



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co LLC**

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

14 22s 13w Stafford

Witt #1-14

Start Date: 2006.03.27 @ 20:31:10

End Date: 2006.03.28 @ 06:44:10

Job Ticket #: 24038 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

Murfin Drilling Co LLC

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

Witt #1-14

14 22s 13w Stafford

Job Ticket: 24038

DST#: 1

Test Start: 2006.03.27 @ 20:31:10

GENERAL INFORMATION:

Formation: **Lansing "D,E,F,G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:02:40

Time Test Ended: 06:44:10

Test Type: Conventional Bottom Hole

Tester: Gerald Adams

Unit No: 19

Interval: **3392.00 ft (KB) To 3443.00 ft (KB) (TVD)**

Total Depth: 3443.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1895.00 ft (KB)

1890.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6625

Inside

Press@RunDepth: 474.72 psig @ 3393.00 ft (KB)

Start Date: 2006.03.27

End Date:

2006.03.28

Start Time: 20:31:11

End Time:

06:44:10

Capacity: 7000.00 psig

Last Calib.: 2006.03.28

Time On Btm: 2006.03.27 @ 23:01:40

Time Off Btm: 2006.03.28 @ 02:34:40

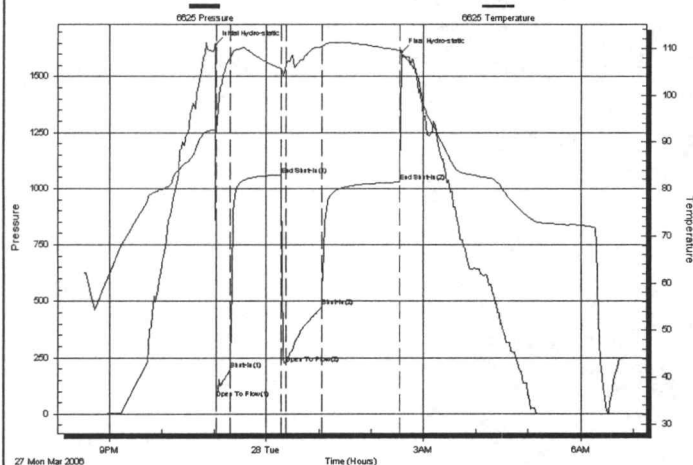
TEST COMMENT: IF Strong blow B.O.B in 45 secs GTS in 15 mins (see gas flow report)

ISI Strong blow B.O.B in 25 mins

FF Strong blow B.O.B in 30 secs (caught gas sample)

FSI Fair to strong blow B.O.B in 45 mins

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1643.53	92.57	Initial Hydro-static
1	69.86	92.25	Open To Flow (1)
17	195.15	107.94	Shut-In (1)
76	1061.30	105.73	End Shut-In (1)
81	222.59	106.38	Open To Flow (2)
122	474.72	110.38	Shut-In (2)
211	1028.38	109.58	End Shut-In (2)
213	1609.10	108.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	SG & OCM 5%G 25%O 70%M	0.34
1360.00	HO&GCM 10%G 80%O 10%M	16.76
0.00	1642 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	2.50	26.81
Last Gas Rate			
Max. Gas Rate	0.25	2.50	26.81



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co LLC

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

Witt #1-14

14 22s 13w Stafford

Job Ticket: 24038

DST#: 1

Test Start: 2006.03.27 @ 20:31:10

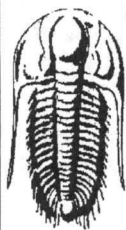
Tool Information

Drill Pipe:	Length: 3072.00 ft	Diameter: 3.80 inches	Volume: 43.09 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: 324.00 ft	Diameter: 2.25 inches	Volume: 1.59 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume:	44.68 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 28000.00 lb
Depth to Top Packer:	3392.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	71.00 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			3377.00	
Hydraulic tool	5.00			3382.00	
Packer	5.00			3387.00	20.00 Bottom Of Top Packer
Packer	5.00			3392.00	
Stubb	1.00			3393.00	
Recorder	0.00	6625	Inside	3393.00	
Change Over Sub	1.00			3394.00	
Blank Spacing	30.00			3424.00	
Change Over Sub	1.00			3425.00	
Perforations	15.00			3440.00	
Recorder	0.00	11019	Outside	3440.00	
Bullnose	3.00			3443.00	51.00 Bottom Packers & Anchor

Total Tool Length: 71.00



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co LLC

Witt #1-14

250 N Water Ste 300
Wichita KS 67202

14 22s 13w Stafford

Job Ticket: 24038

DST#: 1

ATTN: Joe Baker

Test Start: 2006.03.27 @ 20:31:10

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: 9.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	SG & OCM 5%G 25%O 70%M	0.344
1360.00	HO&GCM 10%G 80%O 10%M	16.763
0.00	1642 GIP	0.000

Total Length: 1430.00 ft

Total Volume: 17.107 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

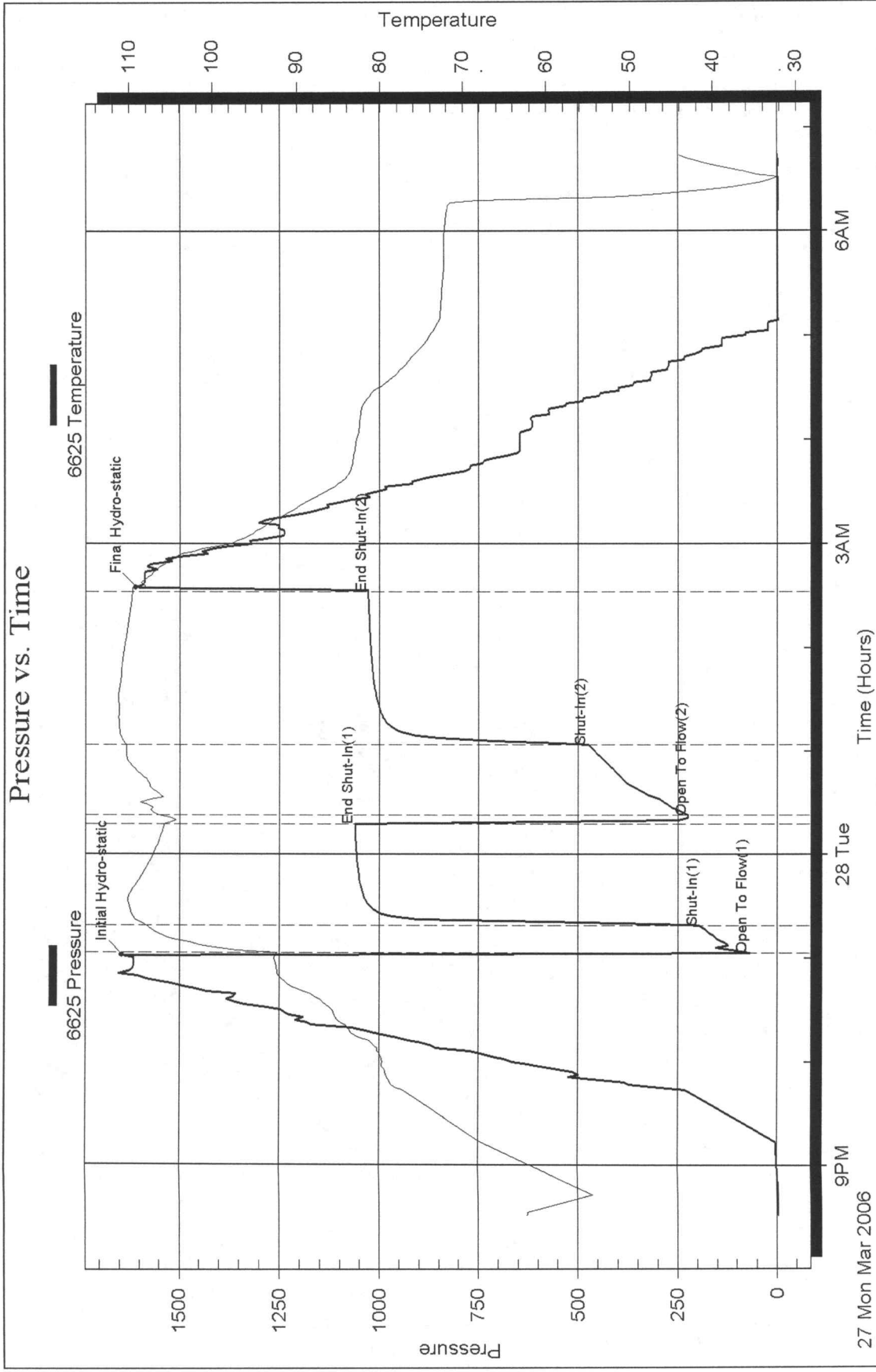
Serial #: ga-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co LLC**

