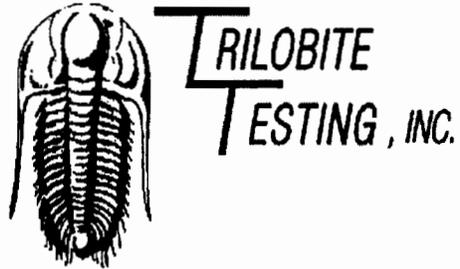


15-185-23175



DRILL STEM TEST REPORT

Prepared For: **Becker Oil Corp**

122 E. Grand Ste 212
Ponca City OK 74801

ORIGINAL
ATTN: Jim Musgrove

13 25s 13w

Russell 1-A

Start Date: 2002.12.30 @ 08:37:45

End Date: 2002.12.30 @ 14:43:30

Job Ticket #: 16631 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Becker Oil Corp

Russell 1-A

13 25s 13w

DST # 1

Krider

2002.12.30

 <p style="font-size: 2em; font-weight: bold; margin: 0;">TRILOBITE</p> <p style="font-size: 1.5em; font-weight: bold; margin: 0;">TESTING, INC.</p>	DRILL STEM TEST REPORT	TOOL DIAGRAM
	Becker Oil Corp 122 E. Grand Ste 212 Ponca City OK 74801 ATTN: Jim Musgrove	Russell 1-A 13 25s 13w Job Ticket: 16631 DST#: 1 Test Start: 2002.12.30 @ 08:37:45

Tool Information

Drill Pipe:	Length: 1572.00 ft	Diameter: 3.80 inches	Volume: 22.05 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: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 23.25 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			
Depth to Top Packer:	1823.00 ft			
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			1804.00	
S.I. Tool	5.00			1809.00	
HMV	5.00			1814.00	
Packer	4.00			1818.00	20.00 Bottom Of Top Packer
Packer	5.00			1823.00	
Stubb	1.00			1824.00	
Recorder	0.00	3310	Inside	1824.00	
Perforations	4.00			1828.00	
C.O. Sub	0.00			1828.00	
Blank Spacing	60.00			1888.00	
C.O. Sub	1.00			1889.00	
Perforations	7.00			1896.00	
Recorder	0.00	10242	Outside	1896.00	
Bullnose	2.00			1898.00	75.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corp
122 E. Grand Ste 212
Ponca City OK 74801
ATTN: Jim Musgrove

Russell 1-A
13 25s 13w
Job Ticket: 16631 **DST#: 1**
Test Start: 2002.12.30 @ 08:37:45

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: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 13.16 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 29000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	GCM 3%G 97%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

