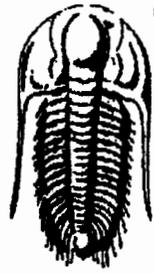


29-2s-26w

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**TRILOBITE
TESTING, INC.**

ORIGINAL

KCC
MAY 16 2004

DRILL STEM TEST REPORT

Prepared For: **Murfin Drig Co Inc**

250 N Water
suite 300
Wichita Ks 67202

ATTN: Scott Robinson

29-2s-26w Decatur Ks

Shirley Trust #2-29

Start Date: 2002.04.08 @ 00:10:29
End Date: 2002.04.08 @ 09:15:28
Job Ticket #: 15548 DST #: 1

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

**Release
MAY 06 2004
From
Confidential**

Murfin Drig Co Inc

Shirley Trust #2-29

29-2s-26w Decatur Ks

DST # 1

Toronto, Lans "A", Poll

2002.04.08



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drig Co Inc

Shirley Trust #2-29

250 N Water
suite 300
Wichita Ks 67202
ATTN: Scott Robinson

299 S 26th Decatur Ks
Job # 15548

DST#: 1

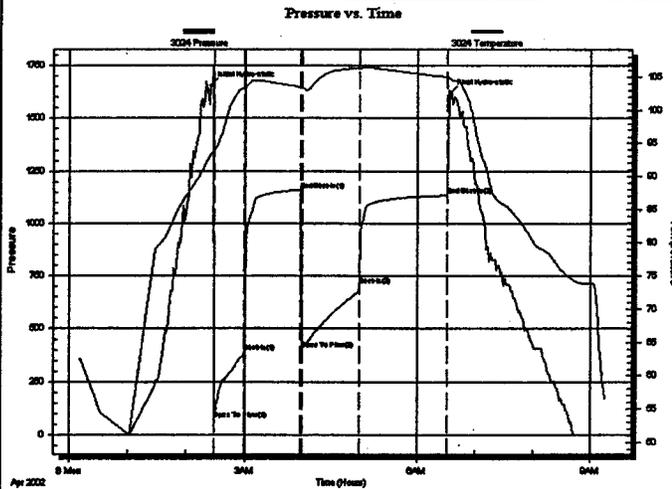
Test Start: 2002.04.08 @ 00:10:29

GENERAL INFORMATION:

Formation: **Toronto, Lans "A", Poll**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: **02:28:58**
 Tester: **Ray Schwager**
 Time Test Ended: **09:15:28**
 Unit No: **16**
 Interval: **3471.00 ft (KB) To 3547.00 ft (KB) (TVD)**
 Reference Elevations: **2628.00 ft (KB)**
 Total Depth: **3547.00 ft (KB) (TVD)**
2623.00 ft (CF)
 Hole Diameter: **7.85 inches** Hole Condition: **Fair**
 KB to GR/CF: **5.00 ft**

Serial #: 3024 Inside
 Press@RunDepth: **704.58 psig @ 3474.01 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2002.04.08** End Date: **2002.04.08** Last Calib.: **2002.04.08**
 Start Time: **00:10:29** End Time: **09:15:28** Time On Btm: **2002.04.08 @ 02:24:58**
 Time Off Btm: **2002.04.08 @ 06:33:58**

TEST COMMENT: FP-strg bl in 2 min
 FFP-strg bl in 1 min
 times 30-60-60-90
 had a wk bl bk on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1653.47	93.28	Initial Hydro-static
4	74.10	93.97	Open To Flow (1)
35	386.99	103.29	Shut-in(1)
94	1159.56	103.42	End Shut-in(1)
95	403.63	103.42	Open To Flow (2)
155	704.58	106.26	Shut-in(2)
246	1134.45	104.95	End Shut-in(2)
249	1620.31	104.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
230.00	MGO 11% gas 85% oil 4% mud	1.13
120.00	MGO 5% gas 70% oil 25% mud	0.59
1485.00	clean oil	19.20

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drig Co Inc

Shirley Trust #2-29

250 N Water
suite 300
Wichita Ks 67202

29-2s-26w Decatur Ks

Job Ticket: 15548 **DST#: 1**

ATTN: Scott Robinson

Test Start: 2002.04.08 @ 00:10:29

Tool Information

Drill Pipe:	Length: 2932.00 ft	Diameter: 3.80 inches	Volume: 41.13 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: 529.00 ft	Diameter: 2.25 inches	Volume: 2.60 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 43.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3471.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.02 ft			
Tool Length:	99.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3449.00	
S.I. Tool	5.00			3454.00	
HMV	5.00			3459.00	
Safety Joint	2.00			3461.00	
Packer	5.00			3466.00	23.00 Bottom Of Top Packer
Packer	5.00			3471.00	
Stubb	1.00			3472.00	
Perforations	1.00			3473.00	
C.O. Sub	1.00			3474.00	
Recorder	0.01	3024	Inside	3474.01	
Blank Spacing	61.00			3535.01	
C.O. Sub	1.00			3536.01	
Recorder	0.01	11085	Outside	3536.02	
Perforations	8.00			3544.02	
Bullnose	3.00			3547.02	76.02 Bottom Packers & Anchor
Total Tool Length:	99.02				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc

Shirley Trust #2-29

250 N Water
suite 300
Wichita Ks 67202

29-2s-26w Decatur Ks

Job Ticket: 15548 DST#: 1

ATTN: Scott Robinson

Test Start: 2002.04.08 @ 00:10:29

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.14 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 600.00 ppm		
Filter Cake: 2.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
230.00	MGO 11%gas 85%oil 4%mud	1.131
120.00	MGO 5%gas 70%oil 25%mud	0.590
1485.00	clean oil	19.200

Total Length: 1835.00 ft Total Volume: 20.921 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

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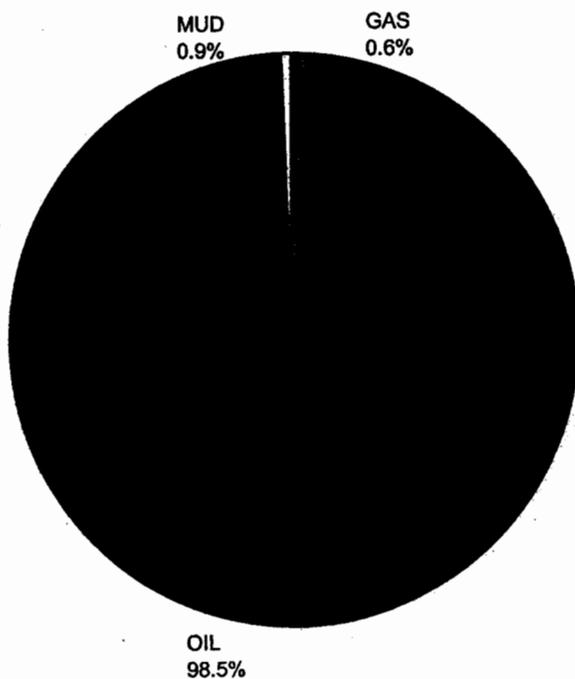
CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 15548

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD		
		%	FEET	%	FEET	%	FEET	%	FEET	
DRILL	1	1306	0	0	100	1306	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	0	0	0	0	0
WEIGHT	1	0	0	0	0	0	0	0	0	0
PIPE	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
DRILL	1	179	11	19.69	100	179	0	0	4	7.16
COLLARS	2	120	5	6	70	84	0	0	25	30
	3	230	0	0	85	195.5	0	0	0	0
	4	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0
TOTAL		1835	0	25.69	0	1764.5	0	0	0	37.16

