15-009-25202

26-17s-13w

IND

Samuel Gary Jr Associates Inc

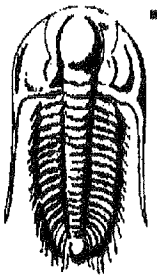
Reif # 1-26

26 17S 13W Barton KS

DST # 1

LKC "D-F"

2008.05.25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr Associates Inc**

1560 Broadway Ste 2100
Denver CO 80202

ATTN:

CONFIDENTIAL
SEP 11 2008
KCC

26 17S 13W Barton KS

Reif # 1-26

Start Date: 2008.05.25 @ 00:45:41

End Date: 2008.05.25 @ 06:03:11

Job Ticket #: 31991 DST #: 1

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 Associates Inc

1560 Broadway Ste 2100
Denver CO 80202

ATTN:

Reif # 1-26

26 17S 13W Barton KS

Job Ticket: 31991 **DST#: 1**

Test Start: 2008.05.25 @ 00:45:41

GENERAL INFORMATION:

Formation: **LKC "D-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:10:11
Time Test Ended: 06:03:11

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

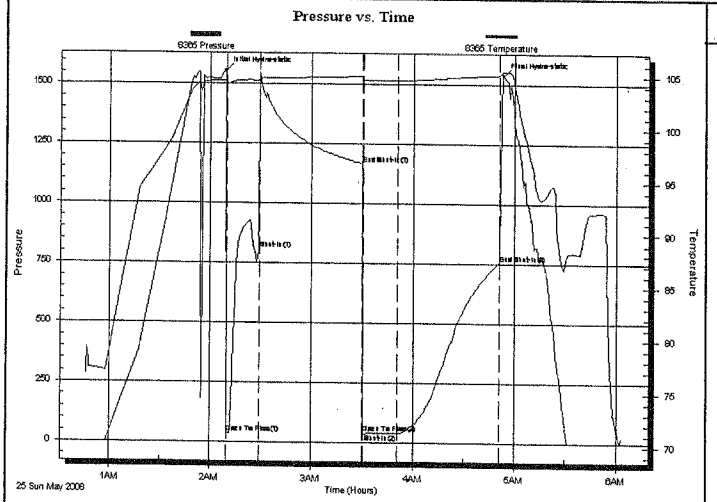
Interval: 3152.00 ft (KB) To 3193.00 ft (KB) (TVD)
Total Depth: 3193.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1839.00 ft (KB)
1829.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8365 **Inside**
Press@RunDepth: 38.04 psig @ 3158.01 ft (KB)
Start Date: 2008.05.25 End Date: 2008.05.25
Start Time: 00:45:46 End Time: 06:03:10

Capacity: 7000.00 psig
Last Calib.: 2008.05.25
Time On Btm: 2008.05.25 @ 02:09:41
Time Off Btm: 2008.05.25 @ 04:53:41

TEST COMMENT: IF 1/2 " in 5 min died back to 1/4 "
FF No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1555.02	104.59	Initial Hydro-static
1	35.22	104.14	Open To Flow (1)
20	805.83	104.58	Shut-In(1)
81	1168.04	104.98	End Shut-In(1)
81	38.43	104.62	Open To Flow (2)
101	38.04	104.62	Shut-In(2)
162	755.27	105.13	End Shut-In(2)
164	1540.17	105.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud	0.64

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr Associates Inc

1560 Broadway Ste 2100
Denver CO 80202

ATTN:

Reif # 1-26

26 17S 13W Barton KS

Job Ticket: 31991 **DST#: 1**

Test Start: 2008.05.25 @ 00:45:41

Tool Information

Drill Pipe:	Length:	3150.00 ft	Diameter:	3.82 inches	Volume:	44.65 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
					Total Volume:	44.65 bbl	

