

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **King Oil**

696 D Fairground Rd
Ellis KS 67637

ATTN: Cliff Ottaway

3 13 20 Ellis KS

Henrickson

Start Date: 2007.07.07 @ 20:34:04
End Date: 2007.07.08 @ 02:53:13
Job Ticket #: 28612 DST #: 1

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

DRILL STEM TEST REPORT

King Oil

696 D Fairground Rd
Ellis KS 67637

ATTN: Cliff Ottaway

Henrickson

3 13 20 Ellis KS

Job Ticket: 28612 **DST#: 1**

Test Start: 2007.07.07 @ 20:34:04

GENERAL INFORMATION:

Formation: **LKC "C-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:57:59
Time Test Ended: 02:53:13

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

Interval: 3498.00 ft (KB) To 3558.00 ft (KB) (TVD)
Total Depth: 3558.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

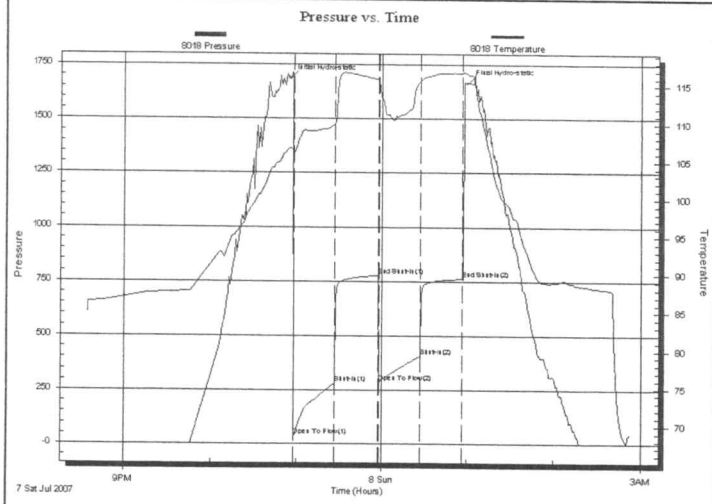
Reference Elevations: 2149.00 ft (KB)
2145.00 ft (CF)
KB to GR/CF: 4.00 ft

Serial #: 8018 **Inside**

Press@RunDepth: 406.65 psig @ 3502.01 ft (KB)
Start Date: 2007.07.07 End Date: 2007.07.08
Start Time: 20:34:04 End Time: 02:53:13

Capacity: 7000.00 psig
Last Calib.: 2007.07.08
Time On Btm: 2007.07.07 @ 22:54:59
Time Off Btm: 2007.07.08 @ 01:00:43

TEST COMMENT: IFP BOB 5 1/2 min.
ISI No blow back
FFP BOB 7 1/2 min.
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.04	106.71	Initial Hydro-static
3	37.60	106.05	Open To Flow (1)
32	281.02	109.91	Shut-In(1)
63	776.34	115.93	End Shut-In(1)
63	286.57	115.72	Open To Flow (2)
93	406.65	115.66	Shut-In(2)
122	761.97	116.75	End Shut-In(2)
126	1665.28	116.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
630.00	MW 80%W 20%M	5.98
170.00	WM 10%W 90%M	2.38

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

King Oil

696 D Fairground Rd
Ellis KS 67637

ATTN: Cliff Ottaway

Henrickson

3 13 20 Ellis KS

Job Ticket: 28612 **DST#: 1**

Test Start: 2007.07.07 @ 20:34:04

Tool Information

Drill Pipe:	Length:	3196.00 ft	Diameter:	3.80 inches	Volume:	44.83 bbl	
Heavy Wt. Pipe:	Length:	314.00 ft	Diameter:	2.25 inches	Volume:	1.54 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
					Total Volume:	46.37 bbl	

