100%w	1.739
0.00	RW= .15ohm@52degF= 69,000 ppm chl	0.000
0.00	0	0.000

Total Length: 201.00 ft

Total Volume: 2.819 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

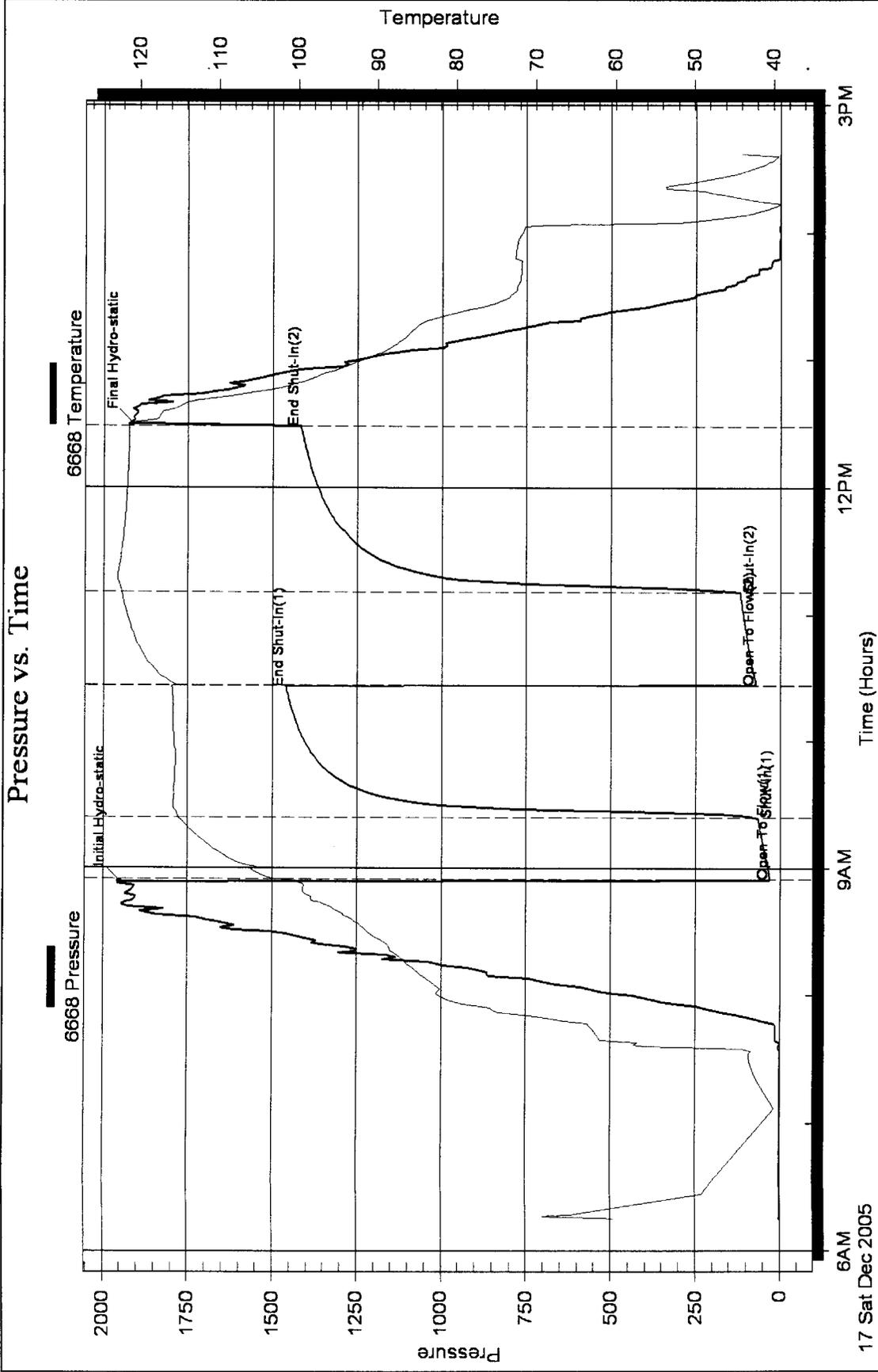
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



