

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Assoc., Inc**

1560 Broadway, Ste 2100
Denver CO 80202

ATTN: Justin Carter

36 17s 13w Barton KS

Jacobs #2-36

Start Date: 2008.10.23 @ 22:08:39

End Date: 2008.10.24 @ 09:24:24

Job Ticket #: 33201 DST #: 1

15-009-25267

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

Samuel Gary Jr & Assoc., Inc
Jacobs #2-36
36 17s 13w Barton KS
DST # 1
Arbuckle
2008.10.23
36-17S-13W

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Samuel Gary Jr & Assoc., Inc

1560 Broadway, Ste 2100
Denver CO 80202

ATTN: Justin Carter

Jacobs #2-36

36 17s 13w Barton KS

Job Ticket: 33201 **DST#: 1**

Test Start: 2008.10.23 @ 22:08:39

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:56:09
Time Test Ended: 09:24:24

Test Type: Conventional Bottom Hole
Tester: Esak Hadley
Unit No: 46

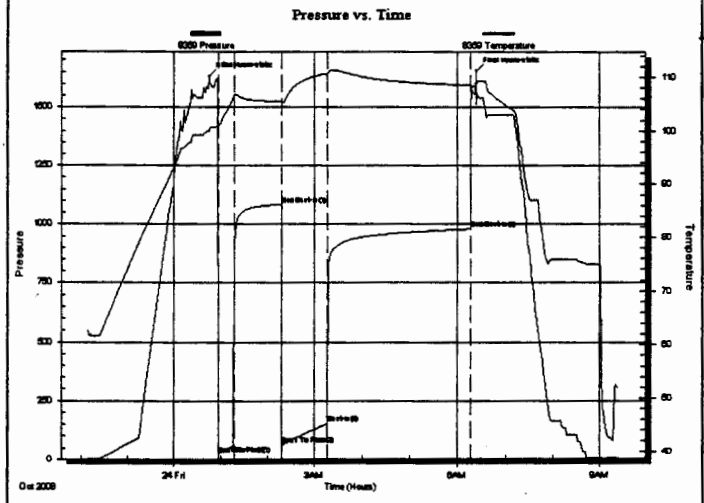
Interval: 3308.00 ft (KB) To 3350.00 ft (KB) (TVD)
Total Depth: 3350.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1820.00 ft (KB)
1811.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8359 **Inside**
Press@RunDepth: 153.10 psig @ 3309.00 ft (KB)
Start Date: 2008.10.23 End Date: 2008.10.24
Start Time: 22:08:44 End Time: 09:24:24

Capacity: 7000.00 psig
Last Calib.: 2008.10.24
Time On Btm: 2008.10.24 @ 00:44:54
Time Off Btm: 2008.10.24 @ 06:23:39

TEST COMMENT: IF Weak blow. Slow increase to 6".
ISI No blow.
FF Weak blow. BOB in 52 min.
FSI No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.14	100.01	Initial Hydro-static
12	24.89	100.86	Open To Flow (1)
32	60.04	106.31	Shut-In(1)
93	1084.05	105.50	End Shut-In(1)
93	63.35	105.14	Open To Flow (2)
152	153.10	110.64	Shut-In(2)
332	979.65	108.54	End Shut-In(2)
339	1653.08	108.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
225.00	GCO 10%g 90%o	3.16
125.00	GCMO 10%g 25%m 65%o	1.75