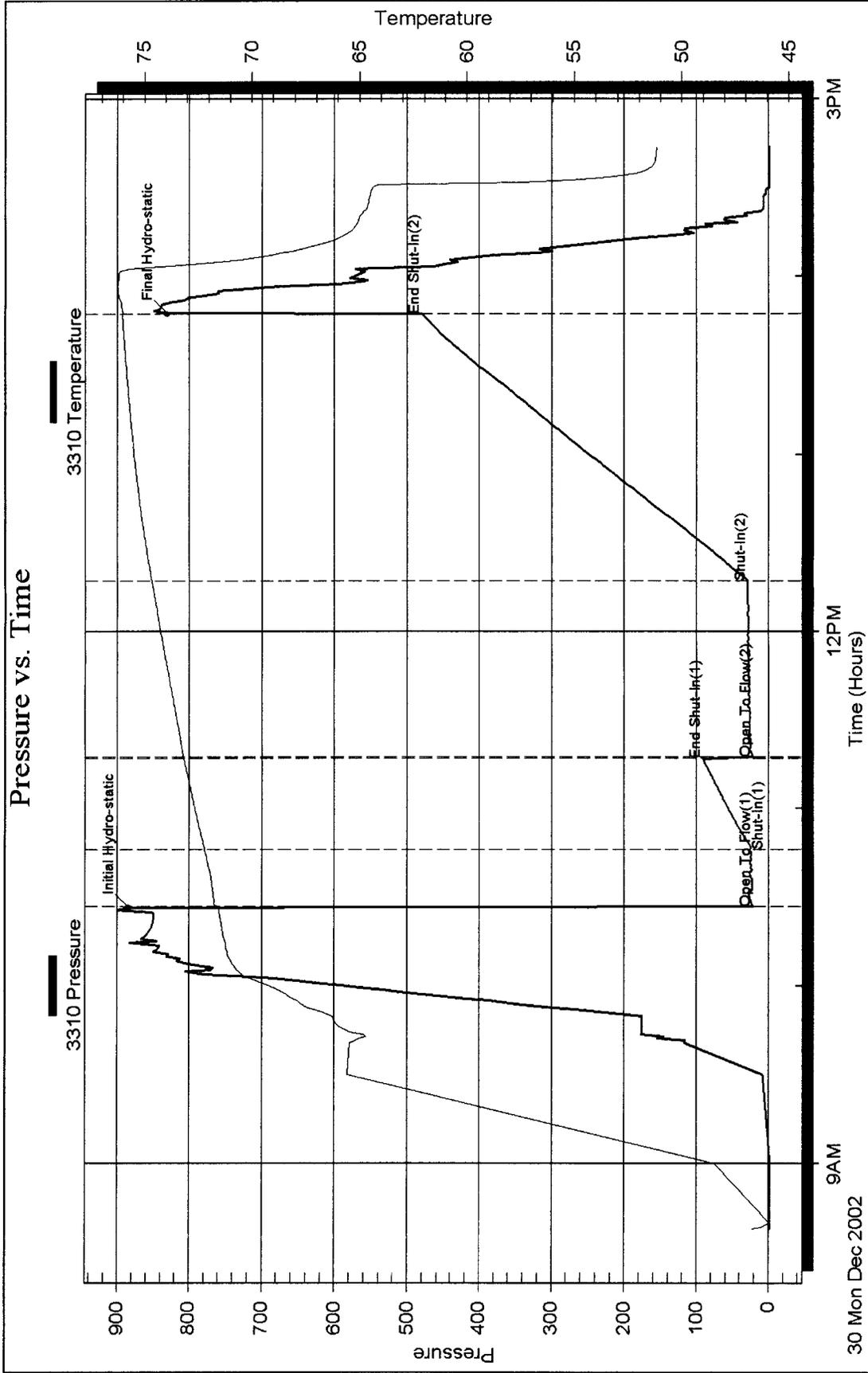
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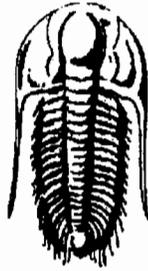
Inside

Becker Oil Corp

13 25s 13w

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Becker Oil Corp**

122 E. Grand Ste 212
Ponca City OK 74801

ATTN: Jim Musgrove

13 25s 13w

Russell 1-A

Start Date: 2002.12.30 @ 22:01:28

End Date: 2002.12.31 @ 03:54:13

Job Ticket #: 16632 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Becker Oil Corp

Russell 1-A

13 25s 13w

DST # 2

Towanda

2002.12.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Becker Oil Corp
122 E. Grand Ste 212
Ponca City OK 74801
ATTN: Jim Musgrove

Russell 1-A
13 25s 13w
Job Ticket: 16632 **DST#: 2**
Test Start: 2002.12.30 @ 22:01:28

GENERAL INFORMATION:

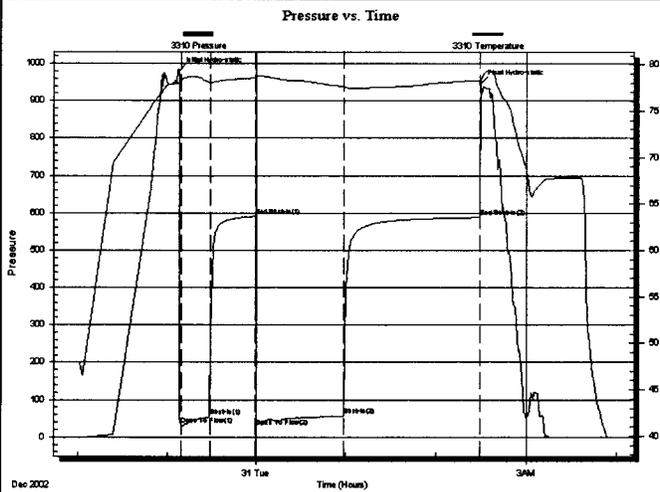
Formation: **Towanda**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 23:08:58
Time Test Ended: 03:54:13
Interval: **1968.00 ft (KB) To 1996.00 ft (KB) (TVD)**
Total Depth: **1898.00 ft (KB) (TVD)**
Hole Diameter: **7.79 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Wenrich**
Unit No: **24**
Reference Elevations: **1924.00 ft (KB)**
1915.00 ft (CF)
KB to GR/CF: **9.00 ft**

