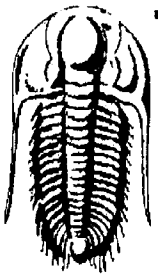
15-051-25653 17-13s-20w



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Production Drilling Inc**

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

17 13 20W Ellis KS

Raynesford #7

Start Date: 2007.08.07 @ 14:20:45
End Date: 2007.08.07 @ 19:26:45
Job Ticket #: 29182 DST #: 1

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

Production Drilling Inc Raynesford #7 17 13 20W Ellis KS DST # 1 Lansing F 2007.08.07

DRILL STEM TEST REPORT

Production Drilling Inc

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

Raynesford #7

17 13 20W Ellis KS

Job Ticket: 29182 **DST#: 1**

Test Start: 2007.08.07 @ 14:20:45

GENERAL INFORMATION:

Formation: **Lansing F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:02:45
Time Test Ended: 19:26:45

Test Type: Conventional Bottom Hole
Tester: Paul Simpson
Unit No: 42

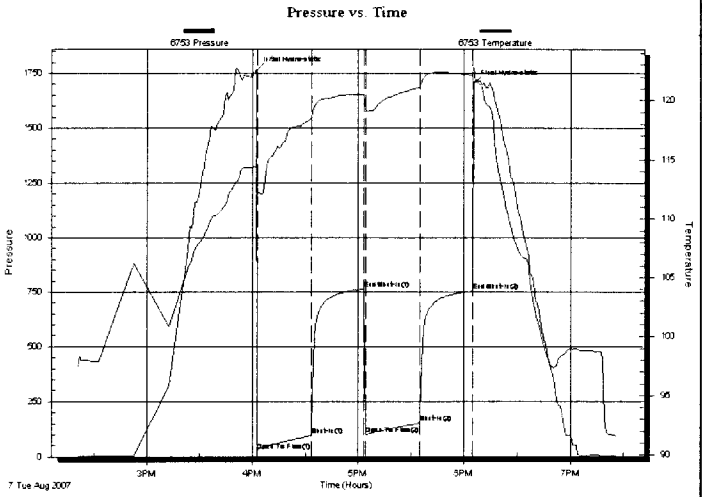
Interval: 3544.00 ft (KB) To 3567.00 ft (KB) (TVD)
Total Depth: 3567.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2192.00 ft (KB)
2184.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6753 **Inside**
Press@RunDepth: 151.35 psig @ 3549.01 ft (KB)
Start Date: 2007.08.07 End Date: 2007.08.07
Start Time: 14:20:50 End Time: 19:26:44

Capacity: 7000.00 psig
Last Calib.: 2006.06.07
Time On Btm: 2007.08.07 @ 16:02:15
Time Off Btm: 2007.08.07 @ 18:05:15

TEST COMMENT: IF 1/2 " blow building to bottom of bucket in 16 minutes
ISI Surface blow building to 1/4 "
FF 3/4 " blow building to bottom of bucket in 18 minutes
FSI Surface blow building to 1 1/4 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1762.83	114.42	Initial Hydro-static
1	27.05	112.21	Open To Flow (1)
31	95.47	118.49	Shut-In(1)
61	762.84	120.47	End Shut-In(1)
62	99.73	119.16	Open To Flow (2)
93	151.35	121.11	Shut-In(2)
123	753.00	122.13	End Shut-In(2)
123	1703.86	122.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	MW	3.22
10.00	M	0.14
25.00	Clean Oil	0.35
0.00	210 ' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Production Drilling Inc

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

Raynesford #7

17 13 20W Ellis KS

Job Ticket: 29182 **DST#:** 1

Test Start: 2007.08.07 @ 14:20:45

Tool Information

Drill Pipe:	Length:	3522.00 ft	Diameter:	3.80	inches	Volume:	49.40	bbl	
Heavy Wt. Pipe:	Length:	ft	Diameter:		inches	Volume:	-	bbl	
Drill Collar:	Length:	31.00 ft	Diameter:	2.25	inches	Volume:	0.15	bbl	
						Total Volume:	-	bbl	

Drill Pipe Above KB:	30.00 ft
Depth to Top Packer:	3544.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	23.01 ft
Tool Length:	44.01 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:	2000.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	58000.00 lb
Tool Chased	ft
String Weight: Initial	52000.00 lb
Final	54000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3524.00		
Shut In Tool	5.00			3529.00		
Hydraulic tool	5.00			3534.00		
Packer	5.00			3539.00	21.00	Bottom Of Top Packer
Packer	5.00			3544.00		
Stubb	1.00			3545.00		
Perforations	4.00			3549.00		
Recorder	0.01	6753	Inside	3549.01		
Perforations	15.00			3564.01		
Recorder	0.00	13534		3564.01		
Bullnose	3.00			3567.01	23.01	Bottom Packers & Anchor
Total Tool Length:	**44.01**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Production Drilling Inc

