



DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

11 2213W Stafford KS

Hay-Witt Unit #1-11

Start Date: 2006.09.24 @ 09:45:22

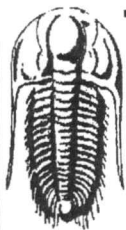
End Date: 2006.09.24 @ 16:48:46

Job Ticket #: 26234 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 Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26234

DST#: 1

Test Start: 2006.09.24 @ 09:45:22

GENERAL INFORMATION:

Formation: **LKC A-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:01:47

Time Test Ended: 16:48:46

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3401.00 ft (KB) To 3470.00 ft (KB) (TVD)**

Total Depth: 3470.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1912.00 ft (KB)

1907.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 40.07 psig @ 3409.01 ft (KB)

Start Date: 2006.09.24

End Date:

2006.09.24

Start Time: 09:45:22

End Time:

16:48:46

Capacity: 7000.00 psig

Last Calib.: 2006.09.24

Time On Btm: 2006.09.24 @ 12:00:47

Time Off Btm: 2006.09.24 @ 15:19:16

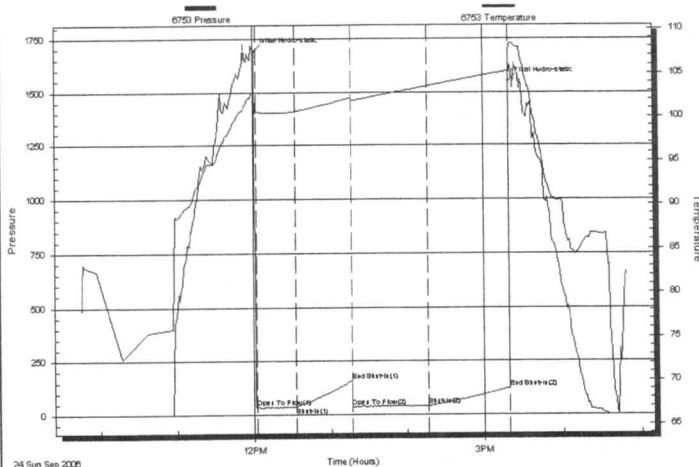
TEST COMMENT: IFP Wk bl thru-out 1/4 " to 1 1/2 " bl

FFP Wk bl thru-out 1 1/2 " to 2 " bl

Times 30 45 60 60

No bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.94	102.81	Initial Hydro-static
1	35.52	100.54	Open To Flow (1)
32	36.29	100.59	Shut-In (1)
76	159.13	102.14	End Shut-In (1)
76	35.63	101.80	Open To Flow (2)
136	40.07	103.48	Shut-In (2)
198	123.26	105.17	End Shut-In (2)
199	1549.69	107.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	SOCM 1%O 99%M	0.21
0.00	105' 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 Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26234

DST#: 1

Test Start: 2006.09.24 @ 09:45:22

Tool Information

Drill Pipe:	Length: 3394.00 ft	Diameter: 3.80 inches	Volume: 47.61 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 47.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 26000.00 lb
Depth to Top Packer:	3401.00 ft			Final 26000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.02 ft			
Tool Length:	92.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3379.00	
Shut In Tool	5.00			3384.00	
Hydraulic tool	5.00			3389.00	
Safety Joint	2.00			3391.00	
Packer	5.00			3396.00	23.00 Bottom Of Top Packer
Packer	5.00			3401.00	
Stubb	1.00			3402.00	
Perforations	7.00			3409.00	
Recorder	0.01	6753	Inside	3409.01	
Blank Spacing	33.00			3442.01	
Recorder	0.01	13534	Outside	3442.02	
Perforations	25.00			3467.02	
Bullnose	3.00			3470.02	69.02 Bottom Packers & Anchor
Total Tool Length:		92.02			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26234

DST#: 1

Test Start: 2006.09.24 @ 09:45:22

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.27 in³

Resistivity: ohm.m

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	SOCM 1%O 99%M	0.210
0.00	105' GIP	0.000

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

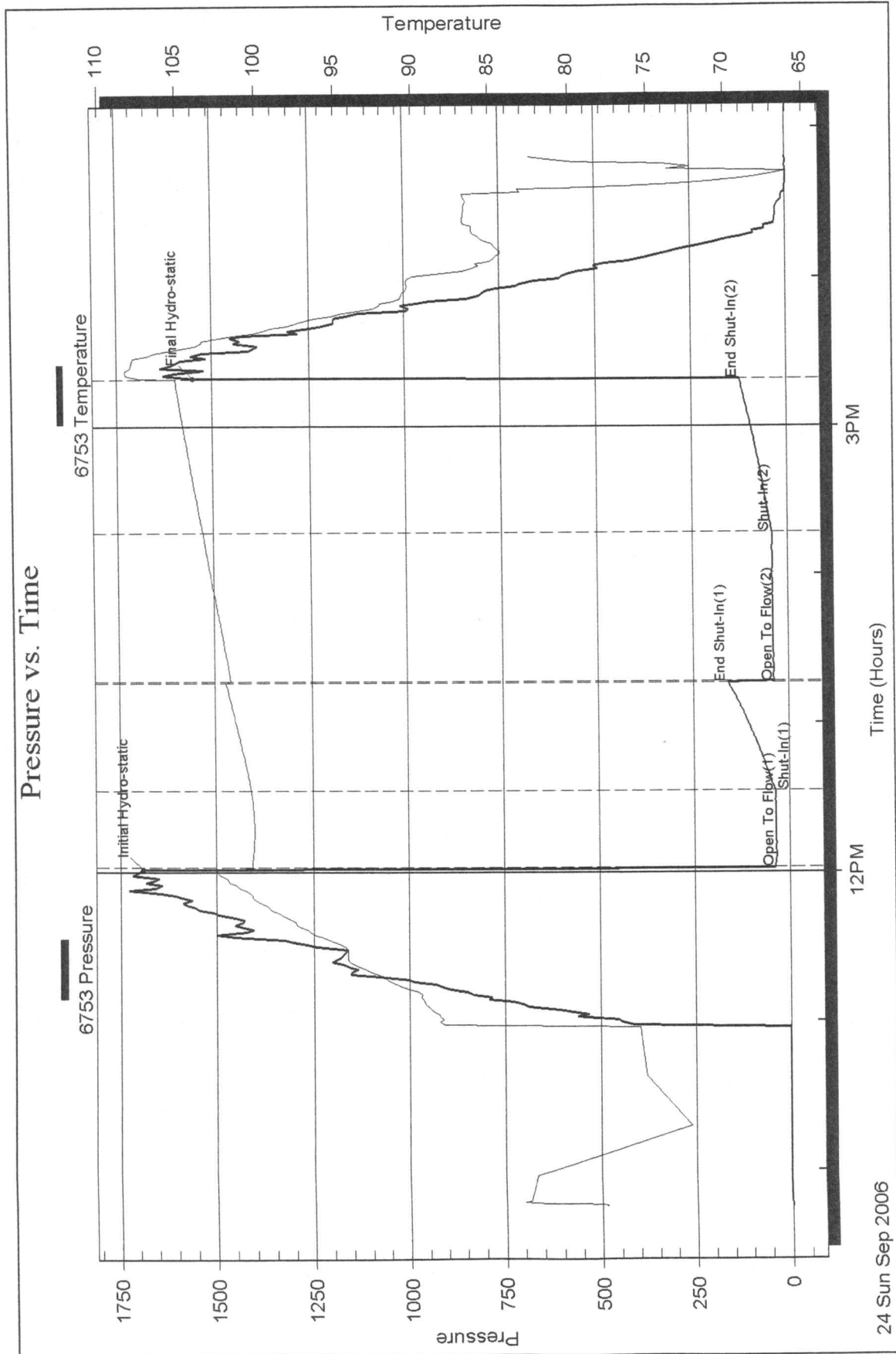
DST Test Number: 1

11 22/3W Stafford KS

Murfin Drilling Co Inc

Inside

Serial #: 6753





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

11 2213W Stafford KS

Hay-Witt Unit #1-11

Start Date: 2006.09.25 @ 09:54:25

End Date: 2006.09.25 @ 17:17:19

Job Ticket #: 26235 DST #: 2

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 Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26235

DST#: 2

Test Start: 2006.09.25 @ 09:54:25

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:02:20

Time Test Ended: 17:17:19

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: 3518.00 ft (KB) To 3576.00 ft (KB) (TVD)

Total Depth: 3576.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1912.00 ft (KB)

1907.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 157.43 psig @ 3520.01 ft (KB)

Start Date: 2006.09.25

End Date:

2006.09.25

Capacity: 7000.00 psig

Last Calib.: 2006.09.25

Start Time: 09:54:25

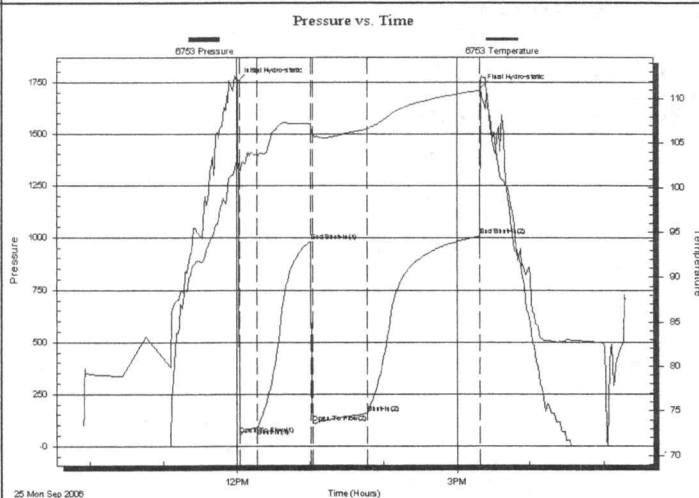
End Time:

17:17:19

Time On Btm: 2006.09.25 @ 12:01:20

Time Off Btm: 2006.09.25 @ 15:19:49

TEST COMMENT: IFP Strg bl in 1 min
FFP Strg bl thru-out
Times 15 45 45 90
ISIP 1 " bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1754.38	102.98	Initial Hydro-static
1	57.11	101.90	Open To Flow (1)
16	86.19	103.52	Shut-In(1)
60	981.25	107.21	End Shut-In(1)
61	111.12	106.04	Open To Flow (2)
106	157.43	106.60	Shut-In(2)
198	1006.45	110.92	End Shut-In(2)
199	1723.20	112.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
102.00	GMO 30%G 55%O 15%M	1.16
124.00	GMO 20%G 70%O 10%M	1.74
124.00	GMO 35%G 60%O 5%M	1.74
0.00	GTS	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 Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26235

