IND

CONFIDENTIAL

TRILOBITE TESTING, INC.

CONFIDENTIAL
MAR 11 2008
KCC

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste. 300
Wichita KS 67202

ATTN: David Doyal

12 22 13 Stafford KS

M. Drach #2-12

Start Date: 2007.11.24 @ 06:42:52
End Date: 2007.11.24 @ 14:21:22
Job Ticket #: 30193 DST #: 1

RECEIVED
KANSAS CORPORATION COMMISSION
MAR 12 2008
CONSERVATION DIVISION
WICHITA, KS

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

Murfin Drilling Co Inc
M. Drach #2-12
12 22 13 Stafford KS
DST #1
LKC
2007.11.24

DRILL STEM TEST REPORT

Griffin Drilling Co Inc

250 N Water Ste. 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 30193 **DST#: 1**

Test Start: 2007.11.24 @ 06:42:52

GENERAL INFORMATION:

Formation: **LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:23:52
Time Test Ended: 14:21:22

Test Type: Conventional Bottom Hole
Tester: Kyle Kinderknecht
Unit No: 42

Interval: 3399.00 ft (KB) To 3465.00 ft (KB) (TVD)
Total Depth: 3465.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

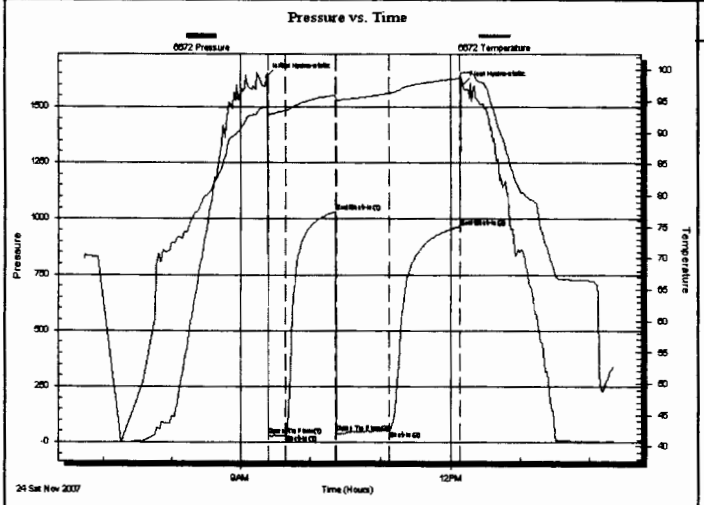
Reference Elevations: 1912.00 ft (KB)
1902.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6672 **Inside**

Press@RunDepth: 53.48 psig @ 3403.00 ft (KB)
Start Date: 2007.11.24 End Date: 2007.11.24
Start Time: 06:42:57 End Time: 14:21:21

Capacity: 7000.00 psig
Last Calib.: 2007.11.24
Time On Btm: 2007.11.24 @ 09:22:22
Time Off Btm: 2007.11.24 @ 12:10:22

TEST COMMENT: IF Surface
ISI Weak Surface 15-25 min
FF Surface
FSI No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.24	94.03	Initial Hydro-static
2	30.41	92.74	Open To Flow (1)
17	33.31	93.50	Shut-In(1)
59	1031.60	95.99	End Shut-In(1)
60	42.30	95.26	Open To Flow (2)
106	53.48	96.28	Shut-In(2)
166	964.01	98.67	End Shut-In(2)
168	1599.25	99.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	slight Oil spec GM 3%G 97%M	0.37

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste. 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 30193 **DST#: 1**

Test Start: 2007.11.24 @ 06:42:52

Tool Information

Drill Pipe:	Length:	3225.00 ft	Diameter:	3.80 inches	Volume:	45.24 bbl	Tool Weight:	2500.00 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:	182.00 ft	Diameter:	2.25 inches	Volume:	0.90 bbl	Weight to Pull Loose:	58000.00 lb
					Total Volume:	46.14 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		31.00 ft					String Weight: Initial	56000.00 lb
Depth to Top Packer:		3399.00 ft					Final	56000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		66.00 ft						
Tool Length:		89.00 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			3377.00		
Shut In Tool	5.00			3382.00		
Hydraulic tool	5.00			3387.00		
Safety Joint	2.00			3389.00		
Packer	5.00			3394.00	23.00	Bottom Of Top Packer
Packer	5.00			3399.00		
Stubb	1.00			3400.00		
Perforations	3.00			3403.00		
Recorder	0.00	6672	Inside	3403.00		
Recorder	0.00	8365	Outside	3403.00		
Change Over Sub	1.00			3404.00		
Blank Spacing	32.00			3436.00		
Change Over Sub	1.00			3437.00		
Perforations	25.00			3462.00		
Bullnose	3.00			3465.00	66.00	Bottom Packers & Anchor
Total Tool Length:	**89.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste. 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 30193 **DST#: 1**

Test Start: 2007.11.24 @ 06:42:52

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.72 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