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

Raynesford #7

17 13 20W Ellis KS

Job Ticket: 29182 **DST#: 1**

Test Start: 2007.08.07 @ 14:20:45

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

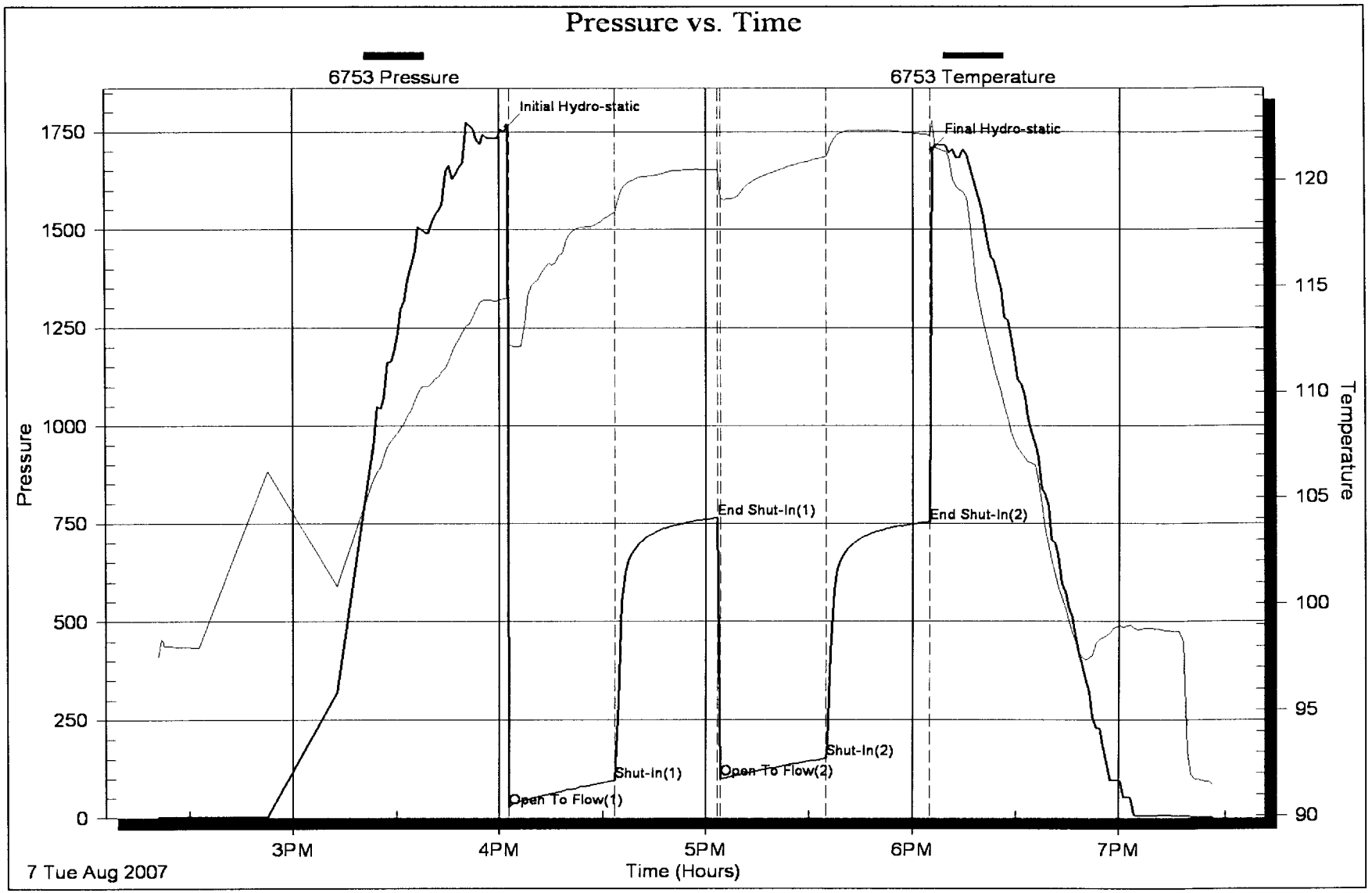
Recovery Information

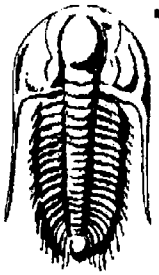
Recovery Table

Length ft	Description	Volume bbl
250.00	MW	3.224
10.00	M	0.140
25.00	Clean Oil	0.351
0.00	210 ' GIP	0.000

Total Length: 285.00 ft Total Volume: 3.715 bbl

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


Pressure vs. Time
6753 Pressure
6753 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
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
3PM
4PM
5PM
6PM
7PM
Time (Hours)
7 Tue Aug 2007



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Production Drilling Inc**

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

17 13 20W Ellis KS

Raynesford #7

Start Date: 2007.08.08 @ 06:56:09
End Date: 2007.08.08 @ 12:23:39
Job Ticket #: 29183 DST #: 2

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

DRILL STEM TEST REPORT

Production Drilling Inc

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

Raynesford #7

17 13 20W Ellis KS

Job Ticket: 29183 **DST#: 2**

Test Start: 2007.08.08 @ 06:56:09

GENERAL INFORMATION:

Formation: **Lansing I**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:15:09
Time Test Ended: 12:23:39

Test Type: Conventional Bottom Hole
Tester: Paul Simpson
Unit No: 42

Interval: 3629.00 ft (KB) To 3646.00 ft (KB) (TVD)
Total Depth: 3646.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

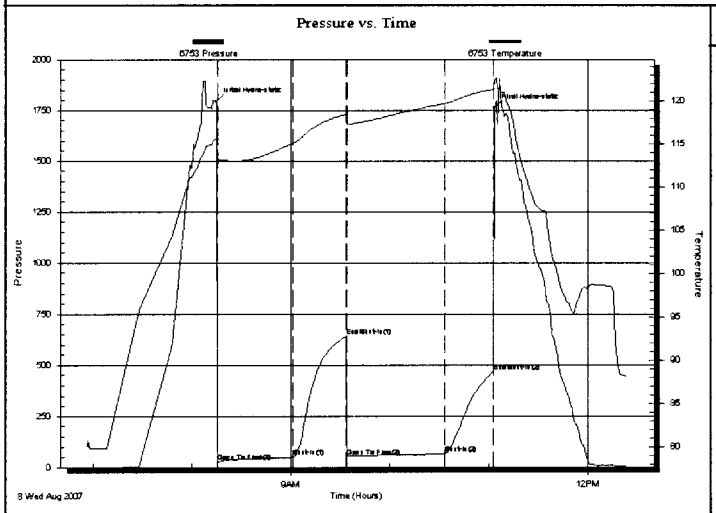
Reference Elevations: 2192.00 ft (KB)
2184.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6753 **Inside**

Press@RunDepth: 64.76 psig @ 3633.01 ft (KB)
Start Date: 2007.08.08 End Date: 2007.08.08
Start Time: 06:56:14 End Time: 12:23:38

Capacity: 7000.00 psig
Last Calib.: 2007.08.08
Time On Btm: 2007.08.08 @ 08:14:39
Time Off Btm: 2007.08.08 @ 11:03:39

TEST COMMENT: IF Weak blow building to 9 "
ISI No blow
FF Surface blow building to 7.5 "
FSI No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1795.39	115.52	Initial Hydro-static
1	25.05	113.27	Open To Flow (1)
47	48.97	115.08	Shut-In(1)
79	639.57	118.46	End Shut-In(1)
80	52.89	117.34	Open To Flow (2)
139	64.76	119.71	Shut-In(2)
169	466.94	121.39	End Shut-In(2)
169	1762.71	122.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	MW 70%W 30%M	0.84
10.00	Clean Oil	0.14
0.00	100 ' GIP	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Production Drilling Inc