DST#: 2

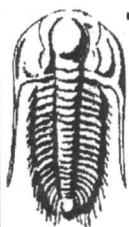
Test Start: 2006.09.25 @ 09:54:25

Tool Information

Drill Pipe:	Length: 3486.00 ft	Diameter: 3.80 inches	Volume: 48.90 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	45000.00 lb
		Total Volume:	49.05 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	26000.00 lb
Depth to Top Packer:	3518.00 ft			Final	27000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	58.02 ft				
Tool Length:	81.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3496.00	
Shut In Tool	5.00			3501.00	
Hydraulic tool	5.00			3506.00	
Safety Joint	2.00			3508.00	
Packer	5.00			3513.00	23.00 Bottom Of Top Packer
Packer	5.00			3518.00	
Stubb	1.00			3519.00	
Perforations	1.00			3520.00	
Recorder	0.01	6753	Inside	3520.01	
Blank Spacing	33.00			3553.01	
Recorder	0.01	13534	Outside	3553.02	
Perforations	20.00			3573.02	
Bullnose	3.00			3576.02	58.02 Bottom Packers & Anchor

Total Tool Length: 81.02



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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26235

DST#: 2

Test Start: 2006.09.25 @ 09:54:25

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 69.00 sec/qt

Water Loss: 9.87 in³

Resistivity: ohm.m

Salinity: 8100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
102.00	GMO 30%G 55%O 15%M	1.158
124.00	GMO 20%G 70%O 10%M	1.739
124.00	GMO 35%G 60%O 5%M	1.739
0.00	GTS	0.000

Total Length: 350.00 ft

Total Volume: 4.636 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

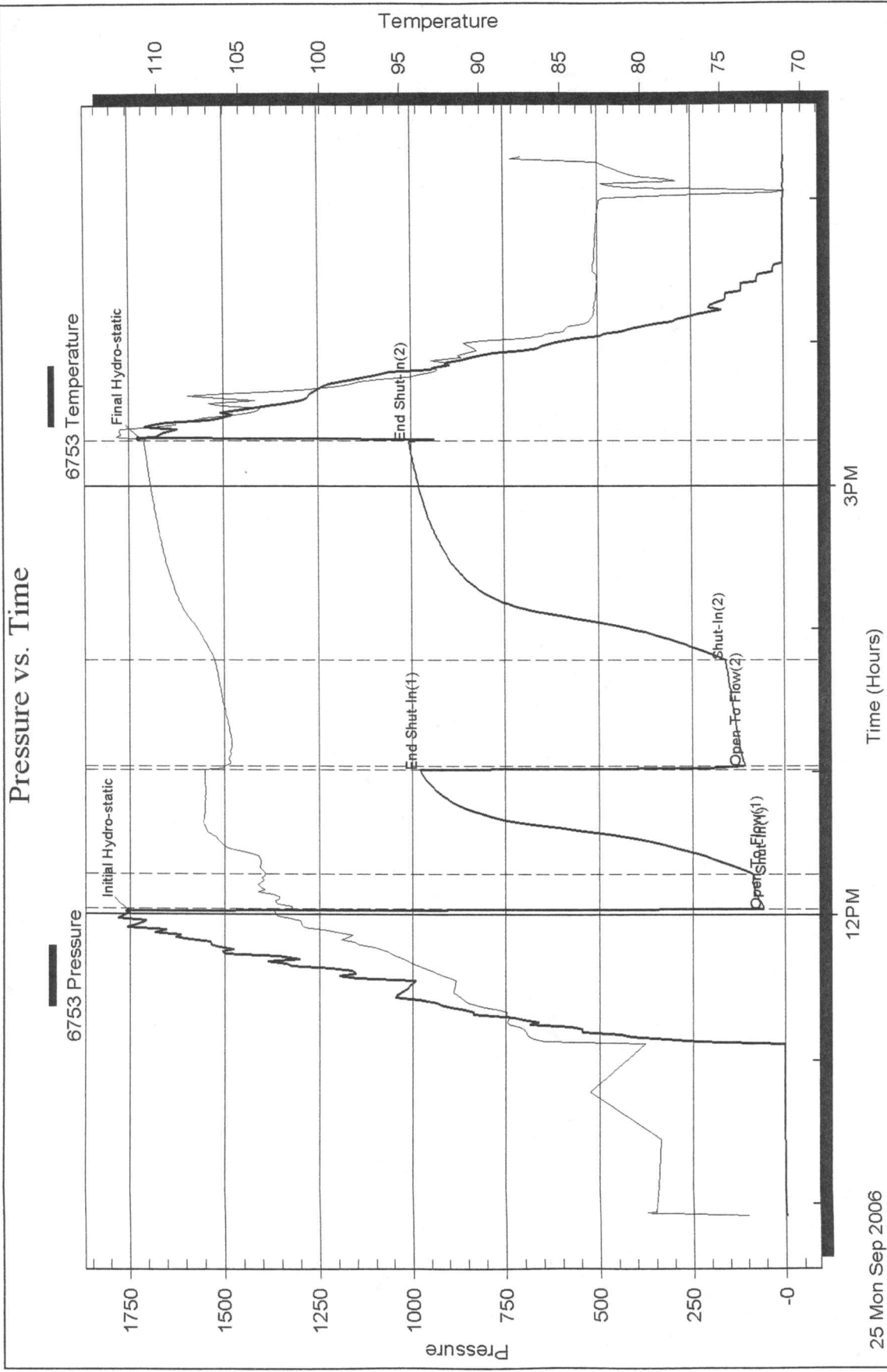
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

11 2213W Stafford KS

Hay-Witt Unit #1-11

Start Date: 2006.09.26 @ 02:16:49

End Date: 2006.09.26 @ 09:44:13

Job Ticket #: 26236 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
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DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26236

DST#: 3

Test Start: 2006.09.26 @ 02:16:49

GENERAL INFORMATION:

Formation: **LKC K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:30:44

Time Test Ended: 09:44:13

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3574.00 ft (KB) To 3654.00 ft (KB) (TVD)**

Total Depth: 3654.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1912.00 ft (KB)

1907.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 113.10 psig @ 3576.01 ft (KB)

Start Date: 2006.09.26

End Date:

2006.09.26

Capacity: 7000.00 psig

Last Calib.: 2006.09.26

Start Time: 02:16:49

End Time:

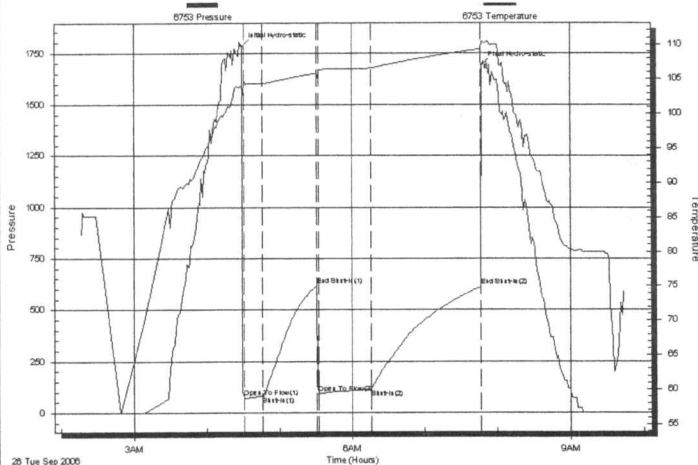
09:44:13

Time On Btm: 2006.09.26 @ 04:29:14

Time Off Btm: 2006.09.26 @ 07:47:43

TEST COMMENT: IFF Strg bl in 1 min
FFP Strg bl GTS in 30 min to wk to gauge
Times 15 45 45 90
ISIP Surface bl bk

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1783.31	103.97	Initial Hydro-static
2	75.84	104.22	Open To Flow (1)
17	80.21	104.37	Shut-In (1)
62	620.51	105.81	End Shut-In (1)
64	92.27	106.15	Open To Flow (2)
107	113.10	106.55	Shut-In (2)
198	612.33	109.30	End Shut-In (2)
199	1689.48	110.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
107.00	GMO 40%G 50%O 10%M	1.23
62.00	GMO 40%G 40%O 20%M	0.87
0.00	GTS	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 Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26236

DST#: 3

Test Start: 2006.09.26 @ 02:16:49

Tool Information

Drill Pipe:	Length: 3550.00 ft	Diameter: 3.80 inches	Volume: 49.80 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	45000.00 lb
		Total Volume:	49.95 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	26000.00 lb
Depth to Top Packer:	3574.00 ft			Final	26000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	80.02 ft				
Tool Length:	103.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3552.00	
Shut In Tool	5.00			3557.00	
Hydraulic tool	5.00			3562.00	
Safety Joint	2.00			3564.00	
Packer	5.00			3569.00	23.00 Bottom Of Top Packer
Packer	5.00			3574.00	
Stubb	1.00			3575.00	
Perforations	1.00			3576.00	
Recorder	0.01	6753	Inside	3576.01	
Blank Spacing	62.00			3638.01	
Recorder	0.01	13534	Outside	3638.02	
Perforations	13.00			3651.02	
Bullnose	3.00			3654.02	80.02 Bottom Packers & Anchor
Total Tool Length:		103.02			



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26236

DST#: 3

Test Start: 2006.09.26 @ 02:16:49

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 9.89 in³

Resistivity: ohm.m

Salinity: 8100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
107.00	GMO 40%G 50%O 10%M	1.228
62.00	GMO 40%G 40%O 20%M	0.870
0.00	GTS	0.000