Drill Pipe Above KB:	32.00 ft
Depth to Top Packer:	3498.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	60.02 ft
Tool Length:	80.02 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:	42000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	36000.00 lb
Final	40000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3483.00		
Hydraulic tool	5.00			3488.00		
Packer	5.00			3493.00	20.00	Bottom Of Top Packer
Packer	5.00			3498.00		
Stubb	1.00			3499.00		
Perforations	2.00			3501.00		
Change Over Sub	1.00			3502.00		
Recorder	0.01	8018	Inside	3502.01		
Blank Spacing	32.00			3534.01		
Change Over Sub	1.00			3535.01		
Perforations	20.00			3555.01		
Recorder	0.01	13548	Outside	3555.02		
Bullnose	3.00			3558.02	60.02	Bottom Packers & Anchor
Total Tool Length:	**80.02**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

King Oil

696 D Fairground Rd
Ellis KS 67637

ATTN: Cliff Ottaway

Henrickson

3 13 20 Ellis KS

Job Ticket: 28612 **DST#: 1**

Test Start: 2007.07.07 @ 20:34:04

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:	35000 ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.94 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

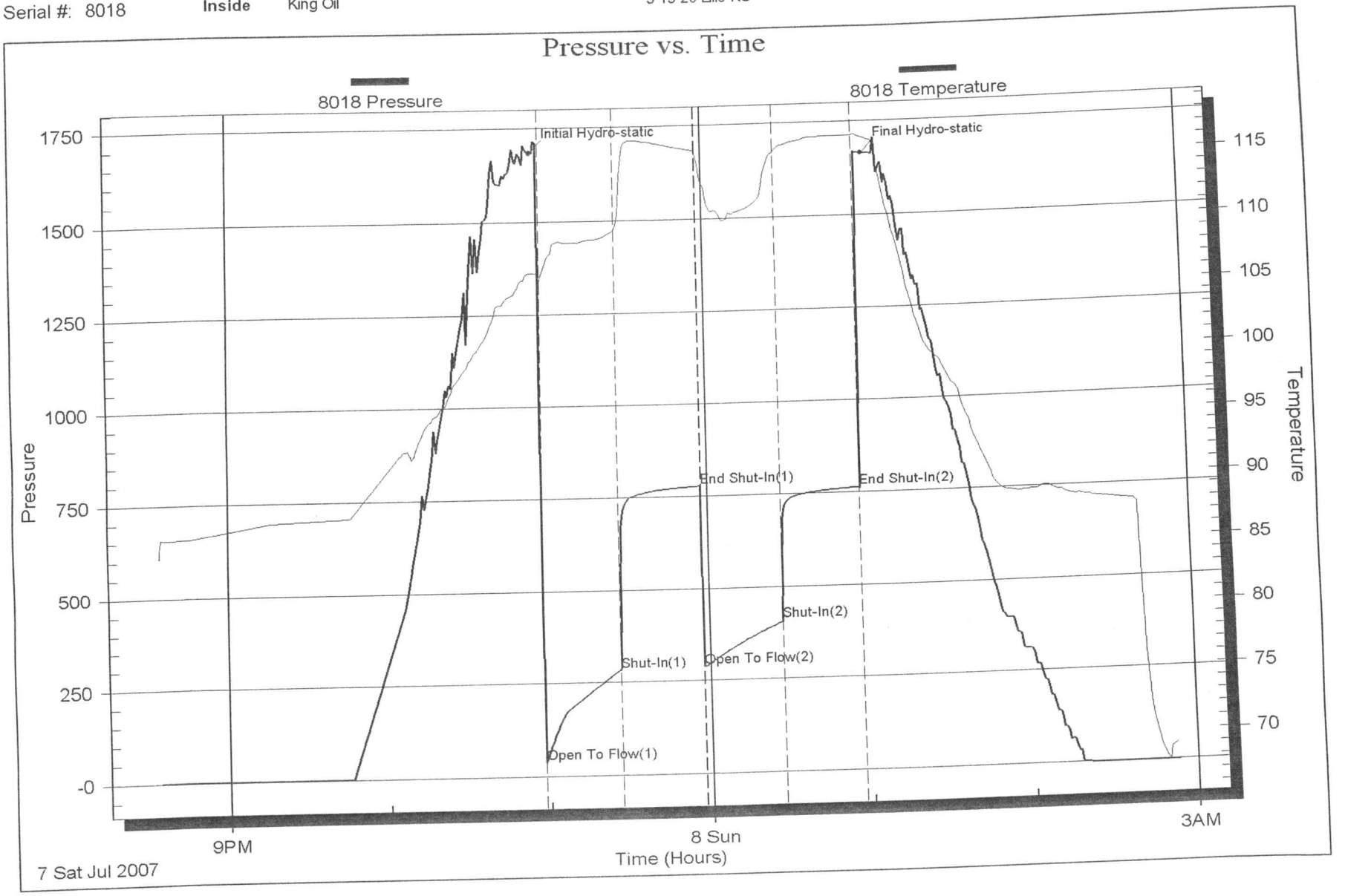
Length ft	Description	Volume bbl
630.00	MW 80%W 20%M	5.977
170.00	WM 10%W 90%M	2.385

