

CONFIDENTIAL

ORIGINAL

15-055-21811

KCC

OCT 21 2003

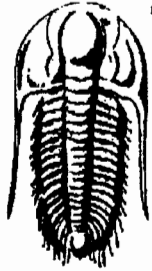
CONFIDENTIAL

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OCT 22 2003

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FROM
CONFIDENTIAL



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste #300
Wichita KS 67202

ATTN: Paul Gunzelman

12-22S-34W Finney

Loomis ~~#2-13~~ 2-12

Start Date: 2003.08.27 @ 00:45:00

End Date: 2003.08.27 @ 08:41:45

Job Ticket #: 17683

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company

Loomis #2-13

12-22S-34W Finney

DST # 1

Pawnee

2003.08.27

CONFIDENTIAL

Note: well is
2-12

ORIGINAL


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste #300
Wichita KS 67202

ATTN: Paul Gunzelman

Loomis #2-13

12-22S-34W Finney

Job Ticket: 17683

DST#:1

Test Start: 2003.08.27 @ 00:45:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:41:45

Time Test Ended: 08:41:45

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: 4424.00 ft (KB) To 4450.00 ft (KB) (TVD)

Total Depth: 4450.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2922.00 ft (KB)

2909.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6751

Inside

Press@RunDepth: 119.33 psig @ 4425.00 ft (KB)

Start Date: 2003.08.27

End Date:

2003.08.27

Start Time: 00:45:02

End Time:

08:41:45

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2003.08.27 @ 02:41:30

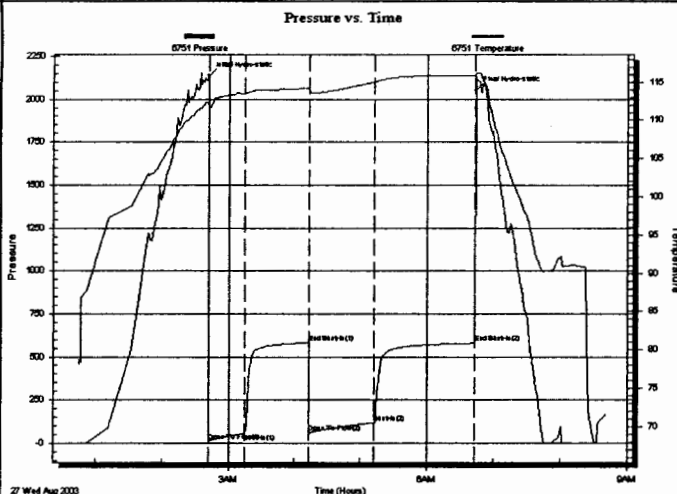
Time Off Btm: 2003.08.27 @ 06:43:45

TEST COMMENT: IF; Surface blow built to 1 1/2"

IS; No return

FF; Surface return in 10 mins steady thru

FS; No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.95	112.32	Initial Hydro-static
1	11.39	111.77	Open To Flow (1)
34	56.66	113.52	Shut-In(1)
92	582.15	114.22	End Shut-In(1)
93	61.08	113.95	Open To Flow (2)
152	119.33	115.01	Shut-In(2)
242	579.22	115.86	End Shut-In(2)
243	2050.76	116.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Watery Mud w/film of oil @ top	1.18