Total Length: 169.00 ft

Total Volume: 2.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

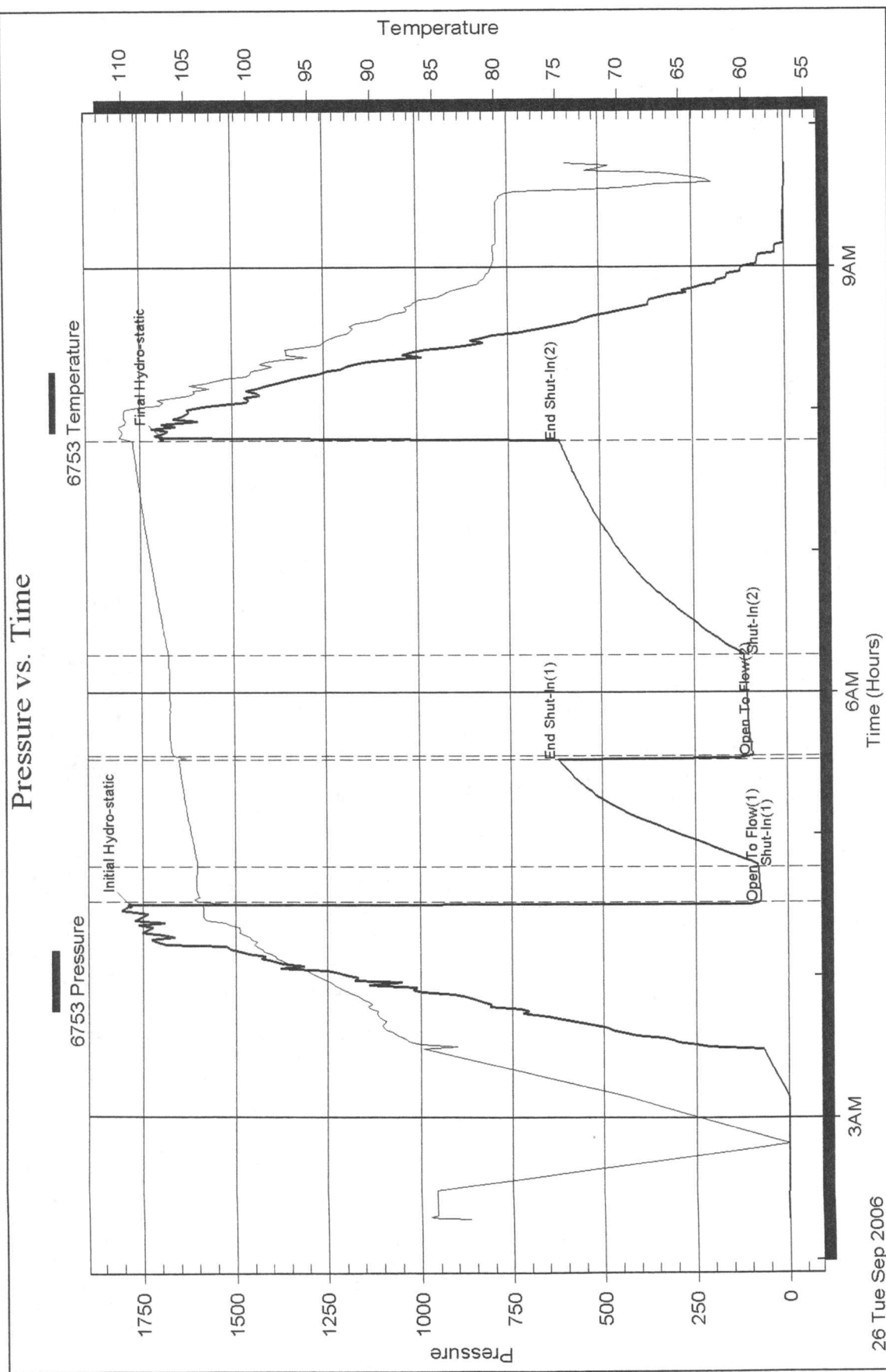
DST Test Number: 3

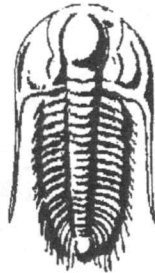
11 2213W Stafford KS

Murfin Drilling Co Inc

Inside

Serial #: 6753





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

11 2213W Stafford KS

Hay-Witt Unit #1-11

Start Date: 2006.09.26 @ 19:01:19

End Date: 2006.09.27 @ 03:55:44

Job Ticket #: 26237 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
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DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26237

DST#: 4

Test Start: 2006.09.26 @ 19:01:19

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:09:44

Time Test Ended: 03:55:44

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3704.00 ft (KB) To 3769.00 ft (KB) (TVD)**

Total Depth: 3769.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1912.00 ft (KB)

1907.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 500.82 psig @ 3708.01 ft (KB)

Start Date: 2006.09.26

End Date:

2006.09.27

Start Time: 19:01:19

End Time:

03:55:44

Capacity: 7000.00 psig

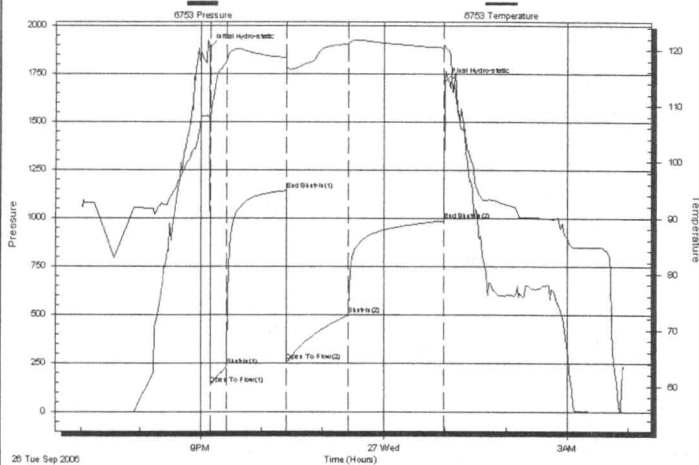
Last Calib.: 2006.09.27

Time On Btm: 2006.09.26 @ 21:08:44

Time Off Btm: 2006.09.27 @ 00:59:13

TEST COMMENT: IFP Strg bl in 1 min
FFP Strg bl GTS in 30 min to wk to gauge
Times 15 60 60 90
ISIP Strg bl bk in 9 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1889.04	107.95	Initial Hydro-static
1	139.20	107.92	Open To Flow (1)
17	234.45	117.89	Shut-In (1)
76	1144.54	118.64	End Shut-In (1)
77	262.55	117.16	Open To Flow (2)
137	500.82	121.07	Shut-In (2)
230	989.24	120.43	End Shut-In (2)
231	1709.65	120.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MGO 30%G 55%O 15%M	1.47
1236.00	CO	17.34

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 Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26237

DST#: 4

Test Start: 2006.09.26 @ 19:01:19

Tool Information

Drill Pipe:	Length: 3671.00 ft	Diameter: 3.80 inches	Volume: 51.49 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 45000.00 lb
		Total Volume: 51.64 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 26000.00 lb
Depth to Top Packer:	3704.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.02 ft			
Tool Length:	88.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3682.00	
Shut In Tool	5.00			3687.00	
Hydraulic tool	5.00			3692.00	
Safety Joint	2.00			3694.00	
Packer	5.00			3699.00	23.00 Bottom Of Top Packer
Packer	5.00			3704.00	
Stubb	1.00			3705.00	
Perforations	3.00			3708.00	
Recorder	0.01	6753	Inside	3708.01	
Blank Spacing	33.00			3741.01	
Recorder	0.01	13534	Outside	3741.02	
Perforations	25.00			3766.02	
Bullnose	3.00			3769.02	65.02 Bottom Packers & Anchor
Total Tool Length:		88.02			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26237

DST#: 4

Test Start: 2006.09.26 @ 19:01:19

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.25 in³

Resistivity: ohm.m

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

32 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MGO 30%G 55%O 15%M	1.466
1236.00	CO	17.338

Total Length: 1360.00 ft

Total Volume: 18.804 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

11 2213W Stafford KS

Hay-Witt Unit #1-11

Start Date: 2006.09.27 @ 10:05:44

End Date: 2006.09.27 @ 18:48:09

Job Ticket #: 26238 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 Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26238

DST#: 5

Test Start: 2006.09.27 @ 10:05:44

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:11:39

Time Test Ended: 18:48:09

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3769.00 ft (KB) To 3784.00 ft (KB) (TVD)**

Total Depth: 3784.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1912.00 ft (KB)

1907.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 815.97 psig @ 3770.01 ft (KB)

Start Date: 2006.09.27

End Date:

2006.09.27

Start Time: 10:05:44

End Time:

18:48:09

Capacity: 7000.00 psig

Last Calib.: 2006.09.27

Time On Btm: 2006.09.27 @ 12:09:39

Time Off Btm: 2006.09.27 @ 15:57:08

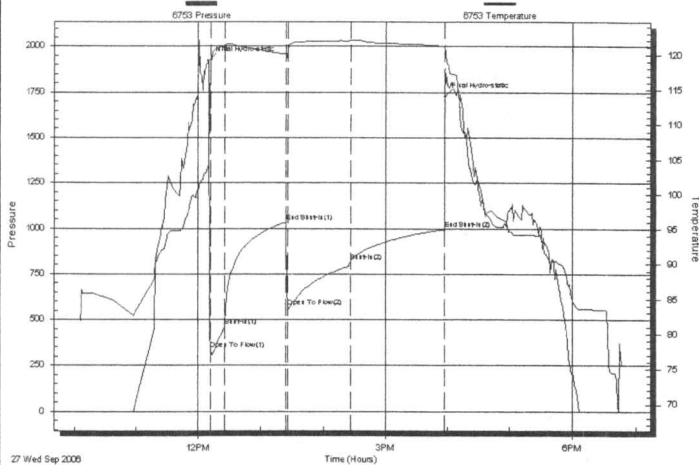
TEST COMMENT: IFP Strg bl , GTS in 9min

FFP GTS to wk to gauge

Times 15 60 60 90

ISIP Strg bl bk in 15 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1922.01	104.10	Initial Hydro-static
2	336.46	118.59	Open To Flow (1)
17	461.43	121.19	Shut-In (1)
75	1033.78	120.03	End Shut-In (1)
76	567.45	120.60	Open To Flow (2)
136	815.97	122.03	Shut-In (2)
227	995.83	121.20	End Shut-In (2)
228	1726.75	121.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	O&GCM 25%G 10%O 65%M	0.60
62.00	MGO 30%G 50%O 20%M	0.87
2106.00	CO	29.54

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 Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26238

DST#: 5

Test Start: 2006.09.27 @ 10:05:44

Tool Information

Drill Pipe:	Length: 3734.00 ft	Diameter: 3.80 inches	Volume: 52.38 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	40000.00 lb
		Total Volume:	52.53 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	25000.00 lb
Depth to Top Packer:	3769.00 ft			Final	32000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.02 ft				
Tool Length:	38.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3747.00	
Shut In Tool	5.00			3752.00	
Hydraulic tool	5.00			3757.00	
Safety Joint	2.00			3759.00	
Packer	5.00			3764.00	23.00 Bottom Of Top Packer
Packer	5.00			3769.00	
Stubb	1.00			3770.00	
Recorder	0.01	6753	Inside	3770.01	
Perforations	11.00			3781.01	
Recorder	0.01	13534	Outside	3781.02	
Bullnose	3.00			3784.02	15.02 Bottom Packers & Anchor

Total Tool Length: 38.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26238

DST#: 5

Test Start: 2006.09.27 @ 10:05:44

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 65.00 sec/qt

Water Loss: 9.13 in³

Resistivity: ohm.m

Salinity: 8500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

32 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	O&GCM 25%G 10%O 65%M	0.596
62.00	MGO 30%G 50%O 20%M	0.870
2106.00	CO	29.542