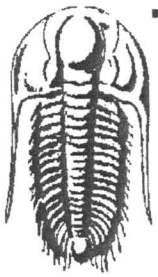
Total Length: 800.00 ft Total Volume: 8.362 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8018 Pressure
8018 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
115
110
105
100
95
90
85
80
75
70
9PM
8 Sun
3AM
Time (Hours)
7 Sat Jul 2007



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DRILL STEM TEST REPORT

Prepared For: **King Oil**

696 D Fairground Rd
Ellis KS 67637

ATTN: Cliff Ottaway

3 13 20 Ellis KS

Henrickson

Start Date: 2007.07.08 @ 14:45:50
End Date: 2007.07.08 @ 20:46:29
Job Ticket #: 28613 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

King Oil

696 D Fairground Rd
Ellis KS 67637

ATTN: Cliff Ottaway

Henrickson

3 13 20 Ellis KS

Job Ticket: 28613 **DST#: 2**

Test Start: 2007.07.08 @ 14:45:50

GENERAL INFORMATION:

Formation: **LKC "J-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:34:30
Time Test Ended: 20:46:29

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

Interval: 3647.00 ft (KB) To 3685.00 ft (KB) (TVD)
Total Depth: 3685.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

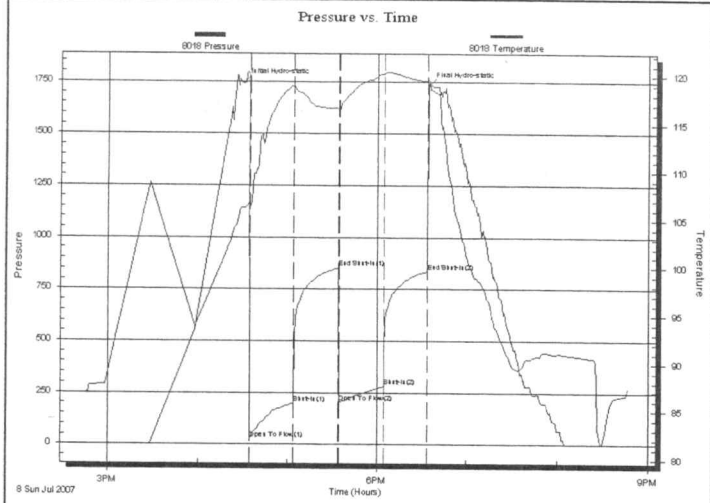
Reference Elevations: 2149.00 ft (KB)
2145.00 ft (CF)
KB to GR/CF: 4.00 ft

Serial #: 8018 **Inside**

Press@RunDepth: 280.41 psig @ 3653.01 ft (KB)
Start Date: 2007.07.08 End Date: 2007.07.08
Start Time: 14:45:50 End Time: 20:46:29

Capacity: 7000.00 psig
Last Calib.: 2007.07.08
Time On Btm: 2007.07.08 @ 16:30:15
Time Off Btm: 2007.07.08 @ 18:34:30