17 Sat Dec 2005

6AM

9AM

12PM

3PM

CHART PAGE

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

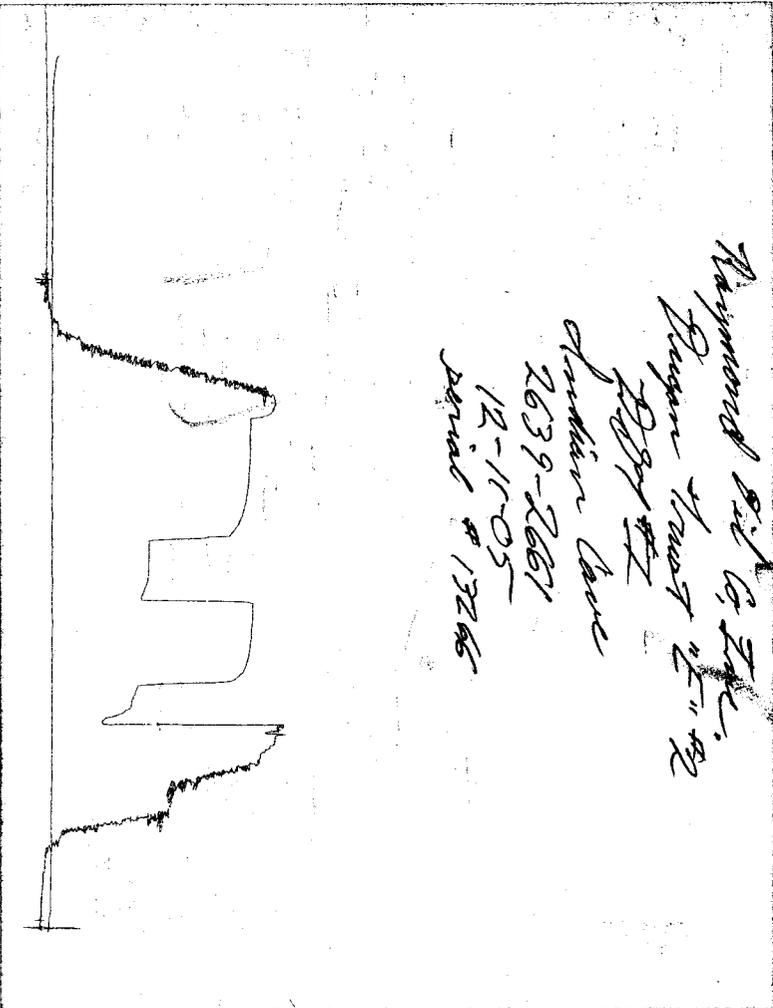


CHART PAGE

