

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **EOG Resources Inc**

3817 NW Expressway Ste 500
Oklahoma City OK 73112

ATTN: Preston / Gary

2 34 33 Seward KS

Ivan #2-1

Start Date: 2007.08.12 @ 12:43:48
End Date: 2007.08.12 @ 23:06:03
Job Ticket #: 27160 DST #: 1

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

DRILL STEM TEST REPORT

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ATTN: Preston / Gary

Ivan #2-1

2 34 33 Seward KS

Job Ticket: 27160 **DST#: 1**

Test Start: 2007.08.12 @ 12:43:48

GENERAL INFORMATION:

Formation: **Lansing**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:46:18
Time Test Ended: 23:06:03

Test Type: Conventional Bottom Hole
Tester: Delton Brown
Unit No: 28

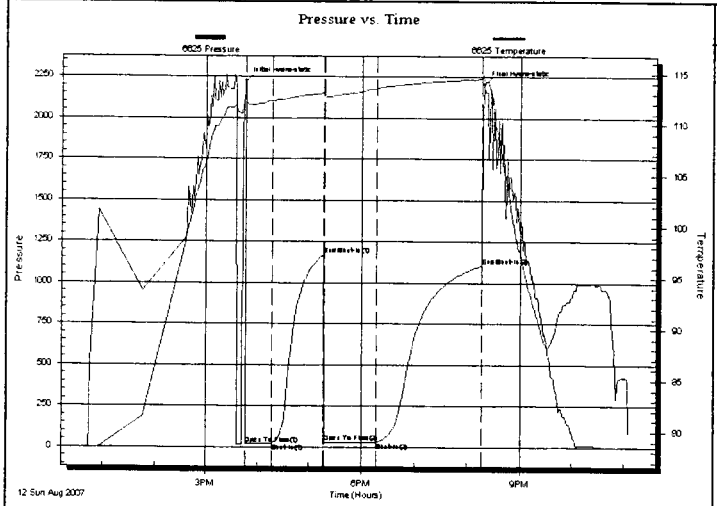
Interval: 4525.00 ft (KB) To 4547.00 ft (KB) (TVD)
Total Depth: 4547.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2855.00 ft (KB)
2843.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6625 **Inside**
Press@RunDepth: 29.40 psig @ 4526.00 ft (KB)
Start Date: 2007.08.12 End Date: 2007.08.12
Start Time: 12:43:49 End Time: 23:06:03

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2007.08.12 @ 15:45:48
Time Off Btm: 2007.08.12 @ 20:18:33

TEST COMMENT: IF No blow purge tool 3-4 bubbles
ISI No return blow
FF No blow
FSI No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2222.73	112.90	Initial Hydro-static
1	20.01	112.31	Open To Flow (1)
31	23.67	112.33	Shut-In(1)
91	1168.79	113.03	End Shut-In(1)
92	26.67	112.80	Open To Flow (2)
151	29.40	113.47	Shut-In(2)
271	1105.78	114.45	End Shut-In(2)
273	2204.76	114.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OM Spot O 100%M	0.07

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

EOG Resources Inc

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Job Ticket: 27160 **DST#: 1**

Test Start: 2007.08.12 @ 12:43:48

Tool Information

Drill Pipe:	Length:	4136.00 ft	Diameter:	3.80 inches	Volume:	58.02 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:	370.00 ft	Diameter:	2.25 inches	Volume:	1.82 bbl	Weight to Pull Loose:		80000.00 lb
					Total Volume:	59.84 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		11.00 ft					String Weight:	Initial	64000.00 lb
Depth to Top Packer:		4525.00 ft						Final	63000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		22.00 ft							
Tool Length:		52.00 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			4496.00		
Shut In Tool	5.00			4501.00		
Sampler	3.00			4504.00		
Hydraulic tool	5.00			4509.00		
Jars	5.00			4514.00		
Safety Joint	2.00			4516.00		
Packer	5.00		Fluid	4521.00	30.00	Bottom Of Top Packer
Packer	4.00			4525.00		
Stubb	1.00			4526.00		
Recorder	0.00	6625	Inside	4526.00		
Perforations	18.00			4544.00		
Recorder	0.00	13761	Inside	4544.00		
Bullnose	3.00			4547.00	22.00	Bottom Packers & Anchor
Total Tool Length:	**52.00**					

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FLUID SUMMARY

EOG Resources Inc

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2 34 33 Seward KS

Job Ticket: 27160 **DST#: 1**

Test Start: 2007.08.12 @ 12:43:48

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:	41.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.76 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3100.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