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

14 22s 13w Stafford

Witt #1-14

Start Date: 2006.03.28 @ 20:13:43

End Date: 2006.03.29 @ 05:41:43

Job Ticket #: 24039 DST #: 2

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

Murfyn Drilling Co LLC

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

Witt #1-14

14 22s 13w Stafford

Job Ticket: 24039

DST#: 2

Test Start: 2006.03.28 @ 20:13:43

GENERAL INFORMATION:

Formation: **Lansing "G,H,I,"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:17:43

Time Test Ended: 05:41:43

Test Type: Conventional Bottom Hole

Tester: Gerald Adams

Unit No: 19

Interval: **3447.00 ft (KB) To 3522.00 ft (KB) (TVD)**

Total Depth: 3522.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1895.00 ft (KB)

1890.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6625

Inside

Press@RunDepth: 382.09 psig @ 3457.00 ft (KB)

Start Date: 2006.03.28

End Date:

2006.03.29

Start Time: 20:13:44

End Time:

05:41:43

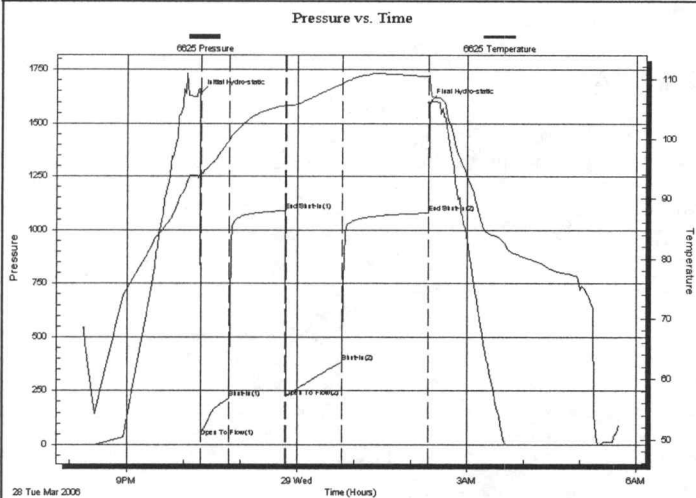
Capacity: 7000.00 psig

Last Calib.: 2006.03.29

Time On Btm: 2006.03.28 @ 22:17:13

Time Off Btm: 2006.03.29 @ 02:19:13

TEST COMMENT: IF Strong blow B.O.B. in 9 1/2 mins
ISI Fair blow Steady at 6"
FF Strong blow B.O.B. in 8 mins
FSI Fair blow Steady at 6"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1639.99	94.27	Initial Hydro-static
1	36.77	93.99	Open To Flow (1)
31	214.63	99.75	Shut-In(1)
90	1089.52	105.59	End Shut-In(1)
91	222.13	105.47	Open To Flow (2)
150	382.09	109.16	Shut-In(2)
241	1079.37	110.38	End Shut-In(2)
242	1595.86	110.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
730.00	Muddy Salt Water 85%W 15%M	7.29
20.00	Gassy Oil 10% G 90%O	0.28
0.00	60 GIP	0.00
0.00	RW 28 @ 54 deg 35000 ppm	0.00

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 LLC

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

Witt #1-14

14 22s 13w Stafford

Job Ticket: 24039

DST#: 2

Test Start: 2006.03.28 @ 20:13:43

Tool Information

Drill Pipe:	Length: 3135.00 ft	Diameter: 3.80 inches	Volume: 43.98 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: 324.00 ft	Diameter: 2.25 inches	Volume: 1.59 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume: 45.57 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3447.00 ft			Final 32000.00 lb
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:
Slid tool 10' to bottom.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3432.00	
Hydraulic tool	5.00			3437.00	
Packer	5.00			3442.00	20.00 Bottom Of Top Packer
Packer	5.00			3447.00	
Stubb	1.00			3448.00	
Perforations	9.00			3457.00	
Recorder	0.00	6625	Inside	3457.00	
Change Over Sub	1.00			3458.00	
Blank Spacing	30.00			3488.00	
Change Over Sub	1.00			3489.00	
Perforations	30.00			3519.00	
Recorder	0.00	11019	Outside	3519.00	
Bullnose	3.00			3522.00	75.00 Bottom Packers & Anchor

Total Tool Length: 95.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co LLC

Witt #1-14

250 N Water Ste 300
Wichita KS 67202

14 22s 13w Stafford

Job Ticket: 24039

DST#: 2

ATTN: Joe Baker

Test Start: 2006.03.28 @ 20:13:43

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: 8.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
730.00	Muddy Salt Water 85%W 15%M	7.288
20.00	Gassy Oil 10% G 90%O	0.281
0.00	60 GIP	0.000
0.00	RW 28 @ 54 deg 35000 ppm	0.000

Total Length: 750.00 ft

Total Volume: 7.569 bbl

Num Fluid Samples: 0

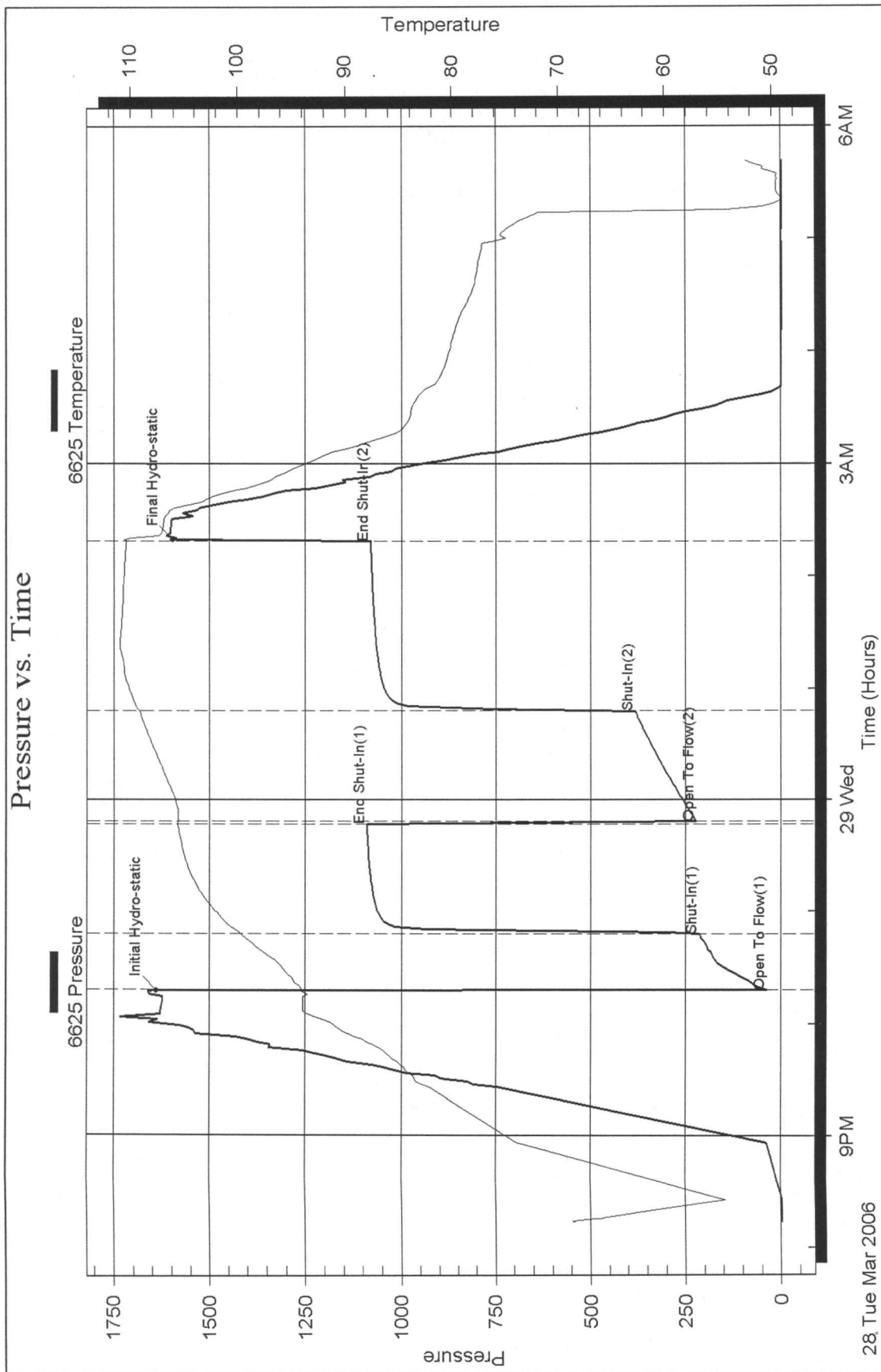
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co LLC**