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Assoc., Inc

1560 Broadway, Ste 2100
Denver CO 80202

ATTN: Justin Carter

Jacobs #2-36

36 17s 13w Barton KS

Job Ticket: 33201 **DST#: 1**

Test Start: 2008.10.23 @ 22:08:39

Tool Information

Drill Pipe:	Length:	3304.00 ft	Diameter:	3.80 inches	Volume:	46.35 bbl	Tool Weight:		2100.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		24000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		50000.00 lb
					Total Volume:	46.35 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		24.00 ft					String Weight:	Initial	38000.00 lb
Depth to Top Packer:		3308.00 ft						Final	39000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		42.00 ft							
Tool Length:		70.00 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			3285.00		
Hydraulic tool	5.00			3290.00		
Jars	5.00			3295.00		
Safety Joint	3.00			3298.00		
Packer	5.00			3303.00	28.00	Bottom Of Top Packer
Packer	5.00			3308.00		
Stubb	1.00			3309.00		
Recorder	0.00	8359	Inside	3309.00		
Recorder	0.00	8354	Inside	3309.00		
Perforations	5.00			3314.00		
Change Over Sub	1.00			3315.00		
Drill Collar	31.00			3346.00		
Change Over Sub	1.00			3347.00		
Bullnose	3.00			3350.00	42.00	Bottom Packers & Anchor
Total Tool Length:	**70.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Assoc., Inc

1560 Broadway, Ste 2100
Denver CO 80202

ATTN: Justin Carter

Jacobs #2-36

36 17s 13w Barton KS

Job Ticket: 33201 **DST#: 1**

Test Start: 2008.10.23 @ 22:08:39

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	38.7 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.74 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

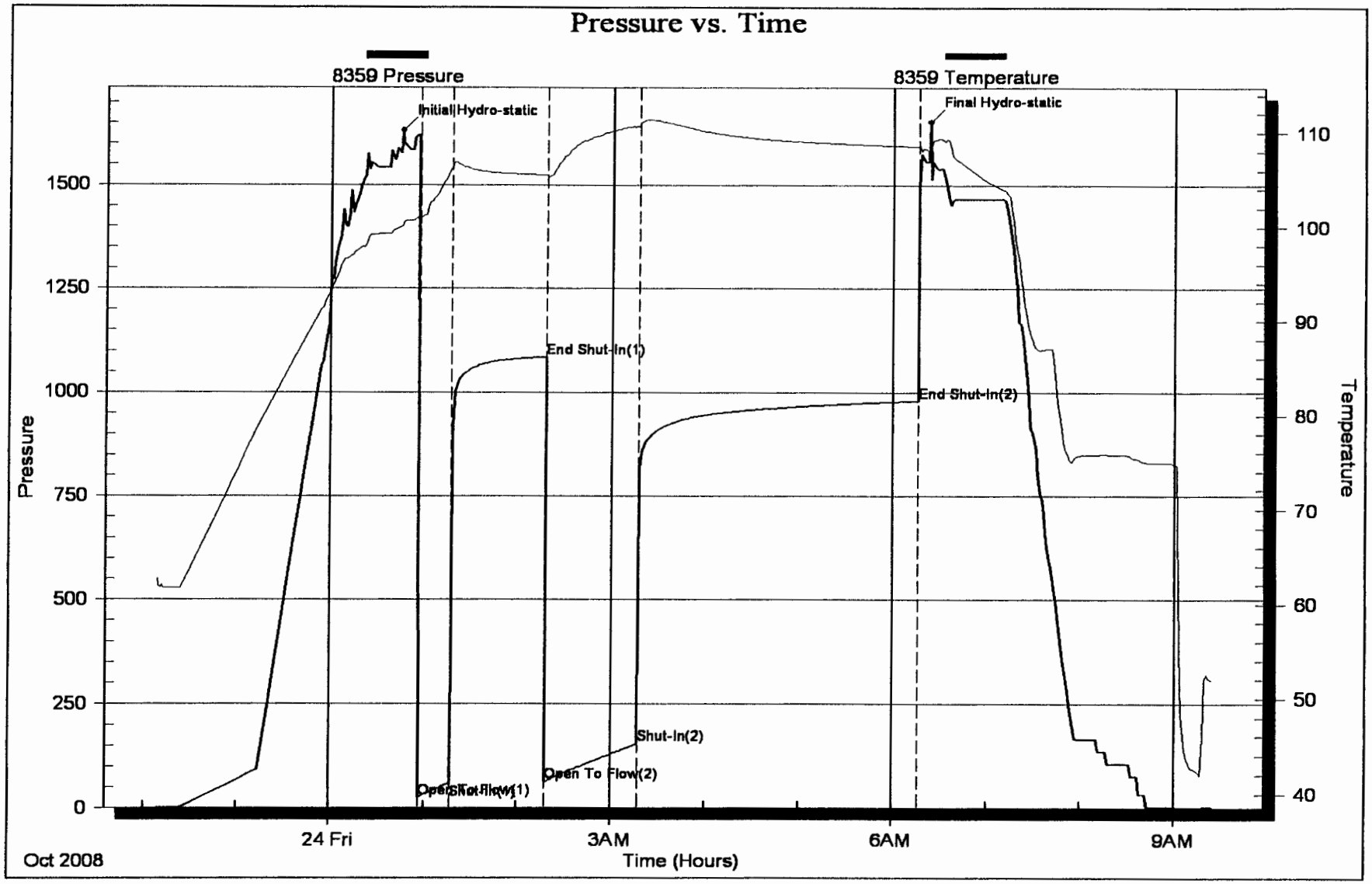
Length ft	Description	Volume bbl
225.00	GCO 10%g 90%o	3.156
125.00	GCMO 10%g 25%m 65%o	1.753