Drill Pipe Above KB:	26.00 ft
Depth to Top Packer:	3152.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	41.02 ft
Tool Length:	69.02 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	10.00 ft
String Weight: Initial	35000.00 lb
Final	35000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3125.00		
Shut In Tool	5.00			3130.00		
Hydraulic tool	5.00			3135.00		
Jars	4.00			3139.00		
Safety Joint	3.00			3142.00		
Packer	5.00			3147.00	28.00	Bottom Of Top Packer
Packer	5.00			3152.00		
Stubb	1.00			3153.00		
Perforations	4.00			3157.00		
Change Over Sub	1.00			3158.00		
Recorder	0.01	8365	Inside	3158.01		
Recorder	0.01	6625	Outside	3158.02		
Blank Spacing	31.00			3189.02		
Change Over Sub	1.00			3190.02		
Bullnose	3.00			3193.02	41.02	Bottom Packers & Anchor
Total Tool Length:	**69.02**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr Associates Inc

1560 Broadway Ste 2100
Denver CO 80202

ATTN:

Reif # 1-26

26 17S 13W Barton KS

Job Ticket: 31991 **DST#: 1**

Test Start: 2008.05.25 @ 00:45:41

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:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3800.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

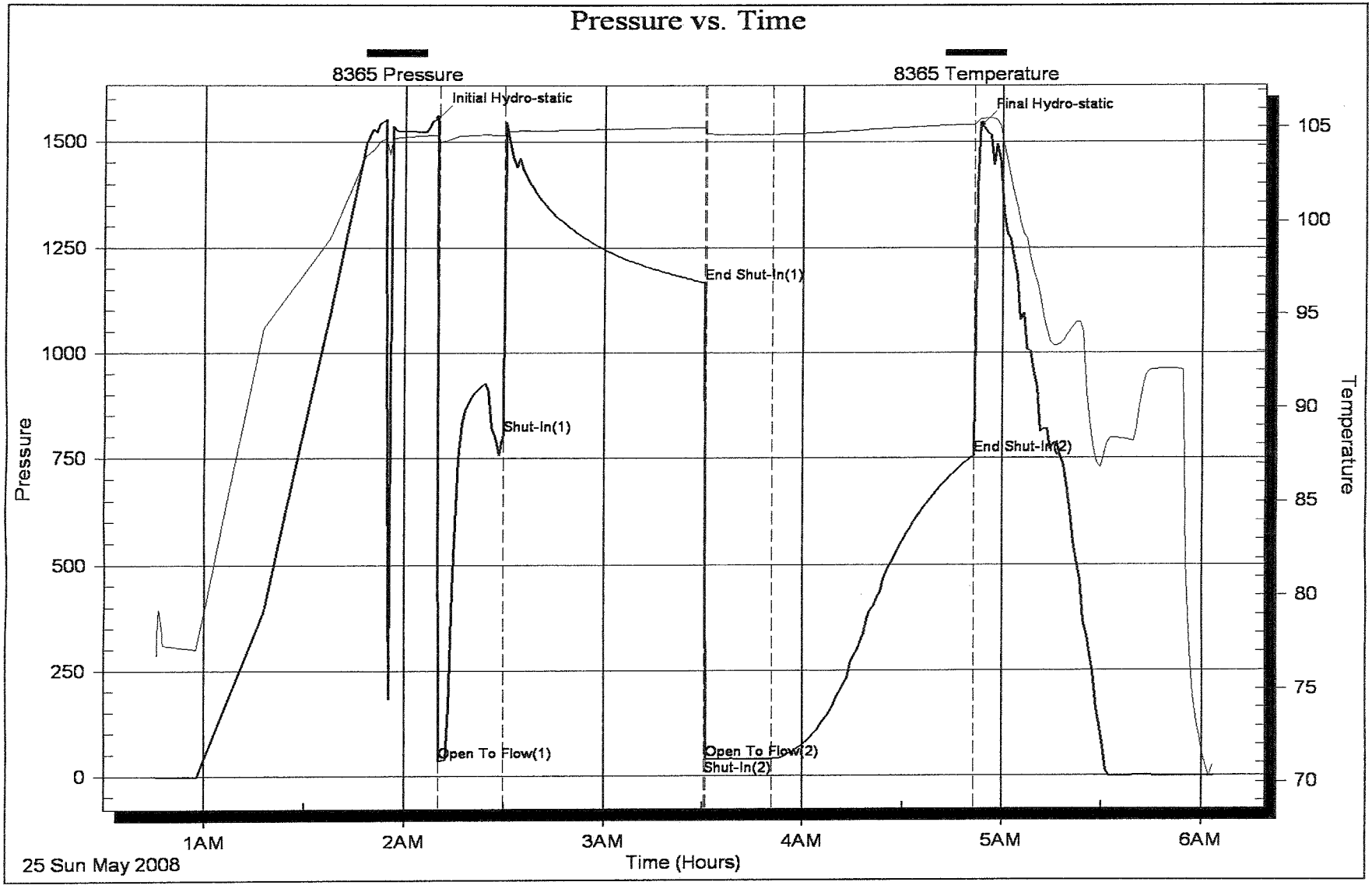
Length ft	Description	Volume bbl
45.00	Mud	0.638

