15-023-21210 32-2s-41w KCS

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc**

250 N.Water
Suite 300
Wichita, KS 67202

ATTN: Brad Rine

32 2S 41WCheyenne,KS

Raile #11-32

Start Date: 2009.02.05 @ 21:42:05
End Date: 2009.02.06 @ 06:18:05
Job Ticket #: 34188 DST #: 1

15-023-21210-0000

KANSAS CORPORATION COMMISSION
JUN 0 3 2009
RECEIVED

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Murfin Drilling Co., Inc
Raile #11-32
32 2S 41WCheyenne,KS
DST # 1
LKC 'A'
2009.02.05

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc

250 N.Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

Raile #11-32

32 2S 41W Cheyenne,KS

Job Ticket: 34188 **DST#: 1**

Test Start: 2009.02.05 @ 21:42:05

GENERAL INFORMATION:

Formation: **LKC 'A'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:49:55
Time Test Ended: 06:18:05

Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37

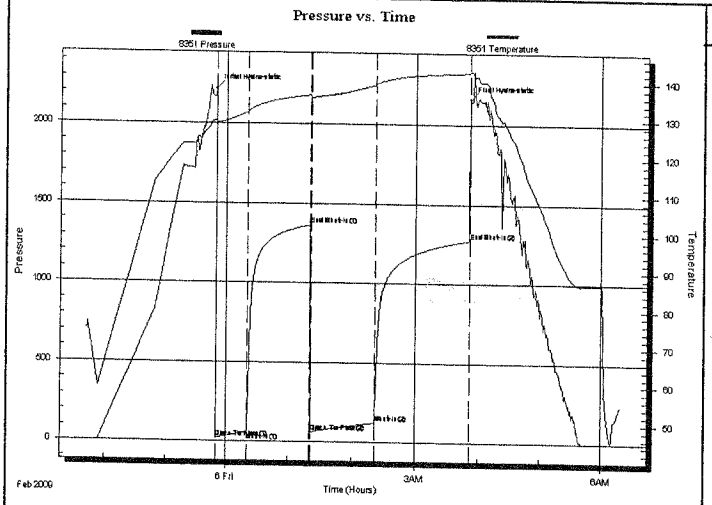
Interval: 4474.00 ft (KB) To 4545.00 ft (KB) (TVD)
Total Depth: 4545.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3671.00 ft (KB)
3666.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8351 **Inside**
Press@RunDepth: 120.98 psig @ 4477.00 ft (KB)
Start Date: 2009.02.05 End Date: 2009.02.06
Start Time: 21:42:06 End Time: 06:18:05

Capacity: 7000.00 psig
Last Calib.: 2009.02.06
Time On Btm: 2009.02.05 @ 23:49:25
Time Off Btm: 2009.02.06 @ 03:52:20

TEST COMMENT: IF: 3" Blow.
ISI: No return.
FF: 3" Blow.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2219.32	129.62	Initial Hydro-static
1	19.92	128.59	Open To Flow (1)
32	56.83	131.84	Shut-In(1)
92	1362.17	136.37	End Shut-In(1)
92	60.76	135.71	Open To Flow (2)
153	120.98	139.14	Shut-In(2)
243	1271.45	142.46	End Shut-In(2)
243	2161.98	142.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	DM 100%M	0.89
60.00	Oil spotted mud 100%M	0.30
0.00	Feet 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
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

Raile #11-32

32 2S 41WCheyenne,KS

Job Ticket: 34188 **DST#: 1**

Test Start: 2009.02.05 @ 21:42:05

Tool Information

Drill Pipe:	Length:	3930.00 ft	Diameter:	3.80 inches	Volume:	55.13 bbl	Tool Weight:		2700.00 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:	547.00 ft	Diameter:	2.25 inches	Volume:	2.69 bbl	Weight to Pull Loose:		100000.0 lb
					Total Volume:	57.82 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		30.50 ft					String Weight:	Initial	75000.00 lb
Depth to Top Packer:		4474.00 ft						Final	76000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		71.00 ft							
Tool Length:		98.50 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			4447.50		
Shut In Tool	5.00			4452.50		
Hydraulic tool	5.00			4457.50		
Jars	5.00			4462.50		
Safety Joint	2.50			4465.00		
Packer	5.00			4470.00	27.50	Bottom Of Top Packer
Packer	4.00			4474.00		
Stubb	1.00			4475.00		
Perforations	2.00			4477.00		
Recorder	0.00	8359	Inside	4477.00		
Recorder	0.00	8351	Inside	4477.00		
Change Over Sub	1.00			4478.00		
Drill Pipe	61.00			4539.00		
Change Over Sub	1.00			4540.00		
Bullnose	5.00			4545.00	71.00	Bottom Packers & Anchor
Total Tool Length:	**98.50**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc

250 N.Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

Raile #11-32

32 2S 41W Cheyenne, KS

Job Ticket: 34188 **DST#: 1**

Test Start: 2009.02.05 @ 21:42:05

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.98 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	600.00 ppm				
Filter Cake:	2.00 inches				

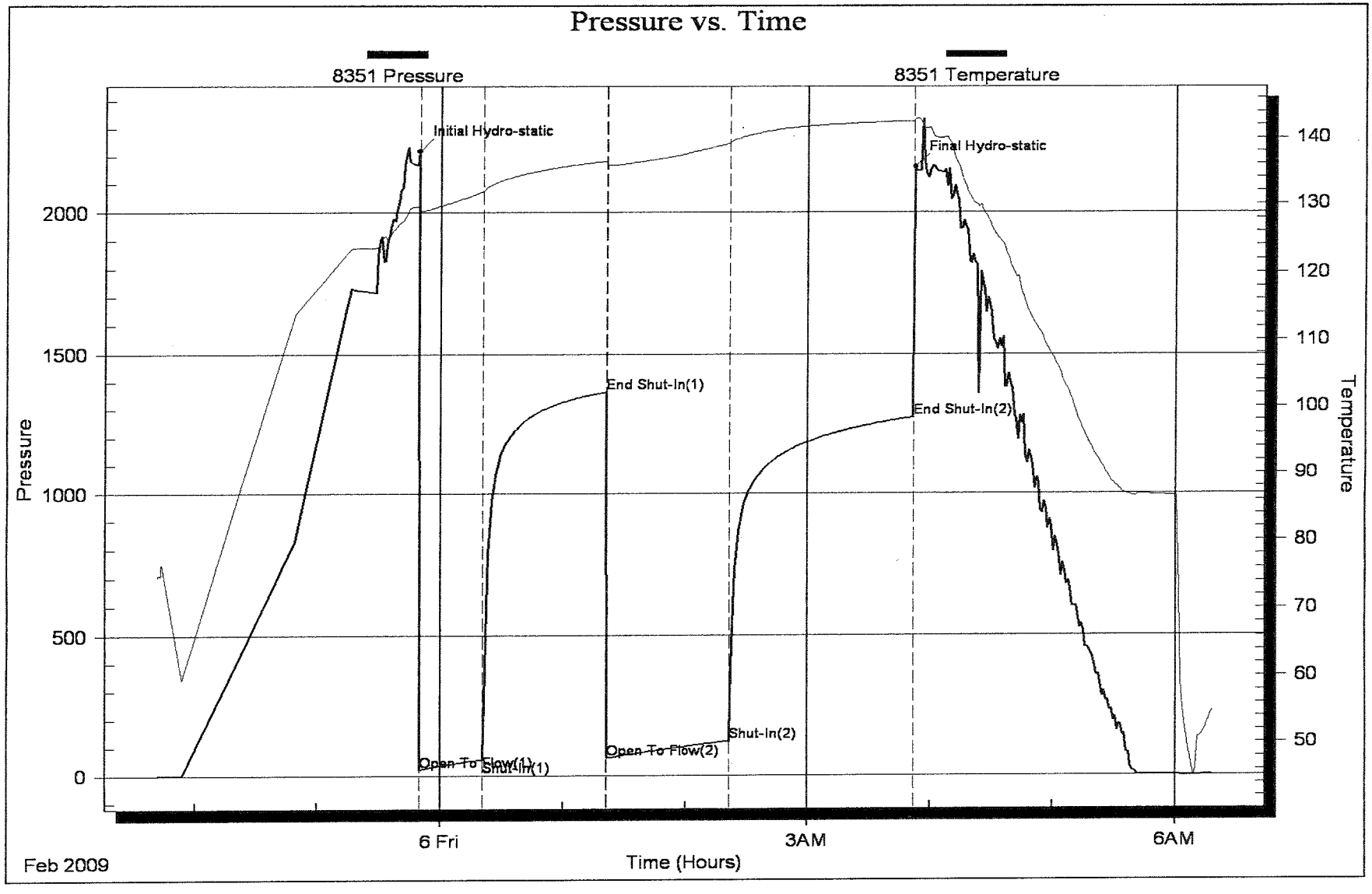
Recovery Information

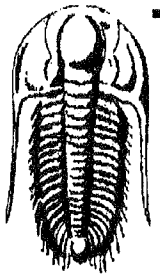
Recovery Table

Length ft	Description	Volume bbl
180.00	DM 100%M	0.885
60.00	Oil spotted mud 100%M	0.295
0.00	Feet GIP	0.000