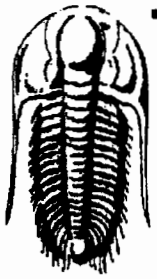
Total Length: 350.00 ft Total Volume: 4.909 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: BHT 109F 37° API d @ 43F


Pressure vs. Time
8359 Pressure
8359 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Open To Flow(2)
Pressure
Temperature
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
24 Fri
3AM
6AM
9AM
Oct 2008
Time (Hours)



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DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Assoc., Inc**

1560 Broadway, Ste 2100
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ATTN: Justin Carter

36 17s 13w Barton KS

Jacobs #2-36

Start Date: 2008.10.24 @ 14:28:16
End Date: 2008.10.24 @ 21:43:31
Job Ticket #: 33202 DST #: 2

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Samuel Gary Jr & Assoc., Inc

1560 Broadway, Ste 2100
Denver CO 80202

ATTN: Justin Carter

Jacobs #2-36

36 17s 13w Barton KS

Job Ticket: 33202 **DST#: 2**

Test Start: 2008.10.24 @ 14:28:16

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:28:01
Time Test Ended: 21:43:31

Test Type: Conventional Bottom Hole
Tester: Esak Hadley
Unit No: 46

Interval: 3350.00 ft (KB) To 3356.00 ft (KB) (TVD)
Total Depth: 3356.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

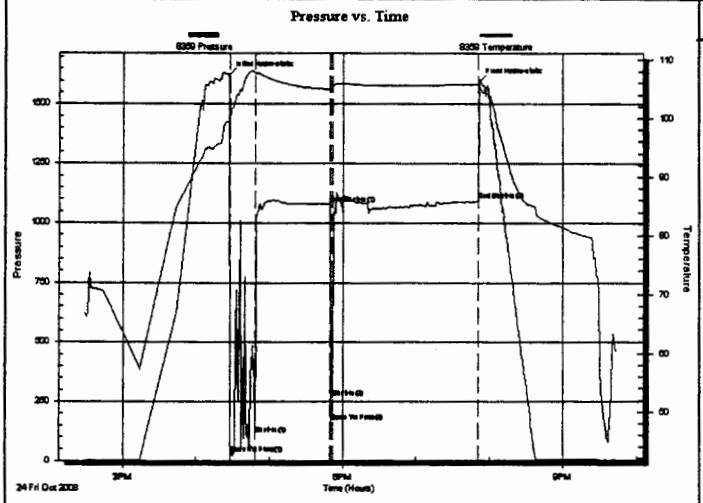
Reference Elevations: 1820.00 ft (KB)
1811.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8359 **Inside**

Press@RunDepth: 265.48 psig @ 3351.00 ft (KB)
Start Date: 2008.10.24 End Date: 2008.10.24
Start Time: 14:28:21 End Time: 21:43:30

Capacity: 7000.00 psig
Last Calib.: 2008.10.24
Time On Btm: 2008.10.24 @ 16:27:16
Time Off Btm: 2008.10.24 @ 19:52:00