Total Length: 2230.00 ft

Total Volume: 31.008 bbl

Num Fluid Samples: 0

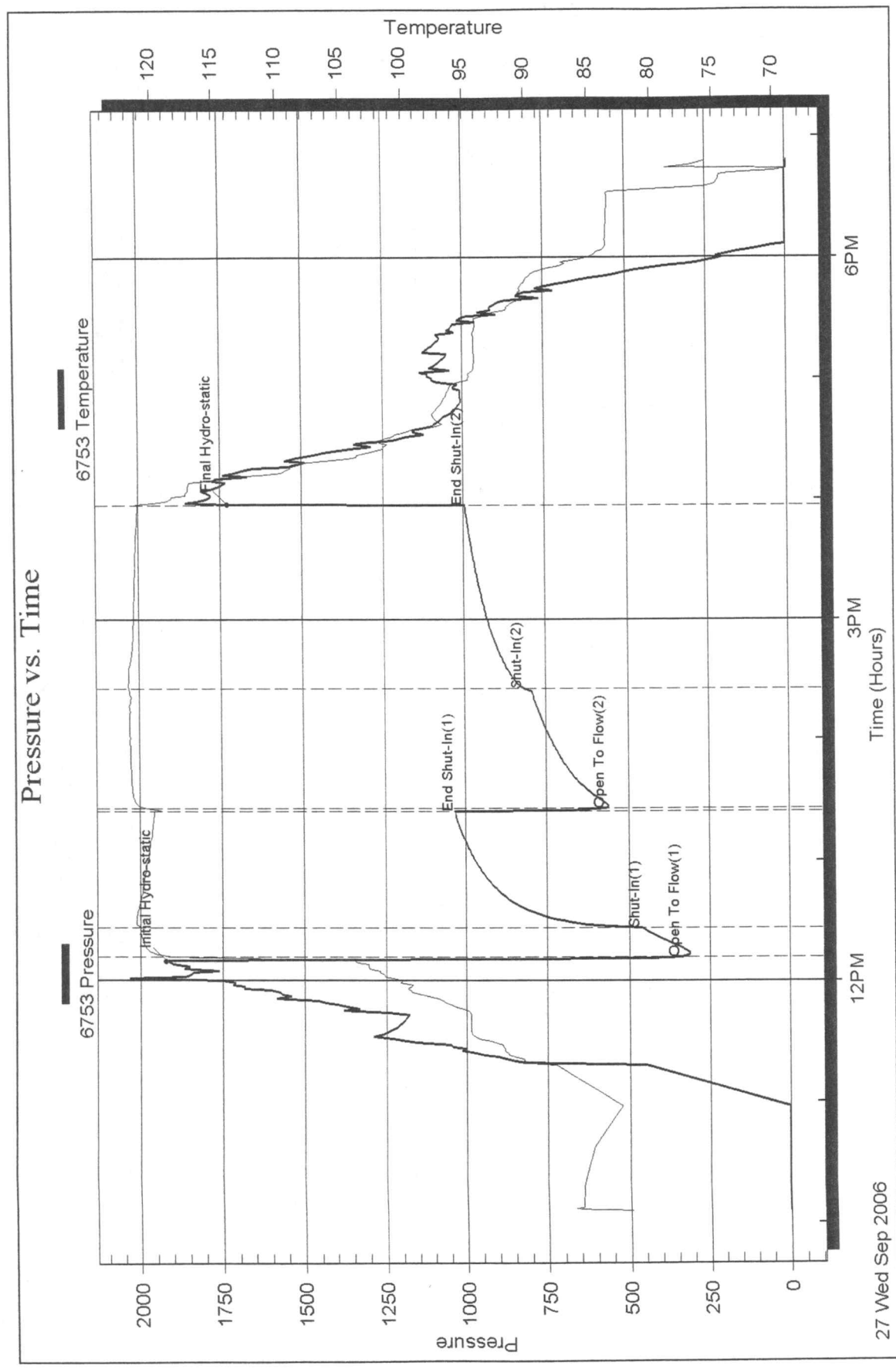
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

11 2213W Stafford KS

Hay-Witt Unit #1-11

Start Date: 2006.09.28 @ 00:55:14

End Date: 2006.09.28 @ 09:36:09

Job Ticket #: 26239 DST #: 6

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 Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26239

DST#: 6

Test Start: 2006.09.28 @ 00:55:14

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:02:09

Time Test Ended: 09:36:09

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3784.00 ft (KB) To 3799.00 ft (KB) (TVD)**

Total Depth: 3799.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1912.00 ft (KB)

1907.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 597.12 psig @ 3785.01 ft (KB)

Start Date: 2006.09.28

End Date: 2006.09.28

Capacity: 7000.00 psig

Last Calib.: 2006.09.28

Start Time: 00:55:14

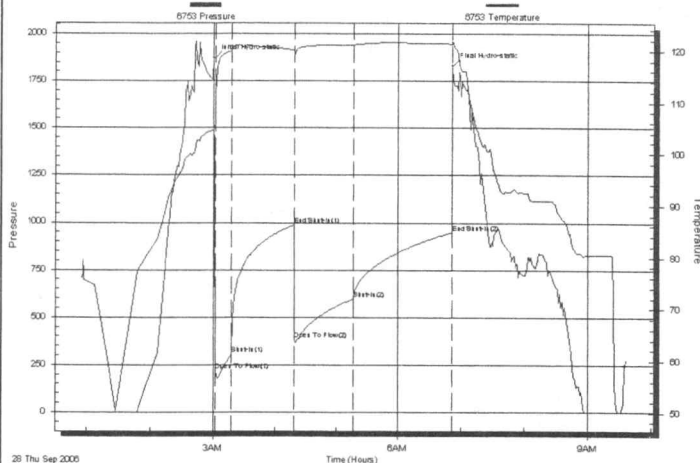
End Time: 09:36:09

Time On Btm: 2006.09.28 @ 03:01:09

Time Off Btm: 2006.09.28 @ 06:52:08

TEST COMMENT: IFP Strg bl thru-out
FFP Strg bl thru-out
Times 15 60 60 90
ISIP Strg bl bk in 8 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1868.72	104.86	Initial Hydro-static
1	221.37	111.55	Open To Flow (1)
17	305.78	120.02	Shut-In (1)
77	987.67	120.09	End Shut-In (1)
78	382.48	118.96	Open To Flow (2)
136	597.12	121.08	Shut-In (2)
231	945.93	121.33	End Shut-In (2)
231	1828.16	121.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMO 30%G 60%O 10%M	0.87
1676.00	CO	23.51
0.00	1300'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 Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26239

DST#: 6

Test Start: 2006.09.28 @ 00:55:14

Tool Information

Drill Pipe:	Length: 3791.00 ft	Diameter: 3.80 inches	Volume: 53.18 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	45000.00 lb
		Total Volume:	53.18 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	27000.00 lb
Depth to Top Packer:	3784.00 ft			Final	34000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.02 ft				
Tool Length:	38.02 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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Change Over Sub	1.00			3762.00	
Shut In Tool	5.00			3767.00	
Hydraulic tool	5.00			3772.00	
Safety Joint	2.00			3774.00	
Packer	5.00			3779.00	23.00 Bottom Of Top Packer
Packer	5.00			3784.00	
Stubb	1.00			3785.00	
Recorder	0.01	6753	Inside	3785.01	
Perforations	11.00			3796.01	
Recorder	0.01	13534	Outside	3796.02	
Bullnose	3.00			3799.02	15.02 Bottom Packers & Anchor

Total Tool Length: 38.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26239

DST#: 6

Test Start: 2006.09.28 @ 00:55:14

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.25 in³

Resistivity: ohm.m

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

31 deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GMO 30%G 60%O 10%M	0.870
1676.00	CO	23.510
0.00	1300'GIP	0.000

Total Length: 1738.00 ft

Total Volume: 24.380 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

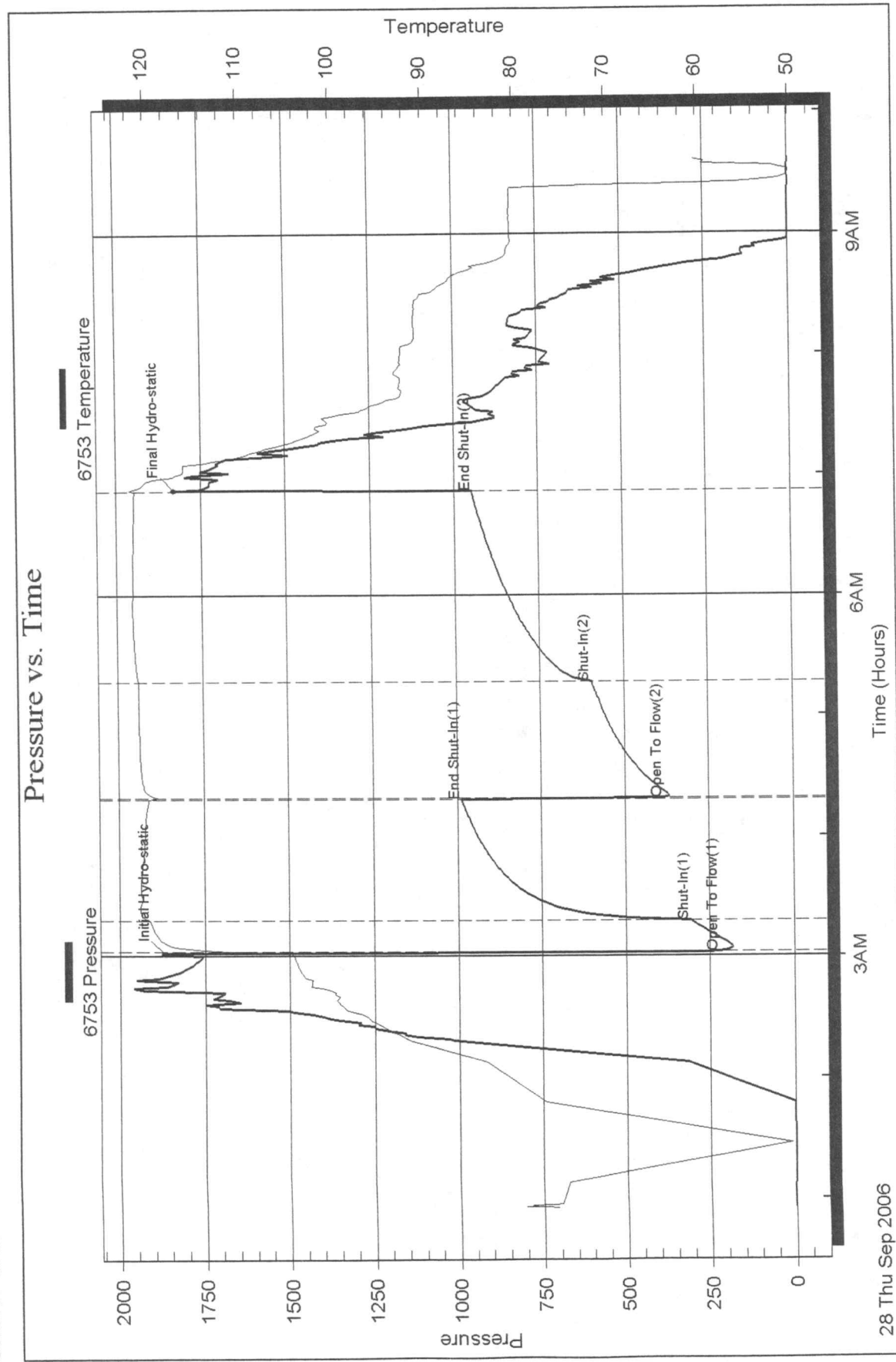
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

11 2213W Stafford KS

Hay-Witt Unit #1-11

Start Date: 2006.09.28 @ 15:57:52

End Date: 2006.09.29 @ 00:28:16

Job Ticket #: 26240 DST #: 7

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 Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26240

DST#: 7

Test Start: 2006.09.28 @ 15:57:52

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:55:47

Time Test Ended: 00:28:16

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 28

Interval: **3799.00 ft (KB) To 3814.00 ft (KB) (TVD)**

Total Depth: 3814.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1912.00 ft (KB)

1907.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 478.78 psig @ 3800.01 ft (KB)

Start Date: 2006.09.28

End Date:

2006.09.29

Capacity: 7000.00 psig

Last Calib.: 2006.09.29

Start Time: 15:57:52

End Time:

