15-163-23339

TRILOBITE TESTING, INC.

RECEIVED
DEC 3 1 2001
KCC WICHITA

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co, Inc**

250 N Water
Suite 300
Wichita KS, 67202

Release
MAR 03 2003
From
Confidential

ATTN: Jim Daniels

4-9s-19w Rooks Ks 4-9s-19w

McClellan Farms #1-4

Start Date: 2001.12.14 @ 06:58:15
End Date: 2001.12.14 @ 12:56:44
Job Ticket #: 15665 DST #: 1

CONFIDENTIAL

KCC
DEC 28 2001
CONFIDENTIAL

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

DRILL STEM TEST REPORT

Murfin Drilling Co, Inc

250 N Water
suite 300
Wichita KS, 67202
ATTN: Jim Danials

McClellan Farms #1-4

4-9s-19w Rooks Ks

Job Ticket: 15665 **DST#: 1**

Test Start: 2001.12.14 @ 06:58:15

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:51:14
Time Test Ended: 12:56:44

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

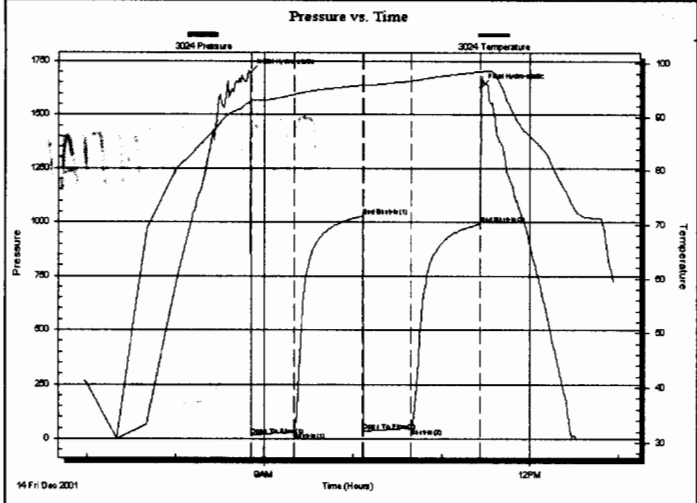
Interval: 3394.00 ft (KB) To 3424.00 ft (KB) (TVD)
Total Depth: 3424.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1983.00 ft (KB)
1978.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3024 **Inside**
Press@RunDepth: 49.39 psig @ 3395.01 ft (KB)
Start Date: 2001.12.14 End Date: 2001.12.14
Start Time: 06:58:15 End Time: 12:56:44

Capacity: 7000.00 psig
Last Calib.: 2001.12.14
Time On Btm: 2001.12.14 @ 08:50:44
Time Off Btm: 2001.12.14 @ 11:26:44

TEST COMMENT: IFP-weak blow thru-out 1/4"blow
FFP-weak blow thru-out 1/4"blow
times 30-45-30-45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.91	92.80	Initial Hydro-static
1	13.06	92.93	Open To Flow (1)
30	31.21	94.13	Shut-In(1)
76	1028.16	95.93	End Shut-In(1)
77	34.67	95.97	Open To Flow (2)
109	49.39	96.68	Shut-In(2)
156	992.15	98.43	End Shut-In(2)
156	1628.20	98.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	SOCM 1%oil 99%mud	0.34

Gas Rates

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

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co, Inc

250 N Water
suite 300
Wichita KS, 67202
ATTN: Jim Danials

McClellan Farms #1-4

4-9s-19w Rooks Ks

Job Ticket: 15665 **DST#: 1**

Test Start: 2001.12.14 @ 06:58:15

Tool Information

Drill Pipe:	Length:	3212.00 ft	Diameter:	3.80 inches	Volume:	45.06 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:	180.00 ft	Diameter:	2.25 inches	Volume:	0.89 bbl	Weight to Pull Loose:		50000.00 lb
					Total Volume:	45.95 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		19.00 ft					String Weight:	Initial	38000.00 lb
Depth to Top Packer:		3394.00 ft						Final	38000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		30.02 ft							
Tool Length:		51.02 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			3374.00		
S.I. Tool	5.00			3379.00		
HMV	5.00			3384.00		
Packer	5.00			3389.00	21.00	Bottom Of Top Packer
Packer	5.00			3394.00		
Stubb	1.00			3395.00		
Recorder	0.01	3024	Inside	3395.01		
Perforations	26.00			3421.01		
Recorder	0.01	11085	Outside	3421.02		
Bullnose	3.00			3424.02	30.02	Bottom Packers & Anchor
Total Tool Length:	**51.02**					