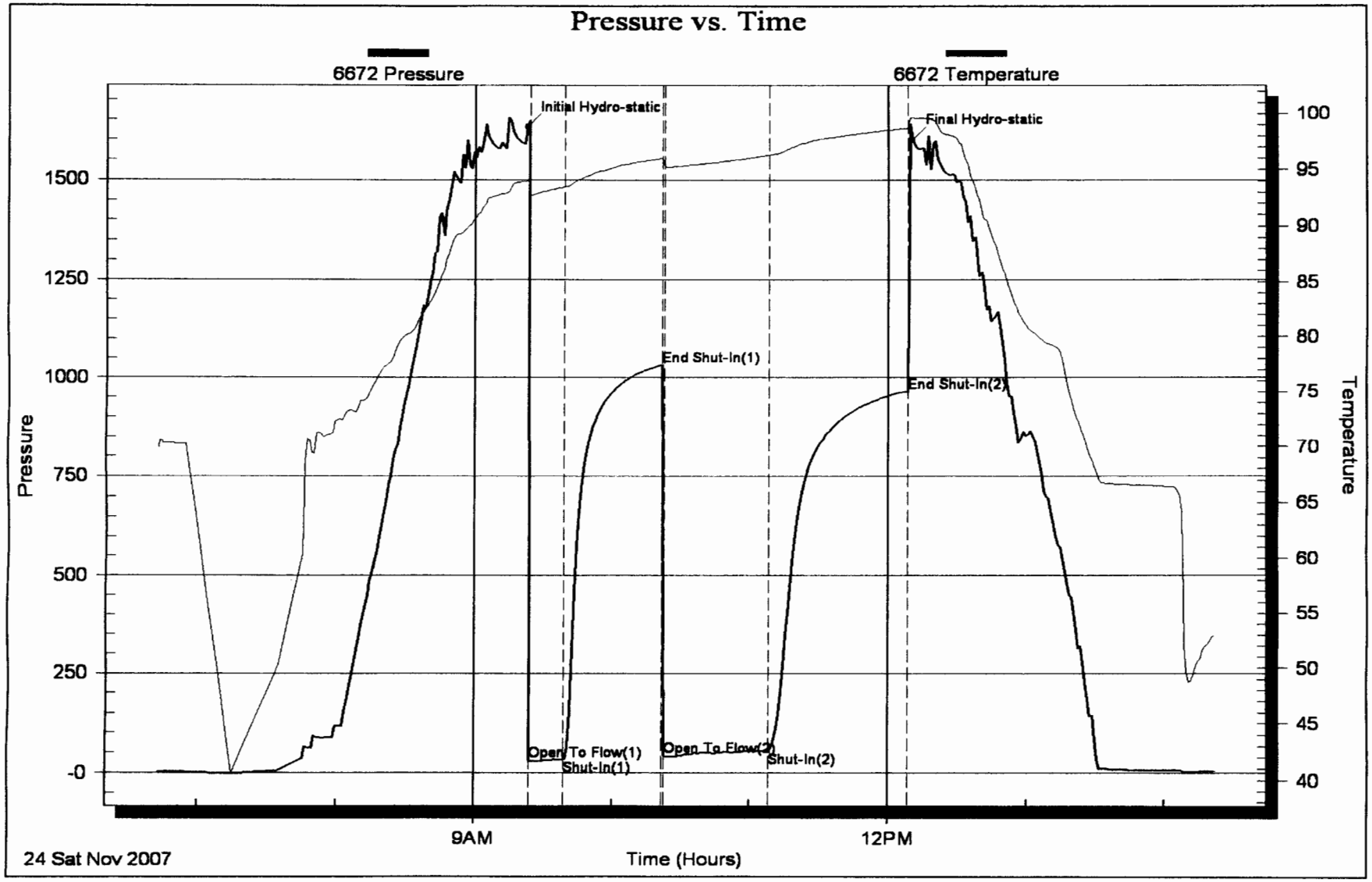
Length ft	Description	Volume bbl
75.00	slight Oil spec GM 3%G 97%M	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6672 Pressure
6672 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
1500
1250
1000
750
500
250
-0
Pressure
100
95
90
85
80
75
70
65
60
55
50
45
40
Temperature
9AM
12PM
24 Sat Nov 2007
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drlling Co Inc**

250 N Water Ste. 300
Wichita KS 67202

ATTN: David Doyal

12 22 13 Stafford KS

M. Drach #2-12

Start Date: 2007.11.25 @ 02:00:11

End Date: 2007.11.25 @ 10:08:35

Job Ticket #: 30194 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drlling Co Inc M. Drach #2-12 12 22 13 Stafford KS DST # 2 LKC 2007.11.25

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Murfin Drilling Co Inc

250 N Water Ste. 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 30194 **DST#: 2**

Test Start: 2007.11.25 @ 02:00:11

GENERAL INFORMATION:

Formation: **LKC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:07:06
Time Test Ended: 10:08:35

Test Type: Conventional Bottom Hole
Tester: Kyle Kinderknecht Ra
Unit No: 42

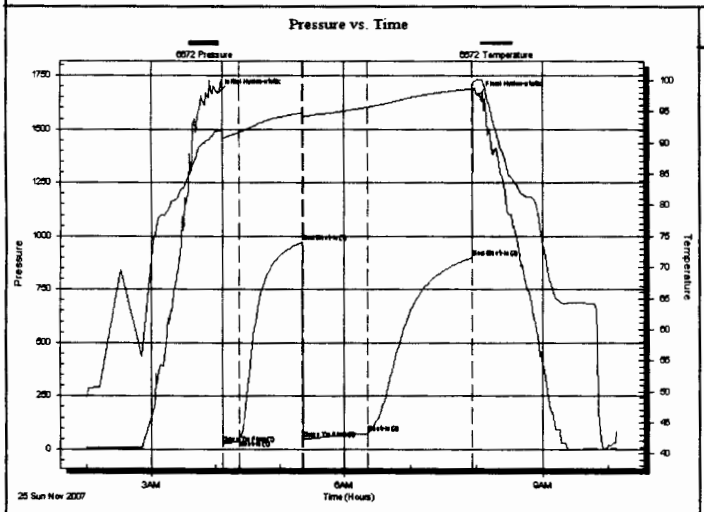
Interval: 3504.00 ft (KB) To 3630.00 ft (KB) (TVD)
Total Depth: 3630.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1912.00 ft (KB)
1902.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6672 **Inside**
Press@RunDepth: 74.41 psig @ 3508.00 ft (KB)
Start Date: 2007.11.25 End Date: 2007.11.25
Start Time: 02:00:11 End Time: 10:08:35

Capacity: 7000.00 psig
Last Calib.: 2007.11.25
Time On Btm: 2007.11.25 @ 04:03:06
Time Off Btm: 2007.11.25 @ 08:02:35

TEST COMMENT: IFP 1/4 " bl to 1 3/4 " bl
FFP 1/4 " bl to 1 1/4 " bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.94	91.92	Initial Hydro-static
4	28.23	90.63	Open To Flow (1)
19	44.08	91.63	Shut-In(1)
78	970.47	94.77	End Shut-In(1)
79	49.45	94.14	Open To Flow (2)
139	74.41	95.69	Shut-In(2)
234	899.87	98.68	End Shut-In(2)
240	1660.34	100.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OCM 10%O 90%M	0.44
0.00	90 ' GIP	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste. 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 30194 **DST#: 2**

Test Start: 2007.11.25 @ 02:00:11

Tool Information

Drill Pipe:	Length:	3314.00 ft	Diameter:	3.80 inches	Volume:	46.49 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	182.00 ft	Diameter:	2.25 inches	Volume:	0.90 bbl	
					Total Volume:	47.39 bbl	

