

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Bruce Oil Company,LLC**

1704 Limestone Road
McPherson, KS. 67460

ATTN: Randy Killian

18-7s-20w-Rooks

Ilene #1

Start Date: 2005.09.21 @ 23:10:56
End Date: 2005.09.22 @ 06:30:26
Job Ticket #: 23795 DST #: 1

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Bruce Oil Company,LLC

1704 Limestone Road
McPherson, KS. 67460

ATTN: Randy Killian

Ilene #1

18-7s-20w-Rooks

Job Ticket: 23795 **DST#: 1**

Test Start: 2005.09.21 @ 23:10:56

GENERAL INFORMATION:

Formation: **Toronto**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:48:26
Time Test Ended: 06:30:26

Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 32

Interval: 3263.00 ft (KB) To 3300.00 ft (KB) (TVD)
Total Depth: 3300.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

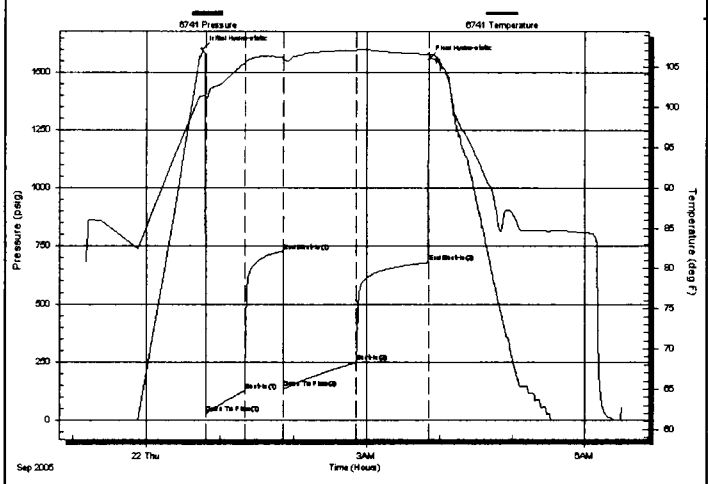
Reference Elevations: 2089.00 ft (KB)
2084.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6741 **Inside**

Press@RunDepth: 247.27 psig @ 3267.00 ft (KB)
Start Date: 2005.09.21 End Date: 2005.09.22
Start Time: 23:10:58 End Time: 06:30:26

Capacity: 7000.00 psig
Last Calib.: 2005.09.22
Time On Btm: 2005.09.22 @ 00:45:26
Time Off Btm: 2005.09.22 @ 03:51:26

TEST COMMENT: IFP-Good Blow ,BOB in 6 Min. Strong Throughout
ISI-Blow back Built to 1"
FFP-Good Blow ,BOB in 10 Min. Strong Throughout
FSI-Blow back Built to



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1599.99	101.32	Initial Hydro-static
3	26.76	101.08	Open To Flow (1)
35	125.31	105.48	Shut-In(1)
66	728.78	106.18	End Shut-In(1)
67	135.49	105.98	Open To Flow (2)
127	247.27	107.08	Shut-In(2)
186	679.42	106.57	End Shut-In(2)
186	1556.45	106.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	Free Oil	0.77
50.00	MCO-75%O-15%W-10%M	0.70
60.00	OCMW-25%G-35%O-30%W-10%M	0.84
120.00	OCMW-20%G-25%O-15%W-40%M	1.68
240.00	VSOCMW-2%O-88%W-10%M	3.37

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bruce Oil Company,LLC

1704 Limestone Road
McPherson, KS. 67460

ATTN: Randy Killian

Ilene #1

18-7s-20w-Rooks

Job Ticket: 23795 **DST#: 1**

Test Start: 2005.09.21 @ 23:10:56

Tool Information

Drill Pipe:	Length:	3255.00 ft	Diameter:	3.80 inches	Volume:	45.66 bbl	Tool Weight:		22000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:		lb
					Total Volume:	45.66 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		13.00 ft					String Weight:	Initial	39000.00 lb
Depth to Top Packer:		3263.00 ft						Final	lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		37.00 ft							
Tool Length:		58.00 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			3243.00		
Shut In Tool	5.00			3248.00		
Hydraulic tool	5.00			3253.00		
Packer	5.00			3258.00	21.00	Bottom Of Top Packer
Packer	5.00			3263.00		
Stubb	1.00			3264.00		
Perforations	3.00			3267.00		
Recorder	0.00	6741	Inside	3267.00		
Perforations	30.00			3297.00		
Recorder	0.00	13252	Outside	3297.00		
Bullnose	3.00			3300.00	37.00	Bottom Packers & Anchor
Total Tool Length:	**58.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Bruce Oil Company,LLC