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

14 22s 13w Stafford

Witt #1-14

Start Date: 2006.03.29 @ 18:07:57

End Date: 2006.03.30 @ 02:09:57

Job Ticket #: 24040 DST #: 3

Trilobite Testing, Inc

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



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DRILL STEM TEST REPORT

Murfin Drilling Co LLC

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

Witt #1-14

14 22s 13w Stafford

Job Ticket: 24040

DST#: 3

Test Start: 2006.03.29 @ 18:07:57

GENERAL INFORMATION:

Formation: **Lansing "J,K,L."**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:22:57

Time Test Ended: 02:09:57

Test Type: Conventional Bottom Hole

Tester: Gerald Adams

Unit No: 19

Interval: **3526.00 ft (KB) To 3578.00 ft (KB) (TVD)**

Total Depth: 3578.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1895.00 ft (KB)

1890.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6625

Inside

Press@RunDepth: 63.83 psig @ 3527.00 ft (KB)

Start Date: 2006.03.29

End Date:

2006.03.30

Start Time: 18:07:58

End Time:

02:09:57

Capacity: 7000.00 psig

Last Calib.: 2006.03.30

Time On Btm: 2006.03.29 @ 20:22:27

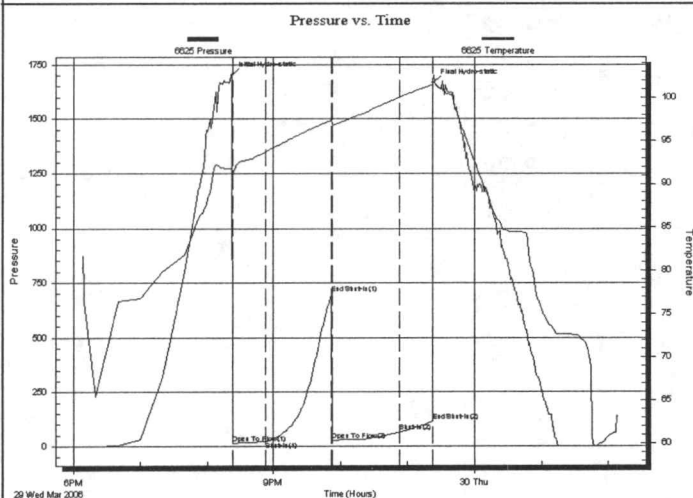
Time Off Btm: 2006.03.29 @ 23:22:57

TEST COMMENT: IF Weak blow Built to 1"

ISI No blow

FF Very weak surface blow Dead in 22 mins

FSI No blow



PRESSURE SUMMARY

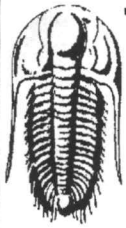
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1700.98	91.79	Initial Hydro-static
1	12.28	91.42	Open To Flow (1)
31	20.56	93.67	Shut-In(1)
90	704.03	97.36	End Shut-In(1)
90	26.45	96.90	Open To Flow (2)
150	63.83	100.01	Shut-In(2)
180	114.95	101.47	End Shut-In(2)
181	1665.20	102.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling Mud	0.07

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 LLC

Witt #1-14

250 N Water Ste 300
Wichita KS 67202

14 22s 13w Stafford

Job Ticket: 24040

DST#: 3

ATTN: Joe Baker

Test Start: 2006.03.29 @ 18:07:57

Tool Information

Drill Pipe:	Length: 3197.00 ft	Diameter: 3.80 inches	Volume: 44.85 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: 324.00 ft	Diameter: 2.25 inches	Volume: 1.59 bbl	Weight to Pull Loose: 40000.00 lb
		Total Volume: 46.44 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3526.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	72.00 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			3511.00	
Hydraulic tool	5.00			3516.00	
Packer	5.00			3521.00	20.00 Bottom Of Top Packer
Packer	5.00			3526.00	
Stubb	1.00			3527.00	
Recorder	0.00	6625	Inside	3527.00	
Change Over Sub	1.00			3528.00	
Blank Spacing	31.00			3559.00	
Change Over Sub	1.00			3560.00	
Perforations	15.00			3575.00	
Recorder	0.00	11019	Outside	3575.00	
Bullnose	3.00			3578.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co LLC

Witt #1-14

250 N Water Ste 300
Wichita KS 67202

14 22s 13w Stafford

Job Ticket: 24040

DST#: 3

ATTN: Joe Baker

Test Start: 2006.03.29 @ 18:07:57

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drilling Mud	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

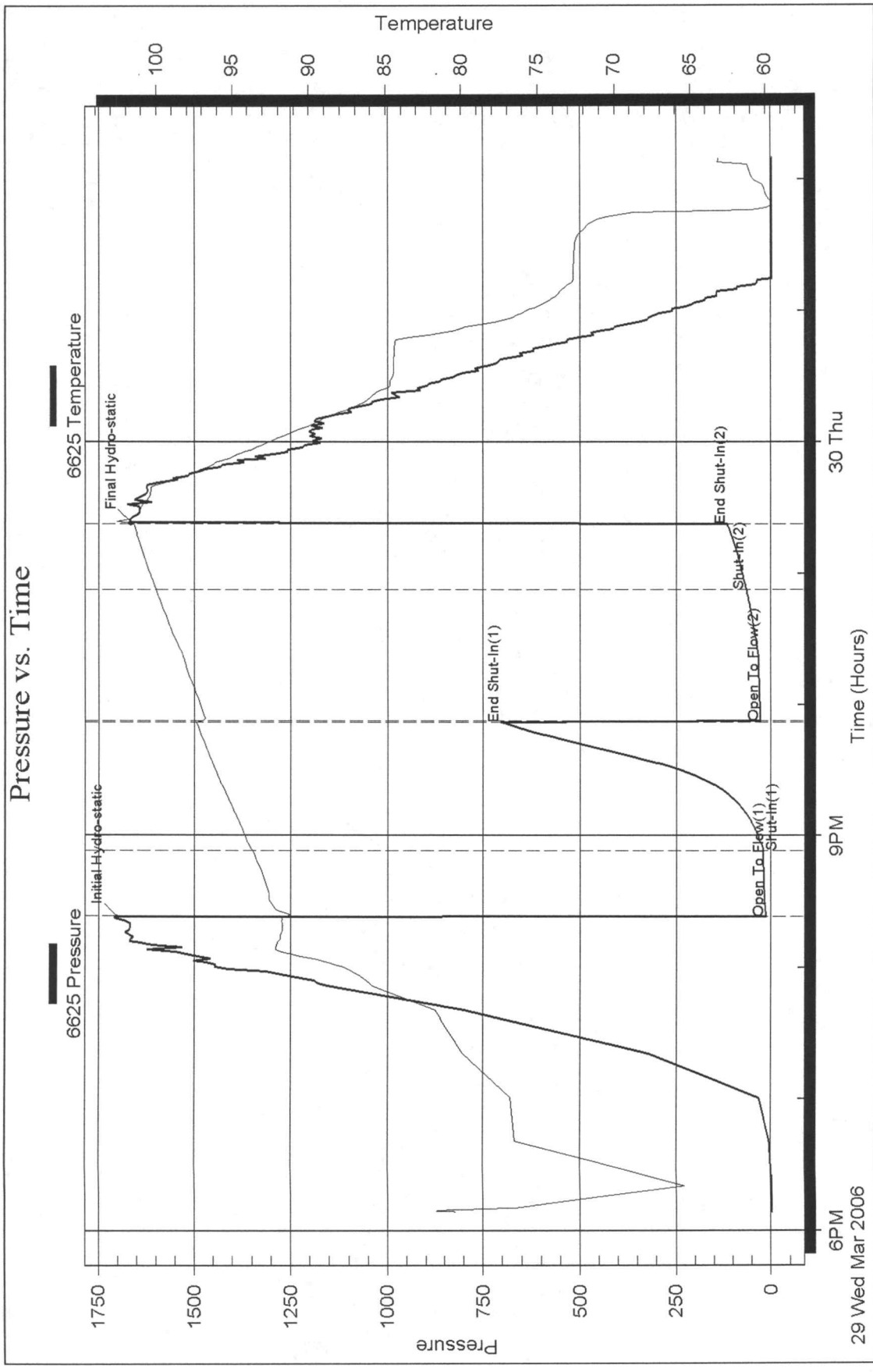
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co LLC**