BBL OIL = 20.81339 * HRS OPEN = 1.5 = BBL/DAY 333.0142
BBL WATER = 0 * = 0
BBL MUD = 0.181712
BBL GAS = 0.125624



Serial #: 3024

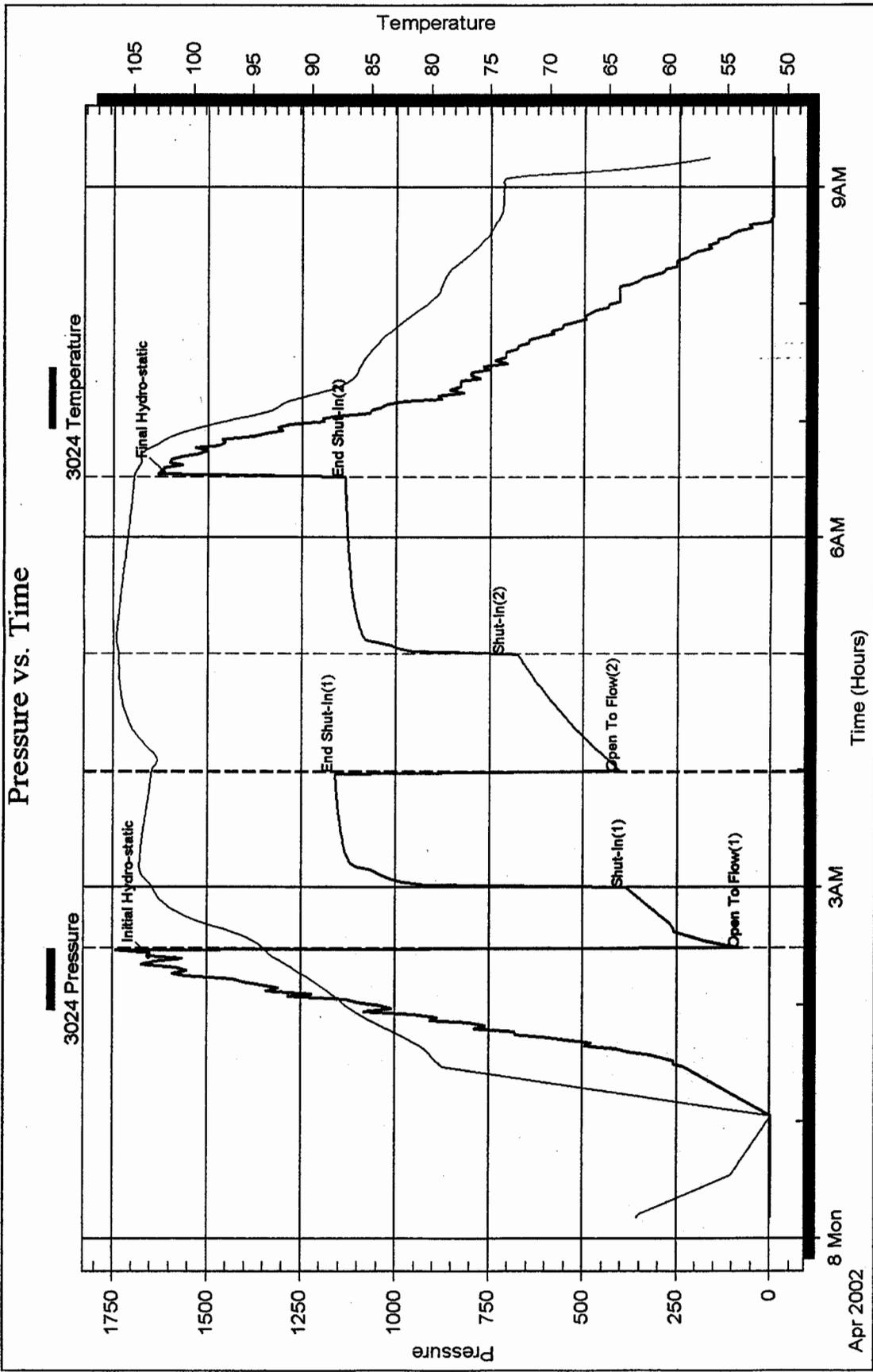
Inside

Murfin Drig Co Inc

29-2s-28w Decatur Ks

DST Test Number: 1

Pressure vs. Time



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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250 N Water
suite 300
Wichita Ks 67202

ATTN: Scott Robinson

29-2s-26w Decatur Ks

Shirley Trust #2-29

Start Date: 2002.04.08 @ 14:40:40

End Date: 2002.04.08 @ 22:27:39

Job Ticket #: 15549 DST #: 2

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

Murfin Drlg Co Inc

Shirley Trust #2-29

29-2s-26w Decatur Ks

DST # 2

Lans C-D

2002.04.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drig Co Inc
250 N Water
suite 300
Wichita Ks 67202
ATTN: Scott Robinson

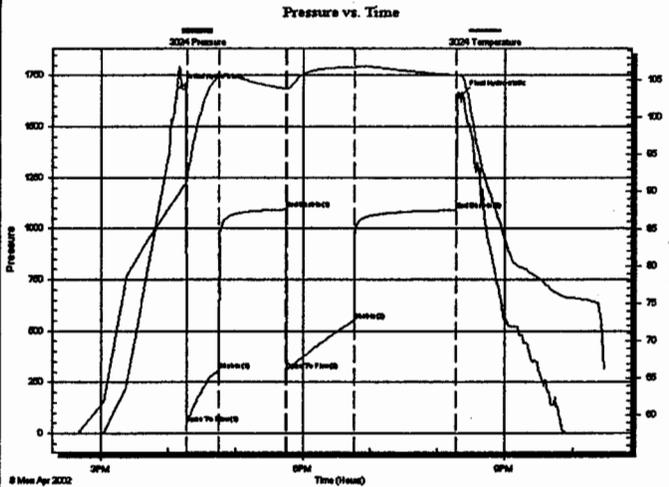
Shirley Trust #2-29
29-2s-26w Decatur Ks
Job Ticket: 15549 **DST#: 2**
Test Start: 2002.04.08 @ 14:40:40

GENERAL INFORMATION:

Formation: **Lans C-D**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 16:15:39
Time Test Ended: 22:27:39
Test Type: **Conventional Bottom Hole**
Tester: **Ray Schwager**
Unit No: **16**
Interval: **3552.00 ft (KB) To 3562.00 ft (KB) (TVD)**
Reference Elevations: 2628.00 ft (KB)
Total Depth: **3547.00 ft (KB) (TVD)** 2623.00 ft (CF)
Hole Diameter: **7.85 inches** Hole Condition: **Fair** KB to GR/CF: 5.00 ft