Serial #: 3310

Inside

Press@RunDepth: **56.90 psig @ 1969.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2002.12.30** End Date: **2002.12.31** Last Calib.: **1899.12.30**
Start Time: **22:01:33** End Time: **03:54:12** Time On Btm: **2002.12.30 @ 23:07:58**
Time Off Btm: **2002.12.31 @ 02:29:43**

TEST COMMENT: F:Strong blow .BOB in 30 secs.GTS in 9 mins.(see gas report)
IS:No blow .
FF:Strong blow .BOB immediately.(see gas report)>
FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	980.91	78.03	Initial Hydro-static
1	31.72	78.31	Open To Flow (1)
21	54.69	78.12	Shut-In (1)
52	590.92	78.56	End Shut-In (1)
52	27.48	78.67	Open To Flow (2)
111	56.90	77.63	Shut-In (2)
202	588.22	78.33	End Shut-In (2)
202	947.33	78.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	gcm 4%g 96%m	0.44

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	12.00	178.09
Last Gas Rate	0.38	13.00	100.37
Max. Gas Rate	0.50	16.00	205.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Becker Oil Corp
122 E. Grand Ste 212
Ponca City OK 74801
ATTN: Jim Musgrove

Russell 1-A
13 25s 13w
Job Ticket: 16632 **DST#: 2**
Test Start: 2002.12.30 @ 22:01:28

Tool Information

Drill Pipe:	Length: 1726.00 ft	Diameter: 3.80 inches	Volume: 24.21 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: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 25.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	1968.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

C.O. Sub	1.00			1949.00	
S.I. Tool	5.00			1954.00	
HMV	5.00			1959.00	
Packer	4.00			1963.00	20.00 Bottom Of Top Packer
Packer	5.00			1968.00	
Stubb	1.00			1969.00	
Recorder	0.00	3310	inside	1969.00	
Perforations	22.00			1991.00	
Recorder	0.00	10242	Outside	1991.00	
Bullnose	2.00			1993.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corp
122 E. Grand Ste 212
Ponca City OK 74801
ATTN: Jim Musgrove

Russell 1-A
13 25s 13w
Job Ticket: 16632 **DST#: 2**
Test Start: 2002.12.30 @ 22:01:28

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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 13.15 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 29000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	gcm 4%g 96%m	0.443