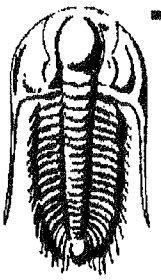
Total Length: 45.00 ft Total Volume: 0.638 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8365 Pressure
8365 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
Time (Hours)
25 Sun May 2008
1AM
2AM
3AM
4AM
5AM
6AM
1500
1250
1000
750
500
250
0
105
100
95
90
85
80
75
70



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr Associates Inc**

1560 Broadway Ste 2100
Denver CO 80202

ATTN:

26 17S 13W Barton KS

Reif # 1-26

Start Date: 2008.05.26 @ 00:26:56
End Date: 2008.05.26 @ 05:56:56
Job Ticket #: 31992 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 Associates Inc

1560 Broadway Ste 2100
Denver CO 80202

ATTN:

Reif # 1-26

26 17S 13W Barton KS

Job Ticket: 31992 **DST#: 2**

Test Start: 2008.05.26 @ 00:26:56

GENERAL INFORMATION:

Formation: **Arb**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:00:26
Time Test Ended: 05:56:56

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

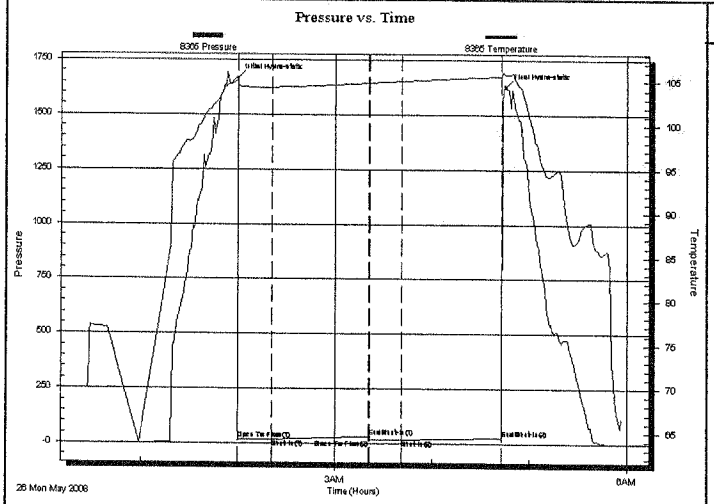
Interval: 3326.00 ft (KB) To 3347.00 ft (KB) (TVD)
Total Depth: 3347.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1839.00 ft (KB)
1829.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8365 **Inside**
Press@RunDepth: 19.54 psig @ 3331.01 ft (KB)
Start Date: 2008.05.26 End Date: 2008.05.26
Start Time: 00:27:01 End Time: 05:56:55