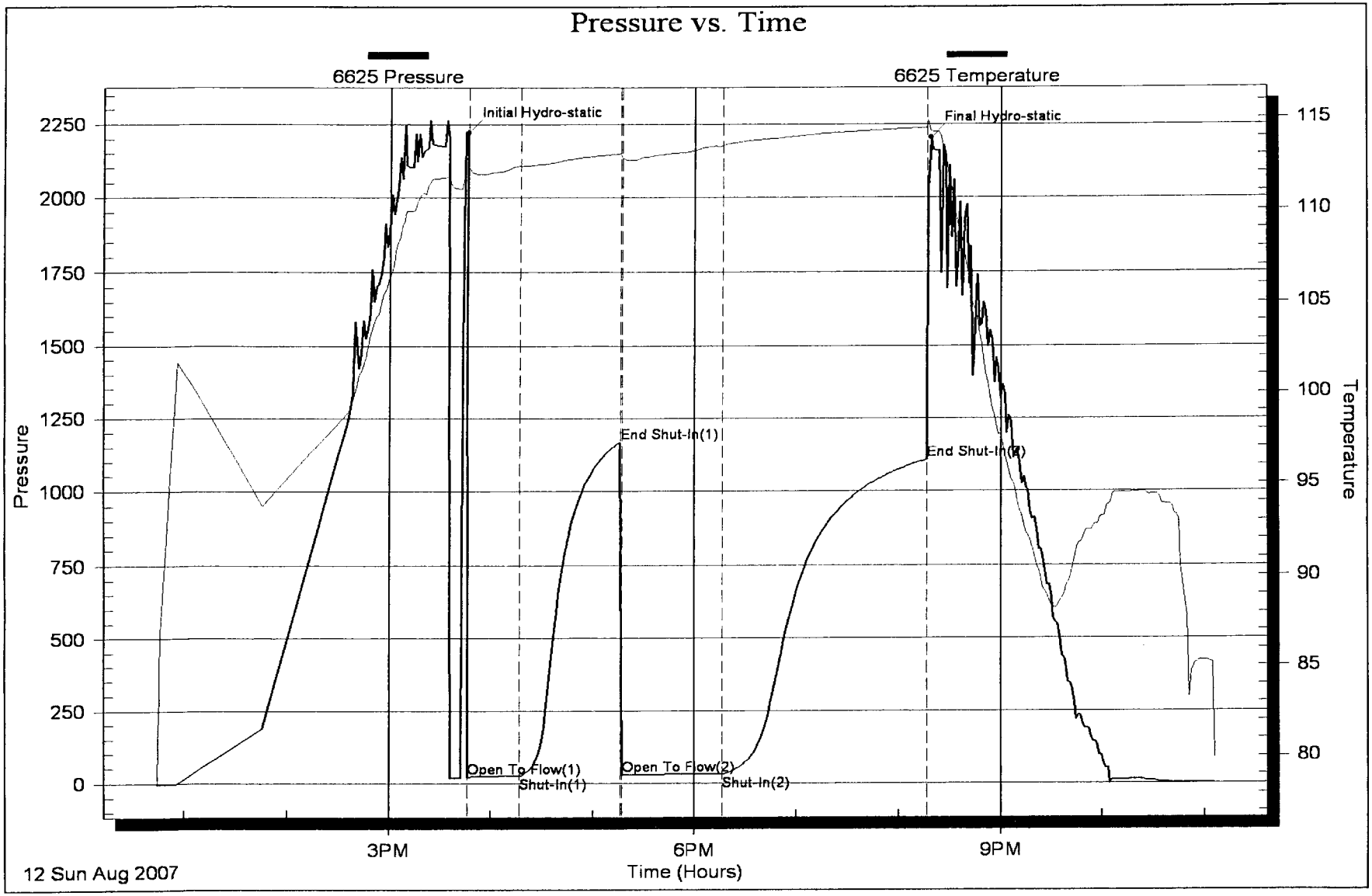
Length ft	Description	Volume bbl
15.00	OM Spot O 100%M	0.074

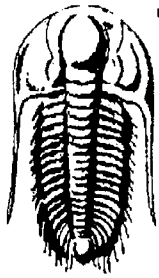
Total Length: 15.00 ft Total Volume: 0.074 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW=1.35@89F=3500ppm


Pressure vs. Time
6625 Pressure
6625 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
2250
2000
1750
1500
1250
1000
750
500
250
0
115
110
105
100
95
90
85
80
3PM
6PM
9PM
Time (Hours)
12 Sun Aug 2007