TEST COMMENT: IFP BOB 9 min.
ISI No blow back
FFP BOB 13 min.
FSI 3/4 " blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1744.14	106.29	Initial Hydro-static
5	26.10	106.16	Open To Flow (1)
34	198.88	118.73	Shut-In(1)
64	853.22	116.55	End Shut-In(1)
65	203.13	116.33	Open To Flow (2)
94	280.41	120.19	Shut-In(2)
124	835.70	119.44	End Shut-In(2)
125	1729.34	119.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
500.00	WM 70%W 30%M	4.15
60.00	VSOCWM 5%O 35%W 60%M	0.84
10.00	FREE OIL 5%M 95%O	0.14

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

King Oil

696 D Fairground Rd
Ellis KS 67637

ATTN: Cliff Ottaway

Henrickson

3 13 20 Ellis KS

Job Ticket: 28613 **DST#: 2**

Test Start: 2007.07.08 @ 14:45:50

Tool Information

Drill Pipe:	Length:	3321.00 ft	Diameter:	3.80 inches	Volume:	46.58 bbl	
Heavy Wt. Pipe:	Length:	314.00 ft	Diameter:	2.25 inches	Volume:	1.54 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
					Total Volume:	48.12 bbl	

Drill Pipe Above KB:	8.00 ft
Depth to Top Packer:	3647.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	38.02 ft
Tool Length:	58.02 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:	42000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	37000.00 lb
Final	38000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3632.00		
Hydraulic tool	5.00			3637.00		
Packer	5.00			3642.00	20.00	Bottom Of Top Packer
Packer	5.00			3647.00		
Stubb	1.00			3648.00		
Perforations	5.00			3653.00		
Recorder	0.01	8018	Inside	3653.01		
Perforations	29.00			3682.01		
Recorder	0.01	13548	Outside	3682.02		
Bullnose	3.00			3685.02	38.02	Bottom Packers & Anchor
Total Tool Length:	**58.02**					

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FLUID SUMMARY

King Oil

696 D Fairground Rd
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Job Ticket: 28613 **DST#: 2**

Test Start: 2007.07.08 @ 14:45:50

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	28 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.36 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