00:28:16

Time On Btm: 2006.09.28 @ 17:54:47

Time Off Btm: 2006.09.28 @ 21:40:16

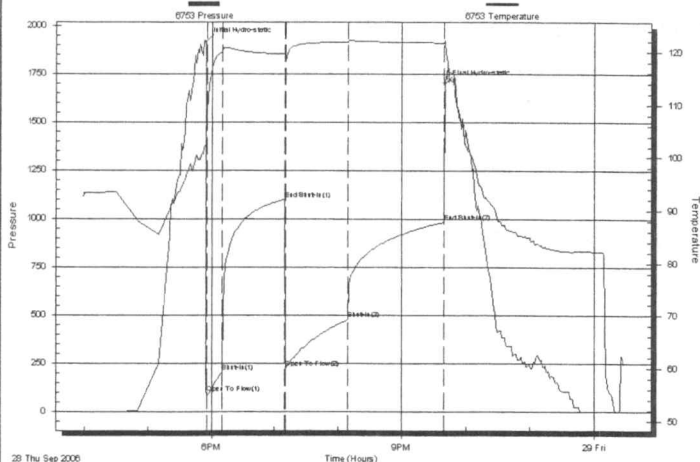
TEST COMMENT: IFP Strg bl in 30 sec

FFP Strg bl in 3 min

Times 15 60 60 90

ISIP Strg bl bk in 37 min

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1916.23	102.43	Initial Hydro-static
1	93.68	108.89	Open To Flow (1)
16	205.58	120.04	Shut-In (1)
75	1099.35	119.61	End Shut-In (1)
76	224.67	118.28	Open To Flow (2)
135	478.78	121.96	Shut-In (2)
225	985.10	121.75	End Shut-In (2)
226	1699.71	122.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	Water RW .24 @ 70F	4.08
62.00	O&GCMW 4%O 15%G 20%M 61%W	0.87
775.00	CO	10.87

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 Ste 300
Wichita KS 67202
ATTN: David Doyel

Hay-Witt Unit #1-11
11 2213W Stafford KS
Job Ticket: 26240 DST#: 7
Test Start: 2006.09.28 @ 15:57:52

Tool Information

Drill Pipe:	Length: 3766.00 ft	Diameter: 3.80 inches	Volume: 52.83 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	45000.00 lb
		Total Volume:	52.98 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	27000.00 lb
Depth to Top Packer:	3799.00 ft			Final	30000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.02 ft				
Tool Length:	38.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3777.00	
Shut In Tool	5.00			3782.00	
Hydraulic tool	5.00			3787.00	
Safety Joint	2.00			3789.00	
Packer	5.00			3794.00	23.00 Bottom Of Top Packer
Packer	5.00			3799.00	
Stubb	1.00			3800.00	
Recorder	0.01	6753	Inside	3800.01	
Perforations	11.00			3811.01	
Recorder	0.01	13534	Outside	3811.02	
Bullnose	3.00			3814.02	15.02 Bottom Packers & Anchor

Total Tool Length: 38.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyel

Hay-Witt Unit #1-11

11 2213W Stafford KS

Job Ticket: 26240

DST#: 7

Test Start: 2006.09.28 @ 15:57:52

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 10.36 in³

Resistivity: ohm.m

Salinity: 9800.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

31 deg API

Water Salinity:

28000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	Water RW .24 @ 70F	4.075
62.00	O&GCMV 4%O 15%G 20%M 61%W	0.870
775.00	CO	10.871

Total Length: 1147.00 ft

Total Volume: 15.816 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

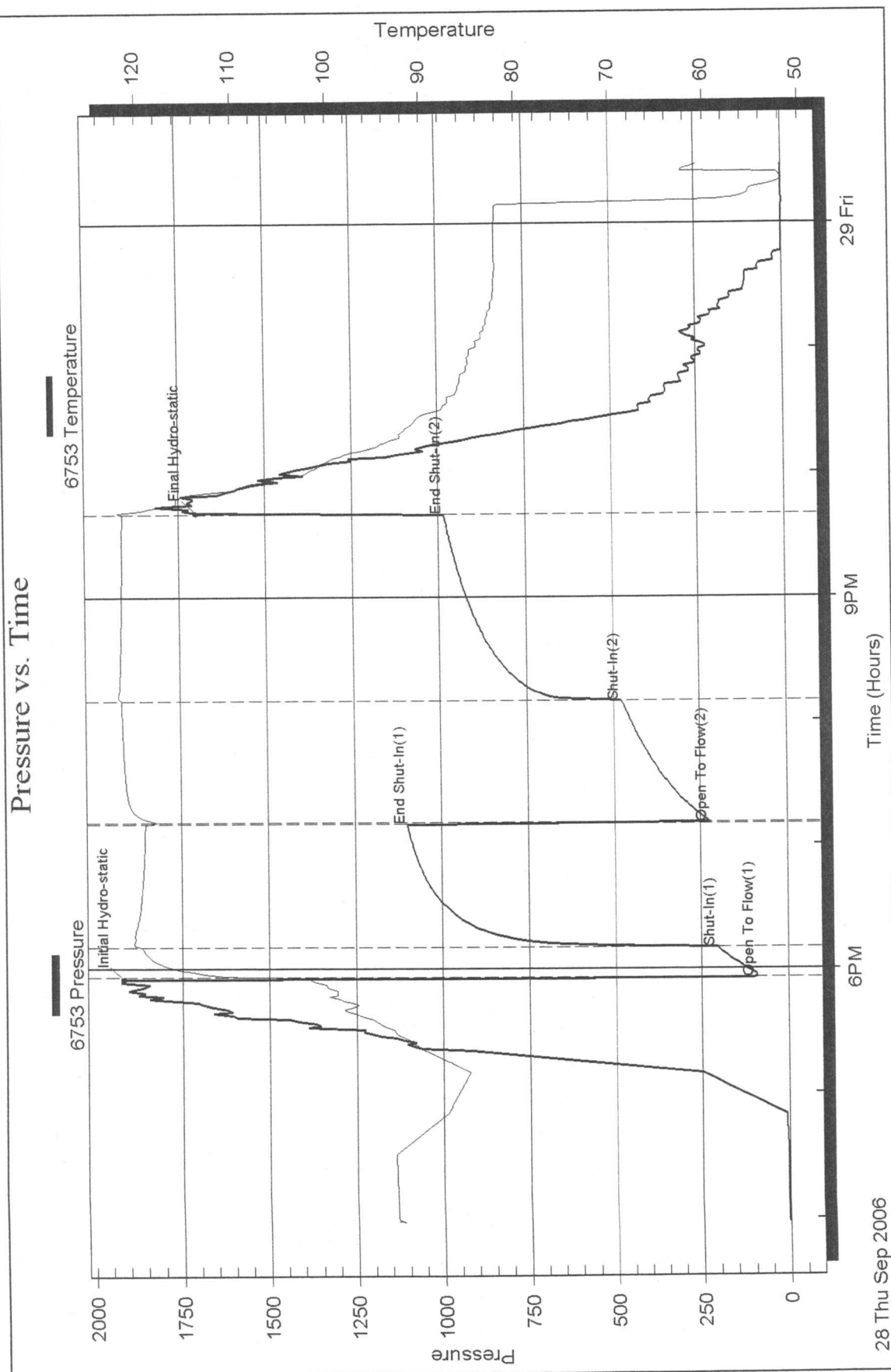
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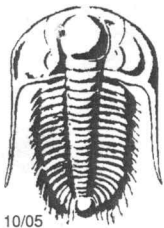
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9311

26234

Test Ticket

Well Name & No. HAY-WITT UNIT #1-11 Test No. 1 Date 9-24-06
 Company MURFIN DRILLING Co INC Zone Tested LKC A-F
 Address 250 N. WATER, suite 300 WICHITA, Ks 67202 Elevation 1912 KB 1907 GL
 Co. Rep / Geo. PAUL Gunzelman Rig MURFIN 8
 Location: Sec. 11 Twp. 22S Rge. 13W Co. STAFFORD State Ko
 Comment: _____ Release date / time: _____

Interval Tested 3401 - 3470 Initial Str Wt./Lbs. 26000 Unseated Str Wt./Lbs. 26000
 Anchor Length 69 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 45000
 Top Packer Depth 3396 Tool Weight 2200
 Bottom Packer Depth 3401 Hole Size 7 7/8" — Rubber Size 6 3/4" —
 Total Depth 3470 Wt. Pipe Run — Drill Collar Run —
 Mud Wt. 9.1 LCM — Vis. 52 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 3394
 Blow Description IFP- WEAK Blow thru-out 1 1/2" To 1 1/2" Blow
FFP- WEAK Blow thru-out 1 1/2" To 2" Blow
NO Blow on shut-in

Recovery - Total Feet 15 GIP 105 Ft. in DC — Ft. in DP 15
 Rec. 15 Feet of 50CM %gas 1 %oil — %water 99 %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 105 °F Gravity — °API D @ — °F Corrected Gravity _____ °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 4500 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1653	PSI	Recorder No.	6753	Test	✓	1100
(B) First Initial Flow Pressure			35	PSI	(depth)	3409	Jars		
(C) First Final Flow Pressure			36	PSI	Recorder No.	13534	Safety Jt.	✓	75
(D) Initial Shut-In Pressure			159	PSI	(depth)	3442	Circ Sub		
(E) Second Initial Flow Pressure			35	PSI	Recorder No.	—	Sampler		
(F) Second Final Flow Pressure			40	PSI	(depth)	—	Straddle		
(G) Final Shut-In Pressure			123	PSI	Initial Opening	30	Ext. Packer		
(Q) Final Hydrostatic Mud			1594	PSI	Initial Shut-In	45	Shale Packer		
					Final Flow	60	Ruined Packer		
					Final Shut-In	60	Mileage	✓	157 RT 196.25