TEST COMMENT: IF Weak blow. Slow increase to 3".
ISI No blow.
FF No blow. (flushed tool but still no blow)
FSI No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1623.62	99.39	Initial Hydro-static
1	31.24	98.58	Open To Flow (1)
22	111.68	107.68	Shut-In(1)
83	1082.08	104.94	End Shut-In(1)
84	165.07	104.63	Open To Flow (2)
85	265.48	105.09	Shut-In(2)
204	1095.50	105.82	End Shut-In(2)
205	1595.96	105.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	GCO 2%g 98%o	0.07
25.00	GCOM 2%g 5%o 93%m	0.35

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Assoc., Inc

1560 Broadway, Ste 2100
Denver CO 80202

ATTN: Justin Carter

Jacobs #2-36

36 17s 13w Barton KS

Job Ticket: 33202 **DST#: 2**

Test Start: 2008.10.24 @ 14:28:16

Tool Information

Drill Pipe:	Length:	3341.00 ft	Diameter:	3.80 inches	Volume:	46.87 bbl	Tool Weight:		2100.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		24000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		55000.00 lb
					Total Volume:	46.87 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		14.00 ft					String Weight:	Initial	37000.00 lb
Depth to Top Packer:		3350.00 ft						Final	38000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		6.00 ft							
Tool Length:		29.00 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			3332.00		
Hydraulic tool	5.00			3337.00		
Jars	5.00			3342.00		
Safety Joint	3.00			3345.00		
Packer	5.00			3350.00	23.00	Bottom Of Top Packer
Stubb	1.00			3351.00		
Recorder	0.00	8359	Inside	3351.00		
Recorder	0.00	8354	Inside	3351.00		
Perforations	2.00			3353.00		
Bullnose	3.00			3356.00	6.00	Anchor Tool
Total Tool Length:	**29.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

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Jacobs #2-36

36 17s 13w Barton KS

Job Ticket: 33202 **DST#: 2**

Test Start: 2008.10.24 @ 14:28:16

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:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.95 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