Release

MAR 0 3 2003

From Confidential

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co, Inc

250 N Water
suite 300
Wichita KS, 67202
ATTN: Jim Danials

McClellan Farms #1-4

4-9s-19w Rooks Ks

Job Ticket: 15665 **DST#: 1**

Test Start: 2001.12.14 @ 06:58:15

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:	7.93 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3600.00 ppm				
Filter Cake:	1.00 inches				

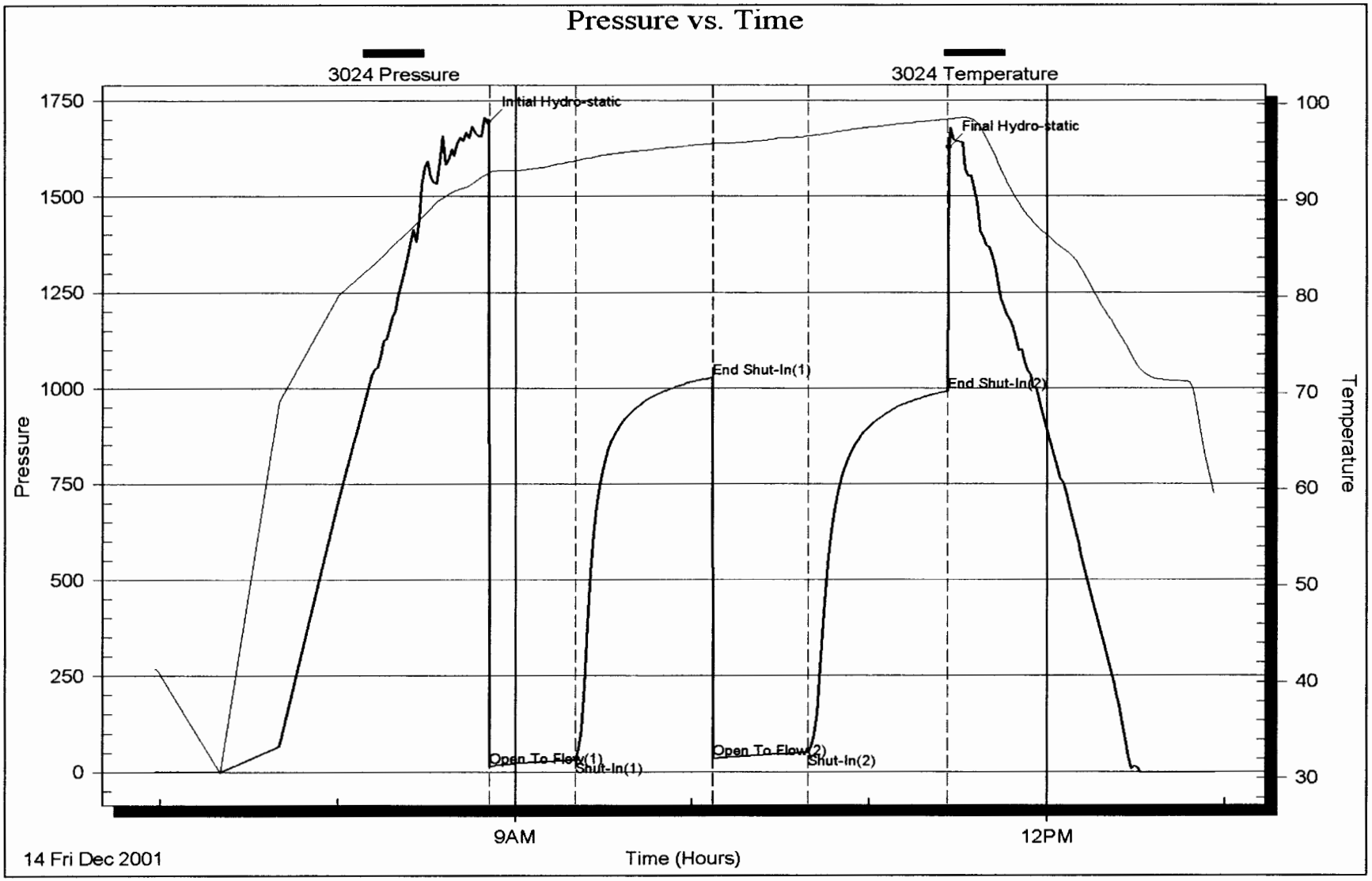
Recovery Information

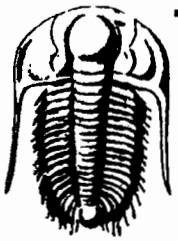
Recovery Table

Length ft	Description	Volume bbl
70.00	SOCM 1%oil 99%mud	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 4#LCM