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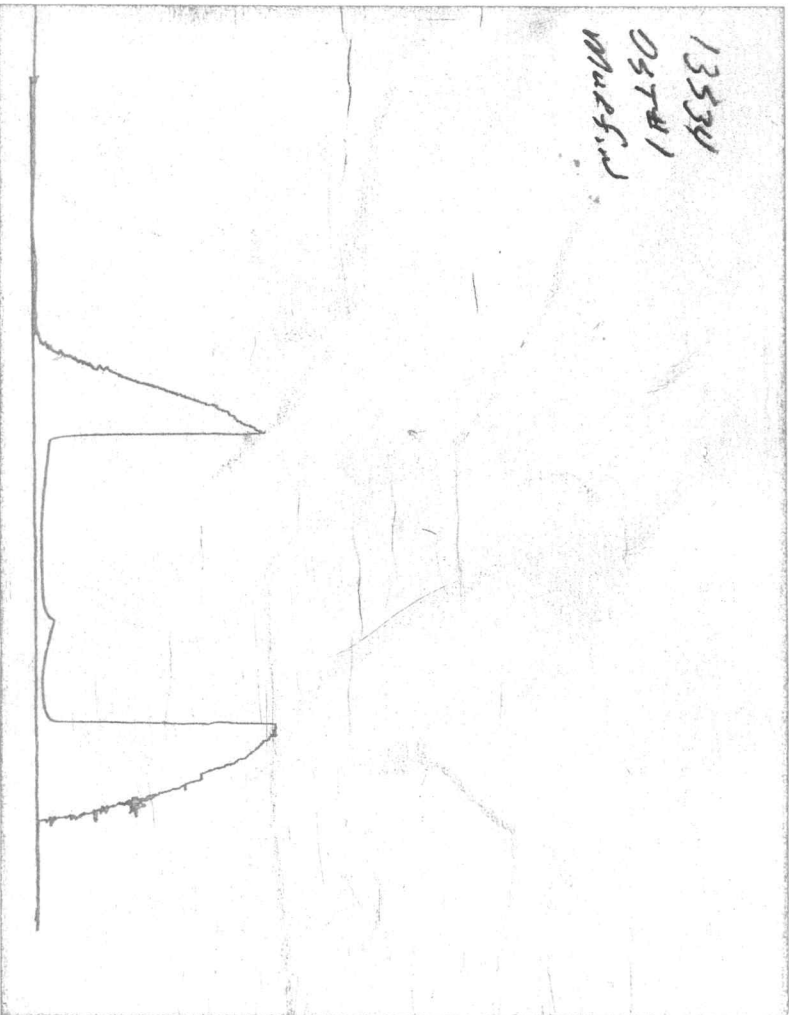
Approved By Paul Gunzelman
 Our Representative RAY Schwager Thank you

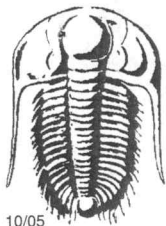
T-On Location 0915
 T-Started 0945
 T-Open 1200
 T-Pulled 1515
 T-Out 1648

Sub Total: _____
 Std. By B 1371.25
 Acc. Chg: _____
 Other: _____
 Total: _____

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26235

Test Ticket

Well Name & No. HAY-WITT Unit #1-11 Test No. 2 Date 9-25-06
 Company MURFIN DRILLING Co Inc Zone Tested LKC H-J
 Address _____ Elevation 1912 KB 1907 GL _____
 Co. Rep / Geo. Paul Gunzelman Rig Murfin 8
 Location: Sec. 11 Twp. 22^s Rge. 13^w Co. STAFFORD State KO
 Comment: _____ Release date / time: _____

Interval Tested 3518 - 3576 Initial Str Wt./Lbs. 26000 Unseated Str Wt/Lbs. 27000
 Anchor Length 58 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 45000
 Top Packer Depth 3513 Tool Weight 2200
 Bottom Packer Depth 3518 Hole Size 7 7/8" — Rubber Size 6 3/4" —
 Total Depth 3576 Wt. Pipe Run — Drill Collar Run 30
 Mud Wt. 9 LCM — Vis. 69 WL 10 Drill Pipe Size 4 1/2 XH Ft. Run 3486

Blow Description IFP - STRONG BLOW IN 1 min

FFP - STRONG BLOW Thru-out

TSIP - 1" BLOW BACK

FSIP - STRONG BLOW BACK, GTS IN 40 min

Recovery - Total Feet 350 GIP GTS Ft. in DC 30 Ft. in DP 320
 Rec. 102 Feet of GMO 30 %gas 55 %oil %water 15 %mud
 Rec. 124 Feet of GMO 20 %gas 70 %oil %water 10 %mud
 Rec. 124 Feet of GMO 35 %gas 60 %oil %water 5 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 111 °F Gravity — °API D @ — °F Corrected Gravity _____ °API
 RW — @ — °F Chlorides — ppm Recovery _____ Chlorides 8100 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	Recorder No.	6753	Test	✓	1100
(B) First Initial Flow Pressure		1696 PSI	(depth)	3520	Jars		
(C) First Final Flow Pressure		57 PSI	Recorder No.	13534	Safety Jt.	✓	75
(D) Initial Shut-In Pressure		86 PSI	(depth)	3553	Circ Sub		
(E) Second Initial Flow Pressure		981 PSI	Recorder No.	—	Sampler		
(F) Second Final Flow Pressure		111 PSI	(depth)	—	Straddle		
(G) Final Shut-In Pressure		157 PSI	Initial Opening	15	Ext. Packer		
(Q) Final Hydrostatic Mud		1006 PSI	Initial Shut-In	45	Shale Packer		
		1653 PSI	Final Flow	45	Ruined Packer		
			Final Shut-In	90	Mileage	✓	40 RT 196.25

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 Paul Gunzelman
 Our Representative Ray Schwager Thank you

T-On Location

T-Started

T-Open

T-Pulled

T-Out

Sub Total:

Std. By

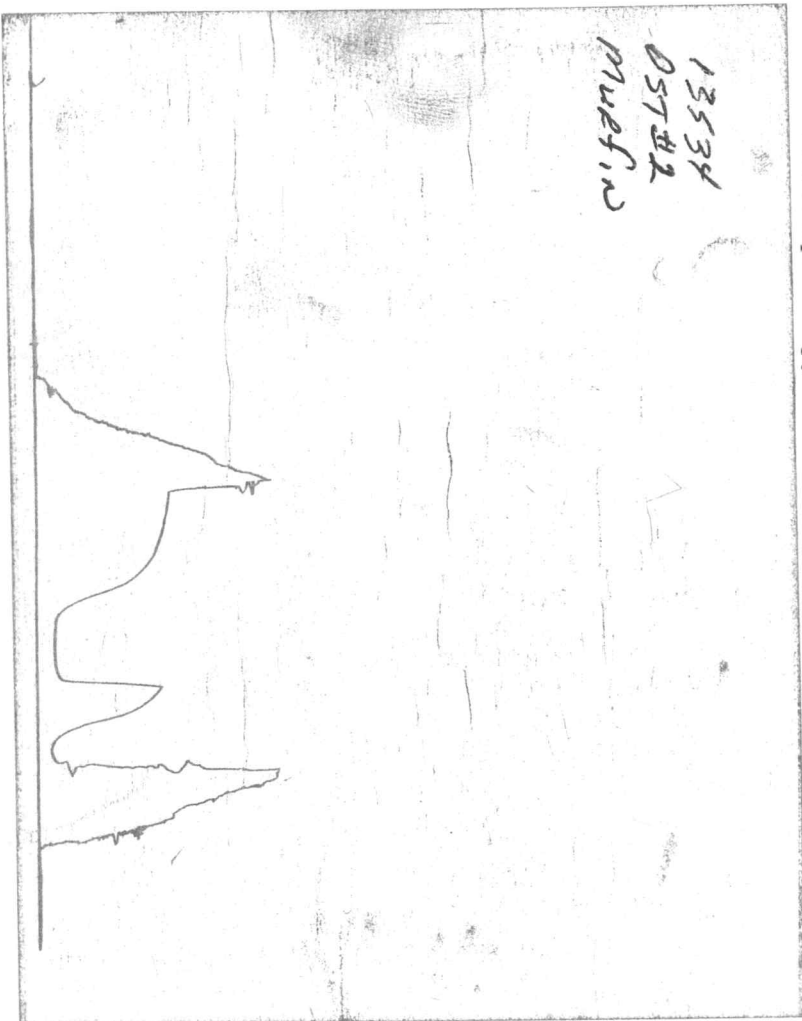
Acc. Chg:

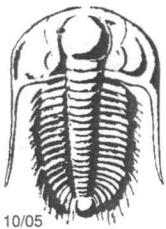
Other:

Total:

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26236

Test Ticket

Well Name & No. HAY-WITT Unit #1-11 Test No. 3 Date 9-26-06
 Company MURFIN Drilling Co Inc Zone Tested LKC K-L
 Address _____ Elevation 1912 KB 1907 GL _____
 Co. Rep / Geo. PAUL Gunzelman Rig MURFIN 8
 Location: Sec. 11 Twp. 22^S Rge. 13^W Co. STAFFORD State KO
 Comment: _____ Release date / time: _____

Interval Tested 3574-3654 Initial Str Wt./Lbs. 26000 Unseated Str Wt./Lbs. 26000
 Anchor Length 80 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 45000
 Top Packer Depth 3569 Tool Weight 2200
 Bottom Packer Depth 3574 Hole Size 7 7/8" — Rubber Size 6 3/4" —
 Total Depth 3654 Wt. Pipe Run — Drill Collar Run 30
 Mud Wt. 8.9 LCM — Vis. 49 WL 10 Drill Pipe Size 4 1/2 XH Ft. Run 3550
 Blow Description IFP- STRONG BLOW IN 1 min
FFP- STRONG BLOW, GTS, in 30 min, To weak To gauge
ISIP- surface BLOW BACK
FSIP- 3" BLOW BACK

Recovery - Total Feet 169 GIP GTS Ft. in DC 30 Ft. in DP _____
 Rec. 107 Feet of GMO 40 %gas 50 %oil _____ %water 10 %mud
 Rec. 62 Feet of GMO 40 %gas 40 %oil _____ %water 20 %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 — °API D @ — °F Corrected Gravity _____ °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 8100 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1743	PSI	Recorder No.	6753	Test	✓	1100
(B) First Initial Flow Pressure			76	PSI	(depth)	3576	Jars		
(C) First Final Flow Pressure			80	PSI	Recorder No.	13534	Safety Jt.	✓	75
(D) Initial Shut-In Pressure			620	PSI	(depth)	3638	Circ Sub		
(E) Second Initial Flow Pressure			92	PSI	Recorder No.	—	Sampler		
(F) Second Final Flow Pressure			113	PSI	(depth)	—	Straddle		
(G) Final Shut-In Pressure			612	PSI	Initial Opening	15	Ext. Packer		
(Q) Final Hydrostatic Mud			1673	PSI	Initial Shut-In	45	Shale Packer		
					Final Flow	45	Ruined Packer		
					Final Shut-In	90	Mileage	✓ 46 RT	196.25

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 Paul Gunzelman
 Our Representative RAY SCHWAGER Thank you