Serial #: 3024 **Inside**
Press@RunDepth: 549.63 psig @ 3553.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2002.04.08 End Date: 2002.04.08 Last Calib.: 2002.04.08
Start Time: 14:40:40 End Time: 22:27:39 Time On Btrr: 2002.04.08 @ 16:11:09
Time Off Btrr: 2002.04.08 @ 20:22:09

TEST COMMENT: FFP-wk to strg bl in 9 min
FFP-wk to strg in 12 min
time 30-60-60-90
had a w k bl on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.98	90.25	Initial Hydro-static
5	47.97	91.35	Open To Flow (1)
34	309.06	105.45	Shut-in (1)
93	1093.13	103.87	End Shut-in (1)
94	307.36	103.87	Open To Flow (2)
155	549.63	106.70	Shut-in (2)
246	1090.11	105.64	End Shut-in (2)
251	1661.26	105.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1015.00	water RW.08@58F	9.42
120.00	MV 10% mud 90% water W/show of oil	1.68

Gas Rates

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

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drig Co Inc

Shirley Trust #2-29

250 N Water
suite 300
Wichita Ks 67202
ATTN: Scott Robinson

29-2s-26w Decatur Ks
Job Ticket: 15549 DST#: 2
Test Start: 2002.04.08 @ 14:40:40

Tool Information

Drill Pipe:	Length: 3024.00 ft	Diameter: 3.80 inches	Volume: 42.42 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: 529.00 ft	Diameter: 2.25 inches	Volume: 2.60 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 45.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3552.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.01 ft			
Tool Length:	33.01 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			3530.00	
S.I. Tool	5.00			3535.00	
HMV	5.00			3540.00	
Safety Joint	2.00			3542.00	
Packer	5.00			3547.00	23.00 Bottom Of Top Packer
Packer	5.00			3552.00	
Stubb	1.00			3553.00	
Recorder	0.01	3024	inside	3553.01	
Perforations	6.00			3559.01	
Bullnose	3.00			3562.01	10.01 Bottom Packers & Anchor
Total Tool Length:	33.01				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc
250 N Water
suite 300
Wichita Ks 67202
ATTN: Scott Robinson

Shirley Trust #2-29
29-2s-26w Decatur Ks
Job Ticket: 15549 DST#: 2
Test Start: 2002.04.08 @ 14:40:40

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: 125000 ppm	
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.36 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1015.00	water RW.08@58F	9.419
120.00	MW 10% mud 90% water W/show of oil	1.683

Total Length: 1135.00 ft Total Volume: 11.102 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 3024