Total Length: 90.00 ft Total Volume: 0.443 bbl

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

Laboratory Name: Caraway Laboratory Location: Liberal, Ks

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Becker Oil Corp

Russell 1-A

122 E. Grand Ste 212
Ponca City OK 74801

13 25s 13w

Job Ticket: 16632

DST#: 2

ATTN: Jim Musgrove

Test Start: 2002.12.30 @ 22:01:28

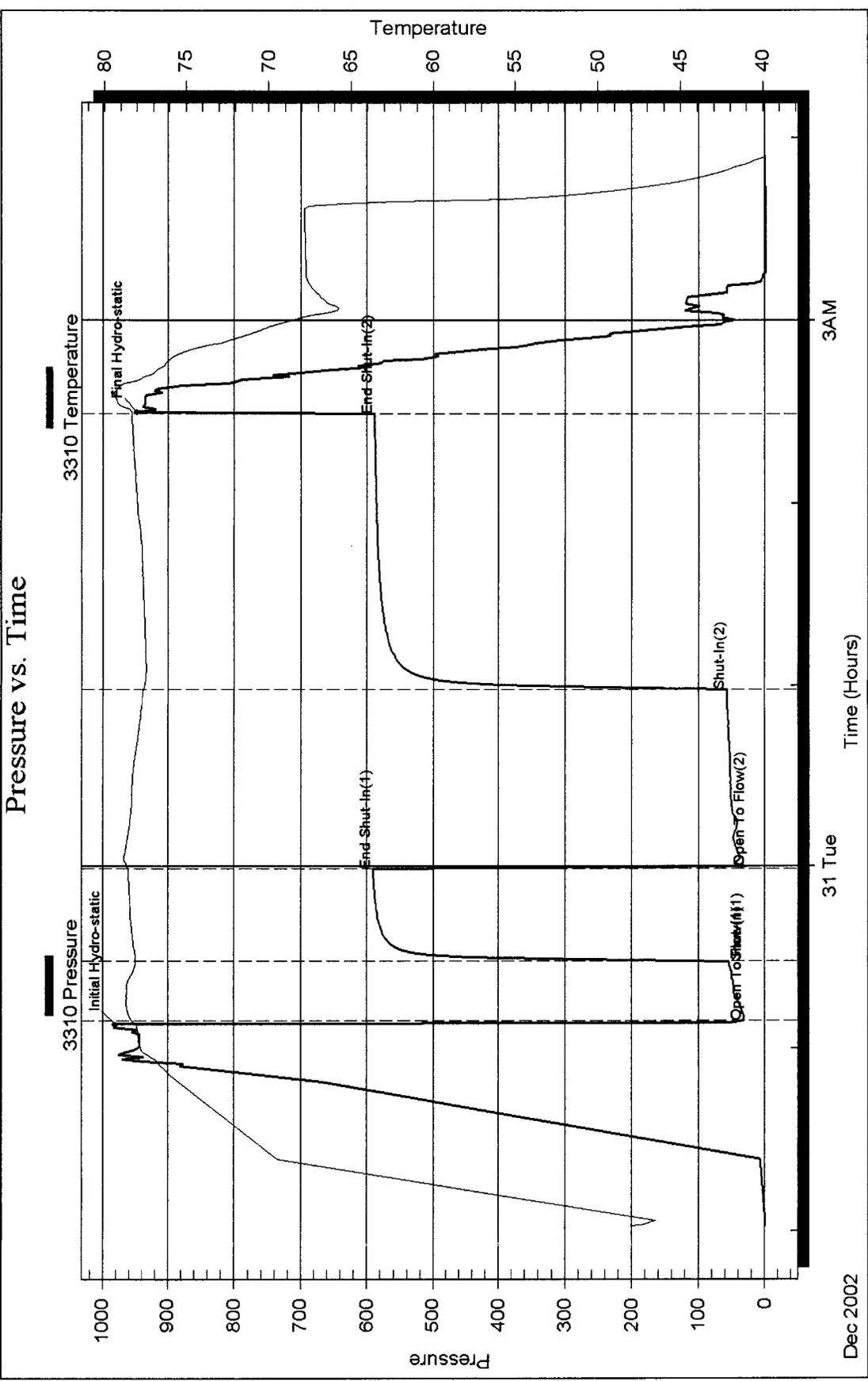
Gas Rates Information

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	0.50	12.00	178.09
1	20	0.50	16.00	205.07
2	10	0.50	16.00	205.07
2	20	0.38	12.00	96.71
2	30	0.38	13.00	100.37
2	40	0.38	13.00	100.37
2	50	0.38	13.00	100.37
2	60	0.38	13.00	100.37

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Becker Oil Corp**

122 E. Grand Ste 212
Ponca City OK 74801

ATTN: Jim Musgrove

13 25s 13w

Russell 1-A

Start Date: 2002.12.31 @ 09:36:37

End Date: 2002.12.31 @ 13:03:07

Job Ticket #: 16633 DST #: 3

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Becker Oil Corp
 122 E. Grand Ste 212
 Ponca City OK 74801
 ATTN: Jim Musgrove

Russell 1-A
13 25s 13w
 Job Ticket: 16633 **DST#: 3**
 Test Start: 2002.12.31 @ 09:36:37