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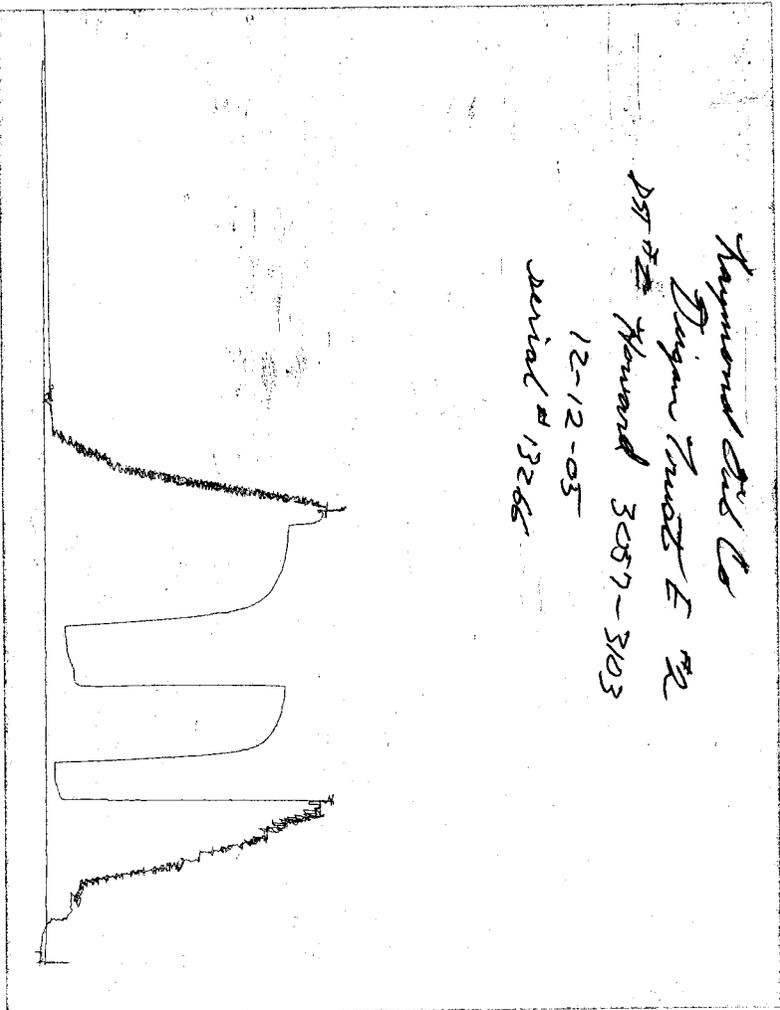


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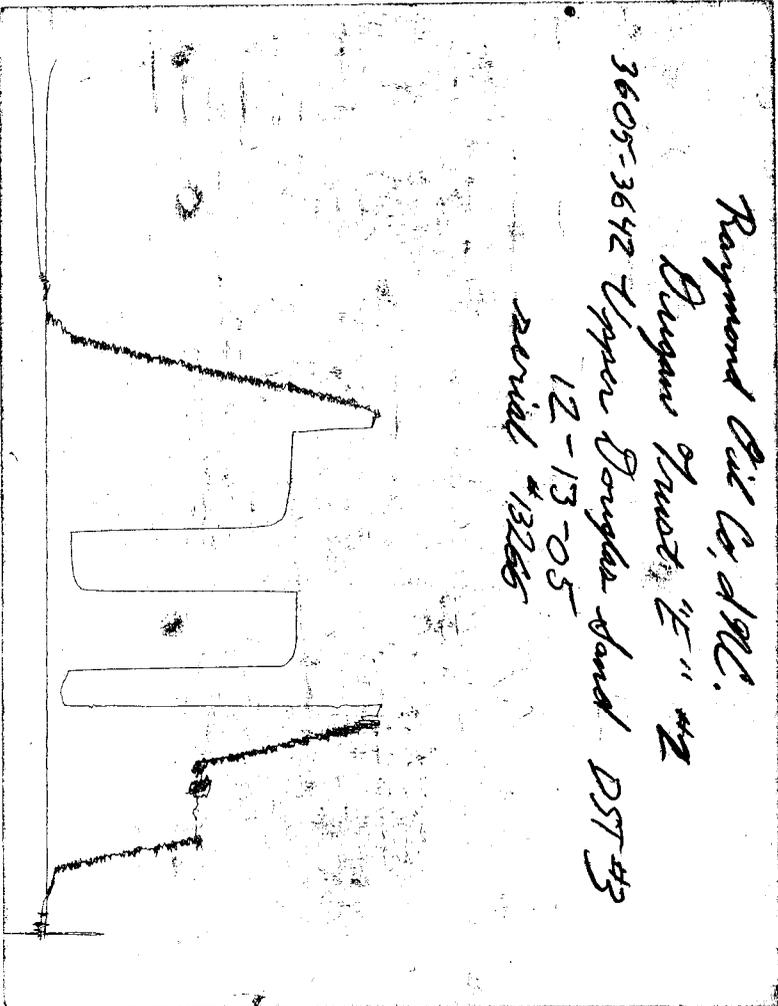