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

14 22s 13w Stafford

Witt #1-14

Start Date: 2006.03.31 @ 02:24:38

End Date: 2006.03.31 @ 11:16:38

Job Ticket #: 24041 DST #: 4

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

Murfin Drilling Co LLC

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

Witt #1-14

14 22s 13w Stafford

Job Ticket: 24041

DST#: 4

Test Start: 2006.03.31 @ 02:24:38

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:59:08

Time Test Ended: 11:16:38

Test Type: Conventional Bottom Hole

Tester: Gerald Adams

Unit No: 19

Interval: **3684.00 ft (KB) To 3754.00 ft (KB) (TVD)**

Total Depth: 3754.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1895.00 ft (KB)

1890.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6625

Inside

Press@RunDepth: 390.19 psig @ 3685.00 ft (KB)

Start Date: 2006.03.31

End Date: 2006.03.31

Start Time: 02:24:39

End Time: 11:16:38

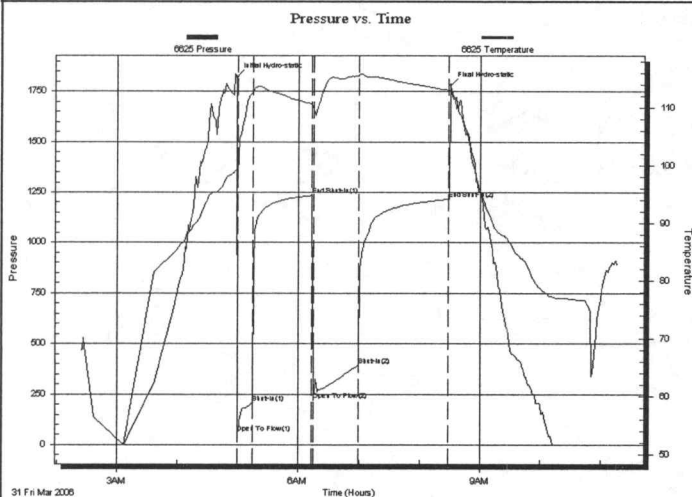
Capacity: 7000.00 psig

Last Calib.: 2006.03.31

Time On Btm: 2006.03.31 @ 04:58:38

Time Off Btm: 2006.03.31 @ 08:30:08

TEST COMMENT: IF Strong blow B.O.B. in 3 mins
ISI Weak blow . Built to 1 1/4"
FF Strong blow B.O.B. in 5 mins
FSI No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1821.30	99.23	Initial Hydro-static
1	55.04	98.68	Open To Flow (1)
16	204.98	112.69	Shut-In (1)
75	1233.66	110.68	End Shut-In (1)
77	219.92	109.78	Open To Flow (2)
121	390.19	115.59	Shut-In (2)
210	1215.91	113.09	End Shut-In (2)
212	1780.06	112.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
	HG & MCO 40%G 45%O 15%M	1.96
600.00	SMCO 95%O 5%M	5.46
0.00	100 GIP	0.00

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 LLC

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

Witt #1-14

14 22s 13w Stafford

Job Ticket: 24041

DST#: 4

Test Start: 2006.03.31 @ 02:24:38

Tool Information

Drill Pipe:	Length: 3351.00 ft	Diameter: 3.80 inches	Volume: 47.01 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: 324.00 ft	Diameter: 2.25 inches	Volume: 1.59 bbl	Weight to Pull Loose: 48000.00 lb
		Total Volume: 48.60 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3684.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	90.00 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			3669.00	
Hydraulic tool	5.00			3674.00	
Packer	5.00			3679.00	20.00 Bottom Of Top Packer
Packer	5.00			3684.00	
Stubb	1.00			3685.00	
Recorder	0.00	6625	Inside	3685.00	
Change Over Sub	1.00			3686.00	
Blank Spacing	31.00			3717.00	
Change Over Sub	1.00			3718.00	
Perforations	33.00			3751.00	
Recorder	0.00	11019	Outside	3751.00	
Bullnose	3.00			3754.00	70.00 Bottom Packers & Anchor

Total Tool Length: 90.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co LLC

Witt #1-14

250 N Water Ste 300
Wichita KS 67202

14 22s 13w Stafford

Job Ticket: 24041

DST#: 4

ATTN: Joe Baker

Test Start: 2006.03.31 @ 02:24:38

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: 9.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
	HG & MCO 40%G 45%O 15%M	1.958
600.00	SMCO 95%O 5%M	5.465
0.00	100 GIP	0.000

Total Length: 600.00 ft

Total Volume: 7.423 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

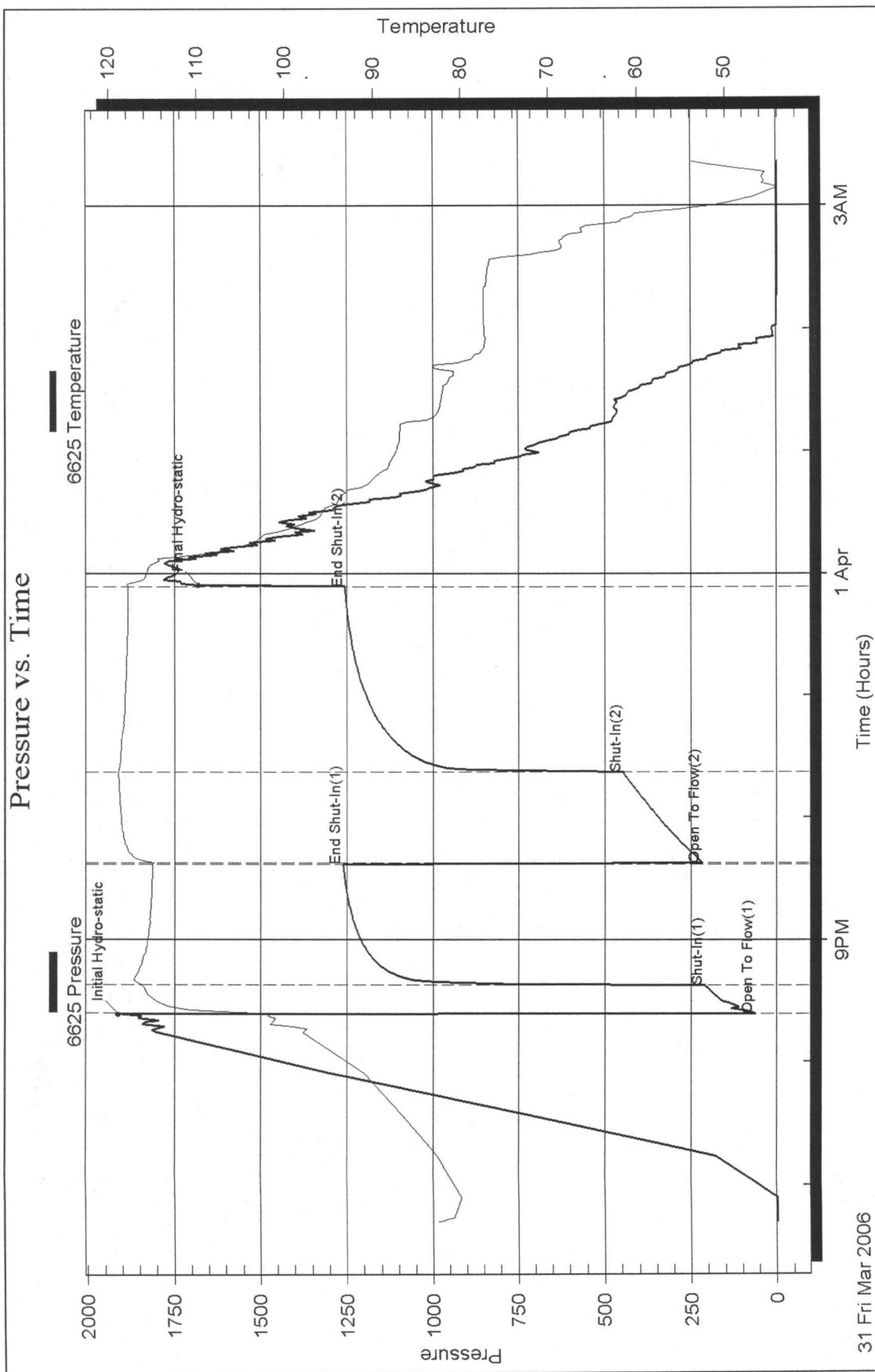
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co LLC**

