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FROM CONFIDENTIAL



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

ORIGINAL

Prepared For: Raney Oil Company LLC

3425 Tam O'Shanter
Lawrence, Ks 66047

CONFIDENTIAL
KCC
JAN 25 2003

ATTN: Tom Raney

25-11s-18w Ellis Ks

CONFIDENTIAL

Marshall #1

Start Date: 2002.12.03 @ 11:25:57
End Date: 2002.12.03 @ 16:31:56
Job Ticket #: 16788 DST #: 1

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

CONFIDENTIAL

99468

ORIGINAL

DRILL STEM TEST REPORT

Raney Oil Company LLC

3425 Tam O'Shanter
Lawrence, Ks 66047

ATTN: Tom Raney

Marshall #1

25-11s-18w Ellis Ks

Job Ticket: 16788 **DST#: 1**

Test Start: 2002.12.03 @ 11:25:57

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:33:26
Time Test Ended: 16:31:56

KCC
JAN 25 2003
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Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 16

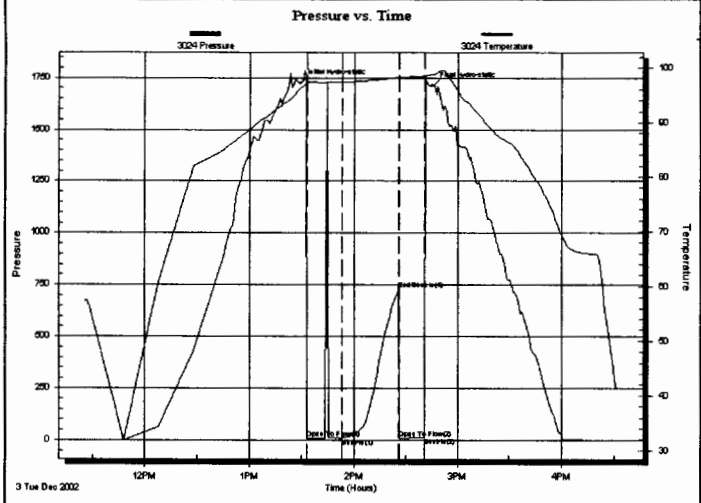
Interval: 3516.00 ft (KB) To 3531.00 ft (KB) (TVD)
Total Depth: 3531.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1964.00 ft (KB)
1955.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 3024 **Inside**
Press@RunDepth: 10.48 psig @ 3517.01 ft (KB)
Start Date: 2002.12.03 End Date: 2002.12.03
Start Time: 11:25:57 End Time: 16:31:56

Capacity: 7000.00 psig
Last Calib.: 2002.12.03
Time On Btm: 2002.12.03 @ 13:29:26
Time Off Btm: 2002.12.03 @ 14:45:26

TEST COMMENT: IFP-no bl flushed tool
FFP-no bl flushed tool
Times 20-30-15



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1723.23	96.30	Initial Hydro-static
4	8.26	97.21	Open To Flow (1)
24	10.48	97.33	Shut-In(1)
56	726.67	98.24	End Shut-In(1)
57	11.42	98.28	Open To Flow (2)
71	11.72	98.47	Shut-In(2)
76	1712.77	98.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	OCM 6%oil 94%mud	0.04

Gas Rates

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

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ORIGINAL

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raney Oil Company LLC

3425 Tam O'Shanter
Law rence, Ks 66047

ATTN: Tom Raney

Marshall #1

25-11s-18w Ellis Ks

Job Ticket: 16788 **DST#: 1**

Test Start: 2002.12.03 @ 11:25:57

Tool Information

Drill Pipe:	Length:	3515.00 ft	Diameter:	3.80 inches	Volume:	49.31 bbl	Tool Weight:		2200.00 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:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		55000.00 lb
					Total Volume:	49.31 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight:	Initial	48000.00 lb
Depth to Top Packer:		3516.00 ft						Final	48000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		15.02 ft							
Tool Length:		36.02 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

KCC

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3496.00		
Shut In Tool	5.00			3501.00		
Hydraulic tool	5.00			3506.00		
Packer	5.00			3511.00	21.00	Bottom Of Top Packer
Packer	5.00			3516.00		
Stubb	1.00			3517.00		
Recorder	0.01	3024	Inside	3517.01		
Perforations	11.00			3528.01		
Recorder	0.01	11085	Outside	3528.02		
Bullnose	3.00			3531.02	15.02	Bottom Packers & Anchor
Total Tool Length:	**36.02**					