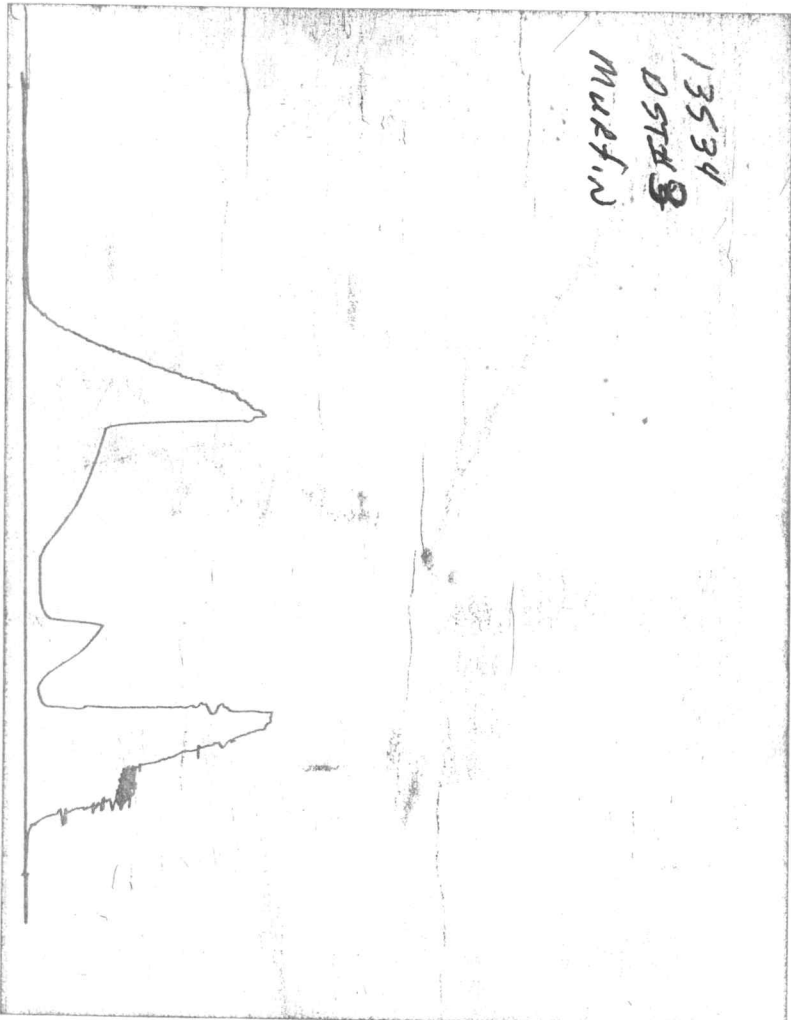
T-On Location

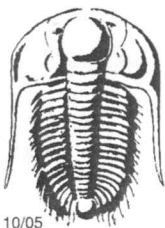
T-Started 0216
 T-Open 0430
 T-Pulled 0745
 T-Out 0944

Sub Total: _____
 Std. By V4 25
 Acc. Chg: _____
 Other: \$1396.25
 Total: \$1396.25

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26237

Test Ticket

Well Name & No. HAY-WITT UNIT #1-11 Test No. 4 Date 9-26-06
 Company MURFIN DRILLING Co Inc Zone Tested Arbuckle
 Address _____ Elevation 1912 KB 1907 GL _____
 Co. Rep / Geo. Paul Gunzelman Rig MURFIN 8
 Location: Sec. 11 Twp. 22^s Rge. 13^w Co. STAFFORD State KO
 Comment: _____ Release date / time: _____

Interval Tested 3704-3769 Initial Str Wt./Lbs. 26000 Unseated Str Wt./Lbs. 30000
 Anchor Length 65- Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 45000
 Top Packer Depth 3699 Tool Weight 2200
 Bottom Packer Depth 3704 Hole Size 7 7/8" - Rubber Size 6 3/4" -
 Total Depth 3769 Wt. Pipe Run - Drill Collar Run 30
 Mud Wt. 9 LCM - Vis. 54 WL 9.2 Drill Pipe Size 4 1/2 X H Ft. Run 3671
 Blow Description IFP - STRONG BLOW IN 1 MIN
FFP - STRONG BLOW GTS IN 30 MIN, TOW CAK TO GAUGE
ISIP - STRONG BLOW BACK IN 9 MIN
FSIP - GTS

Recovery - Total Feet 1350 GIP GTS Ft. in DC 30 Ft. in DP 1320
 Rec. 1236 Feet of CO %gas %oil %water %mud
 Rec. 124 Feet of 6 MO 30 %gas 55 %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 120 °F Gravity 32 °API D @ 60 °F Corrected Gravity 32 °API
 RW - @ - °F Chlorides - ppm Recovery _____ Chlorides 8500 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1809	PSI	Recorder No.	6753	Test	✓	1100
(B) First Initial Flow Pressure			139	PSI	(depth)	3708	Jars		
(C) First Final Flow Pressure			234	PSI	Recorder No.	13534	Safety Jt	✓	75
(D) Initial Shut-In Pressure			1144	PSI	(depth)	3741	Circ Sub	✓	50
(E) Second Initial Flow Pressure			262	PSI	Recorder No.	-	Sampler		
(F) Second Final Flow Pressure			500	PSI	(depth)	-	Straddle		
(G) Final Shut-In Pressure			989	PSI	Initial Opening	15	Ext. Packer		
(Q) Final Hydrostatic Mud			1713	PSI	Initial Shut-In	60	Shale Packer		

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Approved By Paul Gunzelman

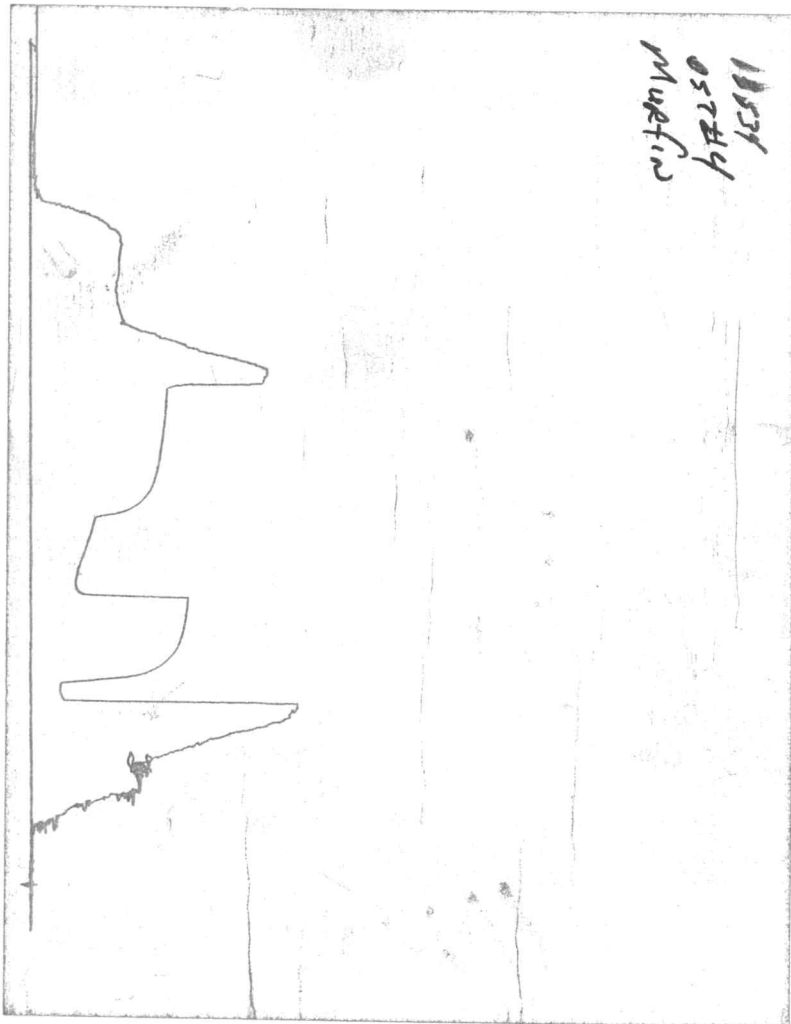
Our Representative RAY SCHWAGER Thank you

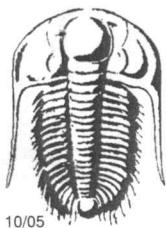
T-On Location 1845
 T-Started 1901
 T-Open 2110
 T-Pulled 0055
 T-Out 0355

Ruined Packer _____
 Mileage ✓ 40 RT 196.25
 Sub Total: _____
 Std. By 1.25 125
 Acc. Chg: _____
 Other: \$1546.25
 Total: ✓

CHART PAGE

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26238

Test Ticket

Well Name & No. HAY-WITT Unit #1-11 Test No. 5 Date 9-27-06
 Company MURFIN Drilling Co Inc Zone Tested ARBuckle
 Address _____ Elevation 1912 KB 1907 GL _____
 Co. Rep / Geo. PAUL Gunzelman Rig MURFIN 8
 Location: Sec. 11 Twp. 22^s Rge. 13^w Co. STAFFORD State Ks
 Comment: _____ Release date / time: _____

Interval Tested 3769-3784 Initial Str Wt./Lbs. 25000 Unseated Str Wt/Lbs. 32000
 Anchor Length 15 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 40000
 Top Packer Depth 3764 Tool Weight 2200
 Bottom Packer Depth 3769 Hole Size 7 7/8" _____ Rubber Size 6 3/4" _____
 Total Depth 3784 Wt. Pipe Run _____ Drill Collar Run 30
 Mud Wt. 8.7 LCM _____ Vis. 65 WL 9.2 Drill Pipe Size 4 1/2 XH Ft. Run 3734
 Blow Description IFP - STRONG BLOW GTS 9min
FFP - GTS TO WCAK TO gauge
ISIP - STRONG BLOW BACK IN 15min
FSIP - GTS

Recovery - Total Feet 2230 GIP GTS Ft. in DC 30 Ft. in DP 2200
 Rec. 62 Feet of D+6CM 25%gas 10 %oil %water 65 %mud
 Rec. 62 Feet of MGO 30 %gas 50 %oil %water 20 %mud
 Rec. 2106 Feet of CO %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 121 °F Gravity 32 °API D @ 60 °F Corrected Gravity 32 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 8500 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1843	PSI	Recorder No.	6753	Test	✓	1100
(B) First Initial Flow Pressure			336	PSI	(depth)	3770	Jars		
(C) First Final Flow Pressure			461	PSI	Recorder No.	13534	Safety Jt.	✓	75
(D) Initial Shut-In Pressure			1033	PSI	(depth)	3781	Circ Sub	✓	50
(E) Second Initial Flow Pressure			567	PSI	Recorder No.	-	Sampler		
(F) Second Final Flow Pressure			815	PSI	(depth)	-	Straddle		
(G) Final Shut-In Pressure			995	PSI	Initial Opening	15	Ext. Packer		
(Q) Final Hydrostatic Mud			1777	PSI	Initial Shut-In	60	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 Paul Gunzelman