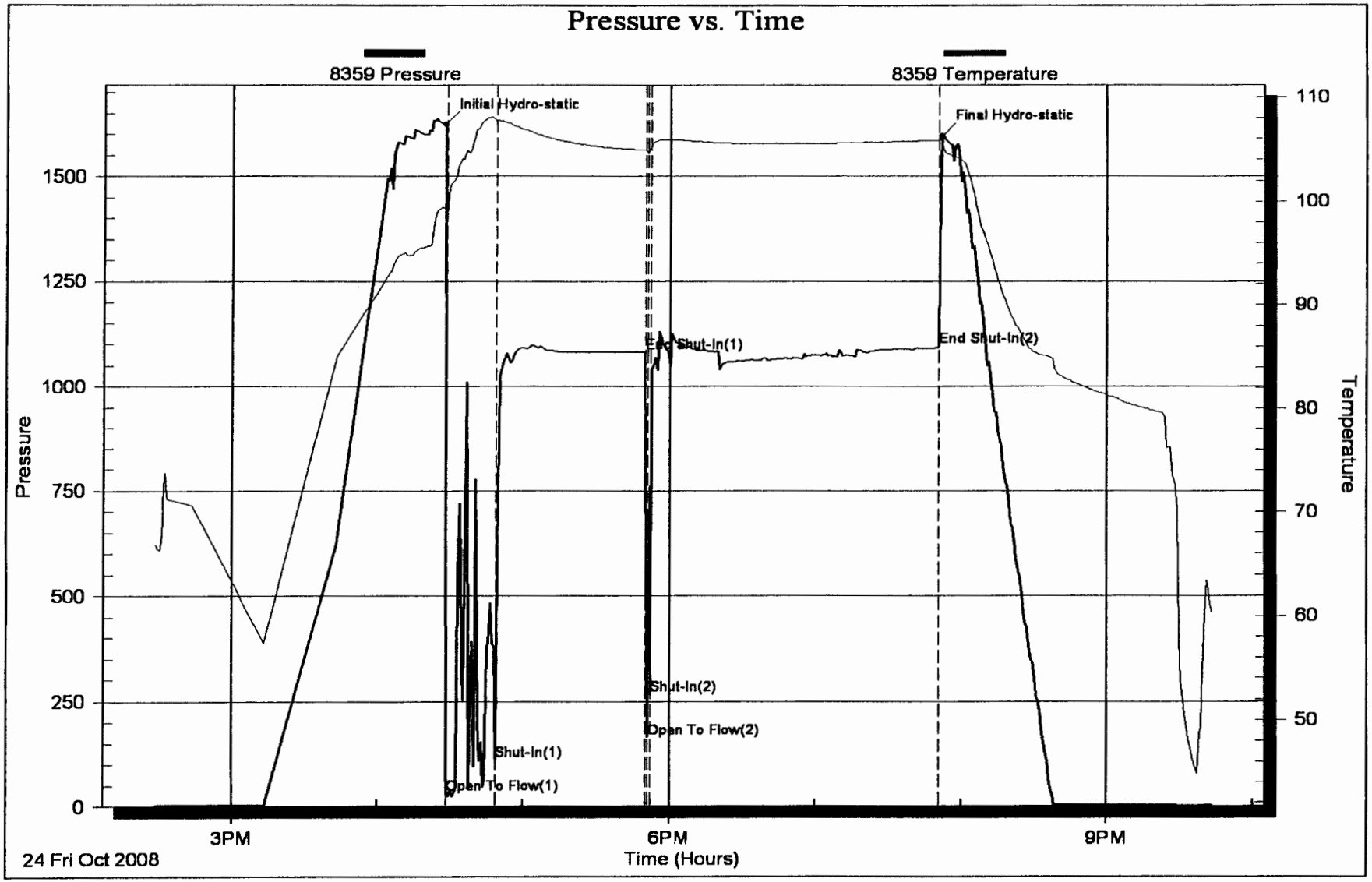
Length ft	Description	Volume bbl
5.00	GCO 2%g 98%o	0.070
25.00	GCOM 2%g 5%o 93%m	0.351

Total Length: 30.00 ft Total Volume: 0.421 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)
End Shut-In(2)
Shut-In(2)
Open To Flow(2)
Shut-In(1)
Open To Flow(1)
Pressure
Temperature
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
3PM
6PM
9PM
Time (Hours)
24 Fri Oct 2008



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Jacobs #2-36

Start Date: 2008.10.26 @ 04:06:29
End Date: 2008.10.26 @ 12:33:49
Job Ticket #: 33025 DST #: 3

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DRILL STEM TEST REPORT

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ATTN: Justin Carter

Jacobs #2-36

36 17s 13w Barton KS

Job Ticket: 33025 **DST#: 3**

Test Start: 2008.10.26 @ 04:06:29

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:25:59
Time Test Ended: 12:33:49

Test Type: Conventional Straddle
Tester: Kevin Taylor
Unit No: 23

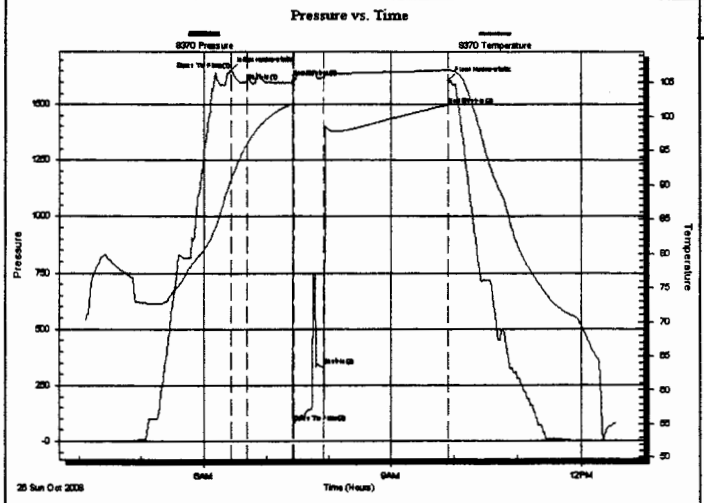
Interval: 3353.00 ft (KB) To 3361.00 ft (KB) (TVD)
Total Depth: 3442.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1820.00 ft (KB)
1811.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8370 **Inside**
Press@RunDepth: 337.60 psig @ 3354.00 ft (KB)
Start Date: 2008.10.26 End Date: 2008.10.26
Start Time: 04:06:34 End Time: 12:33:49