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 Company 250 N Water Ste #300 Wichita KS 67202 ATTN: Paul Gunzelman		Loomis #2-13 12-22S-34W Finney Job Ticket: 17683 DST#: 1 Test Start: 2003.08.27 @ 00:45:00																																																																								
Tool Information <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Drill Pipe:</td> <td style="width: 16.5%;">Length: 4185.00 ft</td> <td style="width: 16.5%;">Diameter: 3.80 inches</td> <td style="width: 16.5%;">Volume: 58.70 bbl</td> <td style="width: 16.5%;">Tool Weight: 2000.00 lb</td> </tr> <tr> <td>Heavy Wt. Pipe:</td> <td>Length: 0.00 ft</td> <td>Diameter: 0.00 inches</td> <td>Volume: 0.00 bbl</td> <td>Weight set on Packer: 25000.00 lb</td> </tr> <tr> <td>Drill Collar:</td> <td>Length: 247.00 ft</td> <td>Diameter: 2.25 inches</td> <td>Volume: 1.21 bbl</td> <td>Weight to Pull Loose: 70000.00 lb</td> </tr> <tr> <td></td> <td></td> <td colspan="2" style="text-align: center;">Total Volume: 59.91 bbl</td> <td>Tool Chased 0.00 ft</td> </tr> <tr> <td>Drill Pipe Above KB:</td> <td>30.00 ft</td> <td></td> <td></td> <td>String Weight: Initial 52000.00 lb</td> </tr> <tr> <td>Depth to Top Packer:</td> <td>4424.00 ft</td> <td></td> <td></td> <td style="text-align: right;">Final 52000.00 lb</td> </tr> <tr> <td>Depth to Bottom Packer:</td> <td>ft</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Interval between Packers:</td> <td>26.00 ft</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tool Length:</td> <td>48.00 ft</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Number of Packers:</td> <td>2</td> <td>Diameter:</td> <td>6.75 inches</td> <td></td> </tr> <tr> <td colspan="5">Tool Comments:</td> </tr> </table>				Drill Pipe:	Length: 4185.00 ft	Diameter: 3.80 inches	Volume: 58.70 bbl	Tool Weight: 2000.00 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: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 70000.00 lb			Total Volume: 59.91 bbl		Tool Chased 0.00 ft	Drill Pipe Above KB:	30.00 ft			String Weight: Initial 52000.00 lb	Depth to Top Packer:	4424.00 ft			Final 52000.00 lb	Depth to Bottom Packer:	ft				Interval between Packers:	26.00 ft				Tool Length:	48.00 ft				Number of Packers:	2	Diameter:	6.75 inches		Tool Comments:																					
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Loomis #2-13

250 N Water Ste #300
Wichita KS 67202

12-22S-34W Finney

Job Ticket: 17683

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2003.08.27 @ 00:45:00

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:

30000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Watery Mud w /film of oil @ top	1.180

Total Length: 240.00 ft Total Volume: 1.180 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .24 @ 70 deg = 30,000 Chlorides