GENERAL INFORMATION:

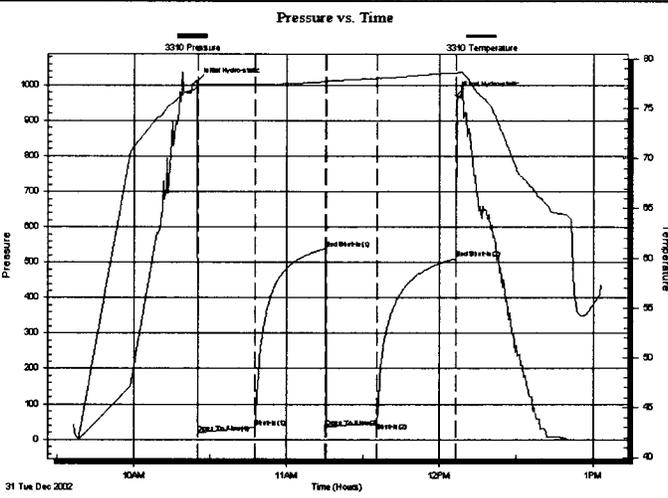
Formation: **Ft. Riley**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 10:25:22
 Time Test Ended: 13:03:07
 Interval: **2019.00 ft (KB) To 2046.00 ft (KB) (TVD)**
 Total Depth: 1898.00 ft (KB) (TVD)
 Hole Diameter: 7.79 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Wenrich
 Unit No: 24
 Reference Elevations: 1924.00 ft (KB)
 1915.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 3310

Inside

Press@RunDepth: 47.16 psig @ 2020.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2002.12.31 End Date: 2002.12.31 Last Calib.: 1899.12.30
 Start Time: 09:36:42 End Time: 13:03:07 Time On Btm: 2002.12.31 @ 10:25:07
 Time Off Btm: 2002.12.31 @ 12:06:52

TEST COMMENT: F:Weak blow .1/2"-3" in bucket.
 IS:No blow .
 FF:Weak blow .1/2"-1" in bucket
 FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1008.91	77.15	Initial Hydro-static
1	18.50	77.29	Open To Flow (1)
23	34.11	77.41	Shut-In(1)
51	539.45	77.67	End Shut-In(1)
51	35.27	77.55	Open To Flow (2)
71	47.16	78.04	Shut-In(2)
102	511.01	78.60	End Shut-In(2)
102	971.48	78.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	m	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Becker Oil Corp
122 E. Grand Ste 212
Ponca City OK 74801
ATTN: Jim Musgrove

Russell 1-A
13 25s 13w
Job Ticket: 16633 **DST#: 3**
Test Start: 2002.12.31 @ 09:36:37

Tool Information

Drill Pipe:	Length: 1763.00 ft	Diameter: 3.80 inches	Volume: 24.73 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: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 25.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	2019.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			2000.00	
S.I. Tool	5.00			2005.00	
HMV	5.00			2010.00	
Packer	4.00			2014.00	20.00 Bottom Of Top Packer
Packer	5.00			2019.00	
Stubb	1.00			2020.00	
Recorder	0.00	3310	Inside	2020.00	
Perforations	24.00			2044.00	
Recorder	0.00	10242	Outside	2044.00	
Bullnose	2.00			2046.00	27.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corp

Russell 1-A

122 E. Grand Ste 212
Ponca City OK 74801

13 25s 13w

Job Ticket: 16633

DST#: 3

ATTN: Jim Musgrove

Test Start: 2002.12.31 @ 09:36:37

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: 38.00 sec/qt	Cushion Volume: bbl		
Water Loss: 13.97 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 62000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	m	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 3