Pressure vs. Time
3024 Pressure
3024 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
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
9AM
12PM
14 Fri Dec 2001
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared for

Murfin Drilling Co., Inc.
250 N. Water Suite 300
Wichita, KS 67202

McClellan Farms #1-4
4 9s 19w
Rooks co KS

Trilobite Testing, Inc
PO Box 362 - Hays, Kansas - 67601
ph: 785-625-4778 fax: 785-625-5620
e-mail: trilobite@eaglecom.net

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

		Date:	12/14/2001
Well name#:	McClellan Fa	Ticket #:	15666
Location#:	4 9s 19w	DST#	2

General Informaion:

Formation:	Arbuckle	Test Type:	Conventional			BHT:	99
Interval:	3424-3429	Tester:	John Schmidt			OIL API:	
Total Depth:	3429	Elevation:	1983	ft(KB)		H2O Salinity:	
Hole Diameter:	7 7/8"		1978	ft(CF)			
Start Data:	12/14/2001	Tool Weight:		2200		Mud Type:	Chemical
Start Time:	18:45:00	Weight Set on Packers:		25000		Mud Weight:	9.2
Time tool opened:	20:10:00	Weight to Pull Loose:		45000		Viscosity:	49
Time Off Btm:	23:45:00	Initial String Weight:		38000		Water Loss:	8.4
End Date:	12/14/01	Final String Weight:		38000		Resistivity;	
End Time:	12:15:00	Drill Pipe Length:		3298		Salinity:	4800
		Drill Collar Length:		120			

Test Comment:
IFP - Surface blow, died
FFP - No blow

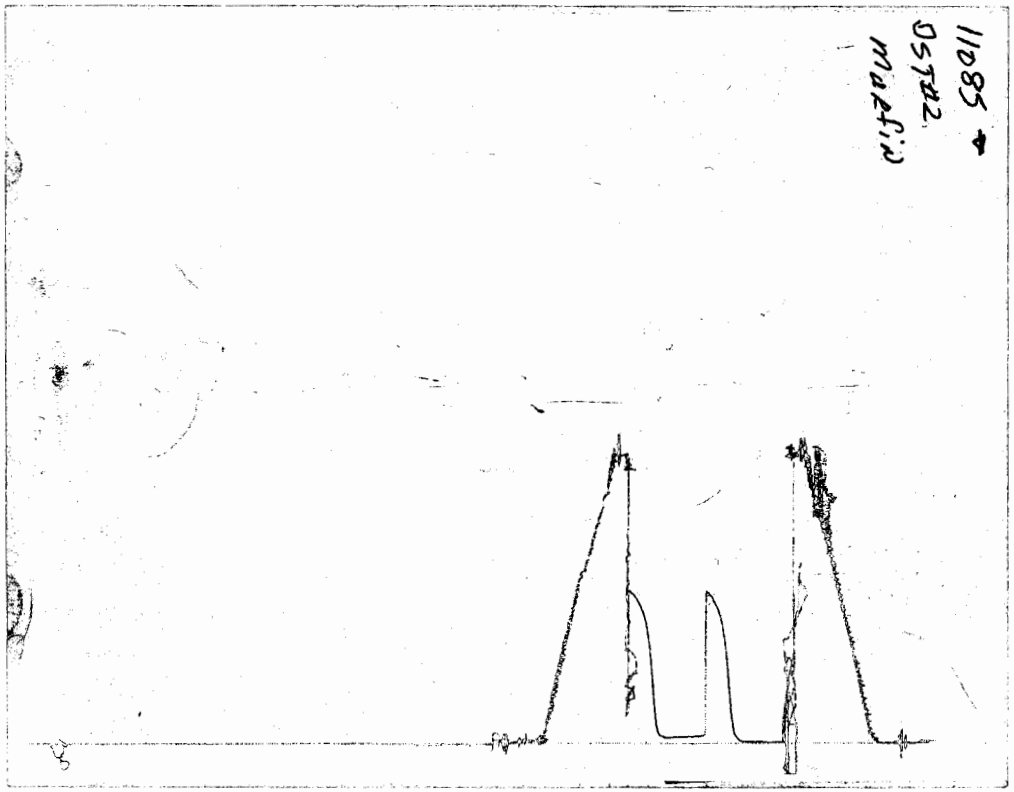
Recovery Length(ft):	10ft Description:	10ft DC
10	Mud with show of oil in tool	