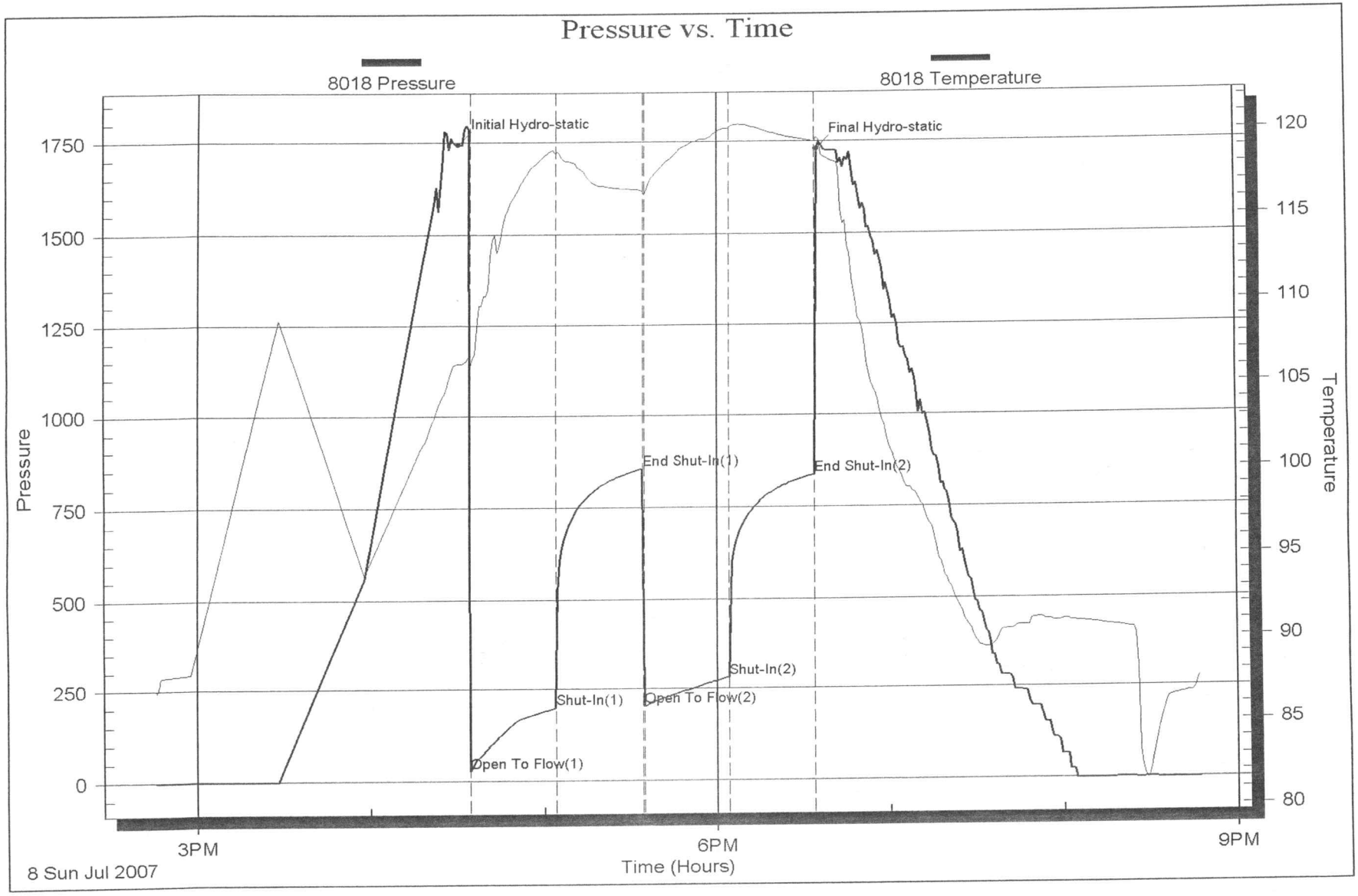
Length ft	Description	Volume bbl
500.00	WM 70%W 30%M	4.153
60.00	VSOCWM 5%O 35%W 60%M	0.842
10.00	FREE OIL 5%M 95%O	0.140

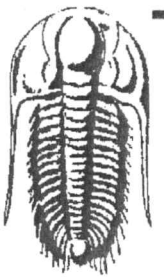
Total Length: 570.00 ft Total Volume: 5.135 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 30 ' GIP


Pressure vs. Time
8018 Pressure
8018 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
Time (Hours)
3PM
6PM
9PM
8 Sun Jul 2007
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
85
80



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DRILL STEM TEST REPORT

Prepared For: **King Oil**

696 D Fairground Rd
Ellis KS 67637

ATTN: Cliff Ottaway

3 13 20 Ellis KS

Henrickson

Start Date: 2007.07.09 @ 13:24:55
End Date: 2007.07.09 @ 20:03:49
Job Ticket #: 28614 DST #: 3

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

King Oil

696 D Fairground Rd
Ellis KS 67637

ATTN: Cliff Ottaway

Henrickson

3 13 20 Ellis KS

Job Ticket: 28614 **DST#: 3**

Test Start: 2007.07.09 @ 13:24:55

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:32:50
Time Test Ended: 20:03:49