1704 Limestone Road
McPherson, KS. 67460

ATTN: Randy Killian

Ilene #1

18-7s-20w-Rooks

Job Ticket: 23795 **DST#: 1**

Test Start: 2005.09.21 @ 23:10:56

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	32 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	62000 ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.18 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	1.00 inches				

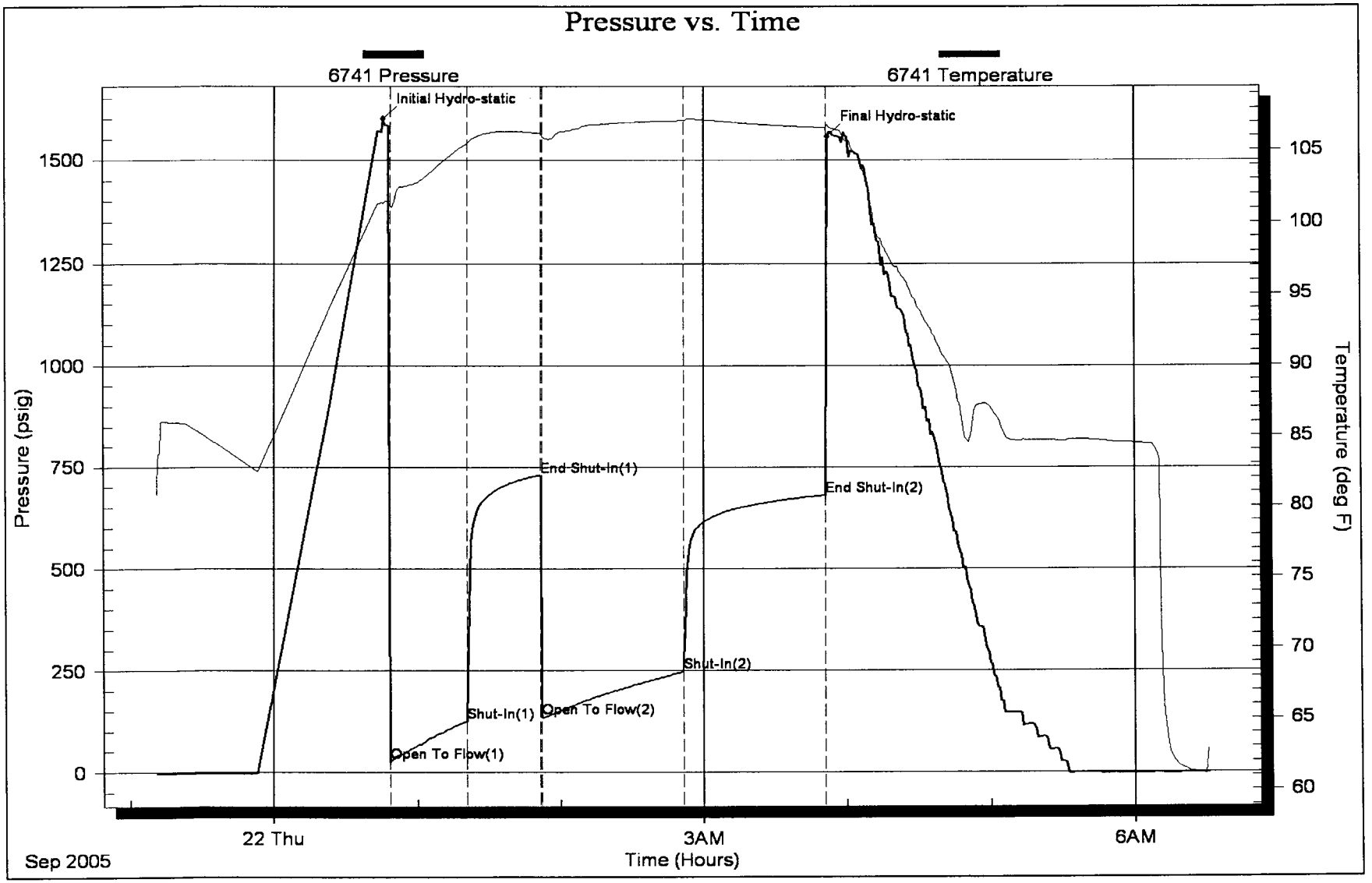
Recovery Information

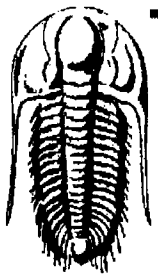
Recovery Table

Length ft	Description	Volume bbl
55.00	Free Oil	0.772
50.00	MCO-75%O-15%W-10%M	0.701
60.00	OCMW-25%G-35%O-30%W-10%M	0.842
120.00	OCMW-20%G-25%O-15%W-40%M	1.683
240.00	VSOCMW-2%O-88%W-10%M	3.367

Total Length: 525.00 ft Total Volume: 7.365 bbl

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


Pressure vs. Time
6741 Pressure
6741 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 (psig)
Temperature (deg F)
1500
1250
1000
750
500
250
0
105
100
95
90
85
80
75
70
65
60
22 Thu
3AM
6AM
Sep 2005
Time (Hours)



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DRILL STEM TEST REPORT

Prepared For: **Bruce Oil Company,LLC**