Drill Pipe Above KB:	15.00 ft
Depth to Top Packer:	3504.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	126.00 ft
Tool Length:	149.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	70000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	58000.00 lb
Final	58000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3482.00		
Shut In Tool	5.00			3487.00		
Hydraulic tool	5.00			3492.00		
Safety Joint	2.00			3494.00		
Packer	5.00			3499.00	23.00	Bottom Of Top Packer
Packer	5.00			3504.00		
Stubb	1.00			3505.00		
Perforations	3.00			3508.00		
Recorder	0.00	6672	Inside	3508.00		
Recorder	0.00	8365	Outside	3508.00		
Change Over Sub	1.00			3509.00		
Blank Spacing	94.00			3603.00		
Change Over Sub	1.00			3604.00		
Perforations	23.00			3627.00		
Bullnose	3.00			3630.00	126.00	Bottom Packers & Anchor
Total Tool Length:	**149.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste. 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 30194 **DST#: 2**

Test Start: 2007.11.25 @ 02:00:11

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.72 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

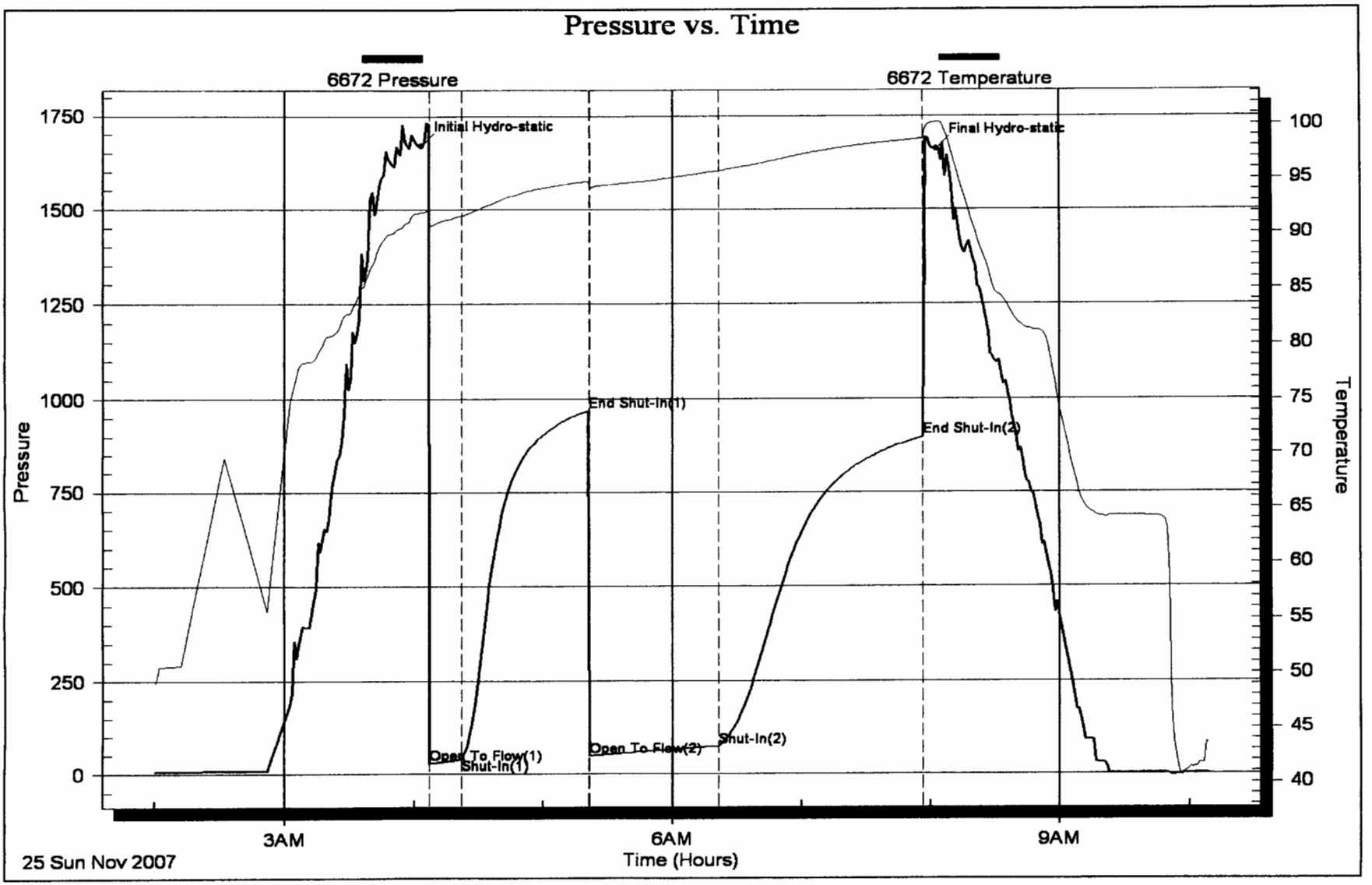
Recovery Information

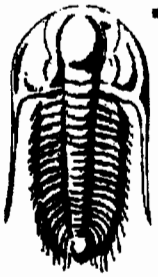
Recovery Table

Length ft	Description	Volume bbl
90.00	OCM 10%O 90%M	0.443
0.00	90 ' GIP	0.000

Total Length: 90.00 ft Total Volume: 0.443 bbl

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


Pressure vs. Time
6672 Pressure
6672 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
100
95
90
85
80
75
70
65
60
55
50
45
40
3AM
6AM
9AM
25 Sun Nov 2007
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

12 22 13 Stafford KS

M. Drach #2-12

Start Date: 2007.11.25 @ 21:11:55
End Date: 2007.11.26 @ 04:59:19
Job Ticket #: 28062 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 Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 28062 **DST#: 3**

Test Start: 2007.11.25 @ 21:11:55

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:12:50
Time Test Ended: 04:59:19

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 42

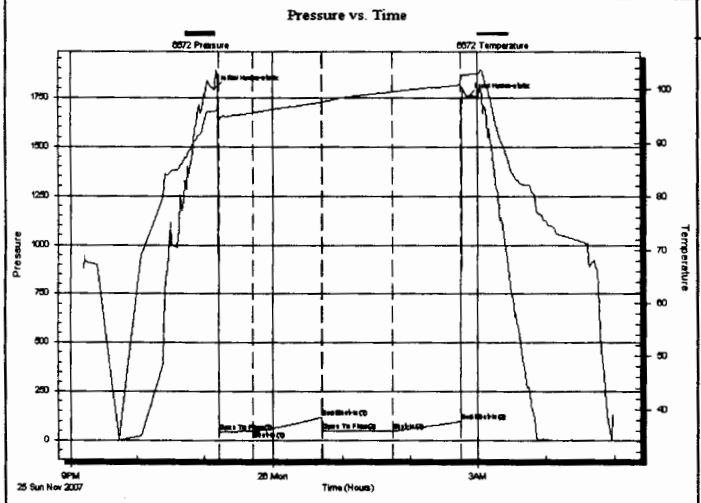
Interval: 3689.00 ft (KB) To 3755.00 ft (KB) (TVD)
Total Depth: 3755.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1912.00 ft (KB)
1902.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6672 **Inside**
Press@RunDepth: 48.88 psig @ 3694.00 ft (KB)
Start Date: 2007.11.25 End Date: 2007.11.26
Start Time: 21:11:55 End Time: 04:59:19