Capacity: 7000.00 psig
Last Calib.: 2008.10.26
Time On Btm: 2008.10.26 @ 06:25:19
Time Off Btm: 2008.10.26 @ 09:54:59

TEST COMMENT: I.F. Surface Blow Died in 3 Min (tool slid 2' 12 minutes into test)
I.S.I. No Blow
F.F. Strong Bolw B.O.B. 1 Min
F.S.I. Bled Off 5 Min. No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.35	90.43	Initial Hydro-static
1	1656.29	90.73	Open To Flow (1)
16	1605.86	96.00	Shut-In(1)
60	1620.23	101.87	End Shut-In(1)
61	80.95	104.70	Open To Flow (2)
90	337.60	105.76	Shut-In(2)
210	1497.18	106.83	End Shut-In(2)
210	1606.49	106.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OGCM 2%O 2%G 96%M	2.63
120.00	OGCM 7%O 5%G 88%M	1.75
180.00	OGCM 5%O 5%G 80%M	2.63
120.00	Mud With Oil Scum	1.75

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Assoc., Inc

1560 Broadway, Ste 2100
Denver CO 80202

ATTN: Justin Carter

Jacobs #2-36

36 17s 13w Barton KS

Job Ticket: 33025 **DST#: 3**

Test Start: 2008.10.26 @ 04:06:29

Tool Information

Drill Pipe:	Length:	3338.00 ft	Diameter:	3.88 inches	Volume:	48.82 bbl	Tool Weight:		2100.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		30000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		70000.00 lb
					Total Volume:	48.82 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		8.00 ft					String Weight:	Initial	40000.00 lb
Depth to Top Packer:		3353.00 ft						Final	41000.00 lb
Depth to Bottom Packer:		3361.00 ft							
Interval between Packers:		8.00 ft							
Tool Length:		112.00 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			3335.00		
Hydraulic tool	5.00			3340.00		
Jars	5.00			3345.00		
Safety Joint	3.00			3348.00		
Packer	5.00			3353.00	23.00	Bottom Of Top Packer
Stubb	1.00			3354.00		
Recorder	0.00	8370	Inside	3354.00		
Perforations	6.00			3360.00		
Blank Off Sub	1.00			3361.00	8.00	Tool Interval
Packer	2.00			3363.00		
Change Over Sub	1.00			3364.00		
Drill Pipe	62.00			3426.00		
Change Over Sub	1.00			3427.00		
Recorder	0.00	8289	Inside	3427.00		
Perforations	10.00			3437.00		
Bullnose	5.00			3442.00	81.00	Bottom Packers & Anchor
Total Tool Length:	**112.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

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Denver CO 80202

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Jacobs #2-36

36 17s 13w Barton KS

Job Ticket: 33025 **DST#: 3**

Test Start: 2008.10.26 @ 04:06:29

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.72 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