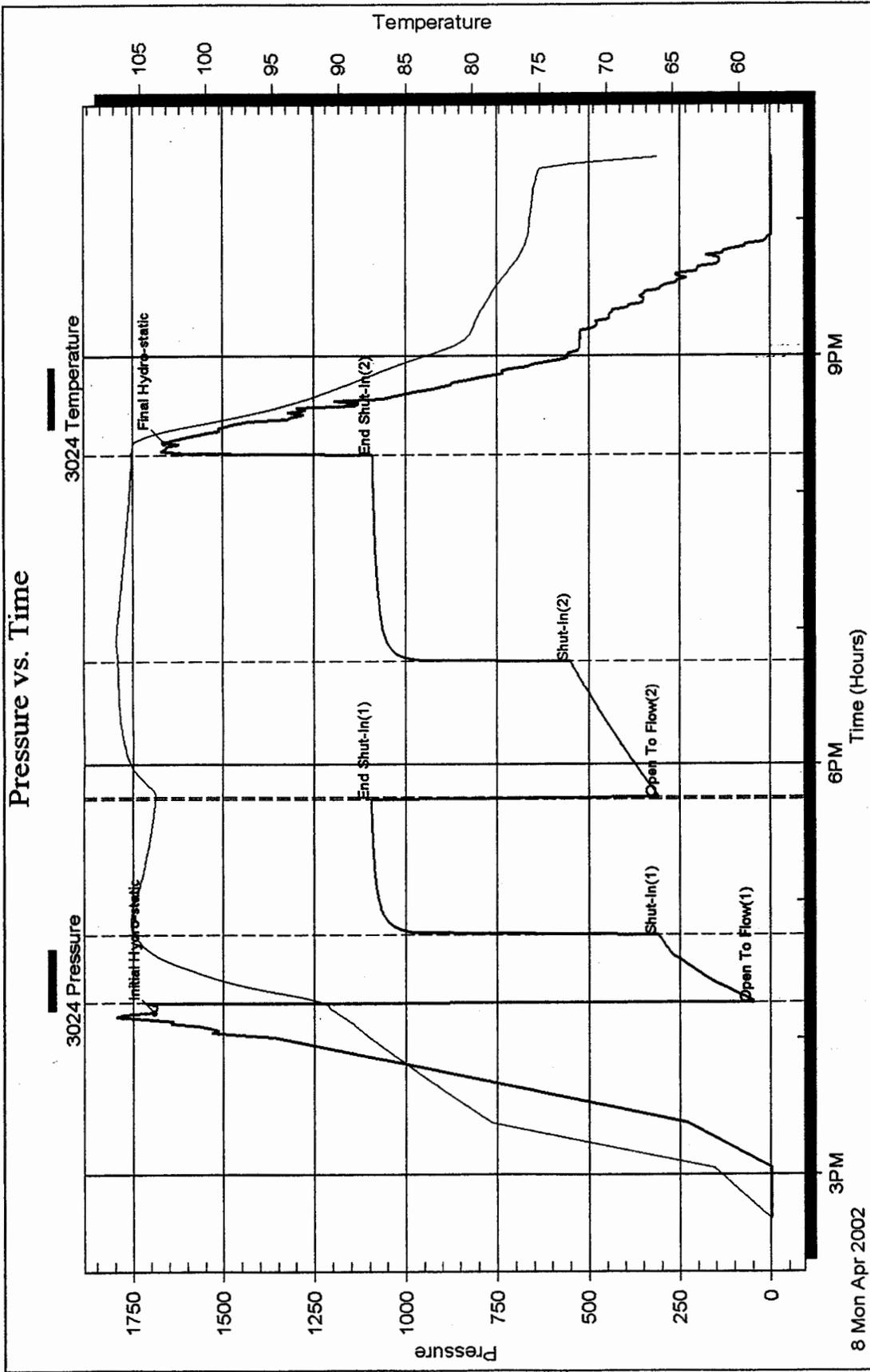
Inside

Murfin Drig Co Inc

29-2s-26w Decatur Ks

DST Test Number: 2

Pressure vs. Time



8 Mon Apr 2002

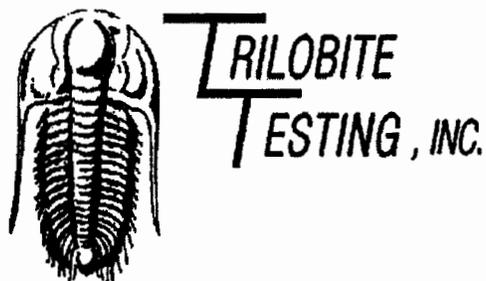
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Ref. No: 15549

Trilobite Testing, Inc

Printed: 2002.04.10 @ 13:30:17 Page 5

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DRILL STEM TEST REPORT

Prepared For: **Murfin Drig Co Inc**

250 N Water
suite 300
Wichita Ks 67202

ATTN: Scott Robinson

29-2s-26w Decatur Ks

Shirley Trust #2-29

Start Date: 2002.04.09 @ 06:44:01

End Date: 2002.04.09 @ 14:44:30

Job Ticket #: 15550 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

Murfin Drlg Co Inc

250 N Water
suite 300
Wichita Ks 67202

ATTN: Scott Robinson

Shirley Trust #2-29

29-2s-26w Decatur Ks

Job Ticket: 15550

DST#: 3

Test Start: 2002.04.09 @ 06:44:01

GENERAL INFORMATION:

Formation: **Lans G-H**

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

Time Tool Opened: 08:36:30

Time Test Ended: 14:44:30

Interval: **3569.00 ft (KB) To 3636.00 ft (KB) (TVD)**

Total Depth: **3547.00 ft (KB) (TVD)**

Hole Diameter: **7.85 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole**

Tester: **Ray Schwager**

Unit No: **16**

Reference Elevations: **2628.00 ft (KB)**

2623.00 ft (CF)