1704 Limestone Road
McPherson, KS. 67460

ATTN: Randy Killian

18-7s-20w-Rooks

Ilene #1

Start Date: 2005.09.22 @ 15:05:10
End Date: 2005.09.22 @ 20:50:55
Job Ticket #: 232796 DST #: 2

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Bruce Oil Company,LLC

1704 Limestone Road
McPherson, KS. 67460

ATTN: Randy Killian

Ilene #1

18-7s-20w-Rooks

Job Ticket: 232796 **DST#: 2**

Test Start: 2005.09.22 @ 15:05:10

GENERAL INFORMATION:

Formation: **LKC-"A"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:37:25
Time Test Ended: 20:50:55

Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 32

Interval: 3297.00 ft (KB) To 3320.00 ft (KB) (TVD)
Total Depth: 3320.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

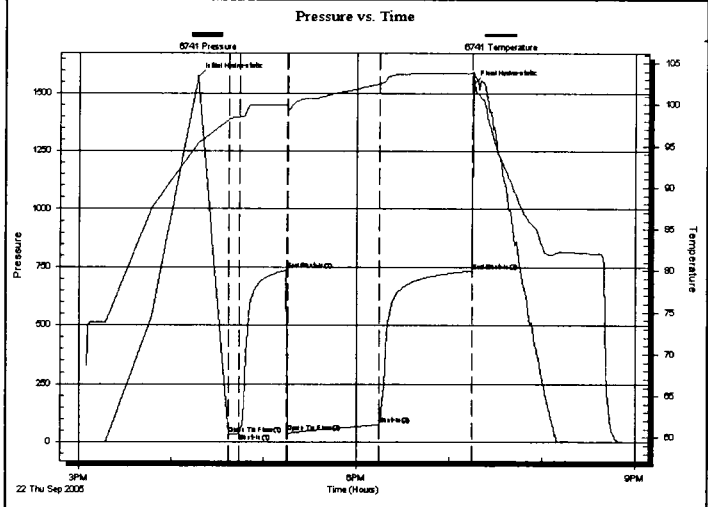
Reference Elevations: 2089.00 ft (KB)
2084.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6741 **Inside**

Press@RunDepth: 74.28 psig @ 3299.00 ft (KB)
Start Date: 2005.09.22 End Date: 2005.09.22
Start Time: 15:05:12 End Time: 20:50:55

Capacity: 7000.00 psig
Last Calib.: 2005.09.22
Time On Btm: 2005.09.22 @ 16:17:10
Time Off Btm: 2005.09.22 @ 19:15:25