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

14 22s 13w Stafford

Witt #1-14

Start Date: 2006.03.31 @ 18:41:51

End Date: 2006.04.01 @ 03:21:21

Job Ticket #: 24042 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

Murfin Drilling Co LLC

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

Witt #1-14

14 22s 13w Stafford

Job Ticket: 24042

DST#: 5

Test Start: 2006.03.31 @ 18:41:51

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:23:21

Time Test Ended: 03:21:21

Test Type: Conventional Bottom Hole

Tester: Gerald Adams

Unit No: 19

Interval: **3756.00 ft (KB) To 3769.00 ft (KB) (TVD)**

Total Depth: 3769.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1895.00 ft (KB)

1890.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6625

Inside

Press@RunDepth: 446.22 psig @ 3757.00 ft (KB)

Start Date: 2006.03.31

End Date:

2006.04.01

Start Time: 18:41:52

End Time:

03:21:21

Capacity: 7000.00 psig

Last Calib.: 2006.04.01

Time On Btm: 2006.03.31 @ 20:22:51

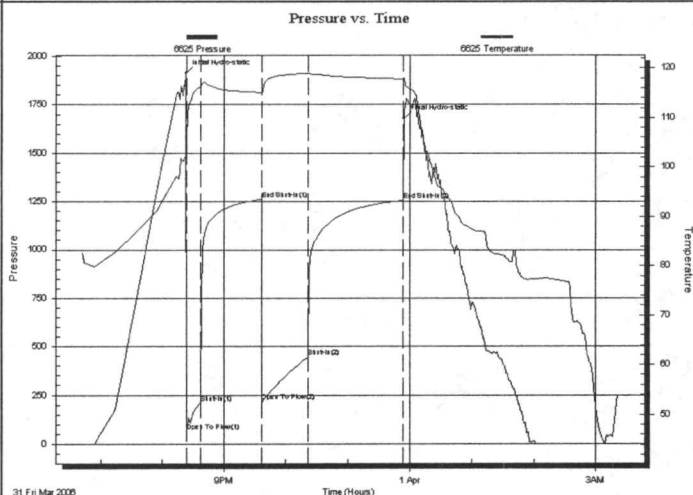
Time Off Btm: 2006.03.31 @ 23:54:21

TEST COMMENT: IF Strong blow B.O.B. in 5 mins

ISI No blow

FF Strong blow B.O.B. in 6 mins

FSI No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1911.90	101.75	Initial Hydro-static
1	63.40	103.11	Open To Flow (1)
15	209.75	116.28	Shut-In(1)
74	1261.05	115.07	End Shut-In(1)
75	218.19	114.87	Open To Flow (2)
119	446.22	118.91	Shut-In(2)
211	1255.54	117.80	End Shut-In(2)
212	1679.19	117.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1070.00	Muddy Salt Water	12.06
0.00	RW 59 @ 51 deg 15000 ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co LLC

250 N Water Ste 300
Wichita KS 67202

ATTN: Joe Baker

Witt #1-14

14 22s 13w Stafford

Job Ticket: 24042

DST#: 5

Test Start: 2006.03.31 @ 18:41:51

Tool Information

Drill Pipe:	Length: 3444.00 ft	Diameter: 3.80 inches	Volume: 48.31 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: 324.00 ft	Diameter: 2.25 inches	Volume: 1.59 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume:	49.90 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3756.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	33.00 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			3741.00	
Hydraulic tool	5.00			3746.00	
Packer	5.00			3751.00	20.00 Bottom Of Top Packer
Packer	5.00			3756.00	
Stubb	1.00			3757.00	
Recorder	0.00	6625	Inside	3757.00	
Perforations	9.00			3766.00	
Recorder	0.00	11019	Outside	3766.00	
Bullnose	3.00			3769.00	13.00 Bottom Packers & Anchor
Total Tool Length:	33.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co LLC

Witt #1-14

250 N Water Ste 300
Wichita KS 67202

14 22s 13w Stafford

Job Ticket: 24042

DST#: 5

ATTN: Joe Baker

Test Start: 2006.03.31 @ 18:41:51

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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.15 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1070.00	Muddy Salt Water	12.058
0.00	RW 59 @ 51 deg 15000 ppm	0.000

Total Length: 1070.00 ft

Total Volume: 12.058 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

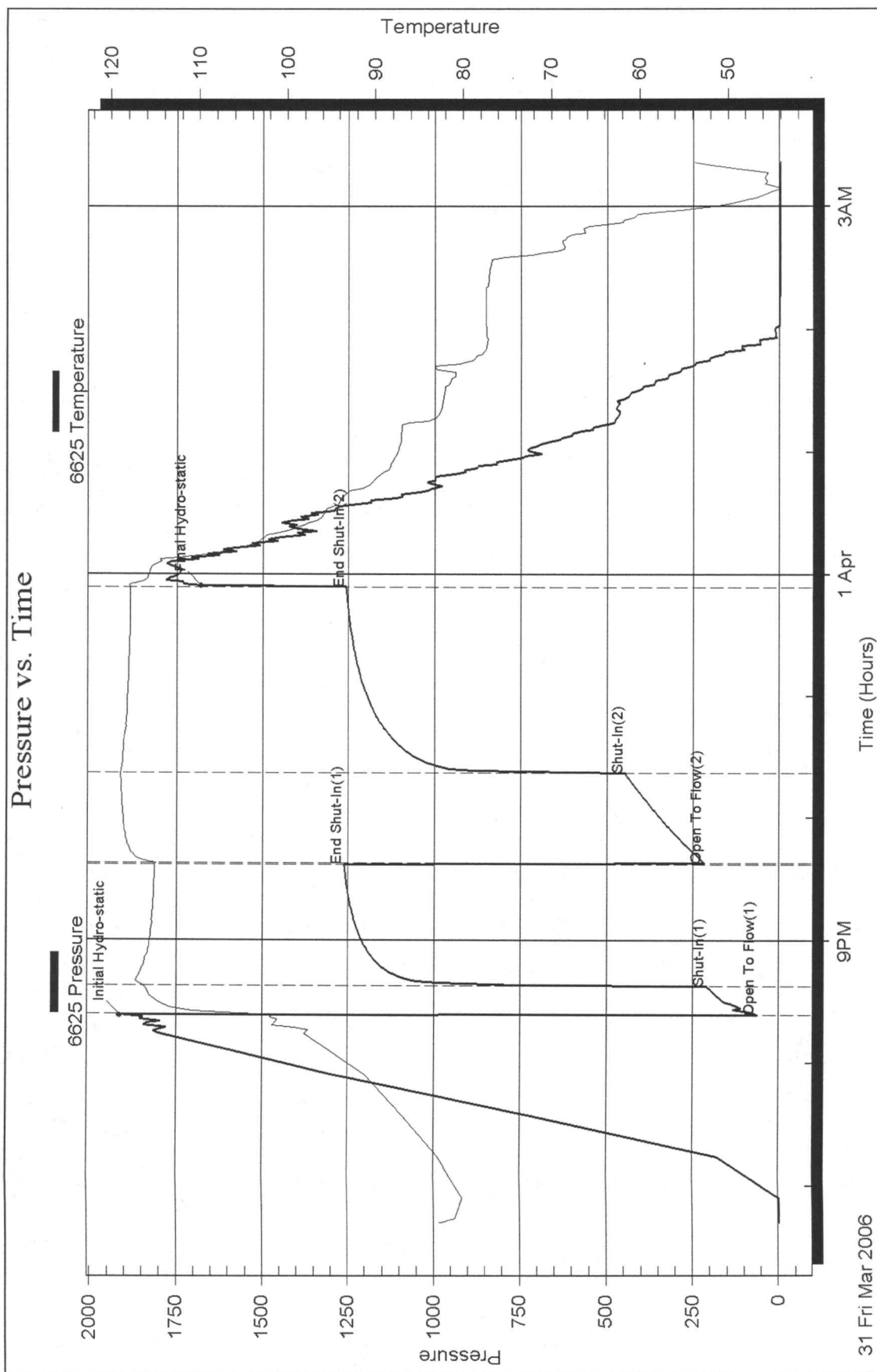
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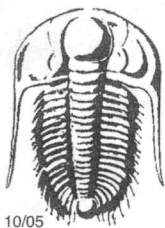
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 24038

8596

Test Ticket

Well Name & No. Witt # 1-14 Test No. 1 Date 3-27-06
 Company Murfin Drilg. Co. LLC. Zone Tested Lansing "D,E,F,G"
 Address 250 N. Water, Ste #300 Wichita, Ks. 67202 Elevation 1895 KB 1890 GL
 Co. Rep / Geo. Joe Baker Rig Berentz # 5
 Location: Sec. 14 Twp. 22S Rge. 13W Co. Stafford State Ks.
 Comment: _____ Release date / time: _____

Interval Tested 3392-3443 Initial Str Wt./Lbs. 28,000 Unseated Str Wt./Lbs. 32,000
 Anchor Length 51 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 40,000
 Top Packer Depth 3387 Tool Weight 2100
 Bottom Packer Depth 3392 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3443 Wt. Pipe Run 0 Drill Collar Run 324
 Mud Wt. 9.0 LCM ~ Vis. 51 WL 9.2 Drill Pipe Size 4 1/2" Ft. Run 3072

Blow Description IF: Strong blow. B.O.B. in 45 secs. GTS in 15 mins. (see gas flow report.)
ISF: Strong blow. B.O.B. in 25 mins
FF: Strong blow. B.O.B. in 30 secs. (caught gas sample.)
FSI: Fair to strong blow. B.O.B. in 45 mins.