Capacity: 7000.00 psig
Last Calib.: 2007.11.26
Time On Btm: 2007.11.25 @ 23:09:20
Time Off Btm: 2007.11.26 @ 02:51:19

TEST COMMENT: IFP Wk bl thru-out 1/4 " to 1 " bl
FFP Wk bl thru-out 1/2 " to 1 " bl
Times 30 60 60 60
No bl on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.88	95.87	Initial Hydro-static
4	44.38	94.21	Open To Flow (1)
34	48.05	95.67	Shut-In(1)
93	120.13	97.61	End Shut-In(1)
94	46.67	97.68	Open To Flow (2)
155	48.88	99.60	Shut-In(2)
216	100.01	100.96	End Shut-In(2)
222	1754.43	102.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 5%O 95%M	0.15
0.00	30 ' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 28062 **DST#: 3**

Test Start: 2007.11.25 @ 21:11:55

Tool Information

Drill Pipe:	Length:	3509.00 ft	Diameter:	3.80 inches	Volume:	49.22 bbl	Tool Weight:	2500.00 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:	182.00 ft	Diameter:	2.25 inches	Volume:	0.90 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	50.12 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		25.00 ft					String Weight: Initial	60000.00 lb
Depth to Top Packer:		3689.00 ft					Final	60000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		72.00 ft						
Tool Length:		95.00 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			3667.00		
Shut In Tool	5.00			3672.00		
Hydraulic tool	5.00			3677.00		
Safety Joint	2.00			3679.00		
Packer	5.00			3684.00	23.00	Bottom Of Top Packer
Packer	5.00			3689.00		
Stubb	1.00			3690.00		
Perforations	4.00			3694.00		
Recorder	0.00	6672	Inside	3694.00		
Recorder	0.00	8365	Outside	3694.00		
Change Over Sub	1.00			3695.00		
Blank Spacing	33.00			3728.00		
Change Over Sub	1.00			3729.00		
Perforations	29.00			3758.00		
Bullnose	3.00			3761.00	72.00	Bottom Packers & Anchor
Total Tool Length:	**95.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 28062 **DST#: 3**

Test Start: 2007.11.25 @ 21:11:55

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:	8.71 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6700.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

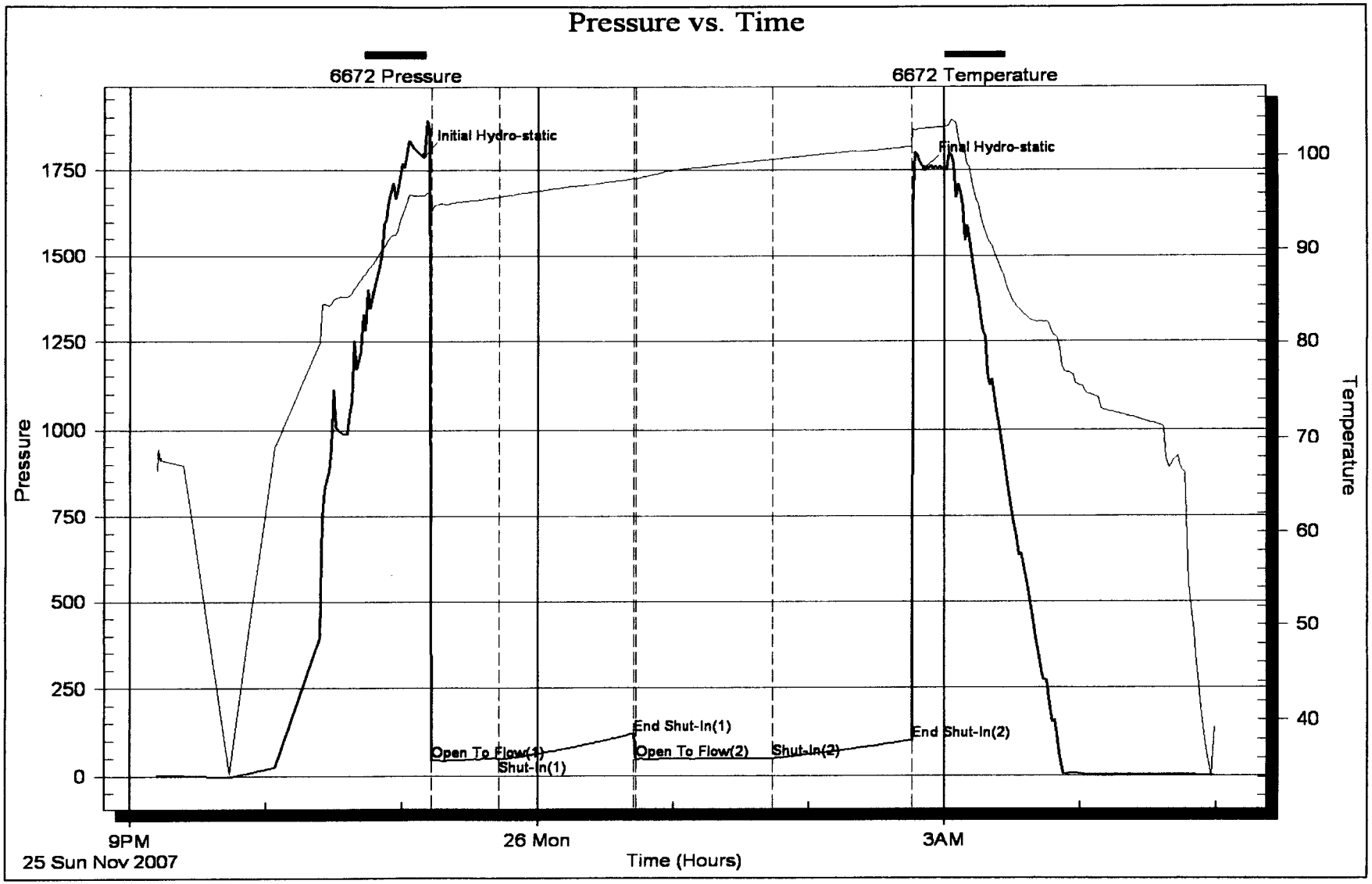
Length ft	Description	Volume bbl
30.00	SOCM 5%O 95%M	0.148
0.00	30 ' GIP	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6672 Pressure
6672 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
40
9PM
25 Sun Nov 2007
26 Mon
3AM
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