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:


Pressure vs. Time
8351 Pressure
8351 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)
2000
1500
1000
500
0
Pressure
140
130
120
110
100
90
80
70
60
50
Temperature
6 Fri
3AM
6AM
Feb 2009
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc**

250 N.Water
Suite 300
Wichita, KS 67202

ATTN: Brad Rine

32 2S 41WCheyenne,KS

Raile #11-32

Start Date: 2009.02.06 @ 17:45:00

End Date: 2009.02.07 @ 02:13:50

Job Ticket #: 34189 DST #: 2

KANSAS CORPORATION COMMISSION
JUN 0 3 2009
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Trilobite Testing, Inc
PO Box 1733 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
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

Raile #11-32

32 2S 41WCheyenne,KS

Job Ticket: 34189 **DST#: 2**

Test Start: 2009.02.06 @ 17:45:00

GENERAL INFORMATION:

Formation: **LKC 'D'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:48:50
Time Test Ended: 02:13:50

Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37

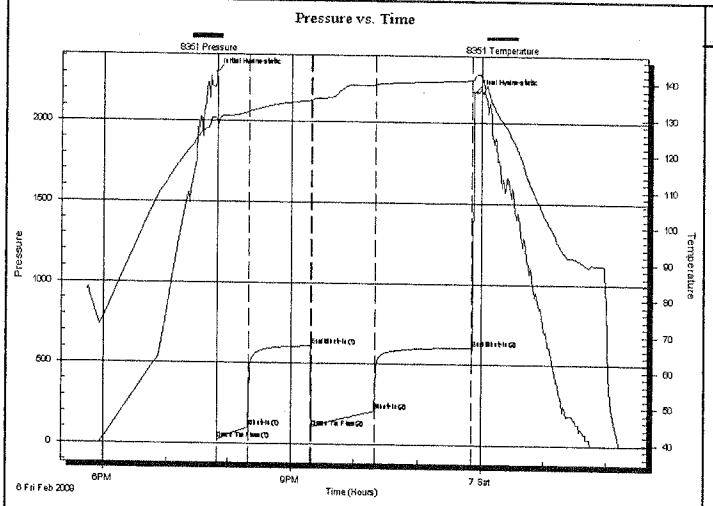
Interval: 4553.00 ft (KB) To 4630.00 ft (KB) (TVD)
Total Depth: 4630.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3671.00 ft (KB)
3666.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8351 **Inside**
Press@RunDepth: 207.15 psig @ 4562.00 ft (KB)
Start Date: 2009.02.06 End Date: 2009.02.07
Start Time: 17:45:01 End Time: 02:13:50

Capacity: 7000.00 psig
Last Calib.: 2009.02.07
Time On Btm: 2009.02.06 @ 19:48:10
Time Off Btm: 2009.02.06 @ 23:52:30

TEST COMMENT: IF: 6" Blow.
ISI: No return.
FF: 6" Blow.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2301.30	129.50	Initial Hydro-static
1	22.19	127.77	Open To Flow (1)
31	100.18	131.64	Shut-In(1)
91	608.59	134.97	End Shut-In(1)
92	104.72	134.70	Open To Flow (2)
152	207.15	139.47	Shut-In(2)
243	606.11	140.84	End Shut-In(2)
245	2188.68	141.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OCM 5%O 95%M	0.61
248.00	OCM 12%O 88%M	1.22
40.00	MCO 40%M 60%O	0.20
0.00	0 Feet 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
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

Raile #11-32

32 2S 41WCheyenne,KS

Job Ticket: 34189 **DST#: 2**

Test Start: 2009.02.06 @ 17:45:00

Tool Information

Drill Pipe:	Length:	3993.00 ft	Diameter:	3.80 inches	Volume:	56.01 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	547.00 ft	Diameter:	2.25 inches	Volume:	2.69 bbl	
					Total Volume:	58.70 bbl	

Drill Pipe Above KB:	14.50 ft
Depth to Top Packer:	4553.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	77.00 ft
Tool Length:	104.50 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2700.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	98000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	72000.00 lb
Final	74000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4526.50		
Shut In Tool	5.00			4531.50		
Hydraulic tool	5.00			4536.50		
Jars	5.00			4541.50		
Safety Joint	2.50			4544.00		
Packer	5.00			4549.00	27.50	Bottom Of Top Packer
Packer	4.00			4553.00		
Stubb	1.00			4554.00		
Perforations	8.00			4562.00		
Recorder	0.00	8359	Inside	4562.00		
Recorder	0.00	8351	Inside	4562.00		
Change Over Sub	1.00			4563.00		
Drill Pipe	61.00			4624.00		
Change Over Sub	1.00			4625.00		
Bullnose	5.00			4630.00	77.00	Bottom Packers & Anchor
Total Tool Length:	**104.50**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc

250 N.Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

Raile #11-32

32 2S 41WCheyenne,KS

Job Ticket: 34189 **DST#: 2**

Test Start: 2009.02.06 @ 17:45:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.98 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	800.00 ppm				
Filter Cake:	2.00 inches				

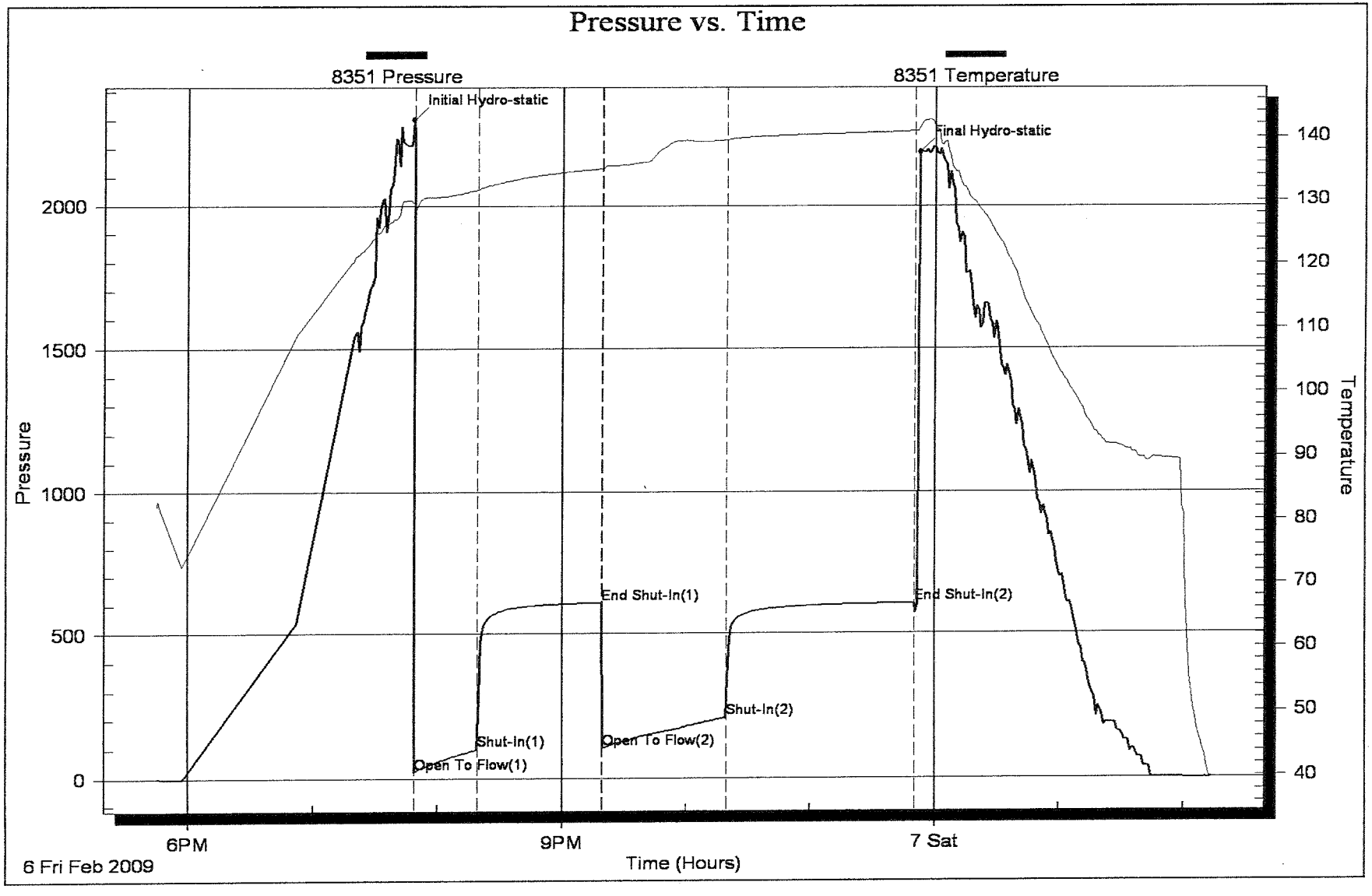
Recovery Information

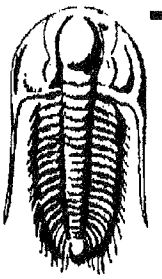
Recovery Table

Length ft	Description	Volume bbl
124.00	OCM 5%O 95%M	0.610
248.00	OCM 12%O 88%M	1.220
40.00	MCO 40%M 60%O	0.197
0.00	0 Feet GIP	0.000