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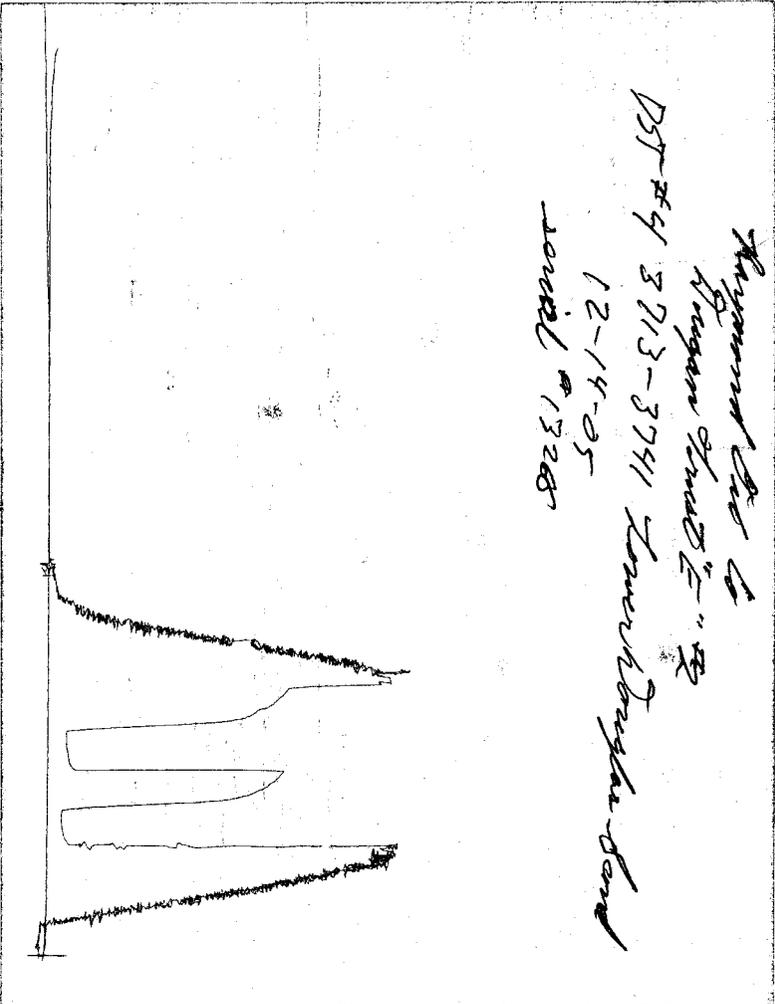