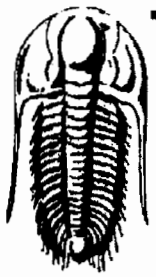
Gas Volume Report

Recorder #:	11085		Open	Min:	Ins. Of water PSIG	Orifice size	MCF/D
Pressure Summary:		Time:(min)					
Initial Hydro-static:	1608						
Open to Flow (1):	5	30					
Shut-in (1):	10						
End Shut-in (1):	865	30					
Open to Flow (2):	39	30					
Shut-in (2):	33						
End Shut-in (2);	871	30					
Final Hydro-static:	1550						

CHART PAGE

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





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co, Inc**

250 N Water
suite 300
Wichita KS, 67202

ATTN: Jim Danials

4-9s-19w Rooks Ks

McClellan Farms #1-4

Start Date: 2001.12.15 @ 07:16:40

End Date: 2001.12.15 @ 14:00:39

Job Ticket #: 15667 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Murfin Drilling Co, Inc

250 N Water
suite 300
Wichita KS, 67202
ATTN: Jim Danials

McClellan Farms #1-4

4-9s-19w Rooks Ks

Job Ticket: 15667 **DST#: 3**

Test Start: 2001.12.15 @ 07:16:40

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:51:09
Time Test Ended: 14:00:39

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

Interval: 3429.00 ft (KB) To 3439.00 ft (KB) (TVD)
Total Depth: 3439.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

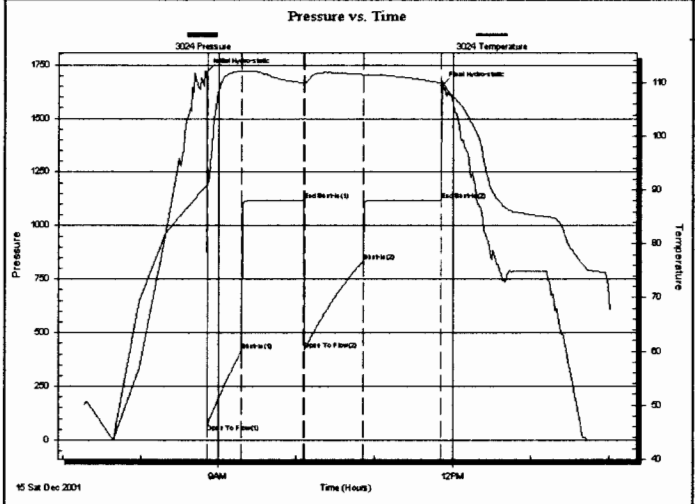
Reference Elevations: 1983.00 ft (KB)
1978.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 3024 **Inside**

Press@RunDepth: 833.76 psig @ 3430.01 ft (KB)
Start Date: 2001.12.15 End Date: 2001.12.15
Start Time: 07:16:40 End Time: 14:00:39

Capacity: 7000.00 psig
Last Calib.: 2001.12.15
Time On Btm: 2001.12.15 @ 08:50:39
Time Off Btm: 2001.12.15 @ 11:51:09

TEST COMMENT: IFP-weak to strong blow in 3min
FFP-weak to strong in 4min
times 30-45-45-60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1715.64	90.74	Initial Hydro-static
1	37.78	90.89	Open To Flow (1)
27	414.15	112.08	Shut-In(1)
75	1117.76	109.84	End Shut-In(1)
76	421.02	109.79	Open To Flow (2)
121	833.76	111.48	Shut-In(2)
180	1117.70	109.97	End Shut-In(2)
181	1653.67	109.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1800.00	water RW .21 @ 59F	24.16
120.00	MW 10%mud 90% water	1.68

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co, Inc

250 N Water
suite 300
Wichita KS, 67202
ATTN: Jim Danials

McClellan Farms #1-4

4-9s-19w Rooks Ks

Job Ticket: 15667 **DST#: 3**

Test Start: 2001.12.15 @ 07:16:40

Tool Information

Drill Pipe:	Length:	3309.00 ft	Diameter:	3.80 inches	Volume:	46.42 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:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:		50000.00 lb
					Total Volume:	47.01 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		21.00 ft					String Weight:	Initial	38000.00 lb
Depth to Top Packer:		3429.00 ft						Final	46000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		10.01 ft							
Tool Length:		31.01 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			3409.00		
S.I. Tool	5.00			3414.00		
HMV	5.00			3419.00		
Packer	5.00			3424.00	21.00	Bottom Of Top Packer
Packer	5.00			3429.00		
Stubb	1.00			3430.00		
Recorder	0.01	3024	Inside	3430.01		
Perforations	6.00			3436.01		
Bullnose	3.00			3439.01	10.01	Bottom Packers & Anchor
Total Tool Length:	**31.01**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