TEST COMMENT: IFP-Good Blow ,BOB in 16 Min.
ISI-Blow back Built to 2-1/2"
FFP-GoodBlow ,BOB in 12 Min.
FSI-Blow back Built to 2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1570.92	95.36	Initial Hydro-static
21	31.78	98.21	Open To Flow (1)
27	35.55	98.49	Shut-In(1)
58	735.59	99.91	End Shut-In(1)
58	39.54	99.61	Open To Flow (2)
118	74.28	102.48	Shut-In(2)
178	734.42	103.72	End Shut-In(2)
179	1540.16	104.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	Free Oil	1.19
80.00	HOCM-15%G-50%O-35%M	1.12

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bruce Oil Company,LLC

1704 Limestone Road
McPherson, KS. 67460

ATTN: Randy Killian

Ilene #1

18-7s-20w-Rooks

Job Ticket: 232796 **DST#: 2**

Test Start: 2005.09.22 @ 15:05:10

Tool Information

Drill Pipe:	Length:	3285.00 ft	Diameter:	3.80 inches	Volume:	46.08 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	46.08 bbl	

Drill Pipe Above KB:	9.00 ft
Depth to Top Packer:	3297.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	23.00 ft
Tool Length:	44.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:	22000.00 lb
Weight set on Packer:	25000.00 lb
Weight to Pull Loose:	42000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	38000.00 lb
Final	40000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3277.00		
Shut In Tool	5.00			3282.00		
Hydraulic tool	5.00			3287.00		
Packer	5.00			3292.00	21.00	Bottom Of Top Packer
Packer	5.00			3297.00		
Stubb	1.00			3298.00		
Perforations	1.00			3299.00		
Recorder	0.00	6741	Inside	3299.00		
Perforations	18.00			3317.00		
Recorder	0.00	13252	Outside	3317.00		
Bullnose	3.00			3320.00	23.00	Bottom Packers & Anchor
Total Tool Length:	**44.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Bruce Oil Company,LLC

1704 Limestone Road
McPherson, KS. 67460

ATTN: Randy Killian

Ilene #1

18-7s-20w-Rooks

Job Ticket: 232796 **DST#: 2**

Test Start: 2005.09.22 @ 15:05:10

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	37.5 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