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

Raynesford #7

17 13 20W Ellis KS

Job Ticket: 29183 **DST#: 2**

Test Start: 2007.08.08 @ 06:56:09

Tool Information

Drill Pipe:	Length:	3587.00 ft	Diameter:	3.80 inches	Volume:	50.32 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:	20000.00 lb
Drill Collar:	Length:	31.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	50.47 bbl	Tool Chased	5.00 ft
Drill Pipe Above KB:		10.00 ft					String Weight: Initial	54000.00 lb
Depth to Top Packer:		3629.00 ft					Final	54000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		17.01 ft						
Tool Length:		38.01 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			3609.00		
Shut In Tool	5.00			3614.00		
Hydraulic tool	5.00			3619.00		
Packer	5.00			3624.00	21.00	Bottom Of Top Packer
Packer	5.00			3629.00		
Stubb	1.00			3630.00		
Perforations	3.00			3633.00		
Recorder	0.01	6753	Inside	3633.01		
Perforations	10.00			3643.01		
Recorder	0.00	13534		3643.01		
Bullnose	3.00			3646.01	17.01	Bottom Packers & Anchor
Total Tool Length:	**38.01**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Production Drilling Inc

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

Raynesford #7

17 13 20W Ellis KS

Job Ticket: 29183 **DST#: 2**

Test Start: 2007.08.08 @ 06:56:09

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

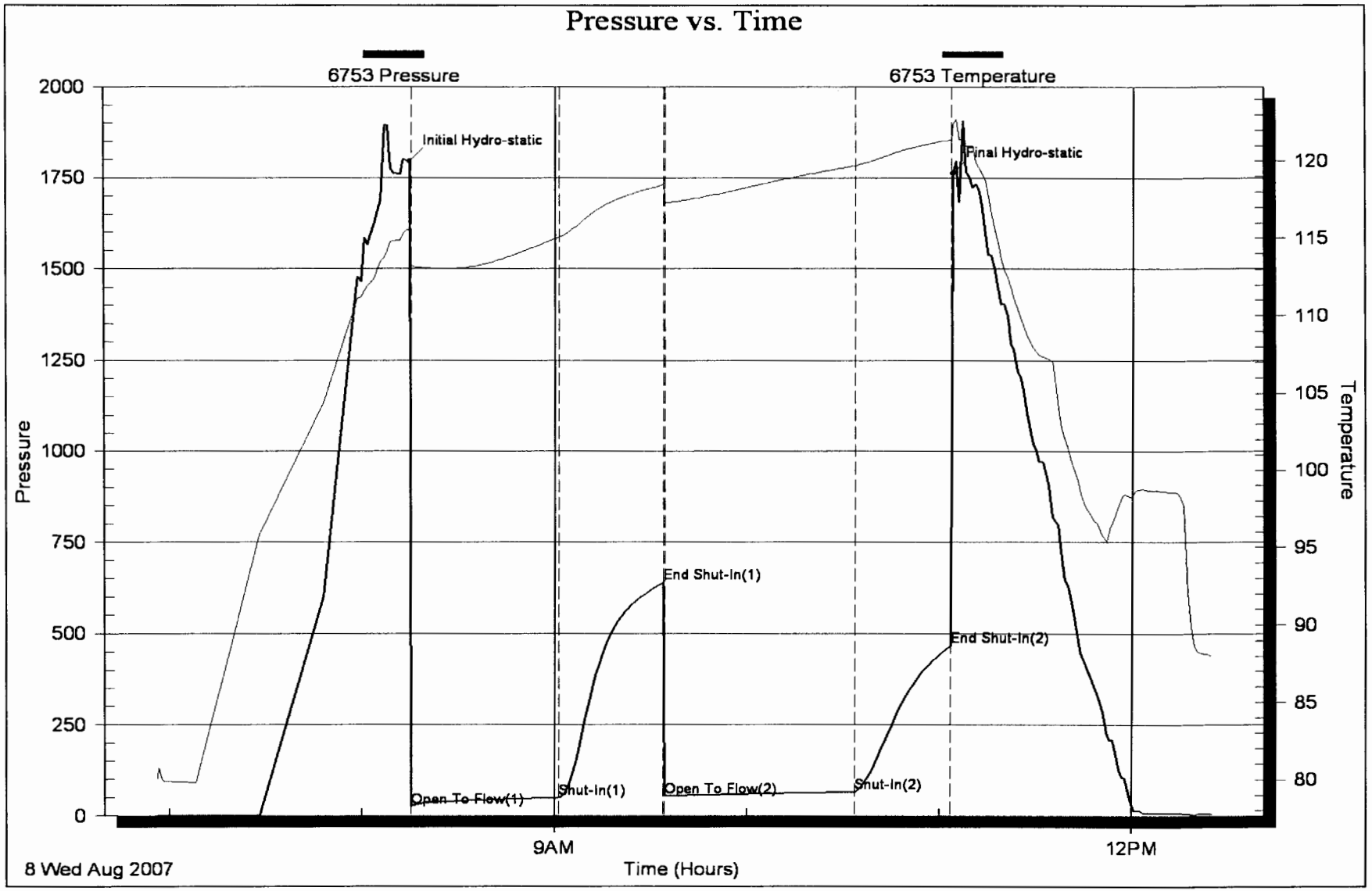
Recovery Information

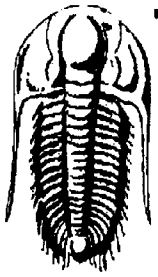
Recovery Table

Length ft	Description	Volume bbl
80.00	MW 70%W 30%M	0.840
10.00	Clean Oil	0.140
0.00	100 ' GIP	0.000

Total Length: 90.00 ft Total Volume: 0.980 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: .1@100


Pressure vs. Time
6753 Pressure
6753 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
1750
1500
1250
1000
750
500
250
0
Pressure
120
115
110
105
100
95
90
85
80
Temperature
9AM
12PM
8 Wed Aug 2007
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Production Drilling Inc**

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

17 13 20W Ellis KS

Raynesford #7

Start Date: 2007.08.08 @ 20:43:01
End Date: 2007.08.09 @ 02:10:31
Job Ticket #: 29184 DST #: 3

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

DRILL STEM TEST REPORT

Production Drilling Inc

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

Raynesford #7

17 13 20W Ellis KS

Job Ticket: 29184 **DST#: 3**

Test Start: 2007.08.08 @ 20:43:01

GENERAL INFORMATION:

Formation: **LKC "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:17:01
Time Test Ended: 02:10:31

Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 42

Interval: 3676.00 ft (KB) To 3696.00 ft (KB) (TVD)
Total Depth: 3567.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

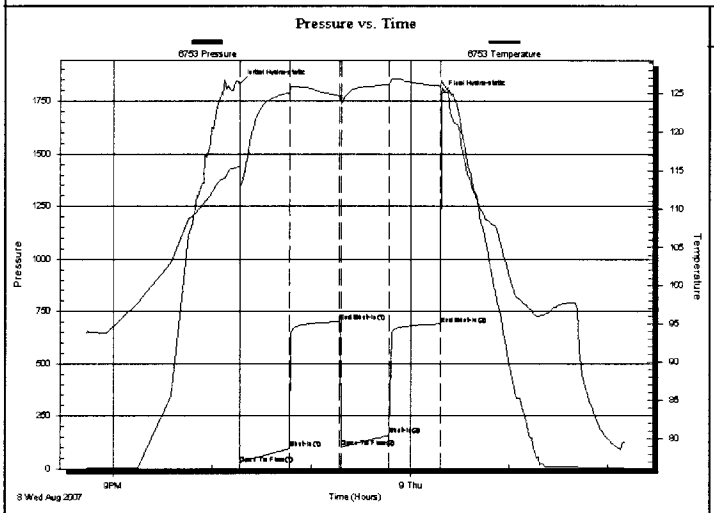
Reference Elevations: 2192.00 ft (KB)
2184.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6753 **Inside**

Press@RunDepth: 157.19 psig @ 3679.00 ft (KB)
Start Date: 2007.08.08 End Date: 2007.08.09
Start Time: 20:43:06 End Time: 02:10:30

Capacity: 7000.00 psig
Last Calib.: 2007.08.09
Time On Btm: 2007.08.08 @ 22:16:31
Time Off Btm: 2007.08.09 @ 00:18:31

TEST COMMENT: IFP BOB in 19 min
ISI No blow back
FFP BOB in 25 min
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1835.43	115.40	Initial Hydro-static
1	22.19	113.18	Open To Flow (1)
30	93.98	125.03	Shut-In(1)
61	700.66	124.65	End Shut-In(1)
62	100.66	123.64	Open To Flow (2)
91	157.19	126.15	Shut-In(2)
122	687.79	125.89	End Shut-In(2)
122	1781.33	126.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MW 85%W15%M	0.56
45.00	MW 70%W 30%M	0.63

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Production Drilling Inc

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

Raynesford #7

17 13 20W Ellis KS

Job Ticket: 29184 **DST#: 3**

Test Start: 2007.08.08 @ 20:43:01

Tool Information

Drill Pipe:	Length:	3650.00 ft	Diameter:	3.80 inches	Volume:	51.20 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	31.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	51.35 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		26.00 ft					String Weight: Initial	52000.00 lb
Depth to Top Packer:		3676.00 ft					Final	54000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		20.00 ft						
Tool Length:		41.00 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			3656.00		
Shut In Tool	5.00			3661.00		
Hydraulic tool	5.00			3666.00		
Packer	5.00			3671.00	21.00	Bottom Of Top Packer
Packer	5.00			3676.00		
Stubb	1.00			3677.00		
Perforations	2.00			3679.00		
Recorder	0.00	6753	Inside	3679.00		
Perforations	14.00			3693.00		
Recorder	0.00	13534		3693.00		
Bullnose	3.00			3696.00	20.00	Bottom Packers & Anchor
Total Tool Length:	**41.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Production Drilling Inc

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

Raynesford #7

17 13 20W Ellis KS

Job Ticket: 29184 **DST#: 3**

Test Start: 2007.08.08 @ 20:43:01

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:	43000 ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.38 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4200.00 ppm				
Filter Cake:	inches				