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Raney Oil Company LLC

3425 Tam O'Shanter
Lawrence, Ks 66047

ATTN: Tom Raney

Marshall #1

25-11s-18w Ellis Ks

Job Ticket: 16788 **DST#: 1**

Test Start: 2002.12.03 @ 11:25:57

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:	8.76 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3500.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

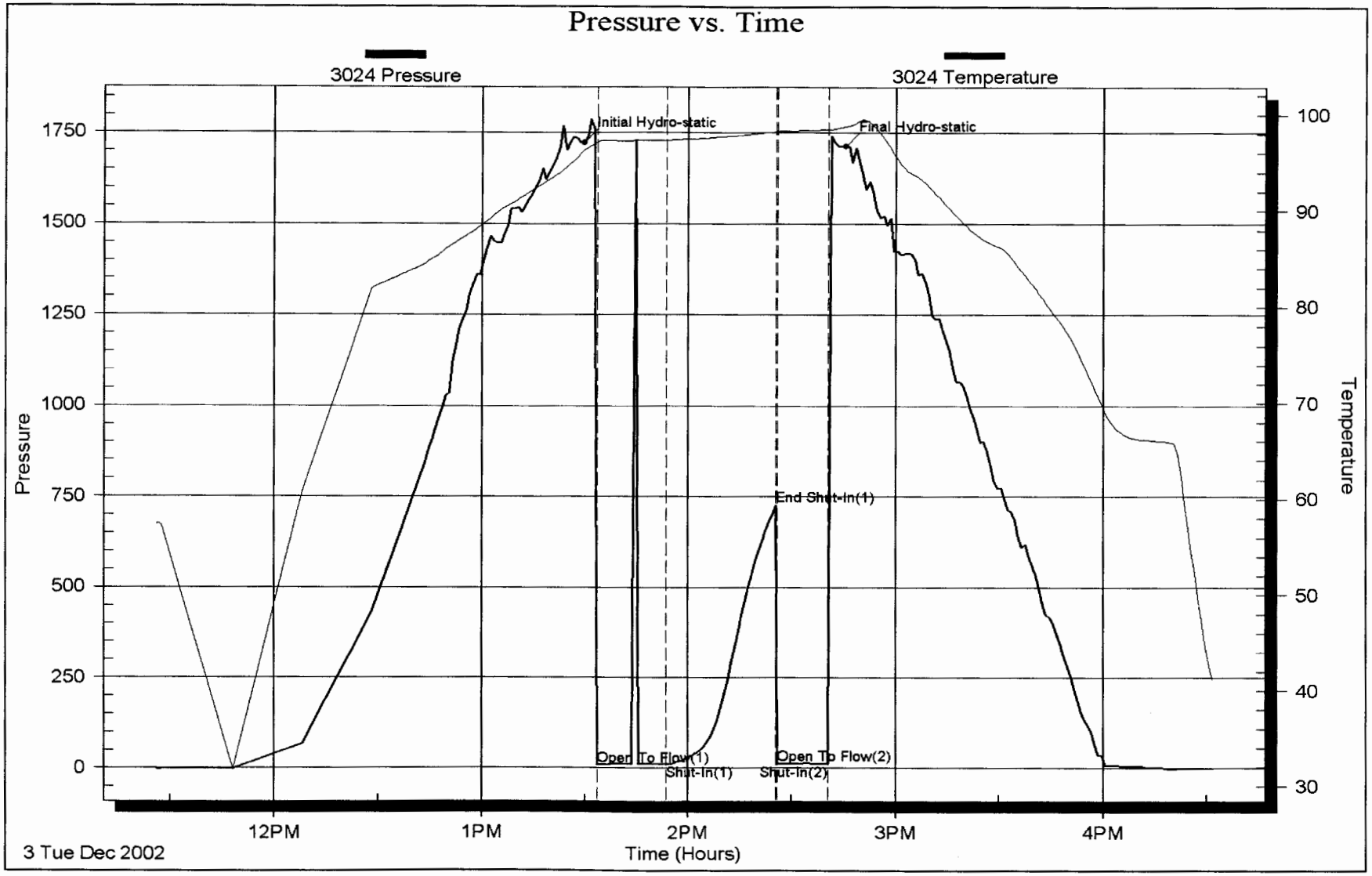
Length ft	Description	Volume bbl
3.00	OCM 6%oil 94%mud	0.042

Total Length: 3.00 ft Total Volume: 0.042 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 2#LCM


Pressure vs. Time
3024 Pressure
3024 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
40
30
12PM
1PM
2PM
3PM
4PM
3 Tue Dec 2002
Time (Hours)