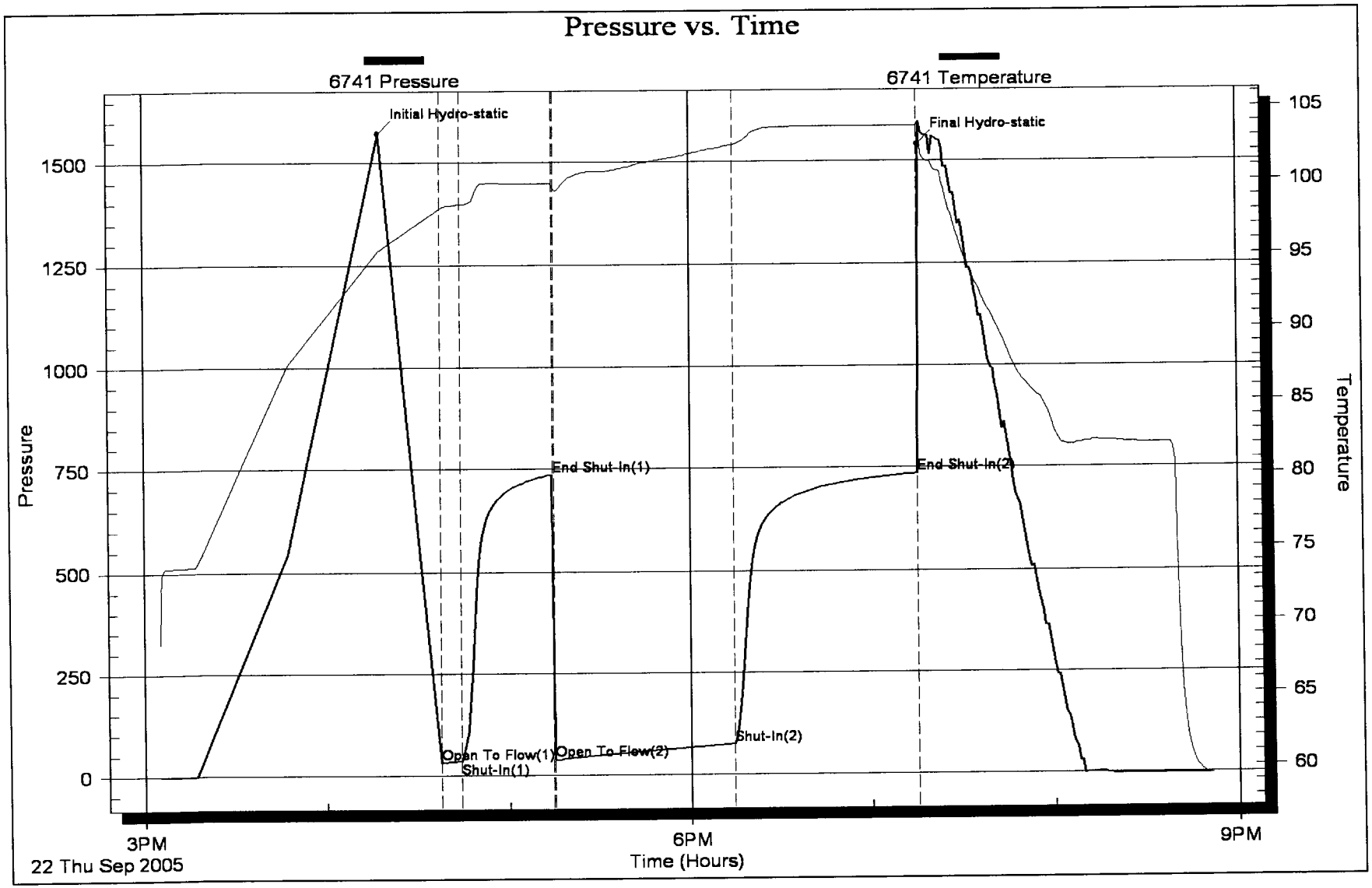
Length ft	Description	Volume bbl
85.00	Free Oil	1.192
80.00	HOCM-15%G-50%O-35%M	1.122

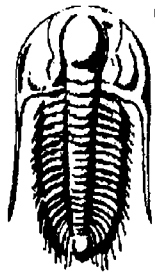
Total Length: 165.00 ft Total Volume: 2.314 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 495' GIP


Pressure vs. Time
6741 Pressure
6741 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
65
60
3PM
22 Thu Sep 2005
6PM
Time (Hours)
9PM



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DRILL STEM TEST REPORT

Prepared For: **Bruce Oil Company,LLC**

1704 Limestone Road
McPherson, KS. 67460

ATTN: Randy Killian

18-7s-20w-Rooks

Ilene #1

Start Date: 2005.09.23 @ 08:28:40
End Date: 2005.09.23 @ 16:16:40
Job Ticket #: 23797 DST #: 3

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

DRILL STEM TEST REPORT

Bruce Oil Company,LLC

1704 Limestone Road
McPherson, KS. 67460

ATTN: Randy Killian

Ilene #1

18-7s-20w-Rooks

Job Ticket: 23797 **DST#: 3**

Test Start: 2005.09.23 @ 08:28:40

GENERAL INFORMATION:

Formation: **LKC-"F-G"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:01:40
Time Test Ended: 16:16:40

Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 32

Interval: 3365.00 ft (KB) To 3415.00 ft (KB) (TVD)
Total Depth: 3415.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

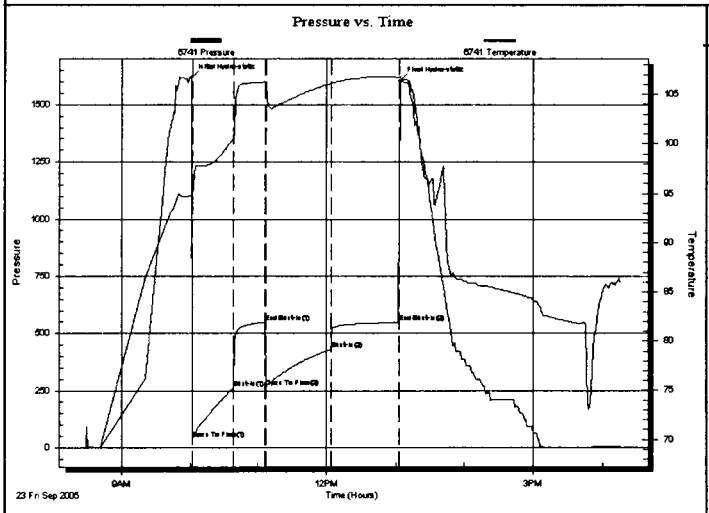
Reference Elevations: 2089.00 ft (KB)
2084.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6741 **Inside**