12 22 13 Stafford KS

M. Drach #2-12

Start Date: 2007.11.26 @ 15:27:29

End Date: 2007.11.26 @ 22:16:53

Job Ticket #: 28063 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 28063 **DST#: 4**

Test Start: 2007.11.26 @ 15:27:29

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:14:54
Time Test Ended: 22:16:53

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 42

Interval: 3752.00 ft (KB) To 3765.00 ft (KB) (TVD)
Total Depth: 3765.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

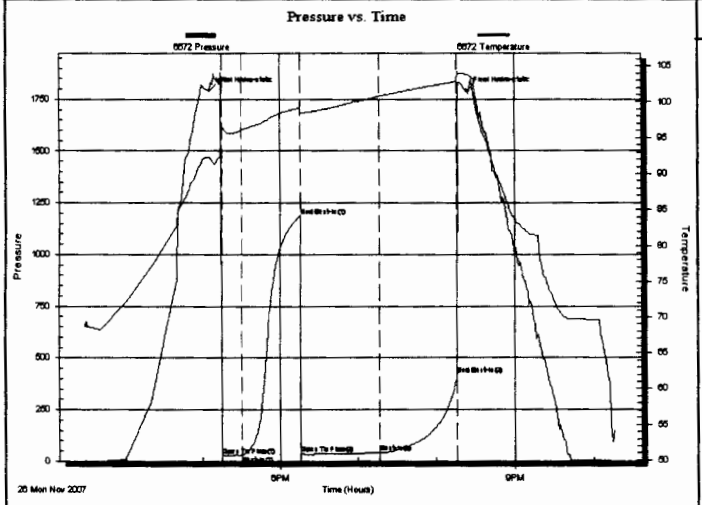
Reference Elevations: 1912.00 ft (KB)
1902.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6672 **Inside**

Press@RunDepth: 39.31 psig @ 3757.00 ft (KB)
Start Date: 2007.11.26 End Date: 2007.11.26
Start Time: 15:27:29 End Time: 22:16:53

Capacity: 7000.00 psig
Last Calib.: 2007.11.26
Time On Btm: 2007.11.26 @ 17:05:24
Time Off Btm: 2007.11.26 @ 20:23:23

TEST COMMENT: IFP Wk bl thru-out 11/4 " bl
FFP Wk bl thru-out 1 " to1 1/2 " bl
Times 15 45 60 60
No bl on shut-in slid tool approx 3 ' to bottom



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1792.32	92.35	Initial Hydro-static
10	28.48	95.80	Open To Flow (1)
25	29.02	96.06	Shut-In(1)
70	1184.79	99.18	End Shut-In(1)
71	35.59	98.31	Open To Flow (2)
131	39.31	100.78	Shut-In(2)
191	419.64	102.89	End Shut-In(2)
198	1790.83	103.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	O&GCM 10%G 20%O 70%M	0.15
0.00	120 ' GIP	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 28063 **DST#: 4**

Test Start: 2007.11.26 @ 15:27:29

Tool Information

Drill Pipe:	Length:	3573.00 ft	Diameter:	3.80 inches	Volume:	50.12 bbl	Tool Weight:		2500.00 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:	182.00 ft	Diameter:	2.25 inches	Volume:	0.90 bbl	Weight to Pull Loose:		90000.00 lb
					Total Volume:	51.02 bbl	Tool Chased		3.00 ft
Drill Pipe Above KB:		26.00 ft					String Weight:	Initial	60000.00 lb
Depth to Top Packer:		3752.00 ft						Final	60000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		13.00 ft							
Tool Length:		36.00 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			3730.00		
Shut In Tool	5.00			3735.00		
Hydraulic tool	5.00			3740.00		
Safety Joint	2.00			3742.00		
Packer	5.00			3747.00	23.00	Bottom Of Top Packer
Packer	5.00			3752.00		
Stubb	1.00			3753.00		
Perforations	4.00			3757.00		
Recorder	0.00	6672	Inside	3757.00		
Recorder	0.00	8365	Outside	3757.00		
Perforations	5.00			3762.00		
Bullnose	3.00			3765.00	13.00	Bottom Packers & Anchor
Total Tool Length:	**36.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 28063 **DST#: 4**

Test Start: 2007.11.26 @ 15:27:29

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:	57.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.33 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8700.00 ppm				
Filter Cake:	2.00 inches				