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

Serial #: 3024

Inside

Press@RunDepth: **499.24 psig @ 3578.01 ft (KB)**

Start Date: **2002.04.09** End Date: **2002.04.09**

Start Time: **06:44:01** End Time: **14:44:30**

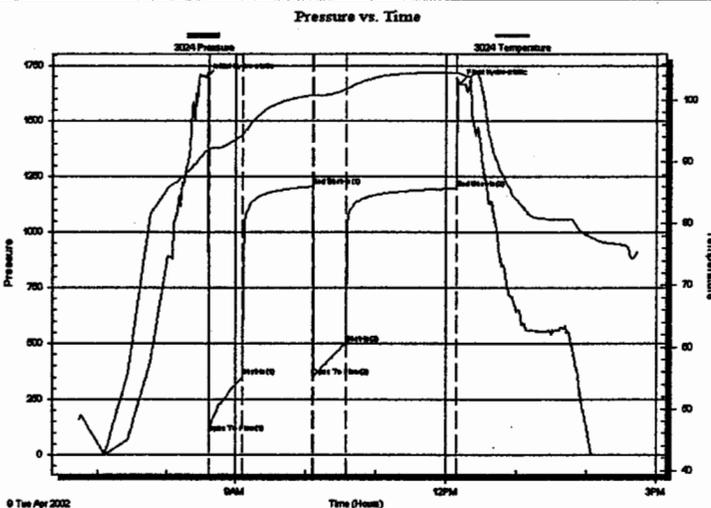
Capacity: **7000.00 psig**

Last Calib.: **2002.04.09**

Time On Btm: **2002.04.09 @ 08:34:30**

Time Off Btm: **2002.04.09 @ 12:11:30**

TEST COMMENT: IFP-strg bl in 3 min
FFP-strg bl thru-out
times 30-60-30-90
strg bl on shut-in, GTS 28 min into final flow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1698.65	91.74	Initial Hydro-static
2	96.03	91.85	Open To Flow(1)
32	352.92	94.44	Shut-In(1)
92	1204.82	100.83	End Shut-In(1)
93	352.96	100.88	Open To Flow(2)
120	499.24	101.79	Shut-In(2)
214	1197.33	104.49	End Shut-In(2)
217	1669.86	104.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume(bbl)
120.00	MGO 10%gas 65%oil 25%mud	0.59
1405.00	clean oil	15.98

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drg Co Inc

250 N Water
suite 300
Wichita Ks 67202

ATTN: Scott Robinson

Shirley Trust #2-29

29-2s-26w Decatur Ks

Job Ticket: 15550

DST#: 3

Test Start: 2002.04.09 @ 06:44:01

Tool Information

Drill Pipe: Length: 3024.00 ft Diameter: 3.80 inches Volume: 42.42 bbl
 Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
 Drill Collar: Length: 529.00 ft Diameter: 2.25 inches Volume: 2.60 bbl
 Total Volume: 45.02 bbl

Drill Pipe Above KB: 7.00 ft
 Depth to Top Packer: 3569.00 ft
 Depth to Bottom Packer: ft
 Interval between Packers: 67.02 ft
 Tool Length: 90.02 ft
 Number of Packers: 2 Diameter: 6.75 inches
 Tool Comments:

Tool Weight: 2200.00 lb
 Weight set on Packer: 25000.00 lb
 Weight to Pull Loose: 62000.00 lb
 Tool Chased 0.00 ft
 String Weight: Initial 53000.00 lb
 Final 58000.00 lb

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3547.00	
S.I. Tool	5.00			3552.00	
HMV	5.00			3557.00	
Safety Joint	2.00			3559.00	
Packer	5.00			3564.00	23.00 Bottom Of Top Packer
Packer	5.00			3569.00	
Stubb	1.00			3570.00	
Perforations	7.00			3577.00	
C.O. Sub	1.00			3578.00	
Recorder	0.01	3024	Inside	3578.01	



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drig Co Inc

Shirley Trust #2-29

250 N Water
suite 300
Wichita Ks 67202

29-2s-26w Decatur Ks

Job Ticket: 15550

DST#: 3

ATTN: Scott Robinson

Test Start: 2002.04.09 @ 06:44:01

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MGO 10%gas 65%oil 25%mud	0.590
1405.00	clean oil	15.983