Capacity: 7000.00 psig
Last Calib.: 2008.05.26
Time On Btm: 2008.05.26 @ 01:59:56
Time Off Btm: 2008.05.26 @ 04:45:56

TEST COMMENT: IF 3/4 " in 5 min
FF No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1665.15	105.02	Initial Hydro-static
1	18.71	104.50	Open To Flow (1)
21	19.26	104.32	Shut-In(1)
81	32.09	104.82	End Shut-In(1)
82	19.14	104.83	Open To Flow (2)
101	19.54	105.03	Shut-In(2)
164	26.68	105.62	End Shut-In(2)
166	1626.62	105.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr Associates Inc

1560 Broadway Ste 2100
Denver CO 80202

ATTN:

Reif # 1-26

26 17S 13W Barton KS

Job Ticket: 31992 **DST#: 2**

Test Start: 2008.05.26 @ 00:26:56

Tool Information

Drill Pipe:	Length:	3304.00 ft	Diameter:	3.82	inches	Volume:	46.84	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
						Total Volume:	46.84	bbl	

Drill Pipe Above KB:	6.00 ft
Depth to Top Packer:	3326.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	21.02 ft
Tool Length:	49.02 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:	45000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	35000.00 lb
Final	35000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3299.00		
Shut In Tool	5.00			3304.00		
Hydraulic tool	5.00			3309.00		
Jars	4.00			3313.00		
Safety Joint	3.00			3316.00		
Packer	5.00			3321.00	28.00	Bottom Of Top Packer
Packer	5.00			3326.00		
Stubb	1.00			3327.00		
Perforations	4.00			3331.00		
Recorder	0.01	8365	Inside	3331.01		
Recorder	0.01	6625	Outside	3331.02		
Perforations	13.00			3344.02		
Bullnose	3.00			3347.02	21.02	Bottom Packers & Anchor
Total Tool Length:	**49.02**					

Samuel Gary Jr Associates Inc

1560 Broadway Ste 2100
Denver CO 80202

ATTN:

Reif # 1-26

26 17S 13W Barton KS

Job Ticket: 31992 **DST#: 2**

Test Start: 2008.05.26 @ 00:26:56

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:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3800.00 ppm				
Filter Cake:	inches				