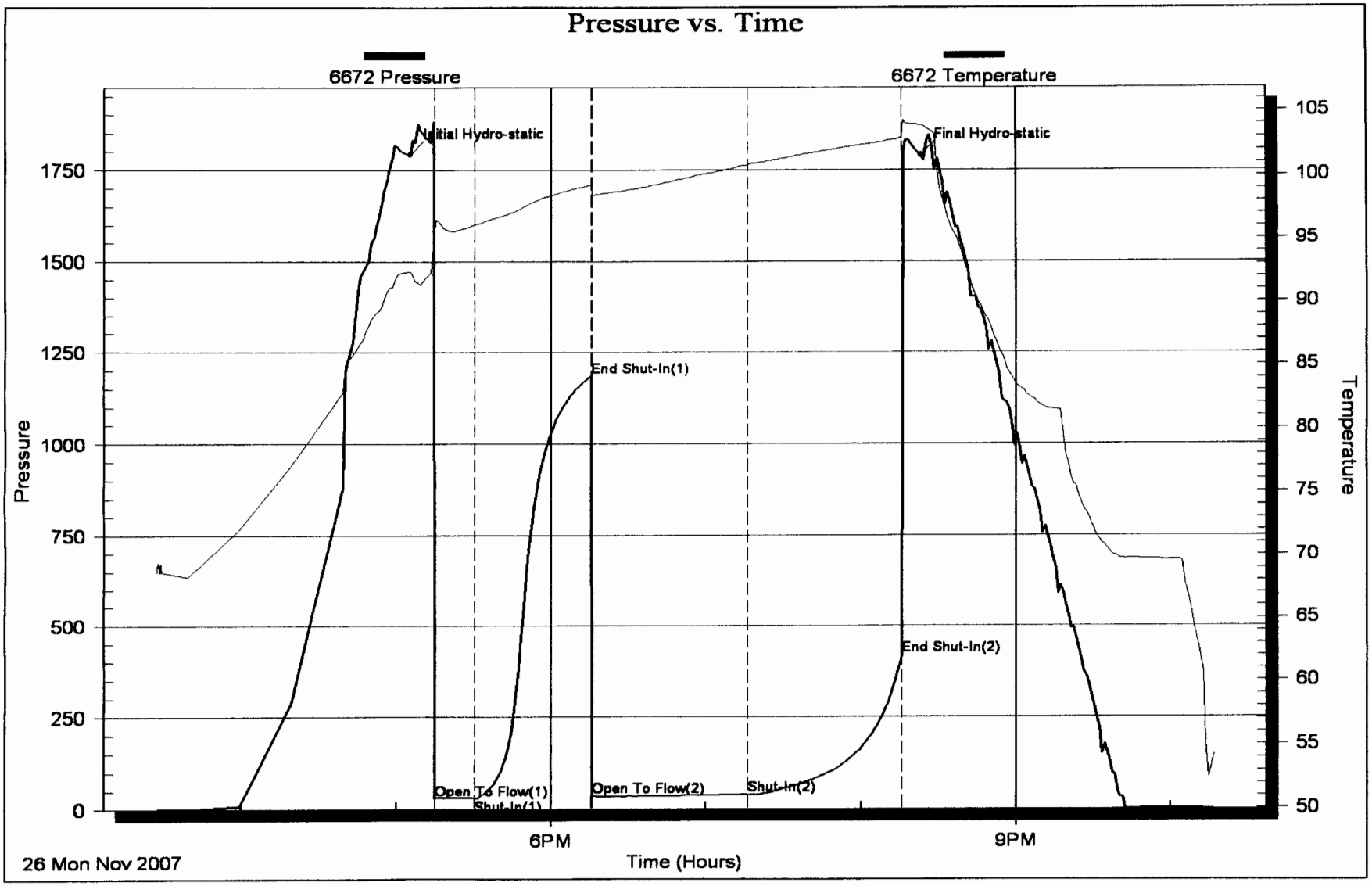
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	O&GCM 10%G 20%O 70%M	0.148
0.00	120 ' GIP	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl

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


Pressure vs. Time
6672 Pressure
6672 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
Time (Hours)
6PM
9PM
26 Mon Nov 2007
0
250
500
750
1000
1250
1500
1750
50
55
60
65
70
75
80
85
90
95
100
105



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drlling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

12 22 13 Stafford KS

M. Drach #2-12

Start Date: 2007.11.27 @ 05:09:55

End Date: 2007.11.27 @ 12:56:19

Job Ticket #: 28064 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 28064 **DST#: 5**

Test Start: 2007.11.27 @ 05:09:55

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:13:50
Time Test Ended: 12:56:19

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 42

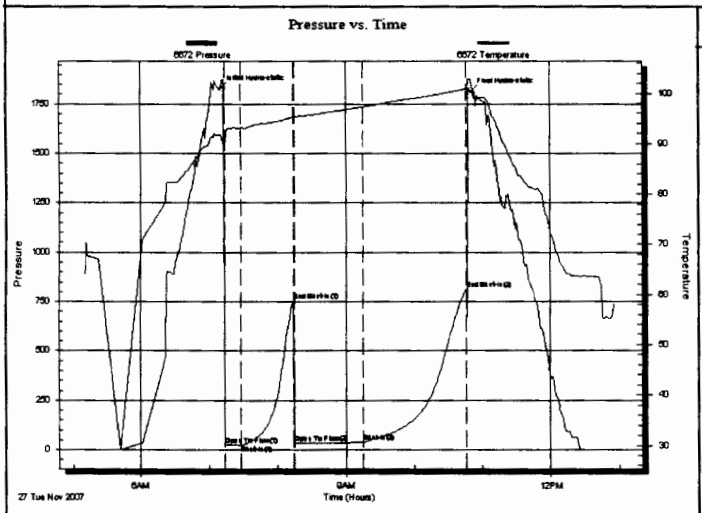
Interval: 3761.00 ft (KB) To 3780.00 ft (KB) (TVD)
Total Depth: 3780.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1912.00 ft (KB)
1902.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6672 **Inside**
Press@RunDepth: 38.98 psig @ 3762.00 ft (KB)
Start Date: 2007.11.27 End Date: 2007.11.27
Start Time: 05:09:55 End Time: 12:56:19

Capacity: 7000.00 psig
Last Calib.: 2007.11.27
Time On Btm: 2007.11.27 @ 07:10:20
Time Off Btm: 2007.11.27 @ 10:50:49

TEST COMMENT: IFP Wk bl thru-out 1/2 " to 1 " bl
FFP Wk bl thru-out 1 " to 1 1/2 " bl
Times 15 45 60 90
No bl on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.98	91.68	Initial Hydro-static
4	23.14	88.55	Open To Flow (1)
18	27.09	93.08	Shut-In(1)
64	757.44	95.23	End Shut-In(1)
65	34.28	94.91	Open To Flow (2)
125	38.98	97.27	Shut-In(2)
216	815.53	100.83	End Shut-In(2)
221	1811.34	102.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	O&GCM 5%G 15%O 80%M	0.05
0.00	170 ' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 28064 **DST#: 5**

Test Start: 2007.11.27 @ 05:09:55

Tool Information

Drill Pipe:	Length:	3571.00 ft	Diameter:	3.80 inches	Volume:	50.09 bbl	Tool Weight:		2500.00 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:	182.00 ft	Diameter:	2.25 inches	Volume:	0.90 bbl	Weight to Pull Loose:		85000.00 lb
					Total Volume:	50.99 bbl	Tool Chased		1.00 ft
Drill Pipe Above KB:		15.00 ft					String Weight:	Initial	59000.00 lb
Depth to Top Packer:		3761.00 ft						Final	59000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		19.00 ft							
Tool Length:		42.00 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			3739.00		
Shut In Tool	5.00			3744.00		
Hydraulic tool	5.00			3749.00		
Safety Joint	2.00			3751.00		
Packer	5.00			3756.00	23.00	Bottom Of Top Packer
Packer	5.00			3761.00		
Stubb	1.00			3762.00		
Recorder	0.00	6672	Inside	3762.00		
Recorder	0.00	8365	Outside	3762.00		
Perforations	15.00			3777.00		
Bullnose	3.00			3780.00	19.00	Bottom Packers & Anchor
Total Tool Length:	**42.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 28064 **DST#: 5**