Total Length: 1525.00 ft Total Volume: 16.573 bbl

Num Fluid Samples: 0

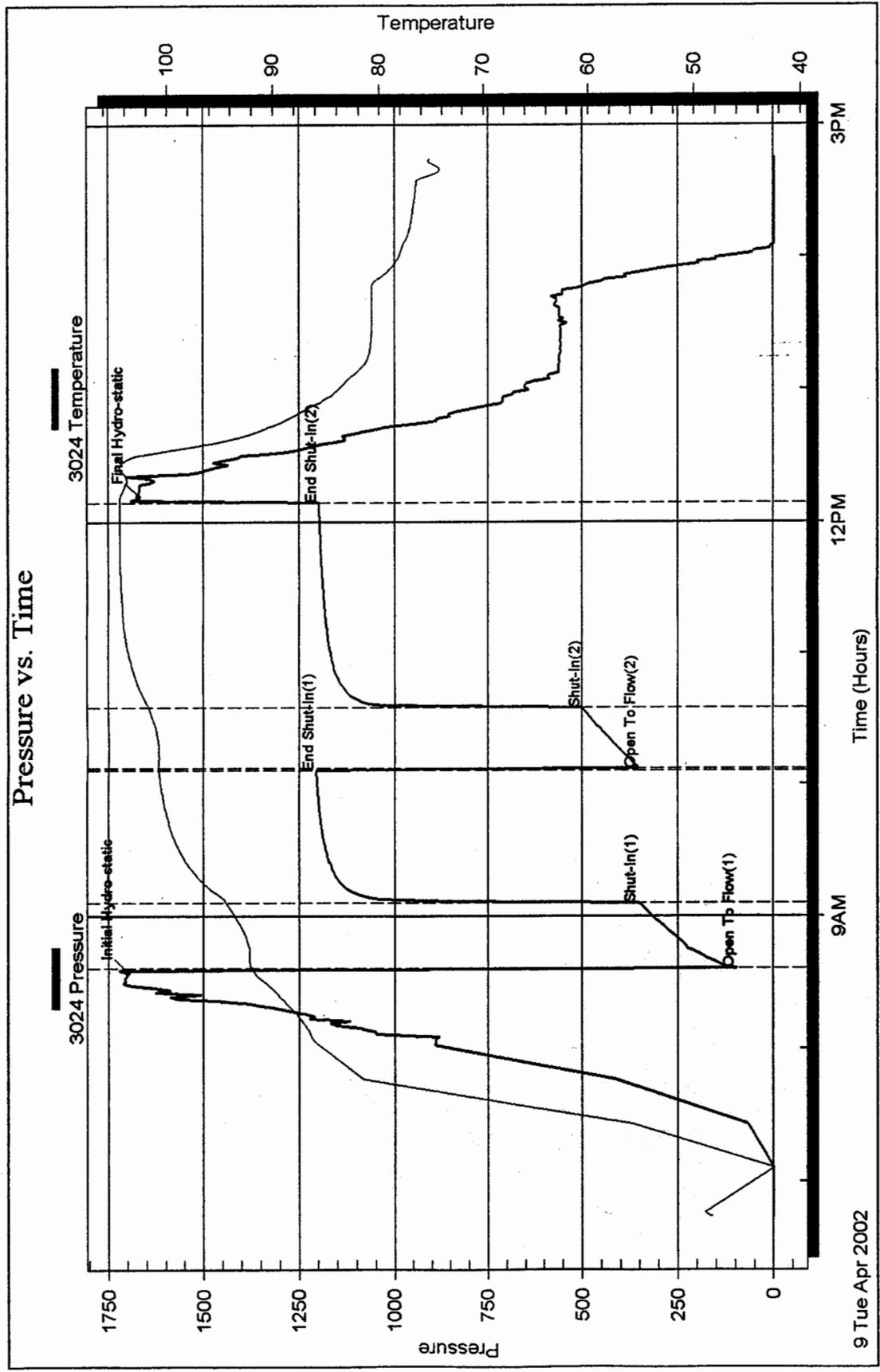
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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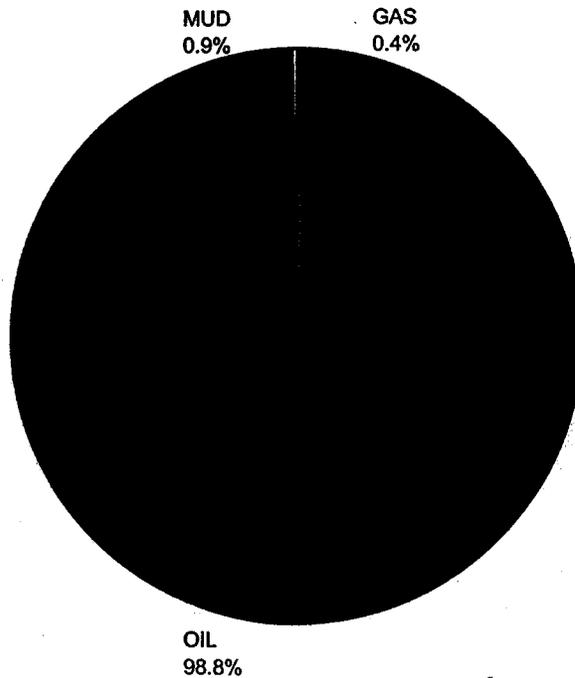
CALCULATED RECOVERY ANALYSIS

DST 3

TICKET 15550

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	996	0	0	100	996	0	0	0	0
PIPE 2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
WEIGHT 1	0	0	0	0	0	0	0	0	0
PIPE 2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
DRILL 1	409	0	0	100	409	0	0	0	0
COLLARS 2	120	10	12	65	78	0	0	25	30
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
TOTAL	1525	0	12	0	1483	0	0	0	30