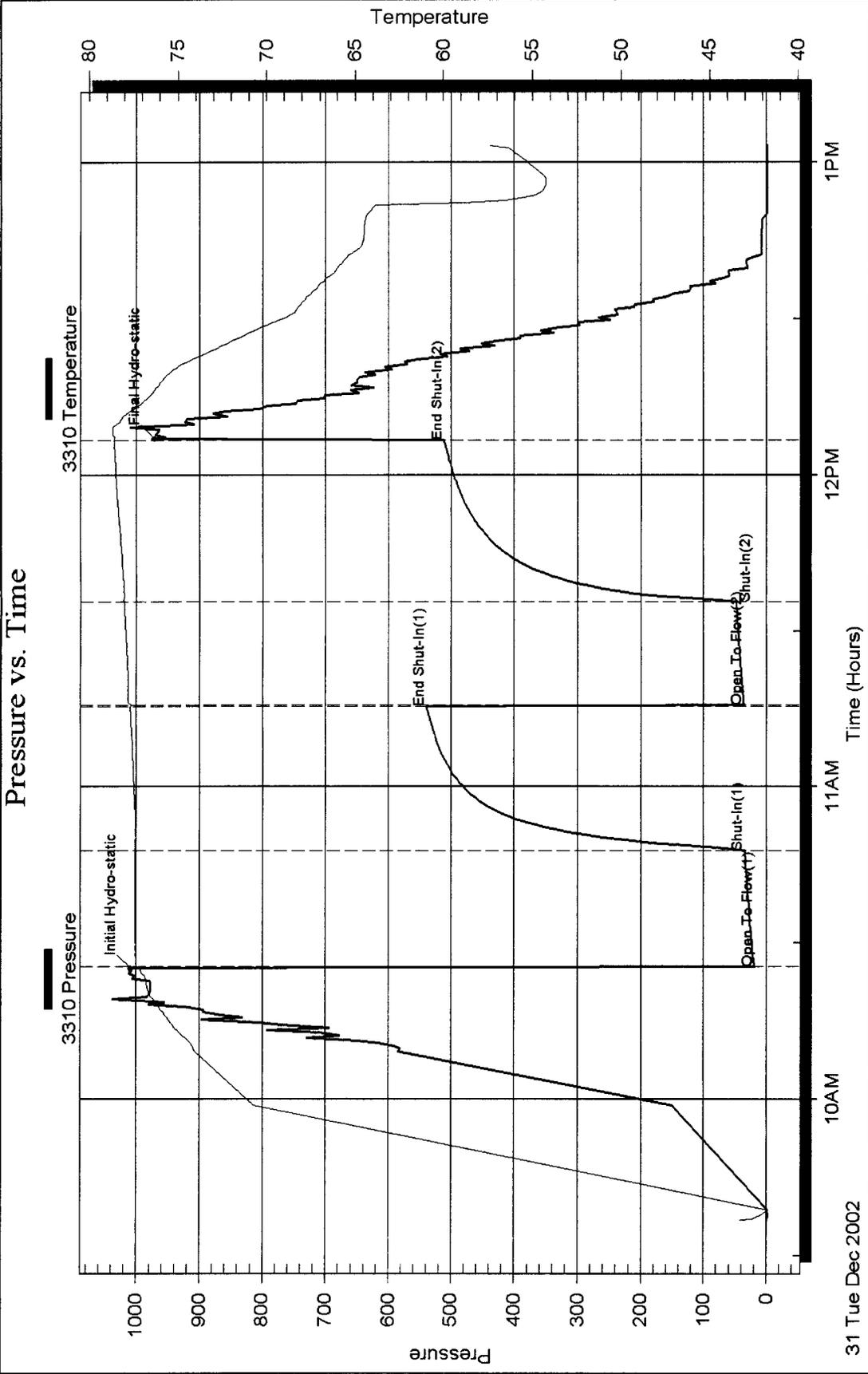
13 25s 13w

Becker Oil Corp

Inside

Serial #: 3310

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Becker Oil Corp**

122 E. Grand Ste 212
Ponca City OK 74801

ATTN: Jim Musgrove

13 25s 13w

Russell 1-A

Start Date: 2002.12.31 @ 21:26:51

End Date: 2003.01.01 @ 03:38:36

Job Ticket #: 16634 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Becker Oil Corp

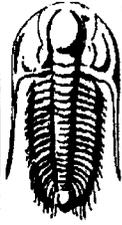
Russell 1-A

13 25s 13w

DST # 4

Wreford

2002.12.31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Becker Oil Corp
122 E. Grand Ste 212
Ponca City OK 74801
ATTN: Jim Musgrove