Press@RunDepth: 429.45 psig @ 3368.00 ft (KB)
Start Date: 2005.09.23 End Date: 2005.09.23
Start Time: 08:28:42 End Time: 16:16:40

Capacity: 7000.00 psig
Last Calib.: 2005.09.23
Time On Btm: 2005.09.23 @ 10:01:25
Time Off Btm: 2005.09.23 @ 13:03:10

TEST COMMENT: IFP-Strong Blow ,BOB in 2-1/2 Min. Strong Throughout
ISI-ISI-Blow back Built to BOB in 14 Min.
FFP-Strong Blow ,BOB in 3 Min. Strong Throughout
FSI-Blow back Built to BOB in 25 Min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1618.96	94.78	Initial Hydro-static
1	38.99	94.41	Open To Flow (1)
37	262.19	100.57	Shut-In(1)
66	548.67	106.23	End Shut-In(1)
66	267.73	106.10	Open To Flow (2)
123	429.45	106.08	Shut-In(2)
181	547.29	106.70	End Shut-In(2)
182	1603.41	106.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
750.00	Free Oil	10.52
60.00	HOCM-45%G-35%O-20%M	0.84
60.00	MCO-28%G-55%O-2%W-15%M	0.84
120.00	MWCO-10%G-65%O-20%W-5%M	1.68
60.00	OCMW-15%G-20%O-35%W-30%M	0.84

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bruce Oil Company,LLC

1704 Limestone Road
McPherson, KS. 67460

ATTN: Randy Killian

Ilene #1

18-7s-20w-Rooks

Job Ticket: 23797 **DST#: 3**

Test Start: 2005.09.23 @ 08:28:40

Tool Information

Drill Pipe:	Length:	3377.00 ft	Diameter:	3.80 inches	Volume:	47.37 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	47.37 bbl	

Drill Pipe Above KB:	33.00 ft
Depth to Top Packer:	3365.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	50.00 ft
Tool Length:	71.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		22000.00 lb
Weight set on Packer:		25000.00 lb
Weight to Pull Loose:		46000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	40000.00 lb
	Final	44000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3345.00		
Shut In Tool	5.00			3350.00		
Hydraulic tool	5.00			3355.00		
Packer	5.00			3360.00	21.00	Bottom Of Top Packer
Packer	5.00			3365.00		
Stubb	1.00			3366.00		
Perforations	2.00			3368.00		
Recorder	0.00	6741	Inside	3368.00		
Change Over Sub	1.00			3369.00		
Blank Spacing	32.00			3401.00		
Change Over Sub	1.00			3402.00		
Perforations	10.00			3412.00		
Recorder	0.00	13221	Outside	3412.00		
Bullnose	3.00			3415.00	50.00	Bottom Packers & Anchor
Total Tool Length:	**71.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Bruce Oil Company,LLC

1704 Limestone Road
McPherson, KS. 67460

ATTN: Randy Killian

Ilene #1

18-7s-20w-Rooks

Job Ticket: 23797 **DST#: 3**

Test Start: 2005.09.23 @ 08:28:40

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	33 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	71000 ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.17 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	1.00 inches				