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Raney Oil Company LLC**

3425 Tam O'Shanter
Lawrence, Ks 66047

ATTN: Tom Raney

25-11s-18w Ellis Ks

Marshall #1

Start Date: 2002.12.03 @ 23:11:49
End Date: 2002.12.04 @ 07:36:48
Job Ticket #: 16789 DST #: 2

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

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raney Oil Company LLC

3425 Tam O'Shanter
Lawrence, Ks 66047

ATTN: Tom Raney

Marshall #1

25-11s-18w Ellis Ks

Job Ticket: 16789 **DST#: 2**

Test Start: 2002.12.03 @ 23:11:49

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:05:48
Time Test Ended: 07:36:48

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 16

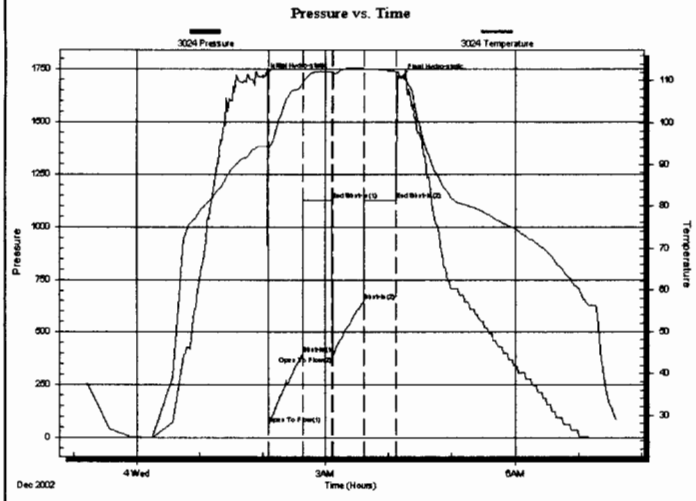
Interval: 3516.00 ft (KB) To 3536.00 ft (KB) (TVD)
Total Depth: 3536.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1964.00 ft (KB)
1955.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 3024 **Inside**
Press@RunDepth: 647.95 psig @ 3517.01 ft (KB)
Start Date: 2002.12.03 End Date: 2002.12.04
Start Time: 23:11:49 End Time: 07:36:48

Capacity: 7000.00 psig
Last Calib.: 2002.12.04
Time On Btm: 2002.12.04 @ 02:00:48
Time Off Btm: 2002.12.04 @ 04:11:48

TEST COMMENT: IFP-w k to strg in 3 min
FFP-w k to strg in 3 min
Times 30-30-30-30
w k bl bk on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1714.80	94.31	Initial Hydro-static
5	62.99	94.18	Open To Flow (1)
38	397.58	109.40	Shut-In(1)
66	1126.96	112.08	End Shut-In(1)
66	387.95	112.08	Open To Flow (2)
96	647.95	112.98	Shut-In(2)
126	1126.92	112.23	End Shut-In(2)
131	1708.99	111.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
870.00	CO	12.20
124.00	GM&WCO 20%gas50%oil20%W10%mud	1.74
124.00	GOCW 15%gas30%oil 55%Water	1.74
372.00	SOCW 1%oil 99%w ater	5.22
60.00	GIP	0.84

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raney Oil Company LLC

3425 Tam O'Shanter
Lawrence, Ks 66047

ATTN: Tom Raney

Marshall #1

25-11s-18w Ellis Ks

Job Ticket: 16789 **DST#: 2**

Test Start: 2002.12.03 @ 23:11:49

Tool Information

Drill Pipe:	Length:	3515.00 ft	Diameter:	3.80 inches	Volume:	49.31 bbl	Tool Weight:		2200.00 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:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		60000.00 lb
					Total Volume:	49.31 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight:	Initial	46000.00 lb
Depth to Top Packer:		3516.00 ft						Final	54000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		20.02 ft							
Tool Length:		41.02 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3496.00		
Shut In Tool	5.00			3501.00		
Hydraulic tool	5.00			3506.00		
Packer	5.00			3511.00	21.00	Bottom Of Top Packer
Packer	5.00			3516.00		
Stubb	1.00			3517.00		
Recorder	0.01	3024	Inside	3517.01		
Perforations	16.00			3533.01		
Recorder	0.01	11085	Outside	3533.02		
Bullnose	3.00			3536.02	20.02	Bottom Packers & Anchor
Total Tool Length:	**41.02**					

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DRILL STEM TEST REPORT

FLUID SUMMARY

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3425 Tam O'Shanter
Lawrence, Ks 66047

ATTN: Tom Raney

Marshall #1

25-11s-18w Ellis Ks

Job Ticket: 16789 **DST#: 2**

Test Start: 2002.12.03 @ 23:11:49

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	20 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	42000 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.74 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3500.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