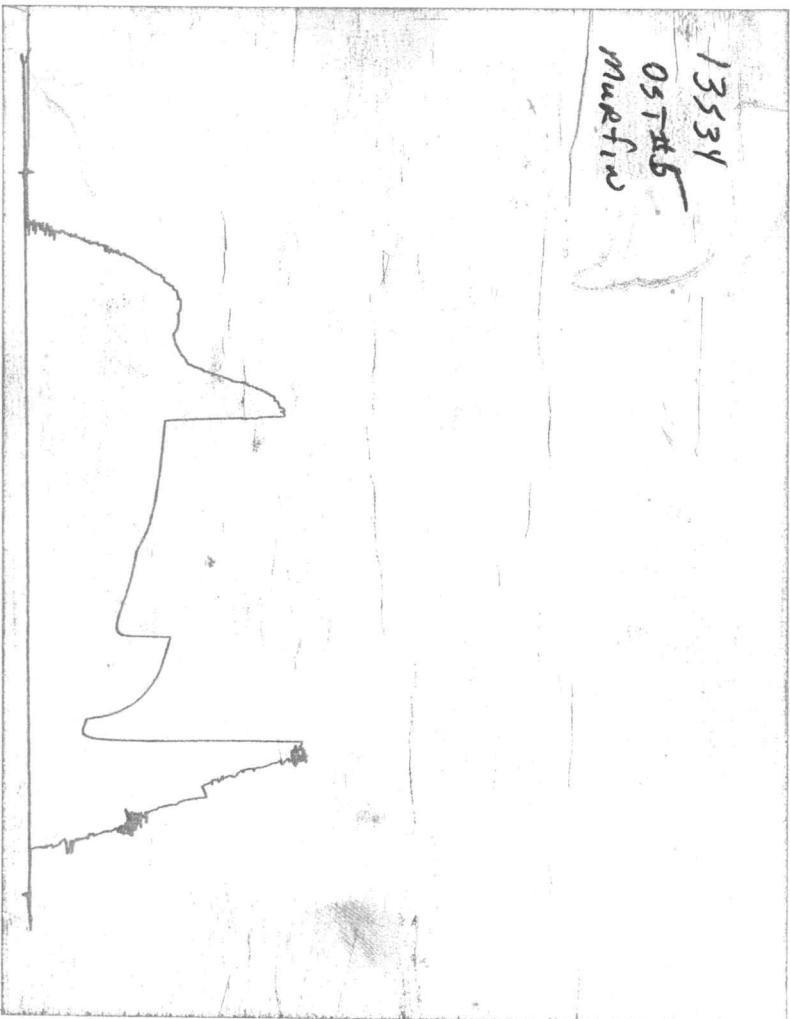
Our Representative RAY SCHWAGER Thank you

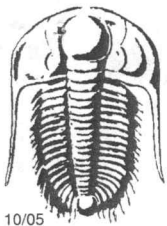
Final Flow 60
 Final Shut-In 90
 T-On Location 0920
 T-Started 1005
 T-Open 1215
 T-Pulled 1600
 T-Out 1848

Test ✓ 1100
 Jars _____
 Safety Jt. ✓ 75
 Circ Sub ✓ 50
 Sampler _____
 Straddle _____
 Ext. Packer _____
 Shale Packer _____
 Ruined Packer _____
 Mileage ✓ 40 RT 196.25
 Sub Total: _____
 Std. By 1.25 125
 Acc. Chg: _____
 Other: \$1546.25
 Total: ✓

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26239

Test Ticket

Well Name & No. HAY - WITT UNIT # 1-11 Test No. 6 Date 9-28-06
Company MURFIN DRILLING CO INC Zone Tested ARBuckle
Address _____ Elevation 1912 KB 1907 GL
Co. Rep / Geo. PAUL Gunzelman Rig MURFIN 8
Location: Sec. 11 Twp. 22^s Rge. 13^w Co. STAFFORD State K
Comment: _____ Release date / time: _____

Interval Tested 3784-3799 Initial Str Wt./Lbs. 27000 Unseated Str Wt./Lbs. 34000
Anchor Length 15 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 45000
Top Packer Depth 3779 Tool Weight 2200
Bottom Packer Depth 3784 Hole Size 7 7/8" - Rubber Size 6 3/4" -
Total Depth 3799 Wt. Pipe Run - Drill Collar Run 30
Mud Wt. 8.7 LCM - Vis. 66 WL 10.4 Drill Pipe Size 4 1/2 XH Ft. Run 3791
Blow Description IFP- STRONG Blow Thru-out
IFP- STRONG Blow Thru-out
ISIP- STRONG Blow BACK IN 8 MIN
FSIP- 3" Blow BACK

Recovery - Total Feet 1800 GIP 1300 Ft. in DC 30 Ft. in DP 1770
Rec. 1676 Feet of CO %gas %oil %water %mud
Rec. 124 Feet of GMO 30 %gas 60 %oil %water 10 %mud
Rec. _____ Feet of _____ %gas %oil %water %mud
Rec. _____ Feet of _____ %gas %oil %water %mud
Rec. _____ Feet of _____ %gas %oil %water %mud
BHT 121 °F Gravity 31 °API D @ 60 °F Corrected Gravity 31 °API
RW - @ - °F Chlorides _____ ppm Recovery _____ Chlorides 8500 ppm System

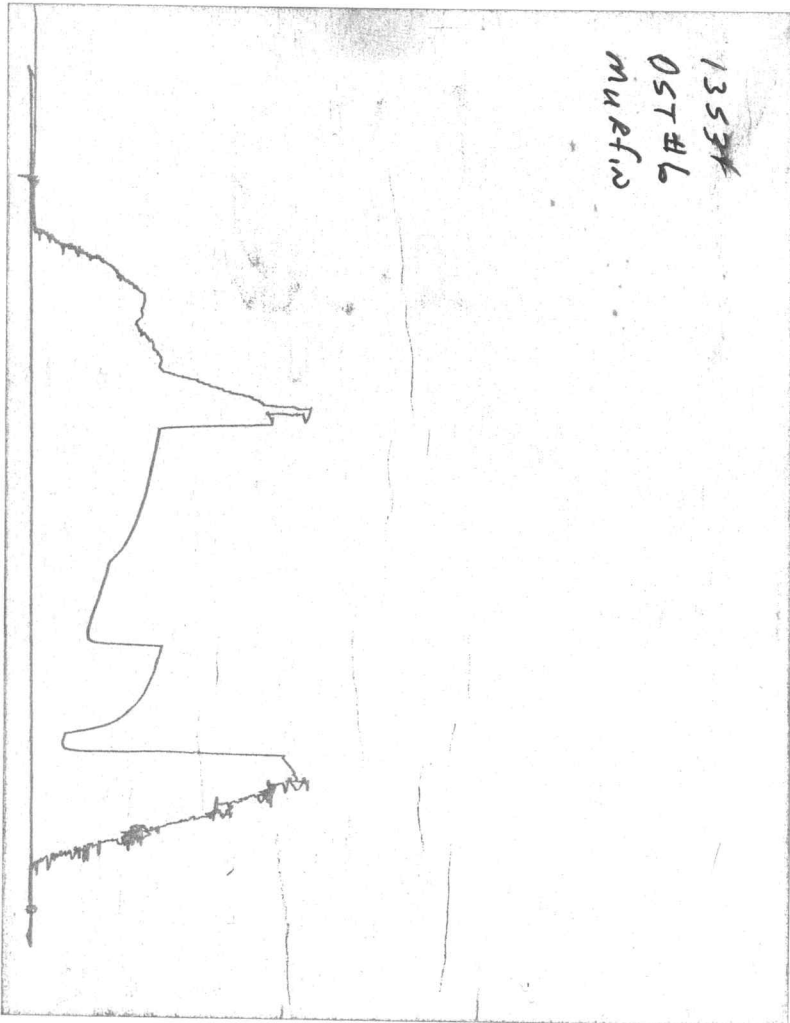
	AK-1	Alpine			
(A) Initial Hydrostatic Mud		<u>1757</u> PSI	Recorder No.	<u>6753</u>	Test ☒ <u>1100</u>
(B) First Initial Flow Pressure		<u>221</u> PSI	(depth)	<u>3785</u>	Jars _____
(C) First Final Flow Pressure		<u>305</u> PSI	Recorder No.	<u>13534</u>	Safety Jt. ☒ <u>75</u>
(D) Initial Shut-In Pressure		<u>987</u> PSI	(depth)	<u>3796</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>382</u> PSI	Recorder No.	<u>-</u>	Sampler _____
(F) Second Final Flow Pressure		<u>597</u> PSI	(depth)	<u>-</u>	Straddle _____
(G) Final Shut-In Pressure		<u>945</u> PSI	Initial Opening	<u>15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1724</u> PSI	Initial Shut-In	<u>60</u>	Shale Packer _____
			Final Flow	<u>60</u>	Ruined Packer _____
			Final Shut-In	<u>90</u>	Mileage ☒ <u>40 RT</u> <u>196.2</u>
			T-On Location	<u>0030</u>	Sub Total: _____
			T-Started	<u>0055</u>	Std. By <u>100</u>
			T-Open	<u>0310</u>	Acc. Chg: _____
			T-Pulled	<u>0655</u>	Other: _____
			T-Out	<u>0936</u>	Total: <u>\$1471.25</u>

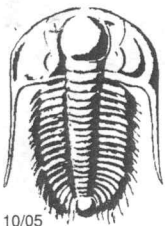
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST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

Approved By _____
Our Representative Ray Schwager Thank you

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26240

Test Ticket

Well Name & No. HAY-WITT Unit #1-11 Test No. 7 Date 9-28-06
 Company MURFIN DRILLING Co INC Zone Tested ARBUCKLE
 Address _____ Elevation 1912 KB 1907 GL _____
 Co. Rep / Geo. PAUL GUNZELMAN Rig MURFIN 8
 Location: Sec. 11 Twp. 22^s Rge. 13^w Co. STAFFORD State KO
 Comment: _____ Release date / time: _____

Interval Tested 3799-3814 Initial Str Wt./Lbs. 27000 Unseated Str Wt./Lbs. 30000
 Anchor Length 15 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 45000
 Top Packer Depth 3794 Tool Weight 2200
 Bottom Packer Depth 3799 Hole Size 7 7/8" - Rubber Size 6 3/4" -
 Total Depth 3814 Wt. Pipe Run - Drill Collar Run 30
 Mud Wt. 9.1 LCM - Vis. 68 WL 10.4 Drill Pipe Size 4 1/2 XH Ft. Run 3766
 Blow Description IFP-STRONG BLOW IN 30 sec
FFP-STRONG BLOW IN 3 min
ISIP-STRONG BLOW BACK IN 37 min
FSIP- 6" BLOW BACK

Recovery - Total Feet 1147 GIP 775 Ft. in DC 30 Ft. in DP 1117
 Rec. 775 Feet of CO %gas %oil %water %mud
 Rec. 62 Feet of 0+6 CMW 15 %gas 4 %oil 61 %water 20 %mud
 Rec. 310 Feet of WATER %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 122 °F Gravity 31 °API D @ 60 °F Corrected Gravity 31 °API
 RW .24 @ 70 °F Chlorides 28000 ppm Recovery _____ Chlorides 9800 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	Recorder No.	Test	✓	1100
(B) First Initial Flow Pressure	1842	PSI	(depth)	Jars		
(C) First Final Flow Pressure	93	PSI	Recorder No.	Safety Jt.	✓	75
(D) Initial Shut-In Pressure	205	PSI	(depth)	Circ Sub		
(E) Second Initial Flow Pressure	1099	PSI	Recorder No.	Sampler		
(F) Second Final Flow Pressure	224	PSI	(depth)	Straddle		
(G) Final Shut-In Pressure	478	PSI	Initial Opening	Ext. Packer		
(Q) Final Hydrostatic Mud	985	PSI	Initial Shut-In	Shale Packer		
	1708	PSI	Final Flow	Ruined Packer		
			Final Shut-In	Mileage	✓ 40 RT	146.25
			T-On Location	Sub Total:		
			T-Started	Std. By	✓ hr	100
			T-Open	Acc. Chg:		
			T-Pulled	Other:		
			T-Out	Total:		\$ 1471.25

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 Paul Gunzelman

Our Representative Ray Schwager Thank you

CHART PAGE

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

13534
09747
MURKIN