Russell 1-A
13 25s 13w
Job Ticket: 16634 DST#: 4
Test Start: 2002.12.31 @ 21:26:51

GENERAL INFORMATION:

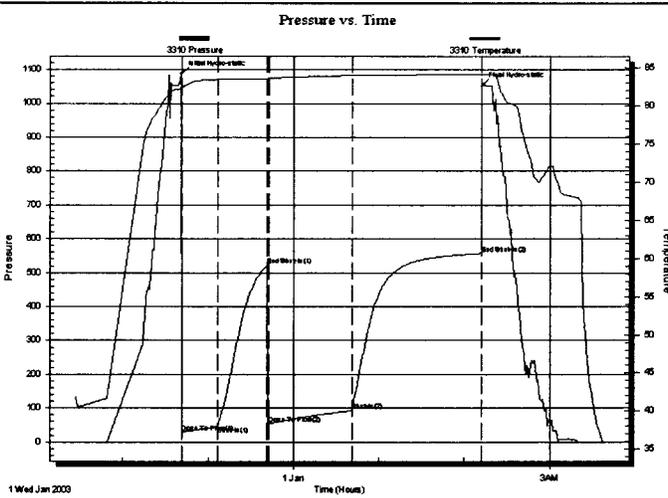
Formation: **Wreford**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:41:36
Time Test Ended: 03:38:36
Test Type: Conventional Bottom Hole
Tester: Wenrich
Unit No: 24
Interval: **2120.00 ft (KB) To 2166.00 ft (KB) (TVD)**
Reference Elevations: 1924.00 ft (KB)
Total Depth: 1898.00 ft (KB) (TVD) 1915.00 ft (CF)
Hole Diameter: 7.79 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 3310

Inside

Press@RunDepth: 92.97 psig @ 2121.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2002.12.31 End Date: 2003.01.01 Last Calib.: 1899.12.30
Start Time: 21:26:56 End Time: 03:38:35 Time On Btm: 2002.12.31 @ 22:41:06
Time Off Btm: 2003.01.01 @ 02:12:21

TEST COMMENT: IF: Strong blow .BOB in 4 mins.
IS: No blow .
FF: Strong blow .BOB in 1.5 mins.
FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1086.48	82.29	Initial Hydro-static
1	26.86	82.50	Open To Flow (1)
26	45.90	83.48	Shut-In(1)
61	521.33	83.57	End Shut-In(1)
62	52.03	83.65	Open To Flow (2)
120	92.97	84.04	Shut-In(2)
211	556.86	84.13	End Shut-In(2)
212	1051.87	84.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	gcm 4%g 96%m	0.89

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Becker Oil Corp

Russell 1-A

122 E. Grand Ste 212
Ponca City OK 74801

13 25s 13w

Job Ticket: 16634

DST#: 4

ATTN: Jim Musgrove

Test Start: 2002.12.31 @ 21:26:51

Tool Information

Drill Pipe:	Length: 1884.00 ft	Diameter: 3.80 inches	Volume: 26.43 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: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 27.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	2120.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			2101.00	
S.I. Tool	5.00			2106.00	
HMV	5.00			2111.00	
Packer	4.00			2115.00	20.00 Bottom Of Top Packer
Packer	5.00			2120.00	
Stubb	1.00			2121.00	
Recorder	0.00	3310	Inside	2121.00	
Perforations	4.00			2125.00	
C.O. Sub	0.00			2125.00	
Blank Spacing	30.00			2155.00	
C.O. Sub	1.00			2156.00	
Perforations	8.00			2164.00	
Recorder	0.00	10242	Outside	2164.00	
Bullnose	2.00			2166.00	46.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corp

Russell 1-A

122 E. Grand Ste 212
Ponca City OK 74801

13 25s 13w

Job Ticket: 16634

DST#: 4

ATTN: Jim Musgrove

Test Start: 2002.12.31 @ 21:26:51

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: 9.00 ft	Water Salinity:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: 0.885 bbl		
Water Loss: 14.19 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: 0.00 psig		
Salinity: 62000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	gcm 4%g 96%m	0.885