BBL OIL = 16.54455 * HRS OPEN 1 = BBL/DAY 397.0692
 BBL WATER = 0 * = 0
 BBL MUD = 0.1467
 BBL GAS = 0.05868





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg Co Inc**

250 N Water
suite 300
Wichita Ks 67202

ATTN: Scott Robinson

29-2s-26w Decatur Ks

Shirley Trust #2-29

Start Date: 2002.04.10 @ 00:10:59

End Date: 2002.04.10 @ 06:02:28

Job Ticket #: 16276 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drlg Co Inc

Shirley Trust #2-29

29-2s-26w Decatur Ks

DST # 4

Lans J-K-L

2002.04.10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drig Co Inc
250 N Water
suite 300
Wichita Ks 67202
ATTN: Scott Robinson

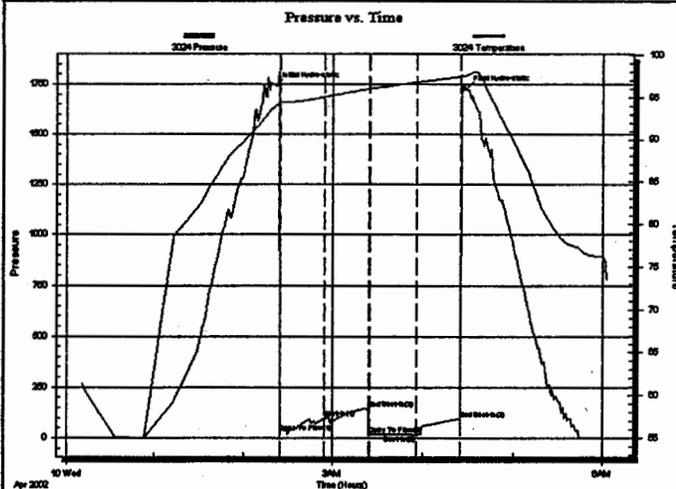
Shirley Trust #2-29
29-2s-26w Decatur Ks
Job Ticket: 16276 DST#: 4
Test Start: 2002.04.10 @ 00:10:59

GENERAL INFORMATION:

Formation: **Lans J-K-L**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 02:24:28
Time Test Ended: 06:02:28
Interval: **3634.00 ft (KB) To 3713.00 ft (KB) (TVD)**
Total Depth: **3547.00 ft (KB) (TVD)**
Hole Diameter: **7.85 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Ray Schwager**
Unit No: **16**
Reference Elevations: **2628.00 ft (KB)**
2623.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 3024 **Inside**
Press@RunDepth: **15.14 psig @ 3638.01 ft (KB)**
Start Date: **2002.04.10** End Date: **2002.04.10**
Start Time: **00:10:59** End Time: **06:02:28**
Capacity: **7000.00 psig**
Last Calib.: **2002.04.10**
Time On Btm: **2002.04.10 @ 02:21:28**
Time Off Btm: **2002.04.10 @ 04:28:28**

TEST COMMENT: FFP-wk bl thru-out 1/4" to surface bl
FFP-no bl
times 30-30-30-30
no bl on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1742.13	93.99	Initial Hydro-static
3	28.86	94.29	Open To Flow (1)
33	97.46	95.04	Shut-In(1)
63	143.60	95.97	End Shut-In(1)
63	17.71	95.99	Open To Flow (2)
94	15.14	96.74	Shut-In(2)
124	95.45	97.41	End Shut-In(2)
127	1725.49	97.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drig Co Inc

Shirley Trust #2-29

250 N Water
suite 300
Wichita Ks 67202

29-2s-26w Decatur Ks

Job Ticket: 16276 DST#: 4

ATTN: Scott Robinson

Test Start: 2002.04.10 @ 00:10:59

Tool Information

Drill Pipe:	Length: 3096.00 ft	Diameter: 3.80 inches	Volume: 43.43 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: 529.00 ft	Diameter: 2.25 inches	Volume: 2.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 46.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3634.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.02 ft			
Tool Length:	102.02 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			3612.00	
S.I. Tool	5.00			3617.00	
HMV	5.00			3622.00	
Safety Joint	2.00			3624.00	
Packer	5.00			3629.00	23.00 Bottom Of Top Packer
Packer	5.00			3634.00	
Stubb	1.00			3635.00	
Perforations	2.00			3637.00	
C.O. Sub	1.00			3638.00	
Recorder	0.01	3024	Inside	3638.01	
Blank Spacing	61.00			3699.01	
C.O. Sub	1.00			3700.01	
Recorder	0.01	11085	Outside	3700.02	
Perforations	10.00			3710.02	
Bullnose	3.00			3713.02	79.02 Bottom Packers & Anchor

Total Tool Length: 102.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drlg Co Inc

Shirley Trust #2-29

250 N Water
suite 300
Wichita Ks 67202

29-2s-26w Decatur Ks

Job Ticket: 16276 DST#: 4

ATTN: Scott Robinson

Test Start: 2002.04.10 @ 00:10:59

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: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