Serial #: 6751

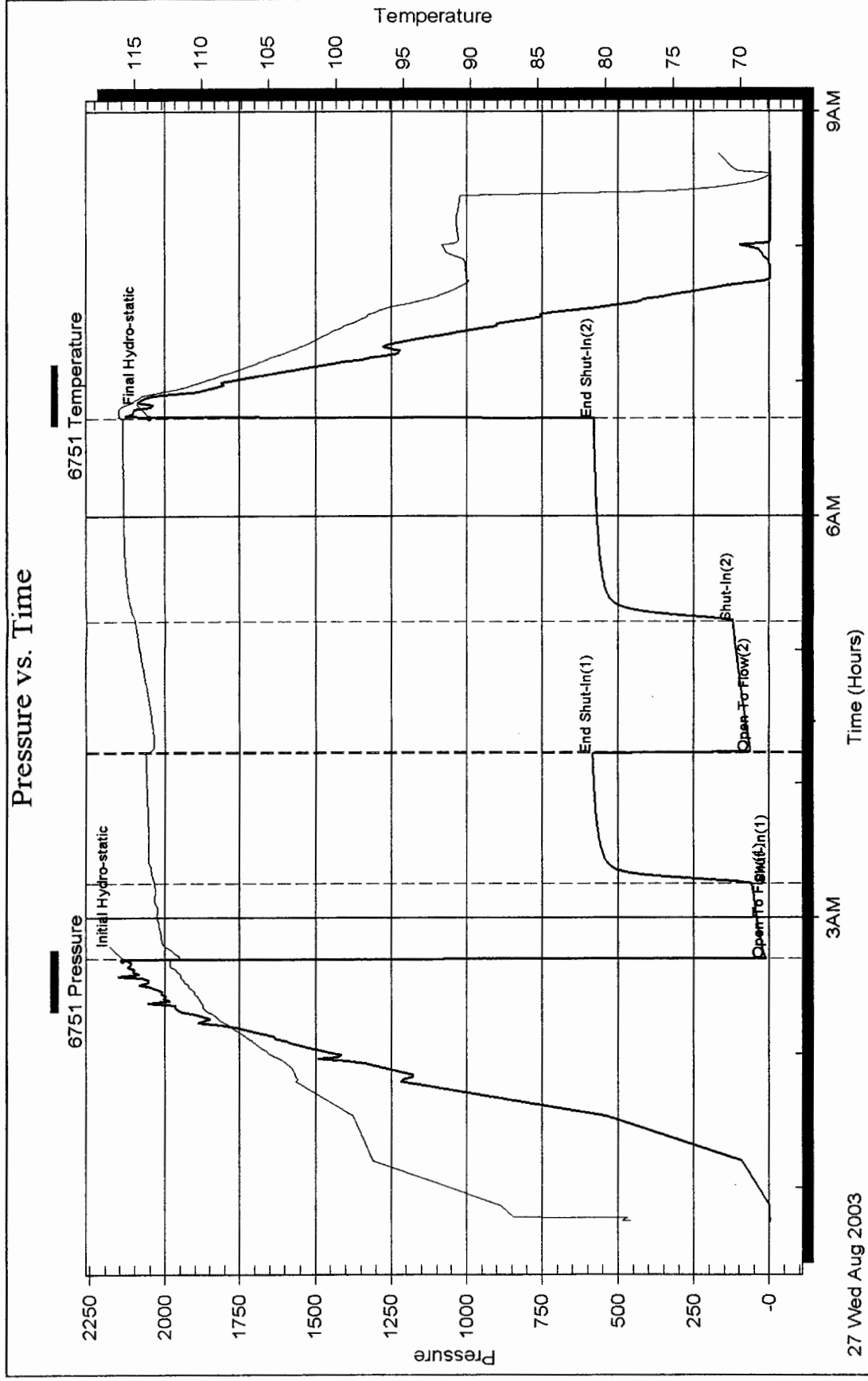
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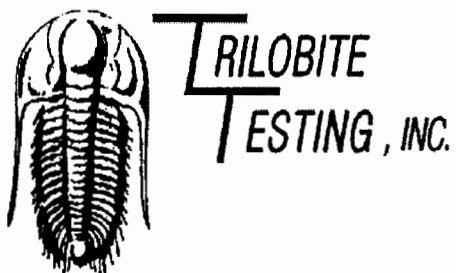
Murfin Drilling Company

12-22S-34W Finney

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste #300
Wichita KS 67202

ATTN: Paul Gunzelman

12-22S-34W Finney

Loomis #2-13

Start Date: 2003.08.27 @ 16:55:04

End Date: 2003.08.27 @ 23:06:19

Job Ticket #: 17684 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 Company

250 N Water Ste #300
Wichita KS 67202

ATTN: Paul Gunzelman

Loomis #2-13

12-22S-34W Finney

Job Ticket: 17684

DST#: 2

Test Start: 2003.08.27 @ 16:55:04

GENERAL INFORMATION:

Formation: **Lwr Pawnee/Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:42:19

Time Test Ended: 23:06:19

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4458.00 ft (KB) To 4490.00 ft (KB) (TVD)**

Total Depth: **4490.00 ft (KB) (TVD)**

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2922.00 ft (KB)

2909.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6751 Inside

Press@RunDepth: 18.37 psig @ 4459.00 ft (KB)

Start Date: 2003.08.27

End Date:

2003.08.27

Start Time: 16:55:06

End Time:

23:06:19

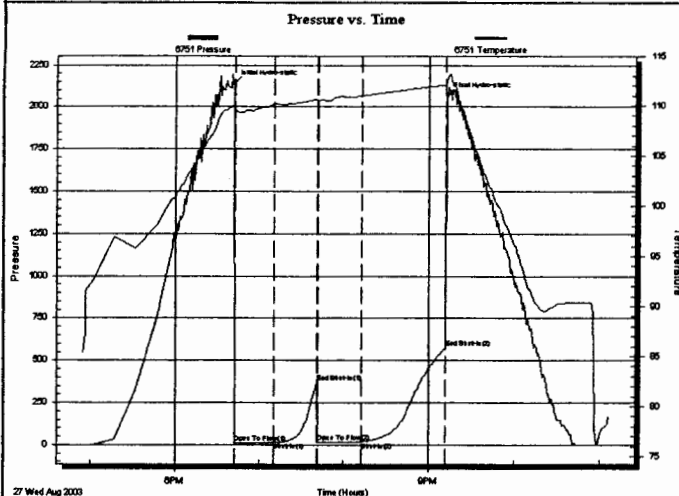
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2003.08.27 @ 18:41:49

Time Off Btm: 2003.08.27 @ 21:12:49

TEST COMMENT: IF; Very weak blow died in 5 mins
FF; No blow



PRESSURE SUMMARY

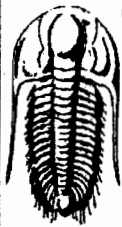
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.59	110.02	Initial Hydro-static
1	10.05	109.58	Open To Flow (1)
29	14.83	110.19	Shut-In (1)
60	368.31	110.61	End Shut-In (1)
61	15.09	110.45	Open To Flow (2)
92	18.37	110.97	Shut-In (2)
151	576.71	112.06	End Shut-In (2)
151	2063.67	112.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Drig. Mud w/oil specks	0.01

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 Company

250 N Water Ste #300
Wichita KS 67202

ATTN: Paul Gunzelman

Loomis #2-13

12-22S-34W Finney

Job Ticket: 17684

DST#: 2

Test Start: 2003.08.27 @ 16:55:04

Tool Information

Drill Pipe:	Length: 4216.00 ft	Diameter: 3.80 inches	Volume: 59.14 bbl	Tool Weight: 2000.00 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: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 60.35 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4458.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	54.00 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			4441.00	
Hydraulic tool	5.00			4446.00	
Safety Joint	2.00			4448.00	
Packer	5.00			4453.00	22.00 Bottom Of Top Packer
Packer	5.00			4458.00	
Stubb	1.00			4459.00	
Recorder	0.00	6751	Inside	4459.00	
Perforations	26.00			4485.00	
Recorder	0.00	13309	Outside	4485.00	
Bullnose	5.00			4490.00	32.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Loomis #2-13

250 N Water Ste #300
Wichita KS 67202

12-22S-34W Finney

Job Ticket: 17684

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2003.08.27 @ 16:55:04

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	Drig. Mud w /oil specks	0.015