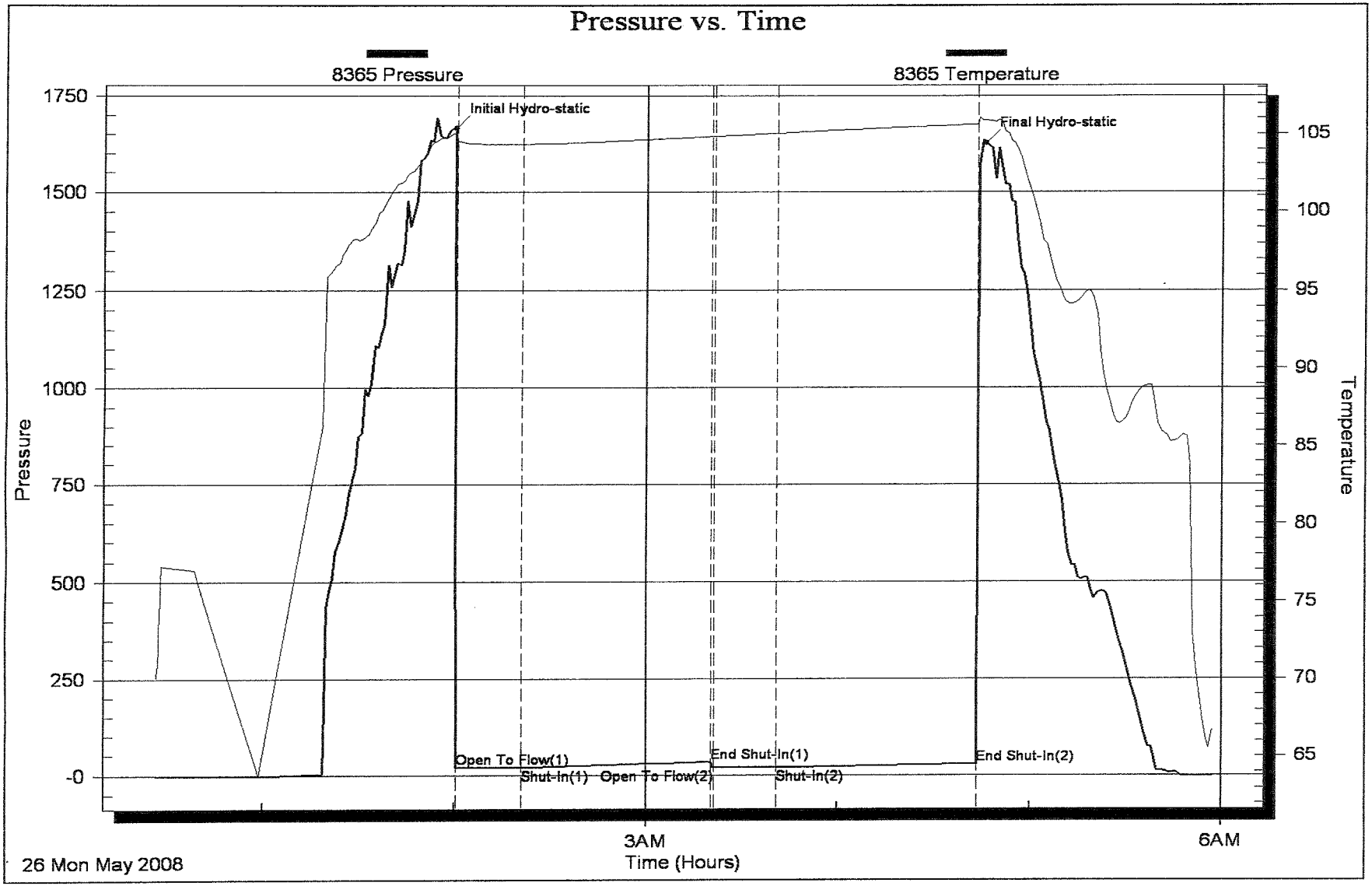
Recovery Information

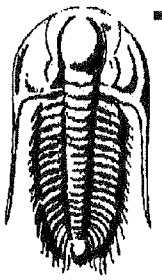
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.071

Total Length: 5.00 ft Total Volume: 0.071 bbl

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


Pressure vs. Time
8365 Pressure
8365 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(1)
End Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
-0
105
100
95
90
85
80
75
70
65
3AM
6AM
Time (Hours)
26 Mon May 2008



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr Associates Inc**

1560 Broadway Ste 2100
Denver CO 80202

ATTN:

26 17S 13W Barton KS

Reif # 1-26

Start Date: 2008.05.26 @ 10:40:43
End Date: 2008.05.26 @ 17:16:43
Job Ticket #: 31993 DST #: 3

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr Associates Inc

1560 Broadway Ste 2100
Denver CO 80202

ATTN:

Reif # 1-26

26 17S 13W Barton KS

Job Ticket: 31993 **DST#: 3**

Test Start: 2008.05.26 @ 10:40:43

GENERAL INFORMATION:

Formation: **Arb**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:41:43
Time Test Ended: 17:16:43

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

Interval: 3324.00 ft (KB) To 3352.00 ft (KB) (TVD)
Total Depth: 3352.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