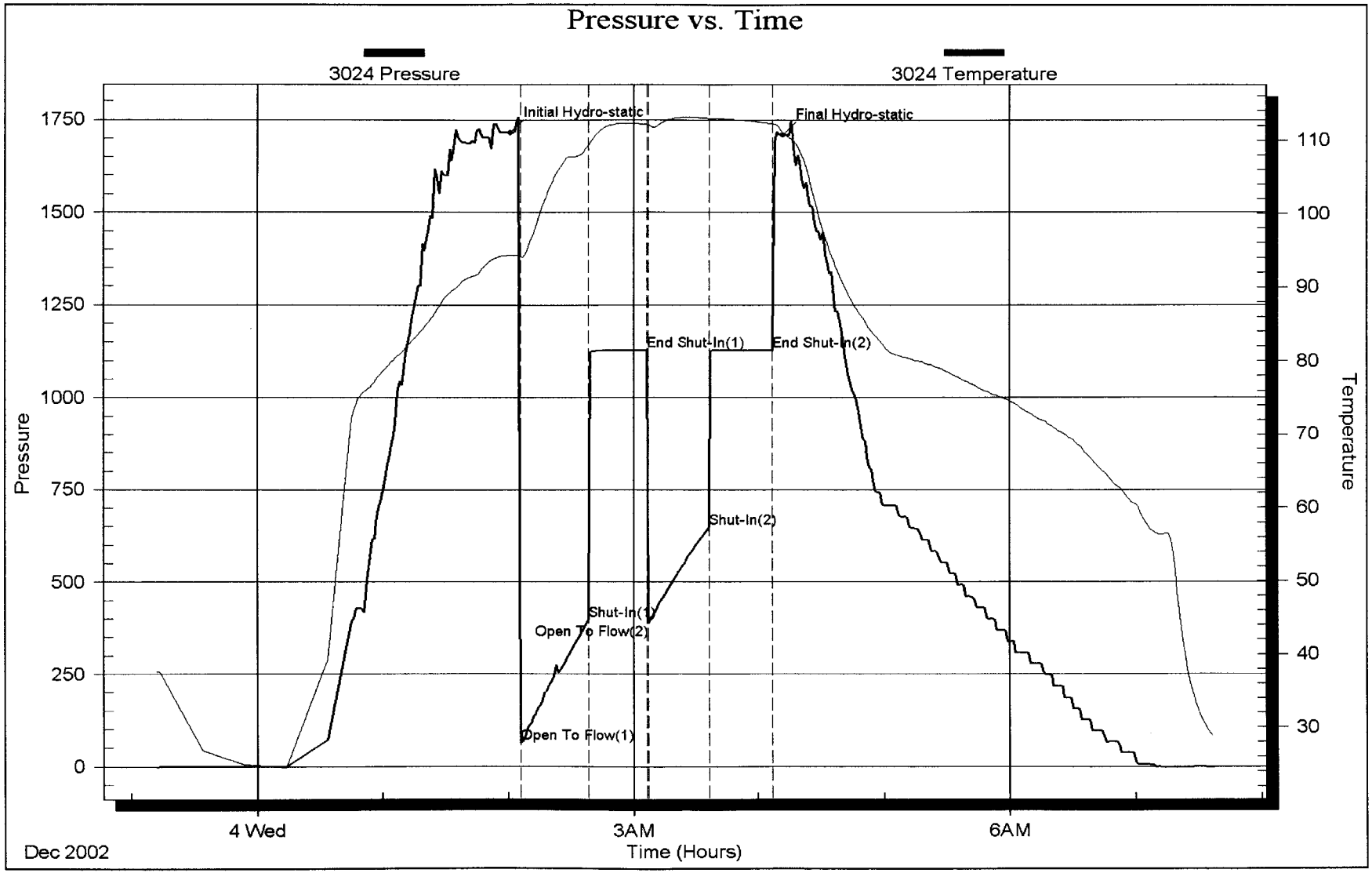
Length ft	Description	Volume bbl
870.00	CO	12.204
124.00	GM&WCO 20%gas50%oil20%W10%mud	1.739
124.00	GOCW 15%gas30%oil 55%Water	1.739
372.00	SOCW 1%oil 99%water	5.218
60.00	GIP	0.842

Total Length: 1550.00 ft Total Volume: 21.742 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 2# LCM
RW.36@33


Pressure vs. Time
3024 Pressure
3024 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Shut-In(1)
Open To Flow(2)
Open To Flow(1)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
30
4 Wed
3AM
6AM
Dec 2002
Time (Hours)