Test Type: Conventional Bottom Hole
Tester: Brian Fairbank
Unit No: 41

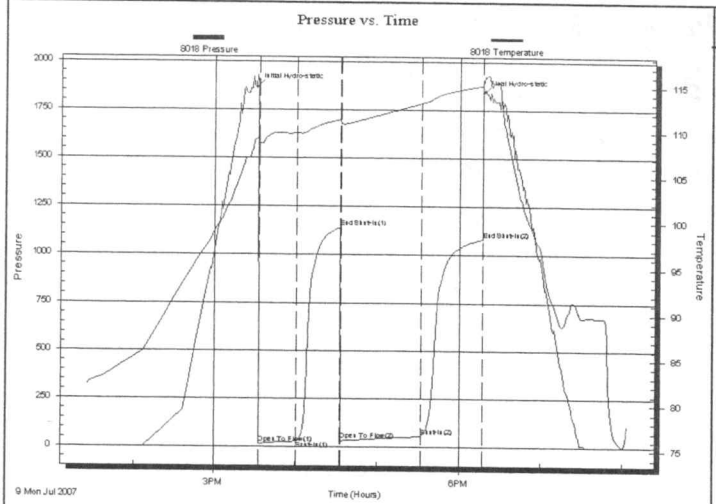
Interval: 3822.00 ft (KB) To 3845.00 ft (KB) (TVD)
Total Depth: 3845.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2149.00 ft (KB)
2145.00 ft (CF)
KB to GR/CF: 4.00 ft

Serial #: 8018 **Inside**
Press@RunDepth: 56.90 psig @ 3827.01 ft (KB)
Start Date: 2007.07.09 End Date: 2007.07.09
Start Time: 13:24:55 End Time: 20:03:49

Capacity: 7000.00 psig
Last Calib.: 2007.07.09
Time On Btm: 2007.07.09 @ 15:31:05
Time Off Btm: 2007.07.09 @ 18:17:19

TEST COMMENT: IFP Weak blow throughout sur - 1 3/4 "
ISI No blow back
FFP No blow 6 min. - 1 3/4 "
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1861.78	109.14	Initial Hydro-static
2	15.33	108.18	Open To Flow (1)
30	30.13	109.84	Shut-In(1)
62	1137.07	111.34	End Shut-In(1)
62	37.48	110.83	Open To Flow (2)
121	56.90	113.12	Shut-In(2)
166	1078.11	115.10	End Shut-In(2)
167	1834.55	115.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	GMCO 10%G 55%O 35%M	0.25
55.00	G Free Oil 15%G 82%O 3%M	0.27

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

King Oil

696 D Fairground Rd
Ellis KS 67637

ATTN: Cliff Ottaway

Henrickson

3 13 20 Ellis KS

Job Ticket: 28614 **DST#: 3**

Test Start: 2007.07.09 @ 13:24:55

Tool Information

Drill Pipe:	Length:	3506.00 ft	Diameter:	3.80 inches	Volume:	49.18 bbl	
Heavy Wt. Pipe:	Length:	314.00 ft	Diameter:	2.25 inches	Volume:	1.54 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
					Total Volume:	50.72 bbl	

Drill Pipe Above KB:	18.00 ft
Depth to Top Packer:	3822.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	23.02 ft
Tool Length:	43.02 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:	40000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	37000.00 lb
Final	38000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3807.00		
Hydraulic tool	5.00			3812.00		
Packer	5.00			3817.00	20.00	Bottom Of Top Packer
Packer	5.00			3822.00		
Stubb	1.00			3823.00		
Perforations	4.00			3827.00		
Recorder	0.01	8018	Inside	3827.01		
Perforations	15.00			3842.01		
Recorder	0.01	13548	Outside	3842.02		
Bullnose	3.00			3845.02	23.02	Bottom Packers & Anchor
Total Tool Length:	**43.02**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

King Oil

696 D Fairground Rd
Ellis KS 67637

ATTN: Cliff Ottaway

Henrickson

3 13 20 Ellis KS

Job Ticket: 28614 **DST#: 3**

Test Start: 2007.07.09 @ 13:24:55

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	28 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.06 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4500.00 ppm				
Filter Cake:	inches				