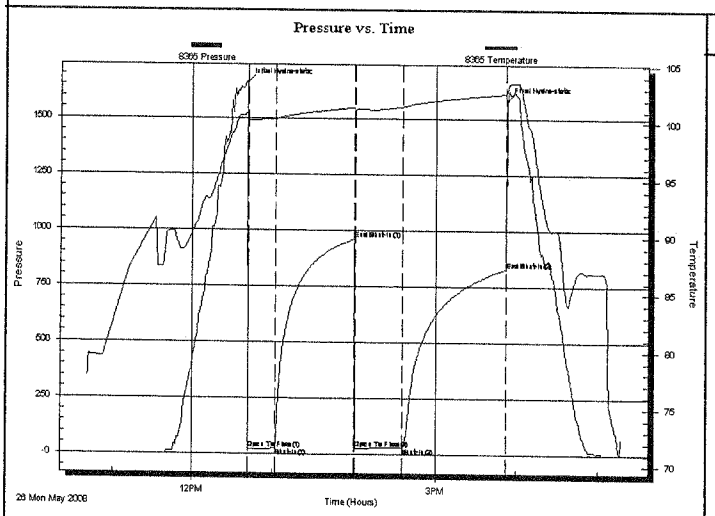
Reference Elevations: 1839.00 ft (KB)
1829.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8365 **Inside**

Press@RunDepth: 31.20 psig @ 3329.01 ft (KB)
Start Date: 2008.05.26 End Date: 2008.05.26
Start Time: 10:40:48 End Time: 17:16:42

Capacity: 7000.00 psig
Last Calib.: 2008.05.26
Time On Btm: 2008.05.26 @ 12:41:13
Time Off Btm: 2008.05.26 @ 15:52:43

TEST COMMENT: IF 1/2 " built to 2 "
FF Weak surface 10 min to 30 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1660.28	100.81	Initial Hydro-static
1	19.96	100.04	Open To Flow (1)
21	24.28	100.28	Shut-In(1)
79	960.25	101.33	End Shut-In(1)
80	26.35	101.07	Open To Flow (2)
114	31.20	101.43	Shut-In(2)
191	829.49	102.56	End Shut-In(2)
192	1581.02	102.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	OcM 10%O 90%M	0.35
5.00	Free Oil	0.07

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr Associates Inc

1560 Broadway Ste 2100
Denver CO 80202

ATTN:

Reif # 1-26

26 17S 13W Barton KS

Job Ticket: 31993 **DST#: 3**

Test Start: 2008.05.26 @ 10:40:43

Tool Information

Drill Pipe:	Length:	3304.00 ft	Diameter:	3.82 inches	Volume:	46.84 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:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		40000.00 lb
					Total Volume:	46.84 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		8.00 ft					String Weight:	Initial	35000.00 lb
Depth to Top Packer:		3324.00 ft						Final	35000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		28.02 ft							
Tool Length:		56.02 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			3297.00		
Shut In Tool	5.00			3302.00		
Hydraulic tool	5.00			3307.00		
Jars	4.00			3311.00		
Safety Joint	3.00			3314.00		
Packer	5.00			3319.00	28.00	Bottom Of Top Packer
Packer	5.00			3324.00		
Stubb	1.00			3325.00		
Perforations	4.00			3329.00		
Recorder	0.01	8365	Inside	3329.01		
Recorder	0.01	6625	Outside	3329.02		
Perforations	20.00			3349.02		
Bullnose	3.00			3352.02	28.02	Bottom Packers & Anchor
Total Tool Length:	**56.02**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr Associates Inc

1560 Broadway Ste 2100
Denver CO 80202

ATTN:

Reif # 1-26

26 17S 13W Barton KS

Job Ticket: 31993 **DST#: 3**

Test Start: 2008.05.26 @ 10:40:43

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:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	inches				