Total Length: 180.00 ft Total Volume: 0.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3310

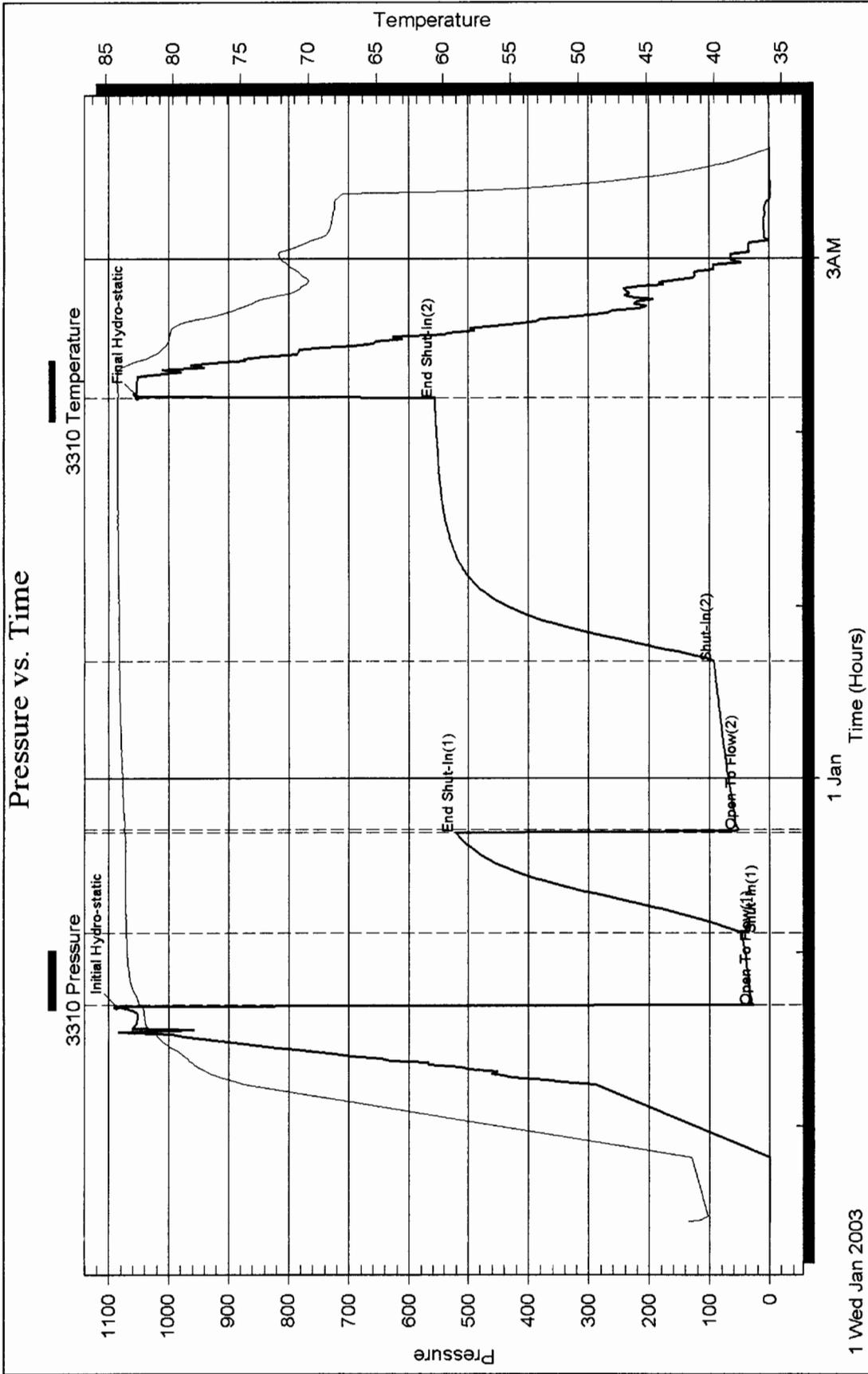
Inside

Becker Oil Corp

13 25s 13w

DST Test Number: 4

Pressure vs. Time



1 Wed Jan 2003

1 Jan

3AM

Time (Hours)