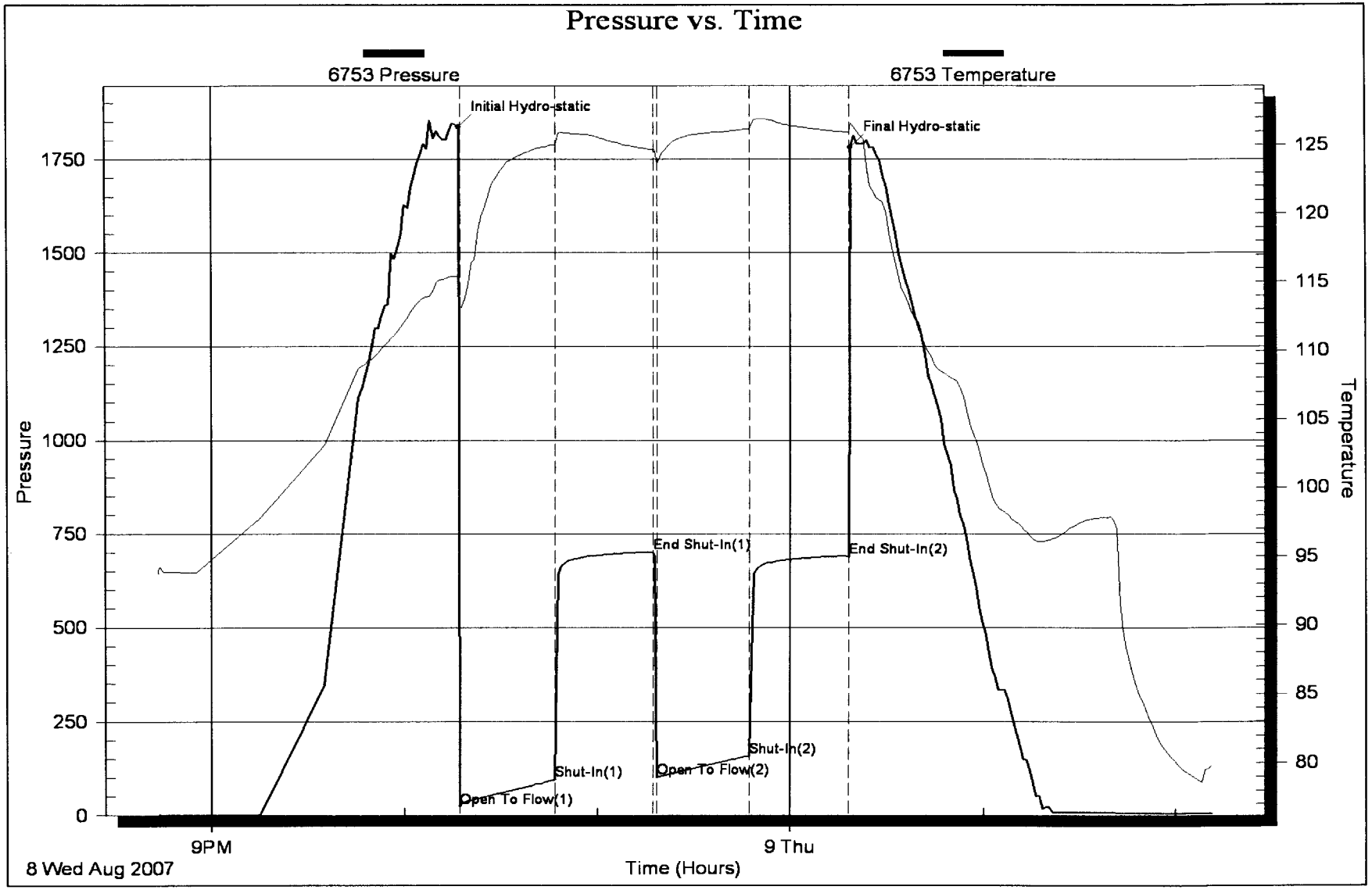
Recovery Information

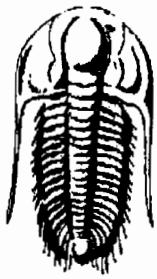
Recovery Table

Length ft	Description	Volume bbl
60.00	MW 85%W15%M	0.559
45.00	MW 70%W 30%M	0.631

Total Length: 105.00 ft Total Volume: 3.716 bbl

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


Pressure vs. Time
6753 Pressure
6753 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
1750
1500
1250
1000
750
500
250
0
125
120
115
110
105
100
95
90
85
80
9PM
9 Thu
8 Wed Aug 2007
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Production Drilling Inc**

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

17 13 20W Ellis KS

Raynesford #7

Start Date: 2007.08.09 @ 18:50:27
End Date: 2007.08.10 @ 00:31:57
Job Ticket #: 29185 DST #: 4

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

DRILL STEM TEST REPORT

Production Drilling Inc

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

Raynesford #7

17 13 20W Ellis KS

Job Ticket: 29185 **DST#: 4**

Test Start: 2007.08.09 @ 18:50:27

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:23:57
Time Test Ended: 00:31:57

Test Type: Conventional Bottom Hole
Tester: Paul Simpson
Unit No: 42

Interval: 3844.00 ft (KB) To 3864.00 ft (KB) (TVD)
Total Depth: 3864.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

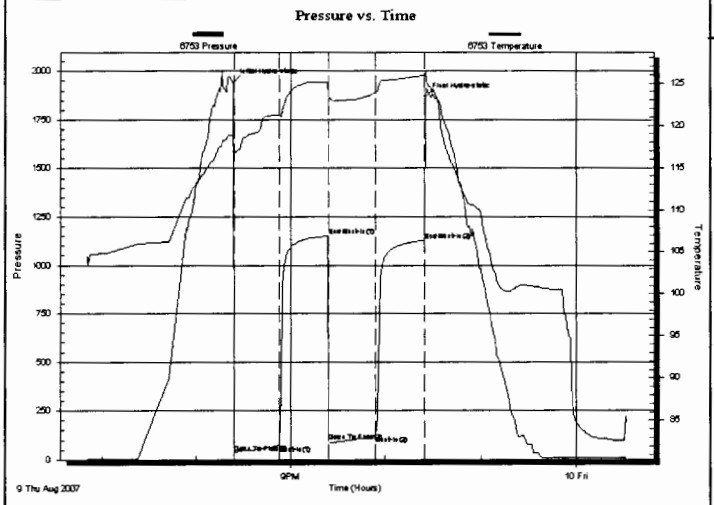
Reference Elevations: 2192.00 ft (KB)
2184.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6753 **Inside**

Press@RunDepth: 122.03 psig @ 3847.01 ft (KB)
Start Date: 2007.08.09 End Date: 2007.08.10
Start Time: 18:50:32 End Time: 00:31:56

Capacity: 7000.00 psig
Last Calib.: 2006.08.10
Time On Btm: 2007.08.09 @ 20:23:27
Time Off Btm: 2007.08.09 @ 22:24:57

TEST COMMENT: IF Weak 1/2 " blow building to bottom of bucket in 14 minutes
ISI Weak surface blow building to 3/4 "
FF Weak blow building to bottom of bucket in 12 minutes
FSI Blow built to 1 1/2 "



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.57	118.85	Initial Hydro-static
1	32.39	116.94	Open To Flow (1)
30	72.86	121.19	Shut-In(1)
61	1151.09	125.11	End Shut-In(1)
61	94.81	123.41	Open To Flow (2)
91	122.03	123.85	Shut-In(2)
121	1128.47	125.86	End Shut-In(2)
122	1869.62	126.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GW&MCO 10%G 60%O 10%W 20%M	1.40
170.00	GOil 15% Gas 85% Oil	2.38
0.00	Gas In Pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Production Drilling Inc

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

Raynesford #7

17 13 20W Ellis KS

Job Ticket: 29185 **DST#: 4**

Test Start: 2007.08.09 @ 18:50:27

Tool Information

Drill Pipe:	Length:	3806.00 ft	Diameter:	3.80 inches	Volume:	53.39 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:	20000.00 lb
Drill Collar:	Length:	31.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	62000.00 lb
					Total Volume:	53.54 bbl	Tool Chased	ft
Drill Pipe Above KB:		14.00 ft					String Weight: Initial	56000.00 lb
Depth to Top Packer:		3844.00 ft					Final	57000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		21.01 ft						
Tool Length:		42.01 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			3824.00		
Shut In Tool	5.00			3829.00		
Hydraulic tool	5.00			3834.00		
Packer	5.00			3839.00	21.00	Bottom Of Top Packer
Packer	5.00			3844.00		
Stubb	1.00			3845.00		
Perforations	2.00			3847.00		
Recorder	0.01	6753	Inside	3847.01		
Perforations	15.00			3862.01		
Recorder	0.00	13534		3862.01		
Bullnose	3.00			3865.01	21.01	Bottom Packers & Anchor
Total Tool Length:	**42.01**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Production Drilling Inc