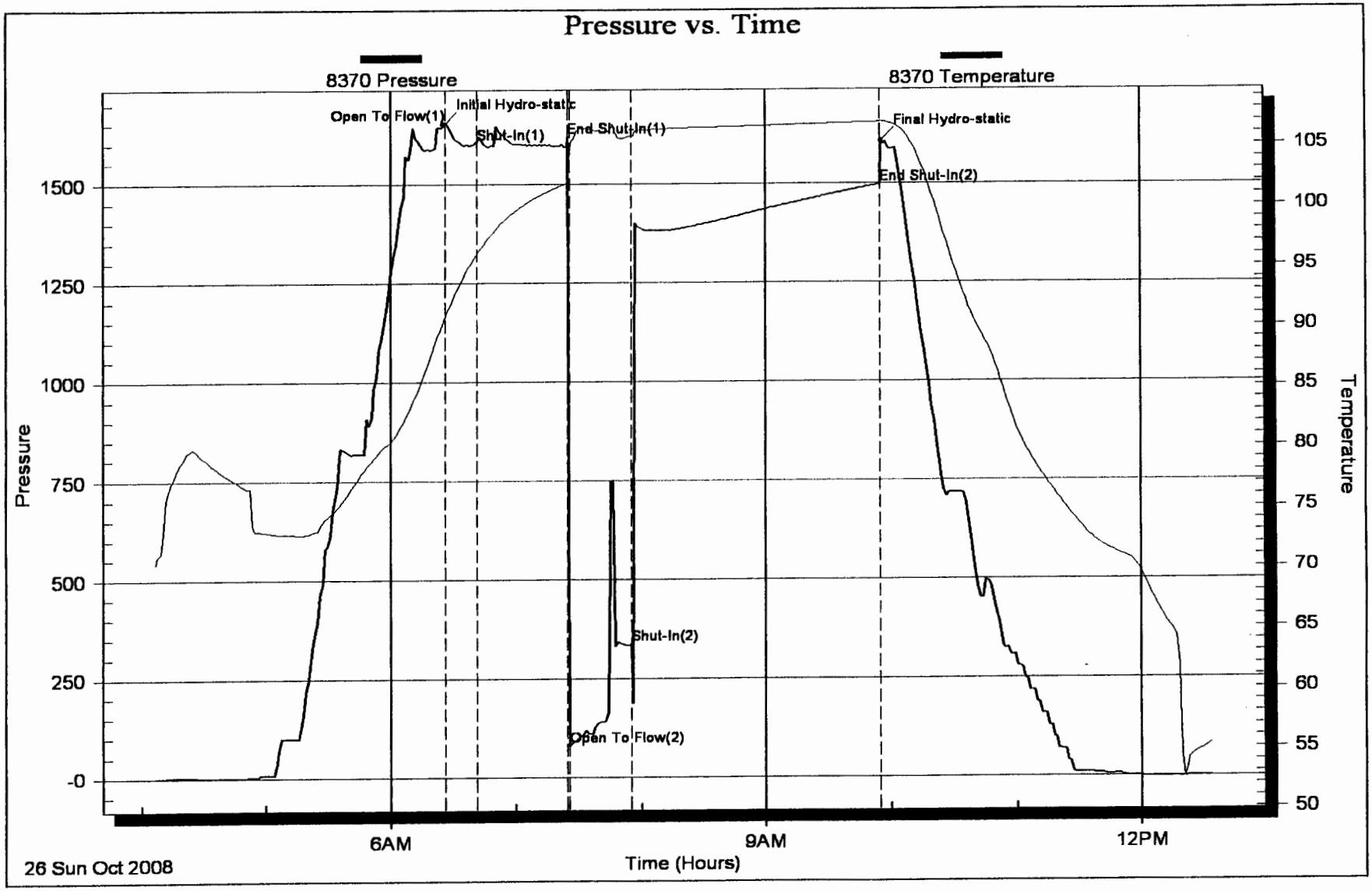
Length ft	Description	Volume bbl
180.00	OGCM 2%O 2%G 96%M	2.632
120.00	OGCM 7%O 5%G 88%M	1.755
180.00	OGCM 5%O 5%G 80%M	2.632
120.00	Mud With Oil Scum	1.755

Total Length: 600.00 ft Total Volume: 8.774 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: tool plugged until 2nd flow


Pressure vs. Time
8370 Pressure
8370 Temperature
Open To Flow(1)
Initial Hydro-static
Shut-In(1)
End Shut-In(1)
Final Hydro-static
End Shut-In(2)
Shut-In(2)
Open To Flow(2)
Pressure
Temperature
1500
1250
1000
750
500
250
-0
105
100
95
90
85
80
75
70
65
60
55
50
6AM
9AM
12PM
Time (Hours)
26 Sun Oct 2008