Test Start: 2007.11.27 @ 05:09:55

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:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.40 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8700.00 ppm				
Filter Cake:	2.00 inches				

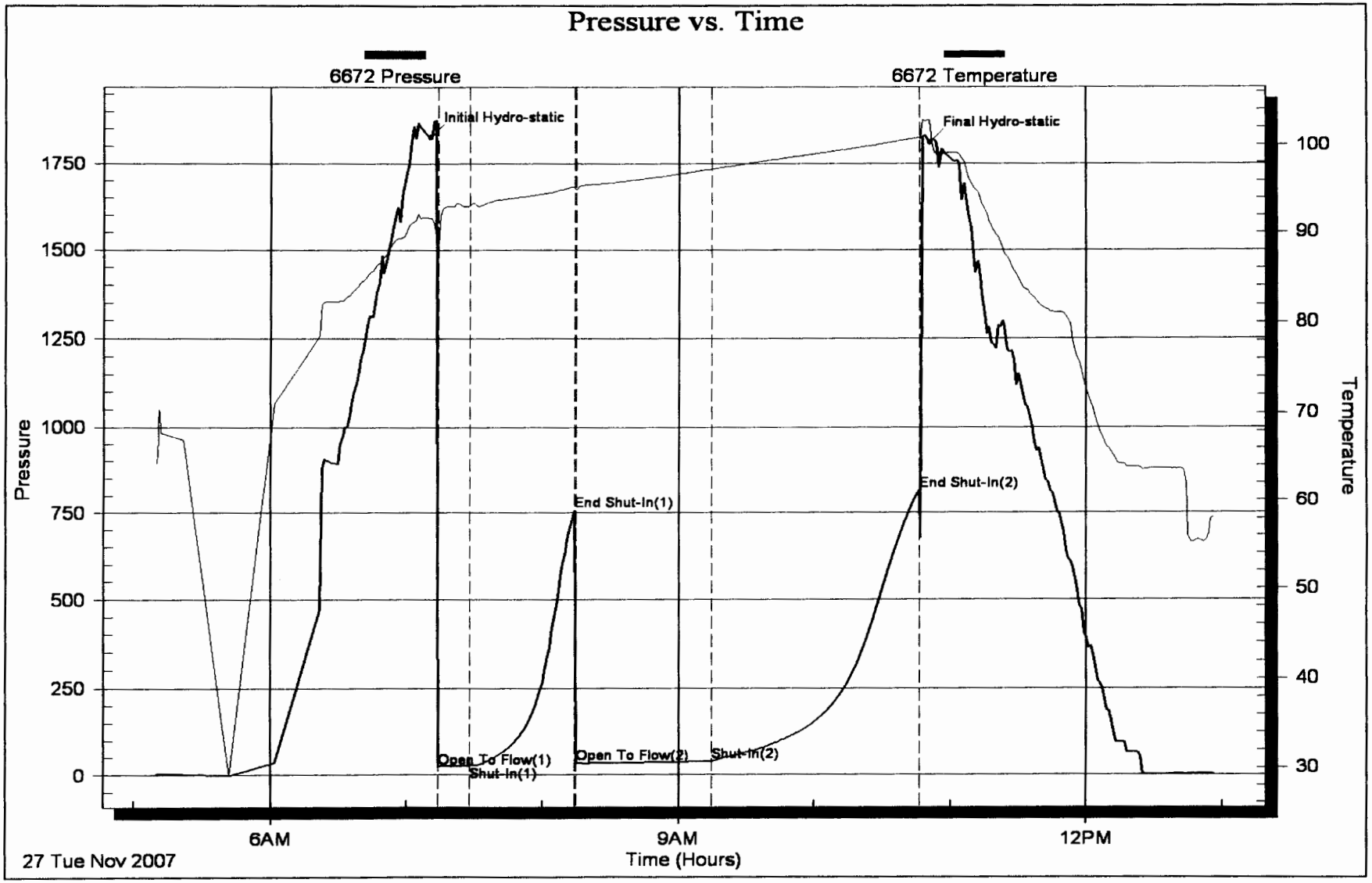
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	O&GCM 5%G 15%O 80%M	0.049
0.00	170 ' GIP	0.000

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:


Pressure vs. Time
6672 Pressure
6672 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
40
30
6AM
9AM
12PM
27 Tue Nov 2007
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drlling Co Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

12 22 13 Stafford KS

M. Drach #2-12

Start Date: 2007.11.27 @ 20:29:23

End Date: 2007.11.28 @ 03:17:17

Job Ticket #: 28065 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2007.11.28 @ 11:37:49 Page 1

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 28065 **DST#: 6**

Test Start: 2007.11.27 @ 20:29:23

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:22:18
Time Test Ended: 03:17:17

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 42

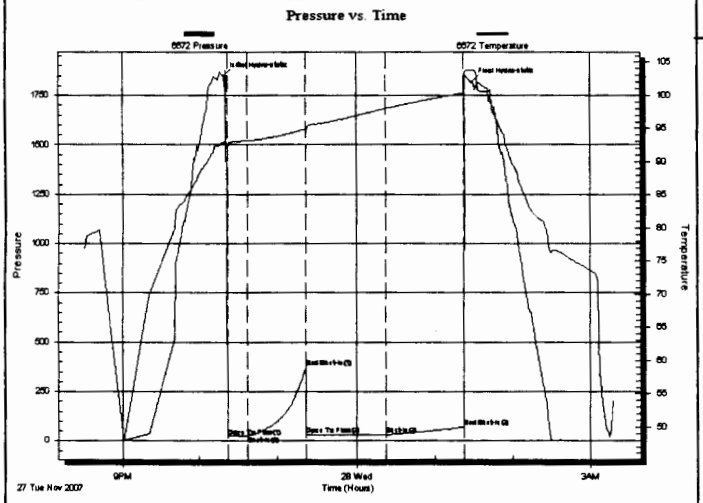
Interval: 3780.00 ft (KB) To 3800.00 ft (KB) (TVD)
Total Depth: 3800.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1912.00 ft (KB)
1902.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6672 **Inside**
Press@RunDepth: 31.01 psig @ 3781.00 ft (KB)
Start Date: 2007.11.27 End Date: 2007.11.28
Start Time: 20:29:23 End Time: 03:17:17