Total Length: 3.00 ft

Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6751

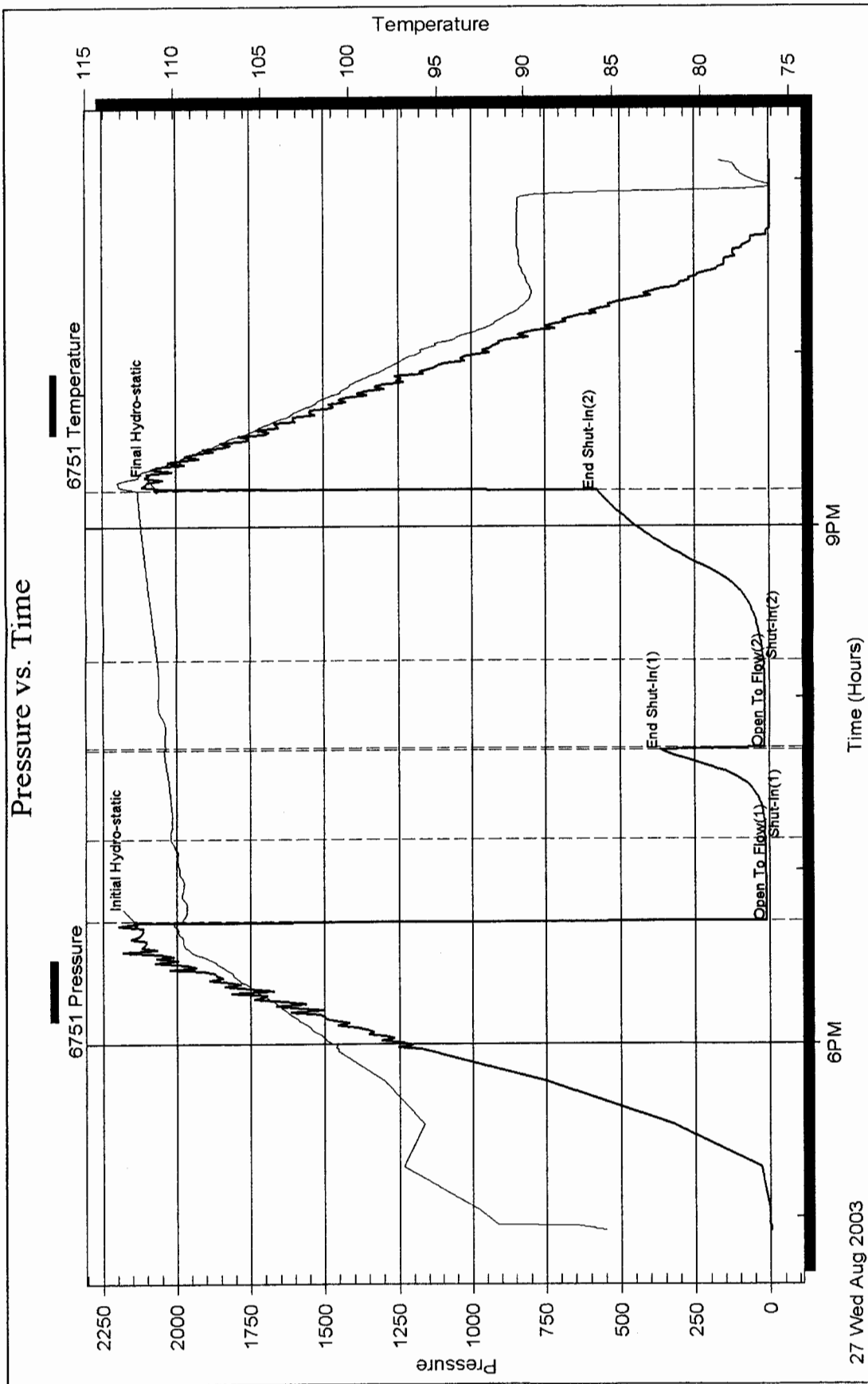
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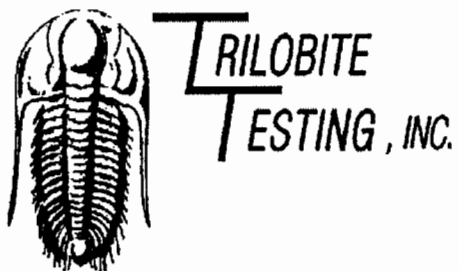
Murfin Drilling Company

12-22S-34W Finney

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste #300
Wichita KS 67202

ATTN: Paul Gunzelman

12-22S-34W Finney

Loomis #2-13

Start Date: 2003.08.28 @ 18:05:13

End Date: 2003.08.29 @ 00:47:13

Job Ticket #: 17685 DST #: 3

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste #300
Wichita KS 67202

ATTN: Paul Gunzelman

Loomis #2-13

12-22S-34W Finney

Job Ticket: 17685

DST#: 3

Test Start: 2003.08.28 @ 18:05:13

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:50:13

Time Test Ended: 00:47:13

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: **4666.00 ft (KB) To 4724.00 ft (KB) (TVD)**

Total Depth: 4724.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2922.00 ft (KB)

2909.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6751 Inside

Press@RunDepth: 17.31 psig @ 4667.00 ft (KB)

Start Date: 2003.08.28

End Date:

2003.08.29

Start Time: 18:05:15

End Time:

00:47:13

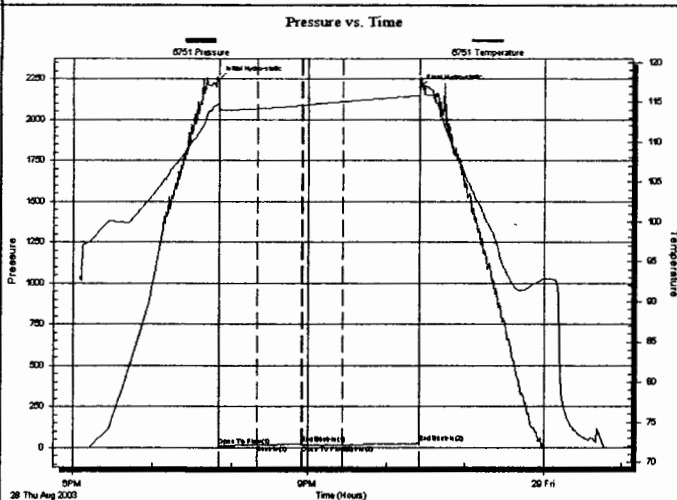
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2003.08.28 @ 19:49:58

Time Off Btm: 2003.08.28 @ 22:25:13

TEST COMMENT: IF; Weak surface blow died in 10 mins
FF; No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2245.74	114.78	Initial Hydro-static
1	10.75	113.69	Open To Flow (1)
30	15.59	114.14	Shut-In(1)
65	25.61	114.55	End Shut-In(1)
66	16.46	114.55	Open To Flow (2)
97	17.31	115.02	Shut-In(2)
155	26.15	115.79	End Shut-In(2)
156	2193.95	117.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig. Mud	0.05

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 Company

Loomis #2-13

250 N Water Ste #300
Wichita KS 67202

12-22S-34W Finney

Job Ticket: 17685

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2003.08.28 @ 18:05:13

Tool Information

Drill Pipe:	Length: 4404.00 ft	Diameter: 3.80 inches	Volume: 61.78 bbl	Tool Weight: 2000.00 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: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	62.99 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4666.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	82.00 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			4649.00	
Hydraulic tool	5.00			4654.00	
Safety Joint	2.00			4656.00	
Packer	5.00			4661.00	22.00 Bottom Of Top Packer
Packer	5.00			4666.00	
Stubb	1.00			4667.00	
Recorder	0.00	6751	Inside	4667.00	
Perforations	21.00			4688.00	
Change Over Sub	1.00			4689.00	
Anchor	31.00			4720.00	
Change Over Sub	1.00			4721.00	
Recorder	0.00	13309	Outside	4721.00	
Bullnose	5.00			4726.00	60.00 Bottom Packers & Anchor

Total Tool Length: 82.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Loomis #2-13

250 N Water Ste #300
Wichita KS 67202

12-22S-34W Finney

Job Ticket: 17685

DST#: 3

ATTN: Paul Gunzelman

Test Start: 2003.08.28 @ 18:05:13

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Drig. Mud	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