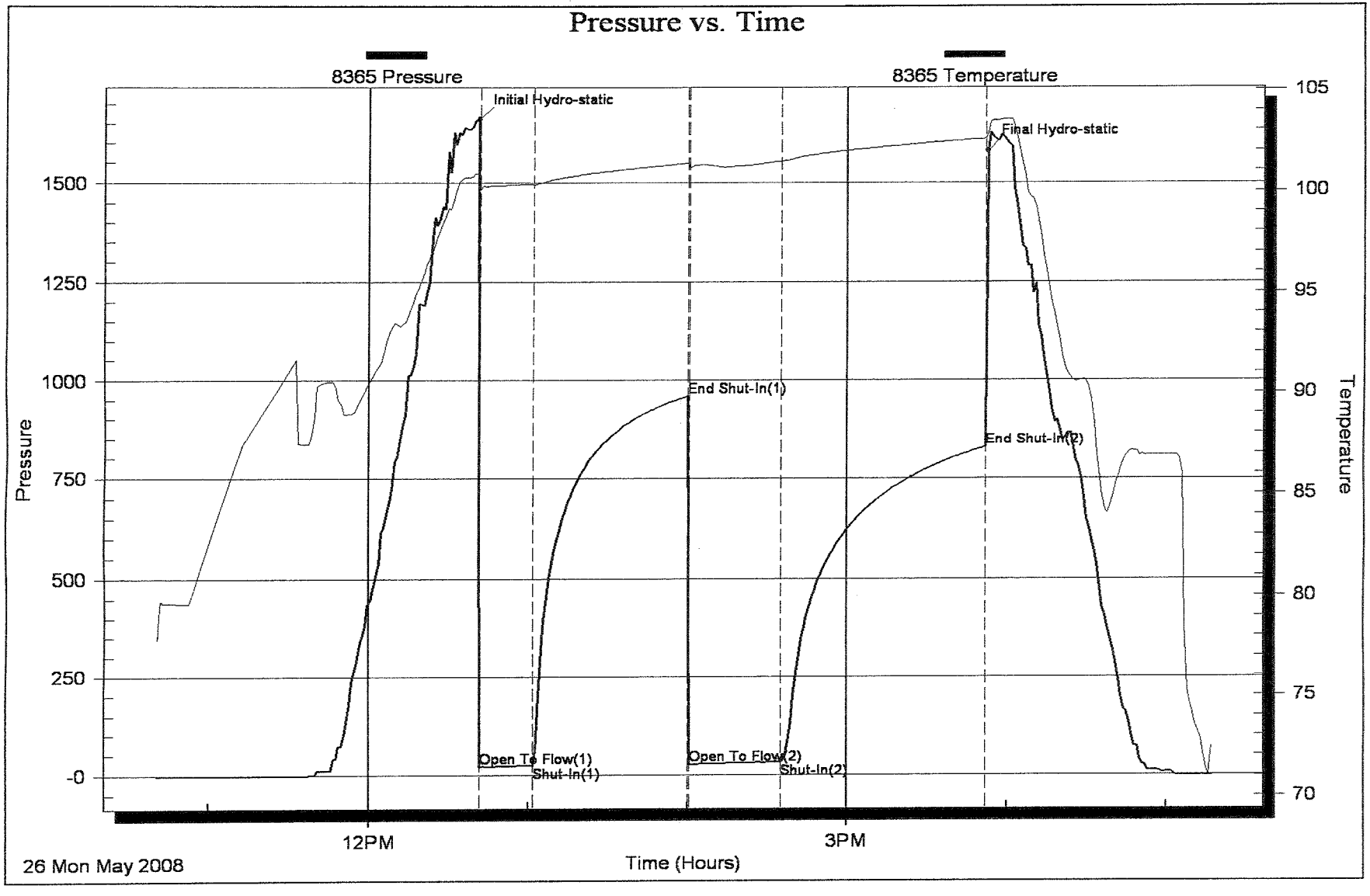
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	OcM 10%O 90%M	0.354
5.00	Free Oil	0.071

Total Length: 30.00 ft Total Volume: 0.425 bbl

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


Pressure vs. Time
8365 Pressure
8365 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
1500
1250
1000
750
500
250
-0
105
100
95
90
85
80
75
70
12PM
3PM
26 Mon May 2008
Time (Hours)