PO Box 680
Hays KS 67601

ATTN: Marty Patterson

Raynesford #7

17 13 20W Ellis KS

Job Ticket: 29185 **DST#: 4**

Test Start: 2007.08.09 @ 18:50:27

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.17 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
120.00	GW&MCO 10%G 60%O 10%W 20%M	1.401
170.00	GOil 15% Gas 85% Oil	2.385
0.00	Gas In Pipe	0.000

Total Length: 290.00 ft Total Volume: 3.786 bbl

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

29182

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

10/05

10487

Test Ticket

Well Name & No. Raynford #D Test No. 1 Date 8/7/07

Company Production Drilling Inc Zone Tested F

Address Box 580 Hays Ks 67601 Elevation 2192 KB 2184 GL

Co. Rep / Geo. Cliff Ottoway Rig Discovery #1

Location: Sec. 17 Twp. 13s Rge. 20w Co. Ell State Ks

Comment: Release date / time:

Interval Tested 3544 - 3567 Initial Str Wt./Lbs. 52,000 Unseated Str Wt/Lbs 54,000

Anchor Length 23 Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs 58,000

Top Packer Depth 3539 Tool Weight

Bottom Packer Depth 3544 Hole Size 7 7/8" Rubber Size 6 3/4"

Total Depth 3567 Wt. Pipe Run Drill Collar Run 31

Mud Wt. 9.2 LCM Vis. 55 WL 8.8 Drill Pipe Size 4½ XH Ft. Run 3492

Blow Description 1½" blow building to bottom of bucket in 16 Minutes
PSI surface blow built to ¼"
ff ¾" blow building to bottom of bucket in 18 minutes

Recovery - Total Feet 285 GIP 210 Ft. in DC 31 Ft. in DP 2551

Rec. 250 Feet of MW %gas %oil 80 %water 20 %mud

Rec. 10 Feet of %gas %oil %water %mud

Rec. 25 Feet of Clean Oil %gas %oil %water %mud

Rec. Feet of %gas %oil %water %mud

Rec. Feet of %gas %oil %water %mud

BHT 122 °F Gravity °API D @ °F Corrected Gravity °API

RW .09 @ 94 °F Chlorides 94,000 ppm Recovery Chlorides ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud		1762	PSI	Recorder No.	6753	Test	1100
(B) First Initial Flow Pressure		27	PSI	(depth)	3549	Jars	
(C) First Final Flow Pressure		95	PSI	Recorder No.	13534	Safety Jt.	
(D) Initial Shut-In Pressure		763	PSI	(depth)	3564	Circ Sub	
(E) Second Initial Flow Pressure		100	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure		151	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure		753	PSI	**Initial Opening**	30	Ext. Packer	
(Q) Final Hydrostatic Mud		1703	PSI	Initial Shut-In	30	Shale Packer	
				Final Flow	30	Ruined Packer	
				Final Shut-In	30	Mileage 20 X 2	50
				T-On Location	B/T	Sub Total:	
				T-Started	1420	Std. By	
				T-Open	1551	Acc. Chg:	
				T-Pulled	1751	Other:	
				T-Out	1928	Total:	$1150

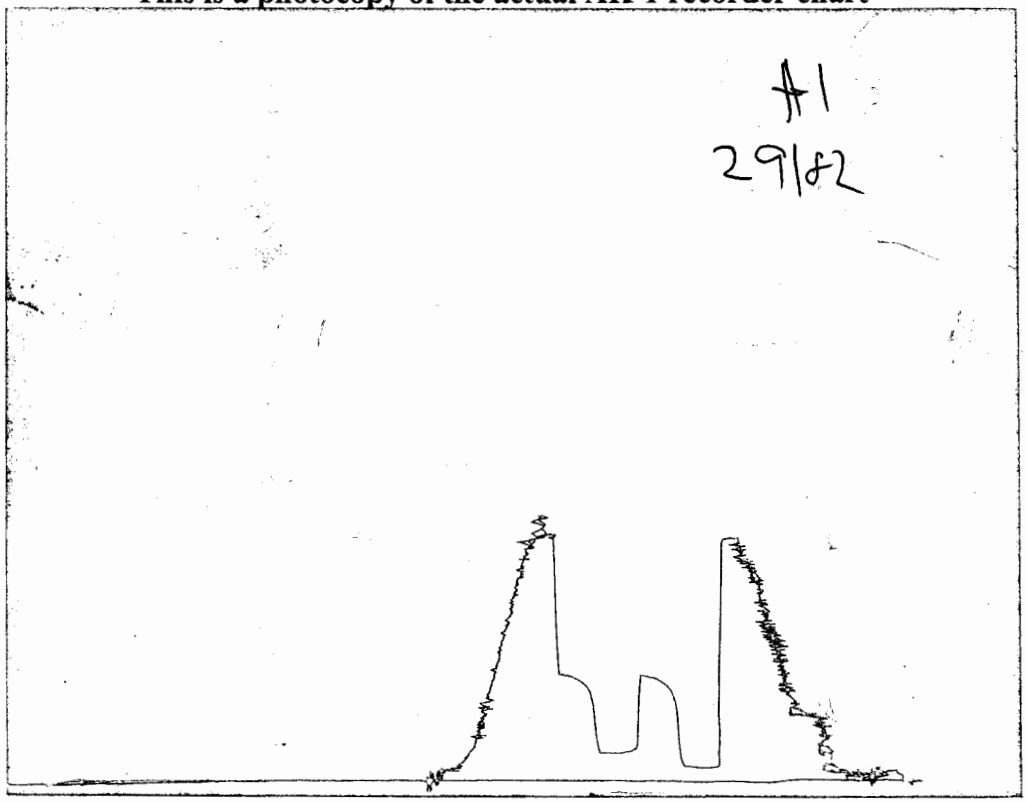
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Approved By

Our Representative Paul Simpson

CHART PAGE

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Production Drilling
Raynesford

29183

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

10/05

Test Ticket

Well Name & No. Ramsford #1 Test No. 2 Date 8/8/07

Company Production Drilling Zone Tested F

Address Elevation 2192 KB 2184 GL

Co. Rep / Geo. Cliff Ottaway Rig Discovery #1

Location: Sec. Twp. Rge. Co. State

Comment: Release date / time:

Interval Tested 3629 -3646 Initial Str Wt./Lbs. 54,000 Unseated Str Wt/Lbs.

Anchor Length 17 Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs.