Capacity: 7000.00 psig
Last Calib.: 2007.11.28
Time On Btm: 2007.11.27 @ 22:19:48
Time Off Btm: 2007.11.28 @ 01:28:47

TEST COMMENT: IFP Wk bl thru-out 1/2 " to 1 " bl
FFP Wk bl thru-out 1/2 " to 3/4 " bl
Times 15 45 60 60
No bl on shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1847.28	92.96	Initial Hydro-static
3	23.48	91.87	Open To Flow (1)
18	25.72	93.17	Shut-In(1)
62	369.66	94.89	End Shut-In(1)
62	32.57	94.65	Open To Flow (2)
123	31.01	98.00	Shut-In(2)
183	70.84	100.33	End Shut-In(2)
189	1818.10	103.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM 6%O 94%M	0.10
0.00	40'GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 28065 **DST#: 6**

Test Start: 2007.11.27 @ 20:29:23

Tool Information

Drill Pipe:	Length:	3605.00 ft	Diameter:	3.80 inches	Volume:	50.57 bbl	Tool Weight:		2500.00 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:	182.00 ft	Diameter:	2.25 inches	Volume:	0.90 bbl	Weight to Pull Loose:		85000.00 lb
					Total Volume:	51.47 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight:	Initial	60000.00 lb
Depth to Top Packer:		3780.00 ft						Final	60000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		20.00 ft							
Tool Length:		43.00 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			3758.00		
Shut In Tool	5.00			3763.00		
Hydraulic tool	5.00			3768.00		
Safety Joint	2.00			3770.00		
Packer	5.00			3775.00	23.00	Bottom Of Top Packer
Packer	5.00			3780.00		
Stubb	1.00			3781.00		
Recorder	0.00	6672	Inside	3781.00		
Recorder	0.00	8365	Outside	3781.00		
Perforations	16.00			3797.00		
Bullnose	3.00			3800.00	20.00	Bottom Packers & Anchor
Total Tool Length:	**43.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: David Doyal

M. Drach #2-12

12 22 13 Stafford KS

Job Ticket: 28065 **DST#: 6**

Test Start: 2007.11.27 @ 20:29:23

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:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	10000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

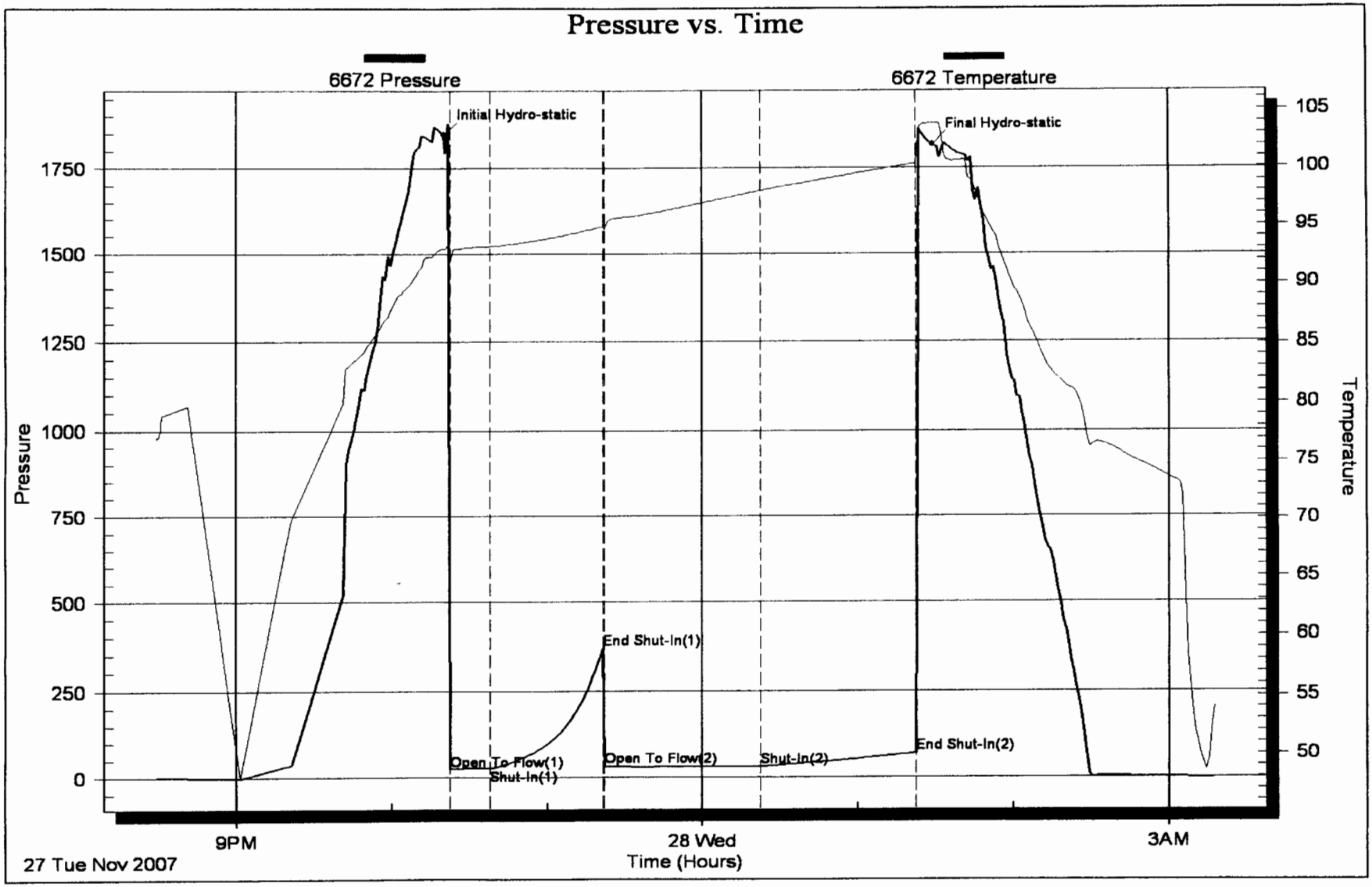
Length ft	Description	Volume bbl
20.00	OCM 6%O 94%M	0.098
0.00	40'GIP	0.000

Total Length: 20.00 ft Total Volume: 0.098 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6672 Pressure
6672 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
105
100
95
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85
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Time (Hours)