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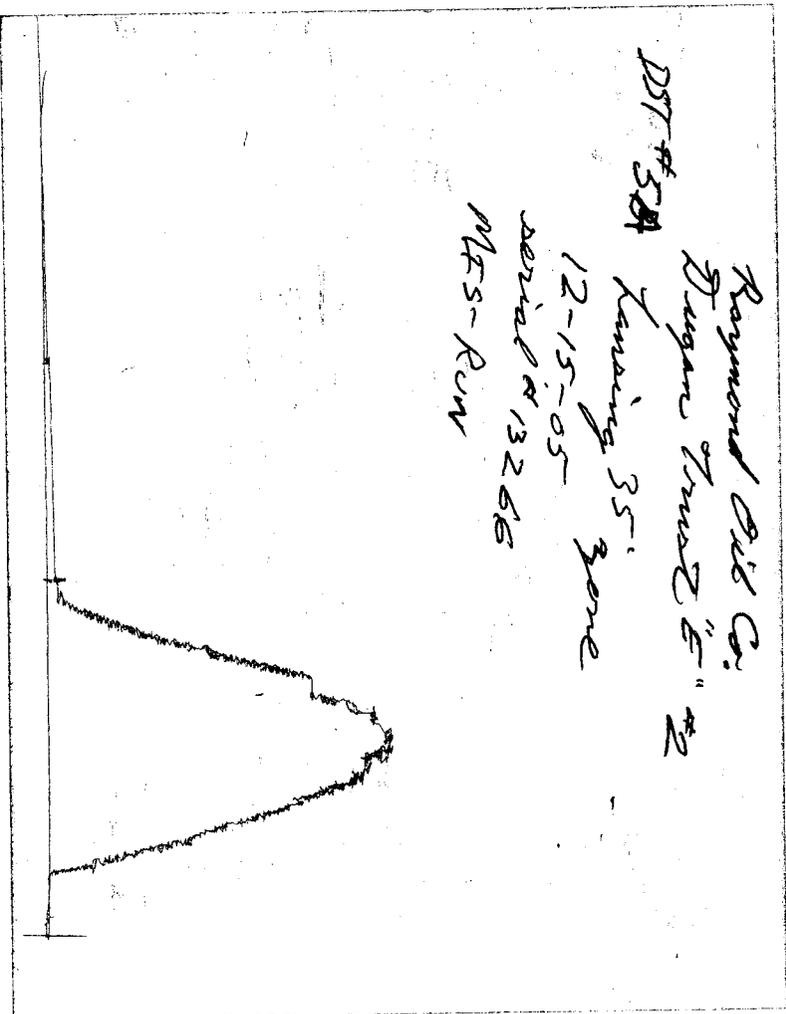


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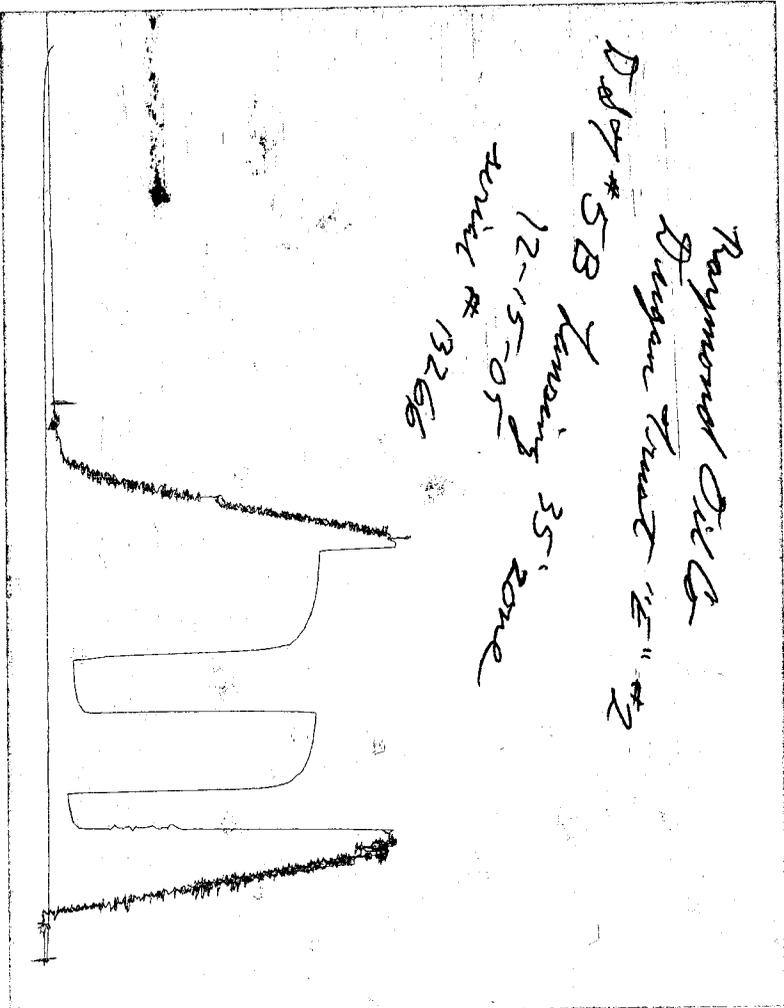


CHART PAGE
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