Recovery - Total Feet 1430 GIP ~~1642~~ 1642' Ft. in DC 324 Ft. in DP 1106
 Rec. ~~1100~~ 1360 Feet of H+GCM 10%gas 80%oil %water 10 %mud
 Rec. 70 Feet of SG+OCM 5%gas 25%oil %water 70 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 109 °F Gravity 28 °API D @ 66 °F Corrected Gravity 27 °API
 RW N/C @ ~ °F Chlorides 6400 ppm Recovery ~ Chlorides 6400 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1681</u>	PSI	Recorder No.	<u>6625</u>	Test ✓ <u>1000</u>
(B) First Initial Flow Pressure	<u>70</u>	PSI	(depth)	<u>3393</u>	Jars _____
(C) First Final Flow Pressure	<u>195</u>	PSI	Recorder No.	<u>11019</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1061</u>	PSI	(depth)	<u>3440</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>223</u>	PSI	Recorder No.	<u>~</u>	Sampler _____
(F) Second Final Flow Pressure	<u>475</u>	PSI	(depth)	<u>~</u>	Straddle _____
(G) Final Shut-In Pressure	<u>1028</u>	PSI	Initial Opening	<u>15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1609</u>	PSI	Initial Shut-In	<u>60</u>	Shale Packer _____
			Final Flow	<u>45</u>	Ruined Packer _____
			Final Shut-In	<u>90</u>	Mileage ✓ <u>80</u> <u>100</u>
			T-On Location	<u>1900</u>	Sub Total: <u>1100</u>
			T-Started	<u>2031</u>	Std. By <u>3.75</u> <u>187.50</u>
			T-Open	<u>2302</u>	Acc. Chg: _____
			T-Pulled	<u>0233</u>	Other: _____
			T-Out	<u>0644</u>	Total: <u>\$1287.50</u>

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Approved By [Signature] Thank You.

Our Representative Gerald Adams

GAS VOLUME REPORT

Murfin Drig. Co. LLC
OPERATOR

Witt # 1-14

WELL NAME AND NO.

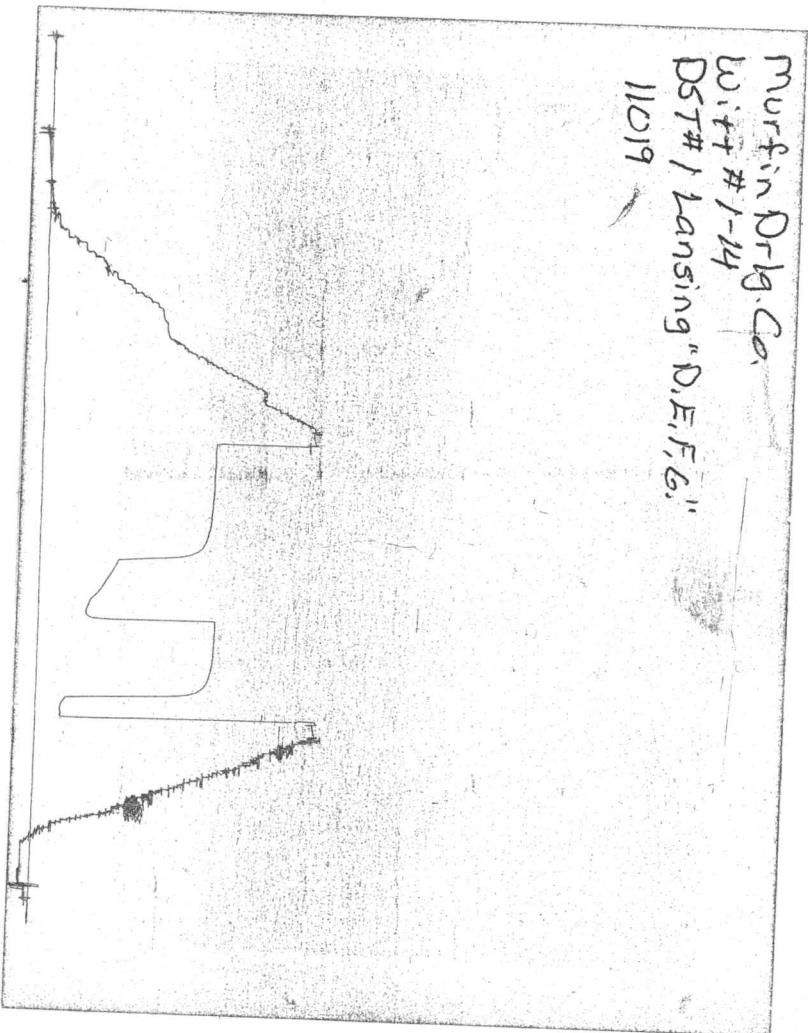
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DST NO.

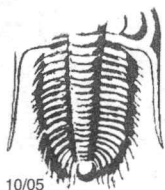
[illegible]

Remarks:

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 24039

Test Ticket

Well Name & No. Witt #1-14 Test No. 2 Date 3-28-06
 Company Murfin Drilling Co. LLC Zone Tested Lansing "G, H, I"
 Address 250 N. Water, Ste #300 Wichita, Ks. 67202 Elevation 1895 KB 1890 GL
 Co. Rep / Geo. Joe Baker Rig Berentz #5
 Location: Sec. 14 Twp. 22s Rge. 13w Co. Stafford State Ks.
 Comment: Slid tool 10' to bottom. Release date / time: _____

Interval Tested 3447-3522 Initial Str Wt./Lbs. 30,000 Unseated Str Wt./Lbs. 32,000
 Anchor Length 75 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 40,000
 Top Packer Depth 3442 Tool Weight 2100
 Bottom Packer Depth 3447 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3522 Wt. Pipe Run 0 Drill Collar Run 324
 Mud Wt. 8.9 LCM — Vis. 52 WL 8.8 Drill Pipe Size 4 1/8" Ft. Run 3135

Blow Description IF: Strong blow. B.O.B. in 9 1/2 mins.

IST: Fair blow. Steady at 6"

FF: Strong blow. B.O.B. in 8 mins.

FSI: Fair blow. Steady at 6"

Recovery - Total Feet 750 GIP 60' Ft. in DC 324 Ft. in DP 446
 Rec. 20 Feet of Gassy Oil 10% gas 90% oil %water %mud
 Rec. 730 Feet of Muddy Saltwater %gas %oil 85% water 15% mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 110 °F Gravity 28 °API D @ 80 °F Corrected Gravity 26 °API
 RW .28 @ 54 °F Chlorides 35,000 ppm Recovery — Chlorides 6500 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1667</u>	PSI	Recorder No.	<u>6625</u>	Test <u>✓</u> <u>1000</u>
(B) First Initial Flow Pressure	<u>37</u>	PSI	(depth)	<u>3457</u>	Jars _____
(C) First Final Flow Pressure	<u>215</u>	PSI	Recorder No.	<u>11019</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1090</u>	PSI	(depth)	<u>3519</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>222</u>	PSI	Recorder No.	<u>—</u>	Sampler _____
(F) Second Final Flow Pressure	<u>382</u>	PSI	(depth)	<u>—</u>	Straddle _____
(G) Final Shut-In Pressure	<u>1079</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1620</u>	PSI	Initial Shut-In	<u>60</u>	Shale Packer _____

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Approved By [Signature]

Our Representative Herald Adams

Thank
You.