Total Length: 412.00 ft Total Volume: 2.027 bbl

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


Pressure vs. Time
8351 Pressure
8351 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
2000
1500
1000
500
0
140
130
120
110
100
90
80
70
60
50
40
6PM
9PM
7 Sat
6 Fri Feb 2009
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc**

250 N.Water
Suite 300
Wichita, KS 67202

ATTN: Brad Rine

32 2S 41WCheyenne,KS

Raile #11-32

Start Date: 2009.02.07 @ 19:23:00

End Date: 2009.02.08 @ 02:27:00

Job Ticket #: 34190 DST #: 3

KANSAS CORPORATION COMMISSION
JUN 0 3 2009
RECEIVED

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc

250 N.Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

Raile #11-32

32 2S 41WCheyenne,KS

Job Ticket: 34190 **DST#: 3**

Test Start: 2009.02.07 @ 19:23:00

GENERAL INFORMATION:

Formation: **LKC 'H,J'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:10:20
Time Test Ended: 02:27:00

Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37

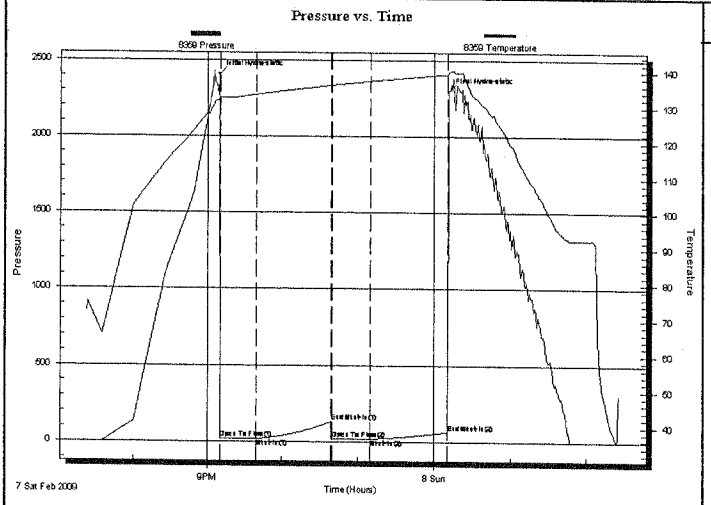
Interval: 4676.00 ft (KB) To 4770.00 ft (KB) (TVD)
Total Depth: 4770.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3671.00 ft (KB)
3666.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8359 **Inside**
Press@RunDepth: 20.13 psig @ 4702.00 ft (KB)
Start Date: 2009.02.07 End Date: 2009.02.08
Start Time: 19:23:05 End Time: 02:26:59

Capacity: 7000.00 psig
Last Calib.: 2009.02.08
Time On Btm: 2009.02.07 @ 21:09:40
Time Off Btm: 2009.02.08 @ 00:10:50

TEST COMMENT: IF: 1" Blow receded to 1/2".
ISI: No return.
FF: No blow.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2405.85	132.46	Initial Hydro-static
1	17.52	132.33	Open To Flow (1)
30	19.40	133.52	Shut-In(1)
90	130.43	136.17	End Shut-In(1)
90	19.15	136.18	Open To Flow (2)
120	20.13	137.34	Shut-In(2)
181	65.52	139.32	End Shut-In(2)
182	2299.15	139.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	DM 100%M	0.05

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
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

Raile #11-32

32 2S 41WCheyenne,KS

Job Ticket: 34190 **DST#: 3**

Test Start: 2009.02.07 @ 19:23:00

Tool Information

Drill Pipe:	Length:	4118.00 ft	Diameter:	3.80 inches	Volume:	57.76 bbl	Tool Weight:	2700.00 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:	547.00 ft	Diameter:	2.25 inches	Volume:	2.69 bbl	Weight to Pull Loose:	105000.0 lb	
					Total Volume:	60.45 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:		16.50 ft					String Weight: Initial	80000.00 lb	
Depth to Top Packer:		4676.00 ft					Final	80000.00 lb	
Depth to Bottom Packer:		ft							
Interval betw een Packers:		94.00 ft							
Tool Length:		121.50 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			4649.50		
Shut In Tool	5.00			4654.50		
Hydraulic tool	5.00			4659.50		
Jars	5.00			4664.50		
Safety Joint	2.50			4667.00		
Packer	5.00			4672.00	27.50	Bottom Of Top Packer
Packer	4.00			4676.00		
Stubb	1.00			4677.00		
Perforations	25.00			4702.00		
Recorder	0.00	8359	Inside	4702.00		
Recorder	0.00	8351	Inside	4702.00		
Change Over Sub	1.00			4703.00		
Drill Pipe	61.00			4764.00		
Change Over Sub	1.00			4765.00		
Bullnose	5.00			4770.00	94.00	Bottom Packers & Anchor
Total Tool Length:	**121.50**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc

250 N.Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

Raile #11-32

32 2S 41WCheyenne,KS

Job Ticket: 34190 **DST#: 3**

Test Start: 2009.02.07 @ 19:23:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.98 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	900.00 ppm				
Filter Cake:	2.00 inches				

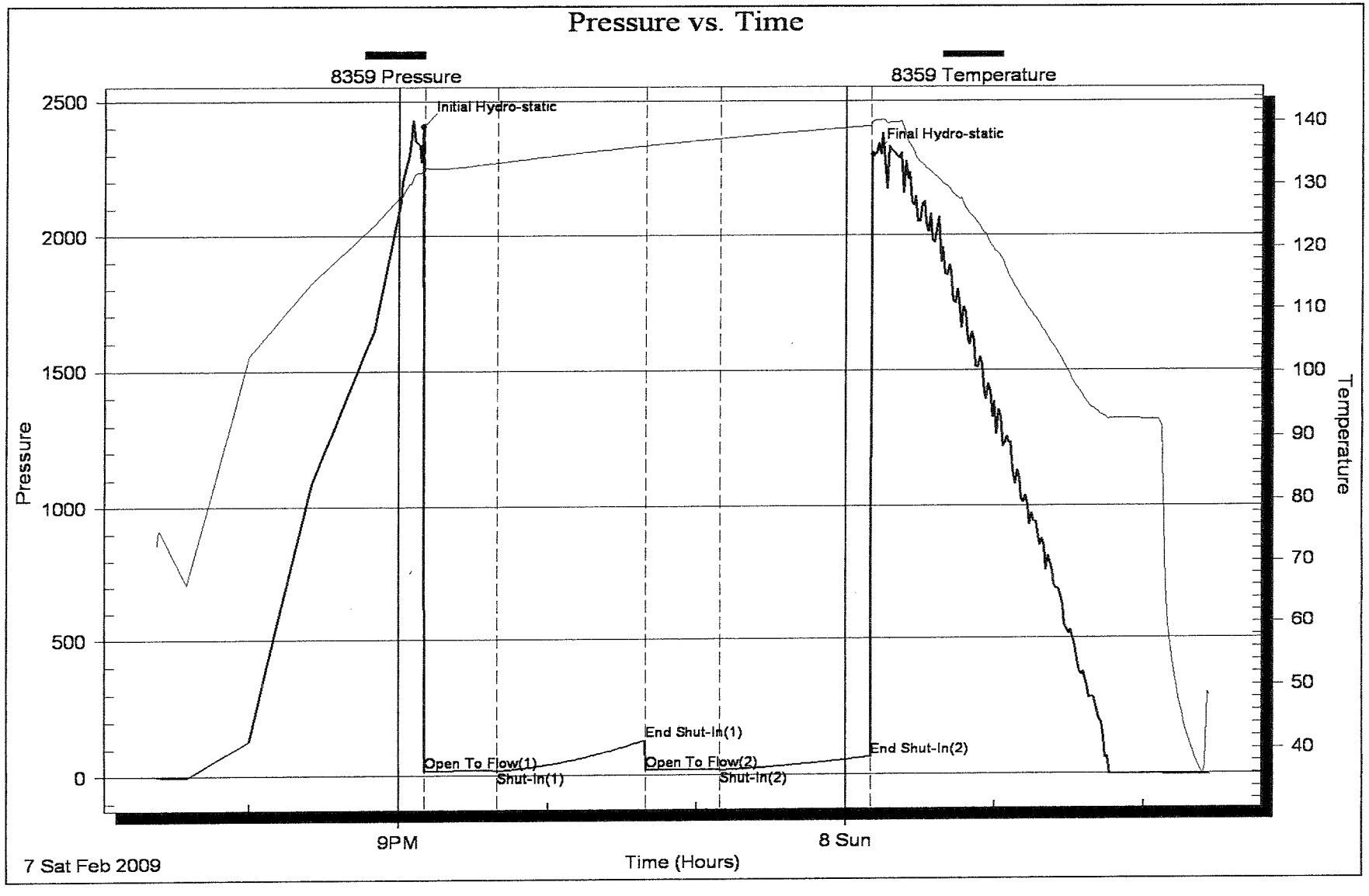
Recovery Information

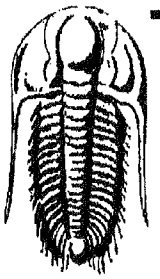
Recovery Table

Length ft	Description	Volume bbl
10.00	DM 100%M	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:


Pressure vs. Time
8359 Pressure
8359 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)
2500
2000
1500
1000
500
0
Pressure
140
130
120
110
100
90
80
70
60
50
40
Temperature
9PM
8 Sun
7 Sat Feb 2009
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc**

250 N.Water
Suite 300
Wichita, KS 67202

ATTN: Brad Rine

32 2S 41WCheyenne,KS

Raile #11-32

Start Date: 2009.02.08 @ 22:35:00

End Date: 2009.02.09 @ 07:01:30

Job Ticket #: 34191 DST #: 4

KANSAS CORPORATION COMMISSION
JUN 0 3 2009
RECEIVED

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc

250 N.Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

Raile #11-32

32 2S 41WCheyenne,KS

Job Ticket: 34191 **DST#: 4**

Test Start: 2009.02.08 @ 22:35:00

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:44:00
Time Test Ended: 07:01:30

Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37

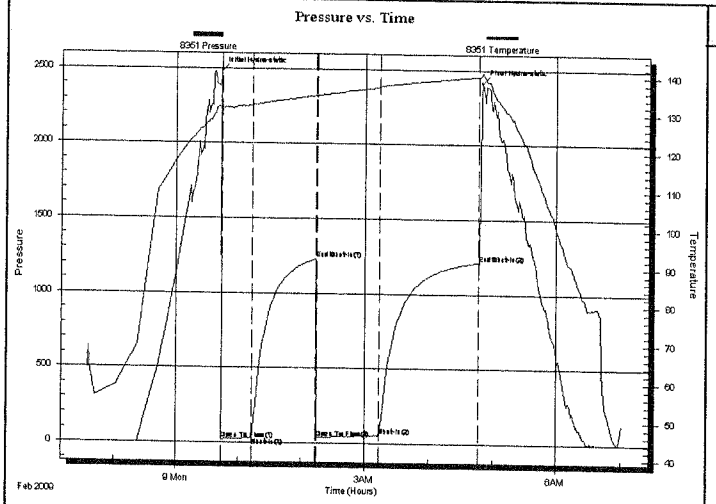
Interval: 4810.00 ft (KB) To 4940.00 ft (KB) (TVD)
Total Depth: 4940.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3671.00 ft (KB)
3666.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8351 **Inside**
Press@RunDepth: 55.16 psig @ 4841.00 ft (KB)
Start Date: 2009.02.08 End Date: 2009.02.09
Start Time: 22:35:01 End Time: 07:01:30

Capacity: 7000.00 psig
Last Calib.: 2009.02.09
Time On Btm: 2009.02.09 @ 00:43:00
Time Off Btm: 2009.02.09 @ 04:49:30

TEST COMMENT: IF: 2" Blow.
ISI: No return.
FF: 1" Blow.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2479.17	131.38	Initial Hydro-static
1	20.93	131.61	Open To Flow (1)
31	32.51	132.22	Shut-In(1)
91	1228.53	134.83	End Shut-In(1)
91	35.54	134.48	Open To Flow (2)
150	55.16	137.07	Shut-In(2)
244	1212.37	139.97	End Shut-In(2)
247	2412.54	140.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	DM 100%M	0.34

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
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

Raile #11-32

32 2S 41W Cheyenne,KS

Job Ticket: 34191 **DST#: 4**

Test Start: 2009.02.08 @ 22:35:00

Tool Information

Drill Pipe:	Length:	4239.00 ft	Diameter:	3.80 inches	Volume:	59.46 bbl	Tool Weight:	2700.00 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:	547.00 ft	Diameter:	2.25 inches	Volume:	2.69 bbl	Weight to Pull Loose:	110000.0 lb
					Total Volume:	62.15 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		3.50 ft					String Weight: Initial	82000.00 lb
Depth to Top Packer:		4810.00 ft					Final	82000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		130.00 ft						
Tool Length:		157.50 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			4783.50		
Shut In Tool	5.00			4788.50		
Hydraulic tool	5.00			4793.50		
Jars	5.00			4798.50		
Safety Joint	2.50			4801.00		
Packer	5.00			4806.00	27.50	Bottom Of Top Packer
Packer	4.00			4810.00		
Stubb	1.00			4811.00		
Perforations	30.00			4841.00		
Recorder	0.00	8359	Inside	4841.00		
Recorder	0.00	8351	Inside	4841.00		
Change Over Sub	1.00			4842.00		
Drill Pipe	92.00			4934.00		
Change Over Sub	1.00			4935.00		
Bullnose	5.00			4940.00	130.00	Bottom Packers & Anchor
Total Tool Length:	**157.50**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc

250 N.Water
Suite 300
Wichita, KS 67202
ATTN: Brad Rine

Raile #11-32

32 2S 41WCheyenne,KS

Job Ticket: 34191 **DST#: 4**

Test Start: 2009.02.08 @ 22:35:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	67.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.39 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	900.00 ppm				
Filter Cake:	2.00 inches				

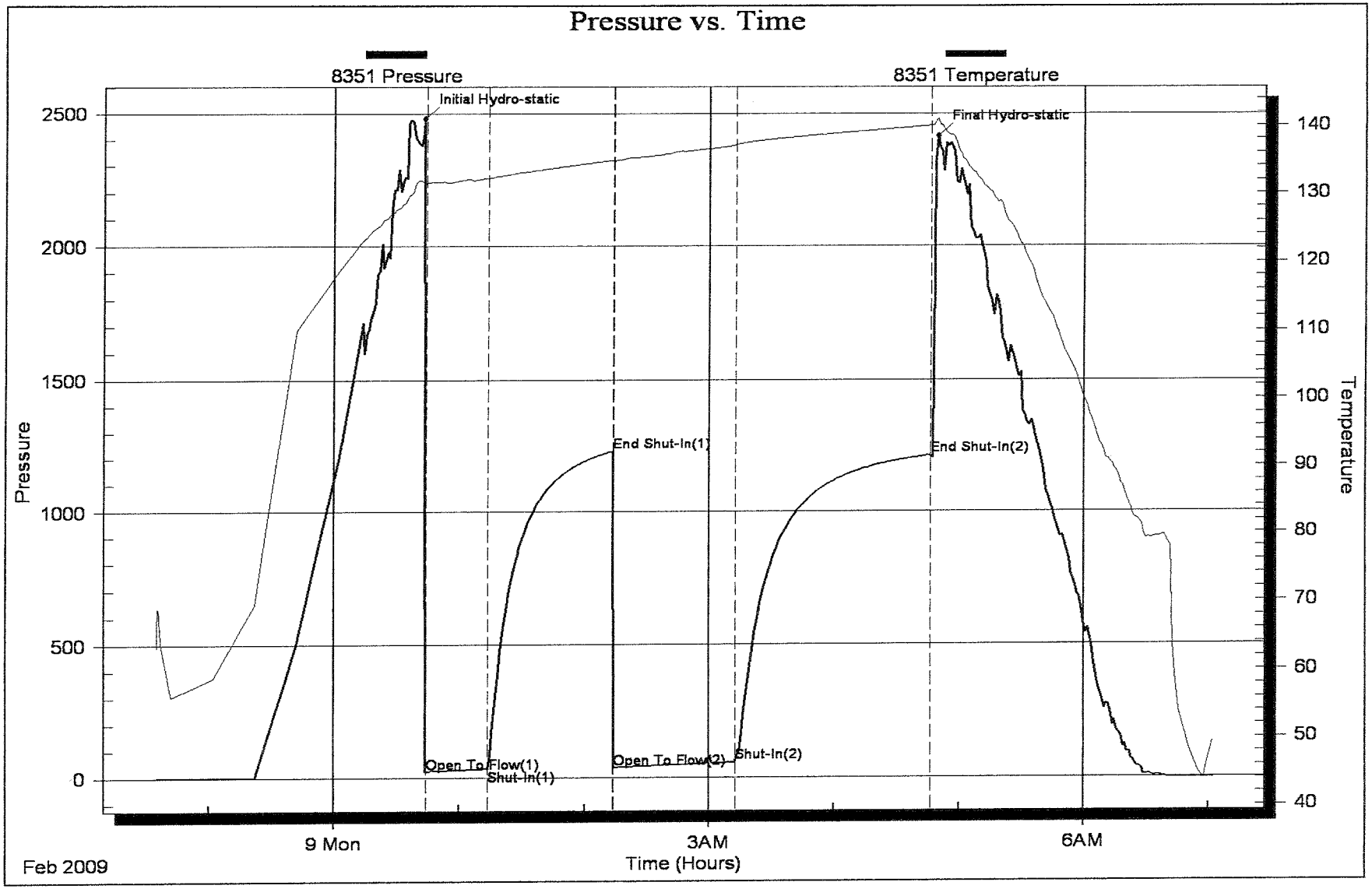
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	DM 100%M	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

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


Pressure vs. Time
8351 Pressure
8351 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
2500
2000
1500
1000
500
0
140
130
120
110
100
90
80
70
60
50
40
9 Mon
3AM
6AM
Time (Hours)
Feb 2009