Top Packer Depth 3624 Tool Weight 2000

Bottom Packer Depth 3629 Hole Size 7 7/8" Rubber Size 6 3/4"

Total Depth 3646 Wt. Pipe Run Drill Collar Run 31

Mud Wt. 9.1 LCM Vis. 50 WL Drill Pipe Size 4 1/2 XH Ft. Run 3587

Blow Description Weak 1/2" blow building to 9"
ISI no blow
FF- surface blow building to 7.5"

Recovery - Total Feet 90 GIP 100 Ft. in DC 31 Ft. in DP 59

Rec. 80 Feet of MW %gas %oil 70 %water 30 %mud

Rec. 10 Feet of clean oil %gas %oil %water %mud

Rec. Feet of %gas %oil %water %mud

Rec. Feet of %gas %oil %water %mud

Rec. Feet of %gas %oil %water %mud

BHT 121 °F Gravity °API D @ °F Corrected Gravity °API

RW 11 @ 100 °F Chlorides 50,000 ppm Recovery Chlorides ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud		1795 PSI	Recorder No.	6753	Test	1100
(B) First Initial Flow Pressure		25 PSI	(depth)	3633	Jars	
(C) First Final Flow Pressure		49 PSI	Recorder No.	13534	Safety Jt.	
(D) Initial Shut-In Pressure		639 PSI	(depth)	3643	Circ Sub	
(E) Second Initial Flow Pressure		53 PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure		65 PSI	(depth)		Straddle	
(G) Final Shut-In Pressure		467 PSI	**Initial Opening**	45	Ext. Packer	
(Q) Final Hydrostatic Mud		1769 PSI	Initial Shut-In	30	Shale Packer	
			Final Flow	60	Ruined Packer	
			Final Shut-In	30	Mileage 2 x 2	50
			T-On Location	0615	Sub Total:	
			T-Started	0656	Std. By	
			T-Open	0815	Acc. Chg:	
			T-Pulled		Other:	
			T-Out		Total:	1150

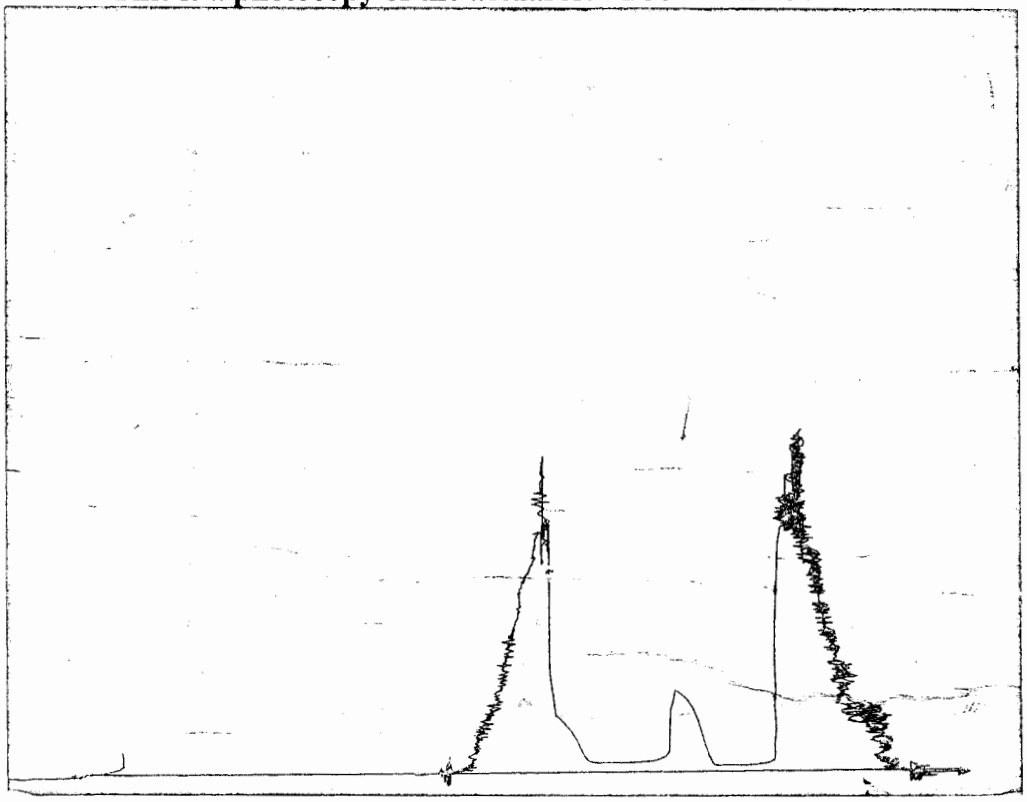
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Approved By

Our Representative Paul Singy

CHART PAGE

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29184

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

10/05

Test Ticket

Well Name & No. Raynesford #7 Test No. 3 Date 8-8-07

Company Production Zone Tested LKC "K"

Address PO Box 680 Hays, Ks 67601 Elevation 2192 KB 2184 GL

Co. Rep / Geo. Cliff Ottoway Rig Discovery #1

Location: Sec. 17 Twp. 13S Rge. 20W Co. Ellis State Ks

Comment: Release date / time:

Interval Tested 3676 - 3696 Initial Str Wt./Lbs. 52000 Unseated Str Wt/Lbs. 54000

Anchor Length 20 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 60000

Top Packer Depth 3671 Tool Weight 2200

Bottom Packer Depth 3676 Hole Size 7 7/8" — Rubber Size 6 3/4" —

Total Depth 3696 Wt. Pipe Run — Drill Collar Run 31

Mud Wt. 9.2 LCM — Vis. 49 WL 8.4 Drill Pipe Size 4½ XH Ft. Run 3650

Blow Description IFP - BOB in 19 min
ISI - no blow back
FFP - BOB in 25 min
FSI - no blow back

Recovery - Total Feet 285 GIP Ft. in DC 31 Ft. in DP 254

Rec. 45	Feet of MW	%gas	%oil	70 %water	30 %mud	
Rec. 60	Feet of MW	%gas	%oil	85 %water	15 %mud	
Rec. 140	Feet of MW	%gas	%oil	95 %water	5 %mud	
Rec.	Feet of	%gas	%oil	%water	%mud	
Rec.	Feet of	%gas	%oil	%water	%mud	