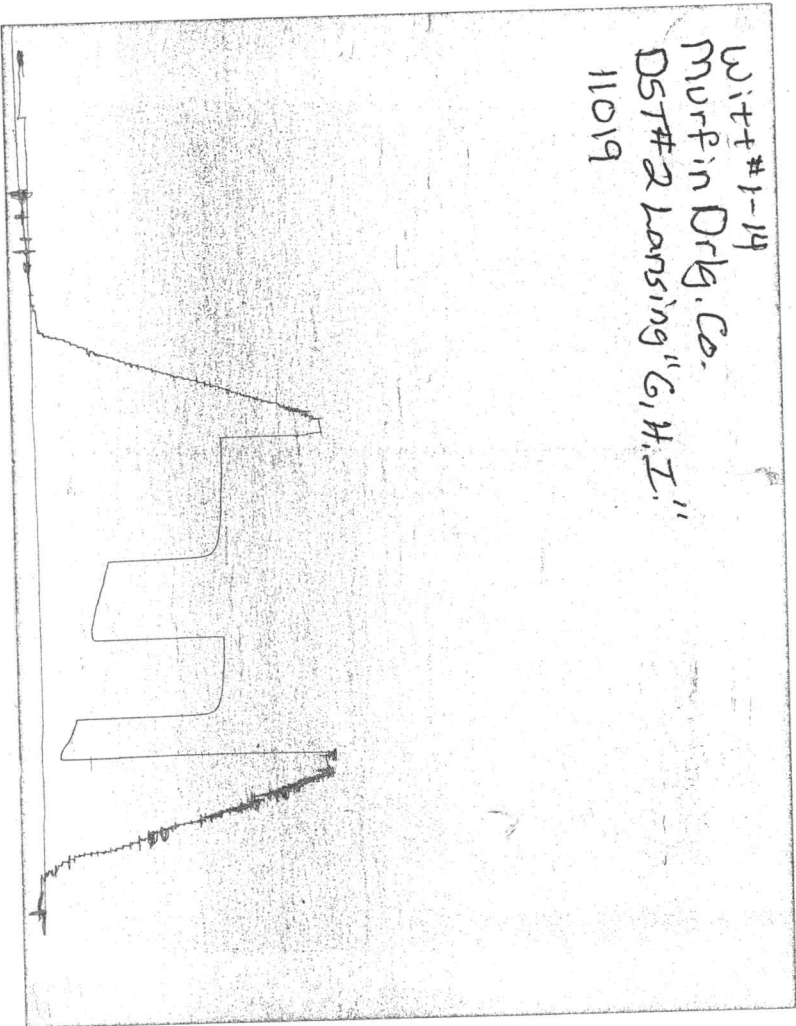
Final Flow 60
 Final Shut-In 90
 T-On Location 2000
 T-Started 2013
 T-Open 2217
 T-Pulled 0217
 T-Out 0541

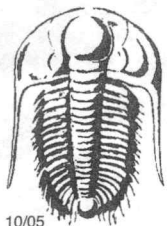
Mileage ✓ 80 100
 Sub Total: 1100
 Std. By 1.75 87.50
 Acc. Chg: _____
 Other: _____
 Total: 1187.50

CHART PAGE

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

Witt #1-14
Murfin Drilling Co.
DST #2 Lansing "G, H, I."
11019





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 24040

Test Ticket

Well Name & No. Witt #1-14 Test No. 3 Date 3-29-06
 Company Murfin Drilling Co. LLC Zone Tested Lansing "J, K, L"
 Address 250 N. Water, Ste #300, Wichita, Kansas, 67202 Elevation 1895 KB 1890 GL
 Co. Rep / Geo. Joe Baker Rig Berentz #5
 Location: Sec. 14 Twp. 22S Rge. 13W Co. Stafford State Ks.
 Comment: _____ Release date / time: _____

Interval Tested 3526-3578 Initial Str Wt./Lbs. 30,000 Unseated Str Wt./Lbs. 30,000
 Anchor Length 52 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 40,000
 Top Packer Depth 3521 Tool Weight 2100
 Bottom Packer Depth 3526 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3578 Wt. Pipe Run 0 Drill Collar Run 324
 Mud Wt. 9.0 LCM — Vis. 55 WL 8.0 Drill Pipe Size 4 1/2" Ft. Run 3197

Blow Description IF: Weak blow. Built to L"
FST: No blow
FF: Very weak surface blow. Dead in 22 mins.
FST: No blow.

Recovery - Total Feet 15 GIP None Ft. in DC 15 Ft. in DP 0
 Rec. 15 Feet of Drilling Mud %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 101 °F Gravity N/C °API D @ _____ °F Corrected Gravity _____ °API
 RW N/C @ _____ °F Chlorides 8500 ppm Recovery _____ Chlorides 8500 ppm System

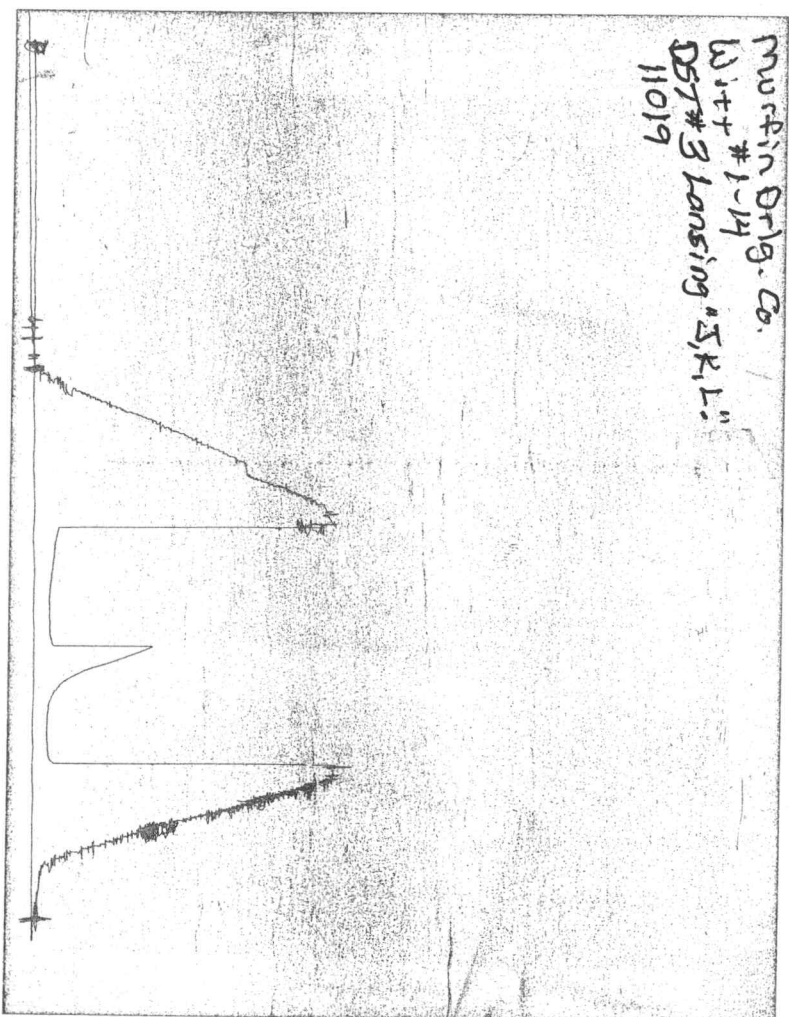
	AK-1	Alpine	Recorder No.	Test	1000
(A) Initial Hydrostatic Mud	1701	PSI	6625	✓	
(B) First Initial Flow Pressure	12	PSI	3527	Jars	
(C) First Final Flow Pressure	21	PSI	11019	Safety Jt.	
(D) Initial Shut-In Pressure	704	PSI	3575	Circ Sub	
(E) Second Initial Flow Pressure	26	PSI		Sampler	
(F) Second Final Flow Pressure	64	PSI		Straddle	
(G) Final Shut-In Pressure	115	PSI	Initial Opening	Ext. Packer	
(Q) Final Hydrostatic Mud	1668	PSI	Initial Shut-In	Shale Packer	

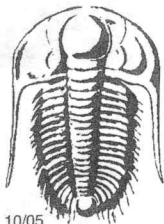
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]
 Our Representative Herald Adams

Final Flow 30
 Final Shut-In 60
 T-On Location 1730
 T-Started 1807
 T-Open 2022
 T-Pulled 2322
 T-Out 0209
 Thank You.
 Mileage ✓ 80 100
 Sub Total: 1100
 Std. By 1/2 hr 25
 Acc. Chg: _____
 Other: _____
 Total: \$1125.00

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 24041

Test Ticket

Well Name & No. Witt#1-14 Test No. 4 Date 3-31-06
 Company Murfin Drilg. Co. LLC Zone Tested Arbuckle
 Address 250 N. Water, Ste #300 Wichita, Ks. 67202 Elevation 1895 KB 1890 GL
 Co. Rep / Geo. Joe Baker Rig Berentz#5
 Location: Sec. 14 Twp. 22s Rge. 13w Co. Stafford State Ks.
 Comment: _____ Release date / time: _____

Interval Tested 3684-3754 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 46,000
 Anchor Length 70 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 48,000
 Top Packer Depth 3679 Tool Weight 2100
 Bottom Packer Depth 3684 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3754 Wt. Pipe Run 0 Drill Collar Run 324
 Mud Wt. 9.0 LCM — Vis. 59 WL 9.2 Drill Pipe Size 4 1/2" Ft. Run 3351

Blow Description IF: Strong blow. B.O.B. in 3 mins.