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250 N Water
suite 300
Wichita KS, 67202
ATTN: Jim Danials

McClellan Farms #1-4

4-9s-19w Rooks Ks

Job Ticket: 15667 **DST#: 3**

Test Start: 2001.12.15 @ 07:16:40

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:	40000 ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.36 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4800.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

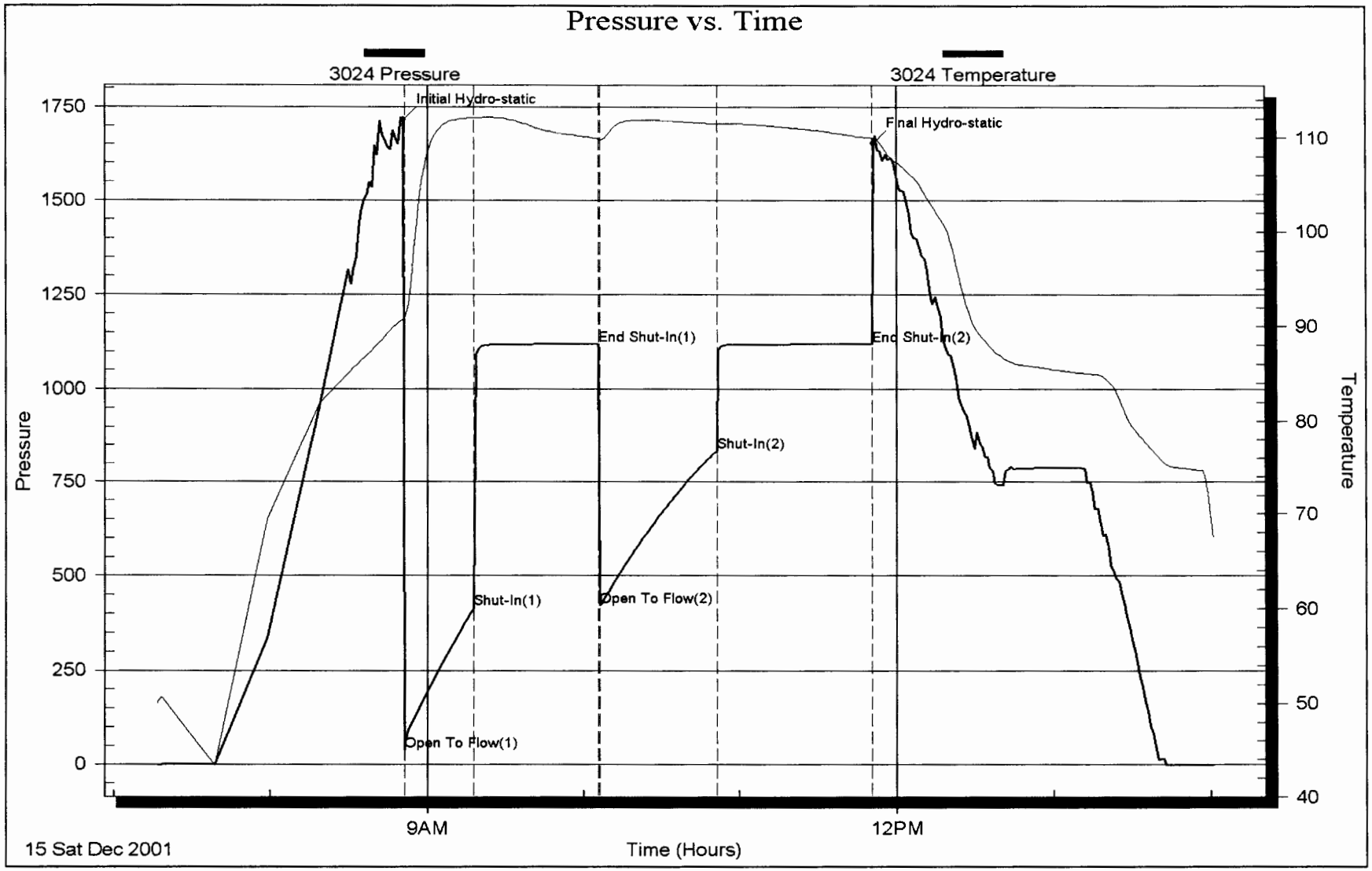
Length ft	Description	Volume bbl
1800.00	water RW .21 @ 59F	24.156
120.00	MW 10%mud 90% water	1.683

Total Length: 1920.00 ft Total Volume: 25.839 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
3024 Pressure
3024 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
9AM
12PM
15 Sat Dec 2001
Time (Hours)