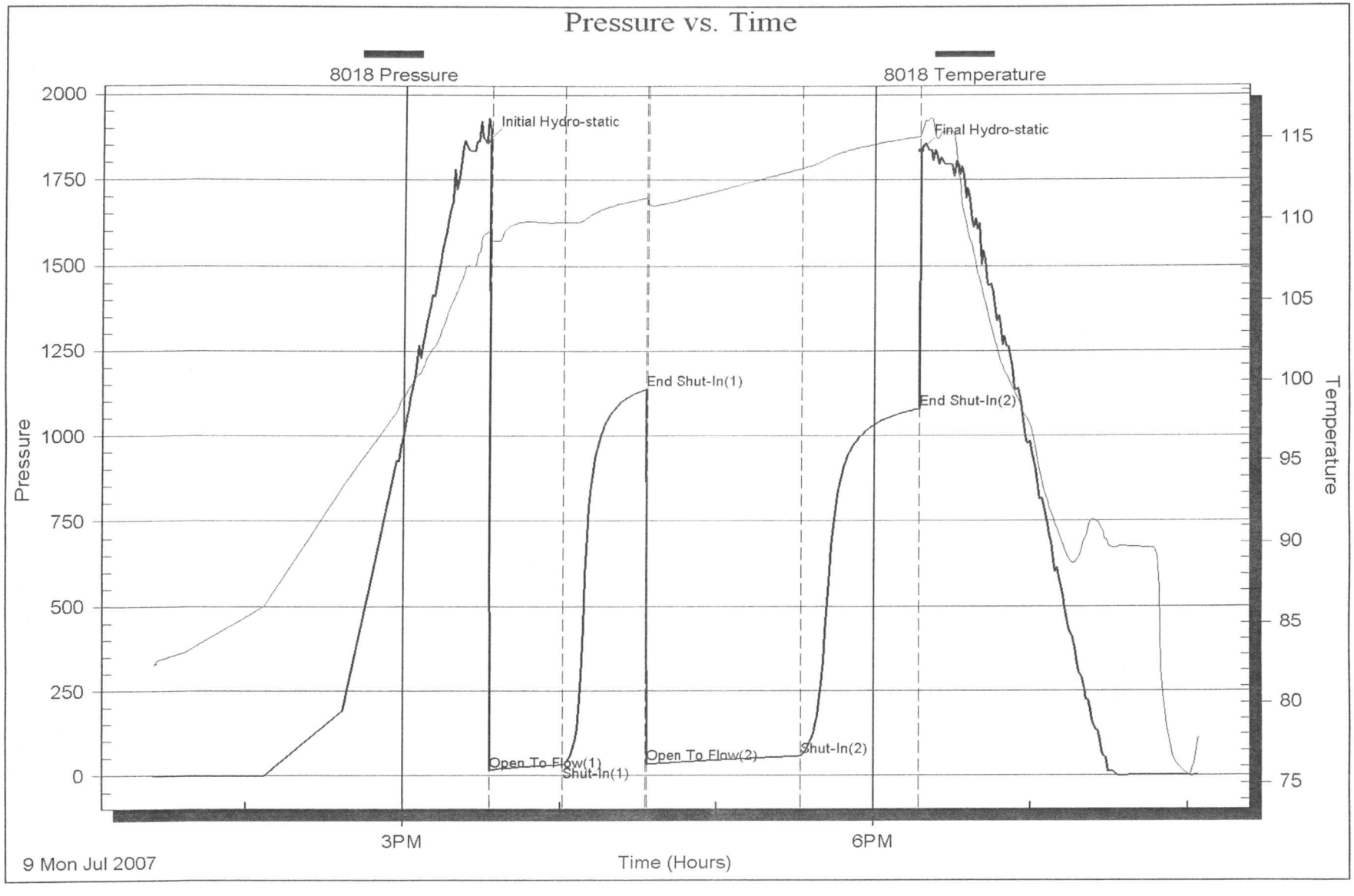
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	GMCO 10%G 55%O 35%M	0.246
55.00	G Free Oil 15%G 82%O 3%M	0.270

Total Length: 105.00 ft Total Volume: 0.516 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 30 ' GIP


Pressure vs. Time
8018 Pressure
8018 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
2000
1750
1500
1250
1000
750
500
250
0
115
110
105
100
95
90
85
80
75
3PM
6PM
9 Mon Jul 2007
Time (Hours)