ISI: Weak blow. Built to 1/4"

FF: Strong blow. B.O.B. in 5 mins.

FSI: No blow.

Recovery - Total Feet 950 GIP 100 Ft. in DC 324 Ft. in DP 626
 Rec. 600 Feet of SMCO %gas 95%oil %water 5% mud
 Rec. 350 Feet of HG+MCO 40 %gas 45%oil %water 15% mud
 Rec. _____ Feet of _____ %gas _____ %oil %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil %water _____ %mud
 BHT 113 °F Gravity 28 °API D @ 80 °F Corrected Gravity 26 °API
 RW N/C @ _____ °F Chlorides 9500 ppm Recovery _____ Chlorides 9500 ppm System

AK-1

Alpine

(A) Initial Hydrostatic Mud	<u>1838</u> PSI	Recorder No.	<u>6625</u>	Test <u>✓</u>	<u>1000</u>
(B) First Initial Flow Pressure	<u>55</u> PSI	(depth)	<u>3685</u>	Jars	_____
(C) First Final Flow Pressure	<u>205</u> PSI	Recorder No.	<u>11019</u>	Safety Jt.	_____
(D) Initial Shut-In Pressure	<u>1234</u> PSI	(depth)	<u>3751</u>	Circ Sub	_____
(E) Second Initial Flow Pressure	<u>220</u> PSI	Recorder No.	<u>—</u>	Sampler	_____
(F) Second Final Flow Pressure	<u>390</u> PSI	(depth)	<u>—</u>	Straddle	_____
(G) Final Shut-In Pressure	<u>1216</u> PSI	Initial Opening	<u>15</u>	Ext. Packer	_____
(Q) Final Hydrostatic Mud	<u>1780</u> PSI	Initial Shut-In	<u>60</u>	Shale Packer	_____

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Approved By [Signature]

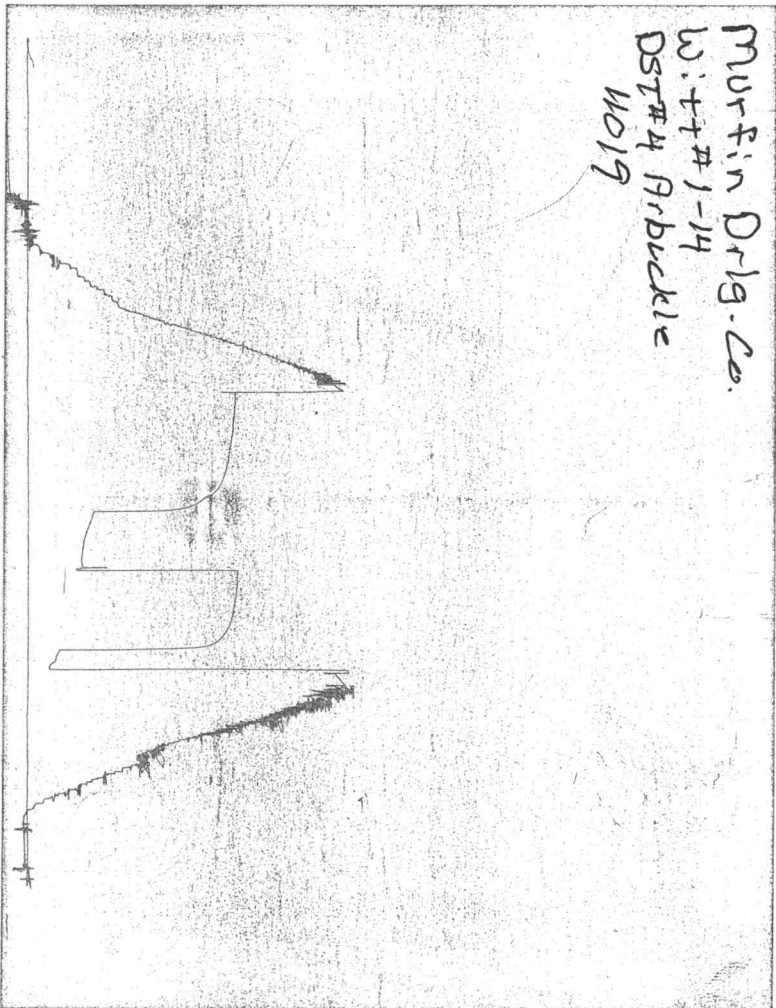
Our Representative Herald Adams

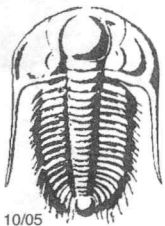
Final Flow 45
 Final Shut-In 90
 T-On Location 0115
 T-Started 0224
 T-Open 0459
 T-Pulled 0829
 T-Out 1116
 Thank You.
 Mileage ✓ 80 100
 Sub Total: 1100
 Std. By 2hr 100
 Acc. Chg: _____
 Other: _____
 Total: \$1200

14 and 15 copies

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 24042

Test Ticket

Well Name & No. Witt #1-14 Test No. 5 Date 3-31-06
 Company Murfin Drilling Co. LLC Zone Tested Arbuckle
 Address 250 N. Water, Ste. #300 Wichita, KS 67202 Elevation 1895 KB 1890 GL
 Co. Rep / Geo. Joe Baker Rig Berentz #5
 Location: Sec. 14 Twp. 22S Rge. 13W Co. Stafford State KS
 Comment: _____ Release date / time: 4-01-06 3:30AM

Interval Tested 3756-3769 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 52,000
 Anchor Length 13 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 60,000
 Top Packer Depth 3751 Tool Weight 2100
 Bottom Packer Depth 3756 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 3769 Wt. Pipe Run 0 Drill Collar Run 324
 Mud Wt. 8.9 LCM — Vis. 60 WL 9.2 Drill Pipe Size 4 1/2" Ft. Run 3444

Blow Description IF: Strong blow. B.O.B. in 5 mins.
ISI: No blow
FF: Strong blow. B.O.B. in 6 mins.
FSI: No blow.

Recovery - Total Feet 1070 GIP None Ft. in DC 324 Ft. in DP 746
 Rec. 1070 Feet of Muddy S&W %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 117 °F Gravity N/C °API D @ _____ °F Corrected Gravity _____ °API
 RW .59 @ 51 °F Chlorides 15,000 ppm Recovery _____ Chlorides 10,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1912</u>	PSI	<u>6625</u>	✓ <u>1000</u>
(B) First Initial Flow Pressure	<u>63</u>	PSI	<u>3757</u>	Jars _____
(C) First Final Flow Pressure	<u>210</u>	PSI	<u>11019</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>1261</u>	PSI	<u>3766</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>218</u>	PSI	_____	Sampler _____
(F) Second Final Flow Pressure	<u>446</u>	PSI	_____	Straddle _____
(G) Final Shut-In Pressure	<u>1256</u>	PSI	<u>Initial Opening</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1812</u>	PSI	<u>Initial Shut-In</u>	Shale Packer _____

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Approved By [Signature]
 Our Representative Gerald Adams

Final Flow 45
 Final Shut-In 90
 T-On Location 1830
 T-Started 1841
 T-Open 2023
 T-Pulled 2352
 T-Out 0321
 Mileage ✓ 80 100
 Sub Total: 1100
 Std. By 1hr 50
 Acc. Chg: _____
 Other: _____
 Total: 1150

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CHART PAGE

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

Murphy Drilling Co.
Well # 1-14
DST # 5 Arbuckle
11019