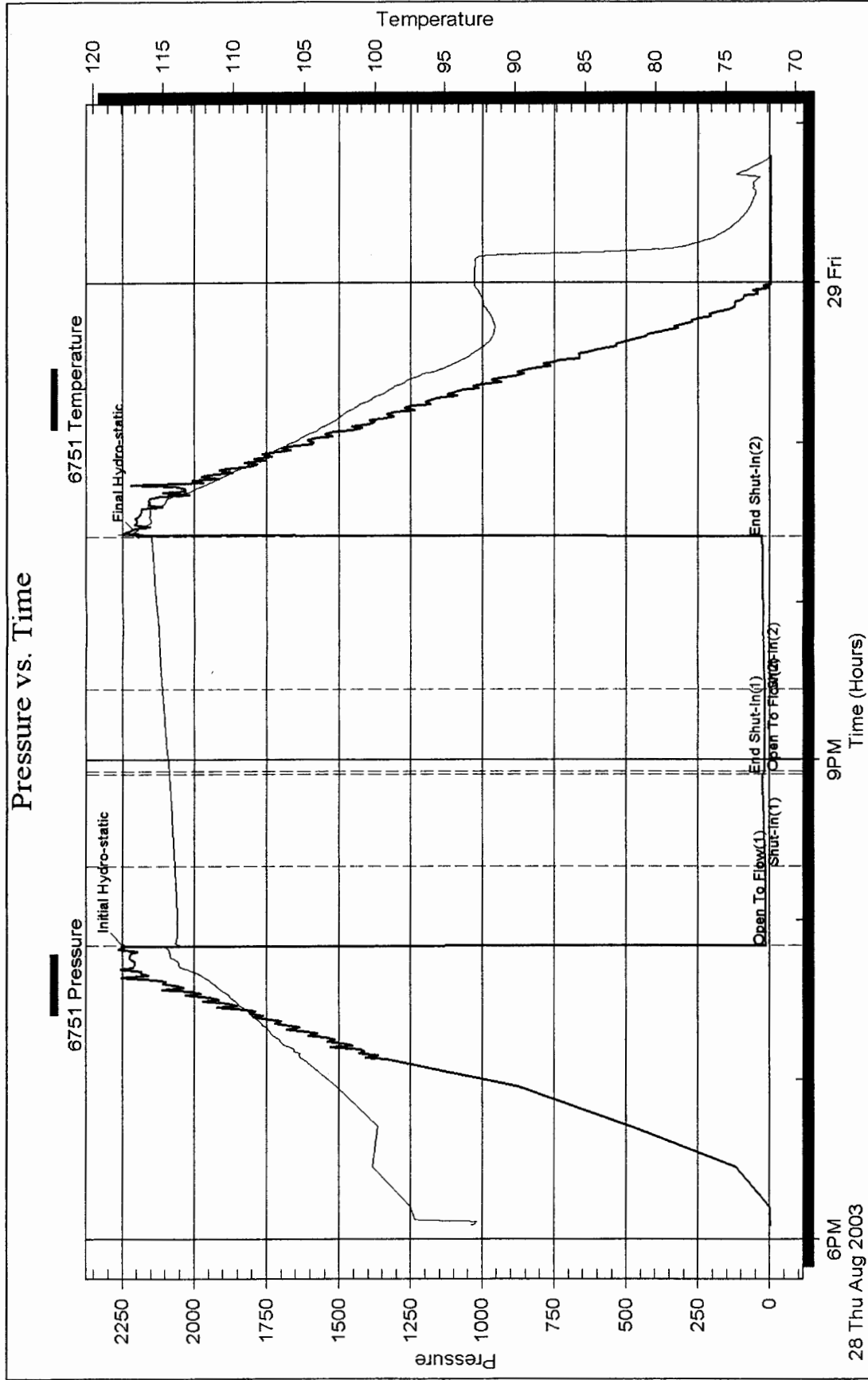
Serial #: 6751

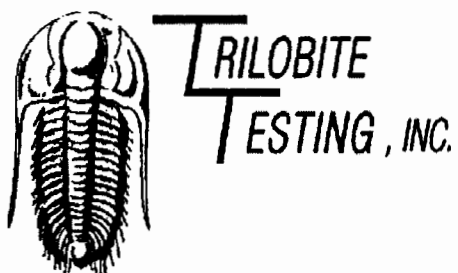
Inside

Murfin Drilling Company

12-22S-34W Finney

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste #300
Wichita KS 67202

ATTN: Paul Gunzelman

12-22S-34W Finney

Loomis #2-13

Start Date: 2003.08.29 @ 08:40:05

End Date: 2003.08.29 @ 16:58:05

Job Ticket #: 17686 DST #: 4

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 Company

250 N Water Ste #300
Wichita KS 67202

ATTN: Paul Gunzelman

Loomis #2-13

12-22S-34W Finney

Job Ticket: 17686

DST#: 4

Test Start: 2003.08.29 @ 08:40:05

GENERAL INFORMATION:

Formation: **Morrow**

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

Time Tool Opened: 10:26:05

Time Test Ended: 16:58:05

Test Type: **Conventional Bottom Hole**

Tester: **Rod Steinbrink**

Unit No: **22**

Interval: **4665.00 ft (KB) To 4768.00 ft (KB) (TVD)**

Total Depth: **4768.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2922.00 ft (KB)**

2909.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 6751

Inside

Press@RunDepth: **160.38 psig @ 4666.00 ft (KB)**

Start Date: **2003.08.29**

End Date:

2003.08.29

Start Time: **08:40:07**

End Time:

16:58:05

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Time On Btm: **2003.08.29 @ 10:25:35**

Time Off Btm: **2003.08.29 @ 14:28:50**

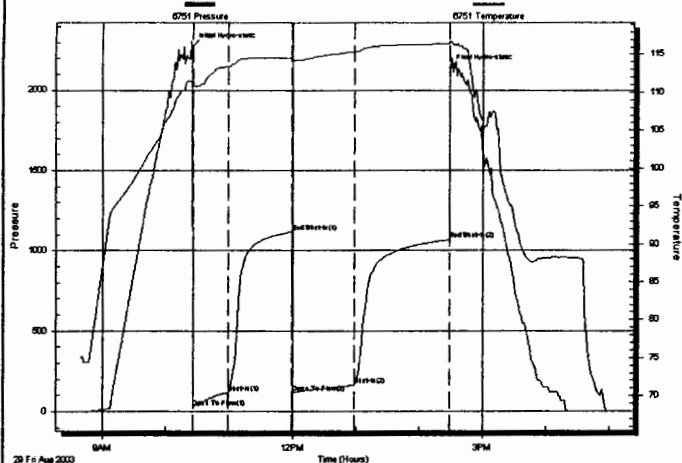
TEST COMMENT: IF; Weak to fair built to 8"

IS; Surface return died in 30 mins

FF; Weak to fair built to 10"

FS; No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.38	111.42	Initial Hydro-static
1	21.81	110.88	Open To Flow (1)
34	113.22	113.39	Shut-In(1)
94	1117.01	114.62	End Shut-In(1)
95	115.12	114.34	Open To Flow (2)
153	160.38	115.35	Shut-In(2)
243	1066.75	116.44	End Shut-In(2)
244	2136.65	116.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	GMCO 45%gas 40%oil 15%mud	1.96
80.00	GOCM 10%gas 20%oil 70%mud	1.12

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 Company

250 N Water Ste #300
Wichita KS 67202

ATTN: Paul Gunzelman

Loomis #2-13

12-22S-34W Finney

Job Ticket: 17686

DST#: 4

Test Start: 2003.08.29 @ 08:40:05

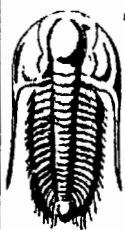
Tool Information

Drill Pipe:	Length: 4405.00 ft	Diameter: 3.80 inches	Volume: 61.79 bbl	Tool Weight: 2000.00 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: 247.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	63.00 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4665.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	103.00 ft			
Tool Length:	125.00 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			4648.00	
Hydraulic tool	5.00			4653.00	
Safety Joint	2.00			4655.00	
Packer	5.00			4660.00	22.00 Bottom Of Top Packer
Packer	5.00			4665.00	
Stubb	1.00			4666.00	
Recorder	0.00	6751	Inside	4666.00	
Perforations	3.00			4669.00	
Change Over Sub	1.00			4670.00	
Anchor	92.00			4762.00	
Change Over Sub	1.00			4763.00	
Recorder	0.00	13309	Outside	4763.00	
Bullnose	5.00			4768.00	103.00 Bottom Packers & Anchor

Total Tool Length: 125.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

Loomis #2-13

250 N Water Ste #300
Wichita KS 67202

12-22S-34W Finney

Job Ticket: 17686

DST#: 4

ATTN: Paul Gunzelman

Test Start: 2003.08.29 @ 08:40:05

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: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	GMCO 45%gas 40%oil 15%mud	1.958
80.00	GOCM 10%gas 20%oil 70%mud	1.122

Total Length: 380.00 ft

Total Volume: 3.080 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