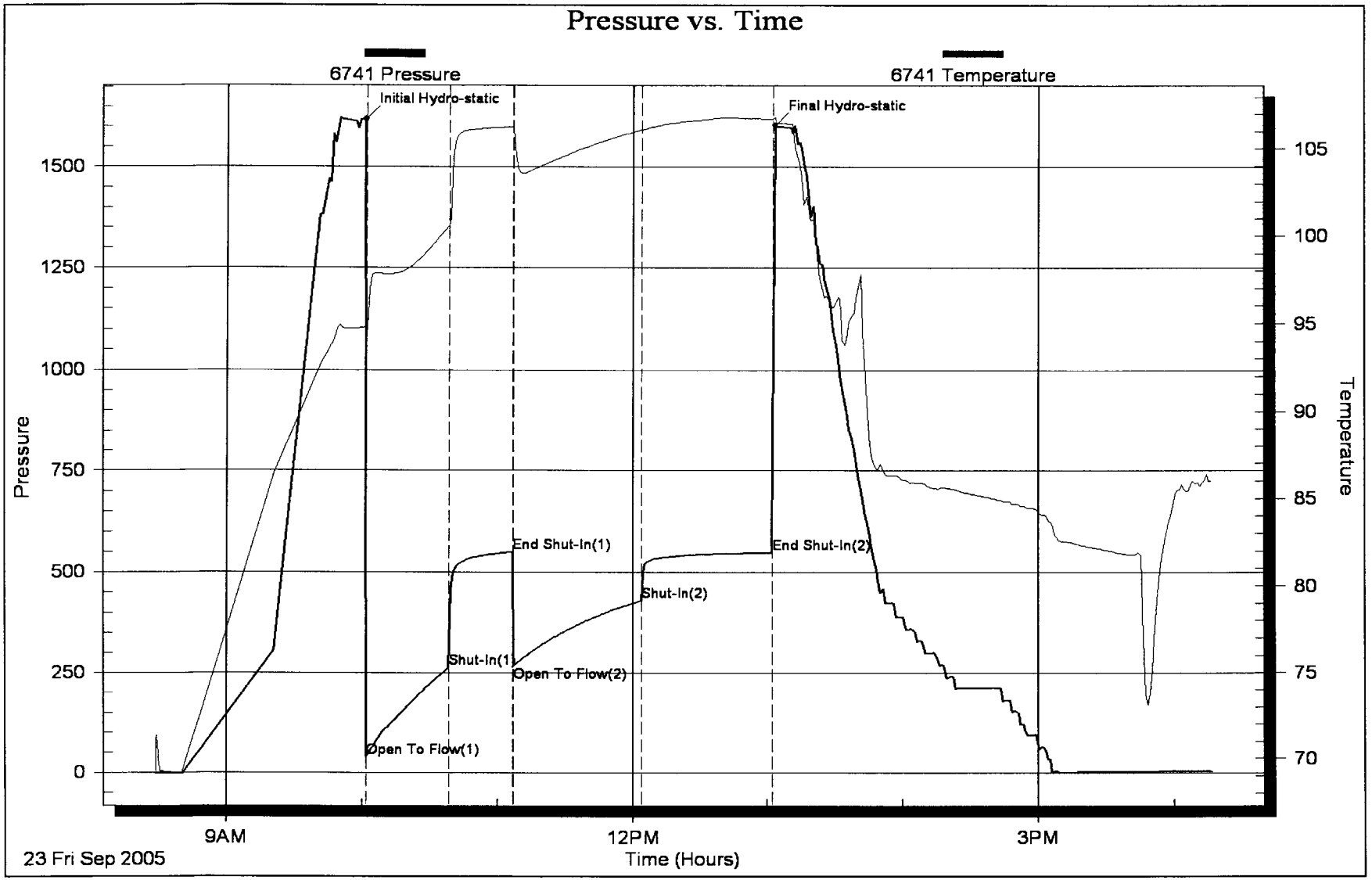
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
750.00	Free Oil	10.521
60.00	HOCM-45%G-35%O-20%M	0.842
60.00	MCO-28%G-55%O-2%W-15%M	0.842
120.00	MWCO-10%G-65%O-20%W-5%M	1.683
60.00	OCMW-15%G-20%O-35%W-30%M	0.842

Total Length: 1050.00 ft Total Volume: 14.730 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 720' GIP


Pressure vs. Time
6741 Pressure
6741 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Shut-In(1)
Open To Flow(2)
Open To Flow(1)
Pressure
Temperature
1500
1250
1000
750
500
250
0
105
100
95
90
85
80
75
70
9AM
12PM
3PM
Time (Hours)
23 Fri Sep 2005