BHT °F Gravity °API D @ °F Corrected Gravity °API

RW .15 @ 75 °F Chlorides 43000 ppm Recovery Chlorides 47200 ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud	1788		PSI	Recorder No.	6753	Test X	1100
(B) First Initial Flow Pressure	14 to 109		PSI	(depth)	3679	Jars	
(C) First Final Flow Pressure	109		PSI	Recorder No.	13534	Safety Jt.	
(D) Initial Shut-In Pressure	683		PSI	(depth)	3693	Circ Sub	
(E) Second Initial Flow Pressure	163		PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure	191		PSI	(depth)		Straddle	
(G) Final Shut-In Pressure	655		PSI	**Initial Opening**	30	Ext. Packer	
(Q) Final Hydrostatic Mud	1746		PSI	Initial Shut-In	30	Shale Packer	
				Final Flow	30	Ruined Packer	
				Final Shut-In	30	Mileage X 40	50.00
				T-On Location	20:00	Sub Total:	1150
				T-Started	20:28	Std. By	
				T-Open	22:03	Acc. Chg:	
				T-Pulled	00:03	Other:	
				T-Out	2:10	Total:	

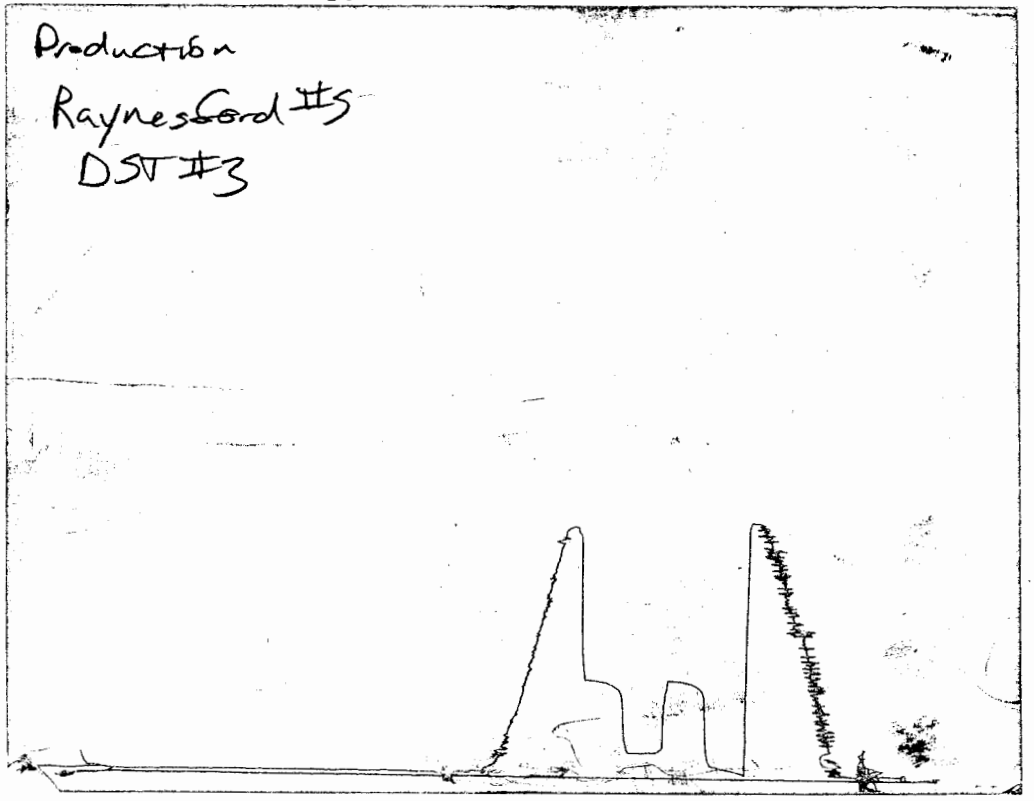
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Approved By

Our Representative

CHART PAGE

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29135

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

10/05

Test Ticket

Well Name & No. Ramsford #1 Test No. 4 Date 8/9/07

Company Production Drilling Zone Tested Arb

Address _____ Elevation 2192 KB 2184 GL

Co. Rep / Geo. Cliff Ottawy Rig Discovery #1

Location: Sec. 17 Twp. 13s Rge. 20w Co. Gty State KS

Comment: _____ Release date / time: _____

Interval Tested 3844-3864 Initial Str Wt./Lbs. 56,000 Unseated Str Wt/Lbs. 57,000

Anchor Length 20 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 62,000

Top Packer Depth 3839 Tool Weight 2000

Bottom Packer Depth 3844 Hole Size 7 7/8" Rubber Size 6 3/4"

Total Depth 3864 Wt. Pipe Run _____ Drill Collar Run 31

Mud Wt. 9.4 LCM _____ Vis. 51 WL 9.2 Drill Pipe Size 4½ XH Ft. Run 3775

Blow Description weak ½" blow building to bottom of bucket in 14 minutes
ISI - weak ⅜" blow
FF - ½" blow building to bottom of bucket in 12 Minutes
FSI - blow built to 1½"

Recovery - Total Feet 290 GIP 190 Ft. in DC 31 Ft. in DP 259

Rec. 120	Feet of Gsy Oil w/MCO	10	%gas	60	%oil	10	%water	20	%mud
Rec. 170	Feet of Gsy Oil	15	%gas	85	%oil		%water		%mud
Rec.	Feet of		%gas		%oil		%water		%mud
Rec.	Feet of		%gas		%oil		%water		%mud
Rec.	Feet of		%gas		%oil		%water		%mud

BHT 125 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides _____ ppm System

	AK-1	Alpine					
(A) Initial Hydrostatic Mud		1947	PSI	Recorder No.	6753	Test X	1100
(B) First Initial Flow Pressure		32	PSI	(depth)	3847	Jars	
(C) First Final Flow Pressure		73	PSI	Recorder No.	13534	Safety Jt.	
(D) Initial Shut-In Pressure		1151	PSI	(depth)	3861	Circ Sub	
(E) Second Initial Flow Pressure		87	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure		122	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure		1128	PSI	**Initial Opening**	30	Ext. Packer	
(Q) Final Hydrostatic Mud		1874	PSI	Initial Shut-In	30	Shale Packer	
				Final Flow	30	Ruined Packer	
				Final Shut-In	30	Mileage	20 ½ 50
				T-On Location	1835	Sub Total:	
				T-Started	1900	Std. By	
				T-Open	2033	Acc. Chg:	
				T-Pulled	2233	Other:	
				T-Out	0031	Total:	1150

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Approved By _____

Our Representative Tom Simpson

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