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Ivan #2-1

Start Date: 2007.08.15 @ 09:36:16

End Date: 2007.08.15 @ 21:47:01

Job Ticket #: 27161 DST #: 2

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ATTN: Preston / Gary

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2 34 33 Seward KS

Job Ticket: 27161 **DST#: 2**

Test Start: 2007.08.15 @ 09:36:16

GENERAL INFORMATION:

Formation: **Chester**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:33:01
Time Test Ended: 21:47:01

Test Type: Conventional Bottom Hole
Tester: Delton Brown
Unit No: 28

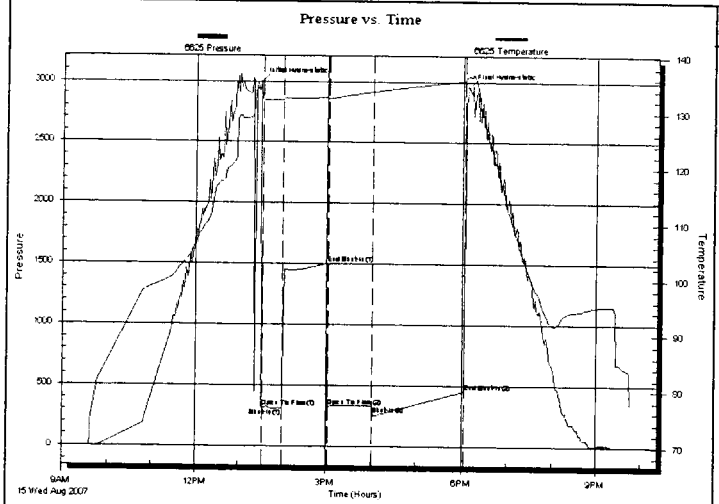
Interval: 6180.00 ft (KB) To 6250.00 ft (KB) (TVD)
Total Depth: 6250.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2855.00 ft (KB)
2843.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6625 **Inside**
Press@RunDepth: 336.93 psig @ 6181.00 ft (KB)
Start Date: 2007.08.15 End Date: 2007.08.15
Start Time: 09:36:17 End Time: 21:47:01

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2007.08.15 @ 13:30:16
Time Off Btm: 2007.08.15 @ 18:07:46

TEST COMMENT: IF Inital open packer failed after approx. 45 sec., picked up and reopened packer held. Med. blow 3 1/2 " in bucket died 20 min.
ISI No return blow
FF No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2993.68	134.20	Initial Hydro-static
3	318.49	132.41	Open To Flow (1)
31	313.83	132.17	Shut-In(1)
91	1505.80	132.80	End Shut-In(1)
92	326.92	132.58	Open To Flow (2)
151	336.93	133.74	Shut-In(2)
273	452.75	135.72	End Shut-In(2)
278	2953.71	136.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OM Spot Oil 100%M	0.30
288.00	OM Spot Oil 100%M	1.42
241.00	OM Spot Oil 100%M	3.18

Gas Rates

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

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TOOL DIAGRAM

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Test Start: 2007.08.15 @ 09:36:16

Tool Information

Drill Pipe:	Length:	5797.00 ft	Diameter:	3.80 inches	Volume:	81.32 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:	370.00 ft	Diameter:	2.25 inches	Volume:	1.82 bbl	Weight to Pull Loose:	lb
					Total Volume:	83.14 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		17.00 ft					String Weight: Initial	78000.00 lb
Depth to Top Packer:		6180.00 ft					Final	lb
Depth to Bottom Packer:		ft						
Interval between Packers:		70.00 ft						
Tool Length:		100.00 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			6151.00		
Shut In Tool	5.00			6156.00		
Sampler	3.00			6159.00		
Hydraulic tool	5.00			6164.00		
Jars	5.00			6169.00		
Safety Joint	2.00			6171.00		
Packer	5.00			6176.00	30.00	Bottom Of Top Packer
Packer	4.00			6180.00		
Stubb	1.00			6181.00		
Recorder	0.00	6625	Inside	6181.00		
Change Over Sub	1.00			6182.00		
Drill Pipe	29.00			6211.00		
Change Over Sub	1.00			6212.00		
Perforations	2.00			6214.00		
Change Over Sub	1.00			6215.00		
Drill Pipe	31.00			6246.00		
Change Over Sub	1.00			6247.00		
Recorder	0.00	13761	Inside	6247.00		
Bullnose	3.00			6250.00	70.00	Bottom Packers & Anchor
Total Tool Length:	**100.00**					

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Job Ticket: 27161 **DST#: 2**

Test Start: 2007.08.15 @ 09:36:16

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:	40.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.35 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

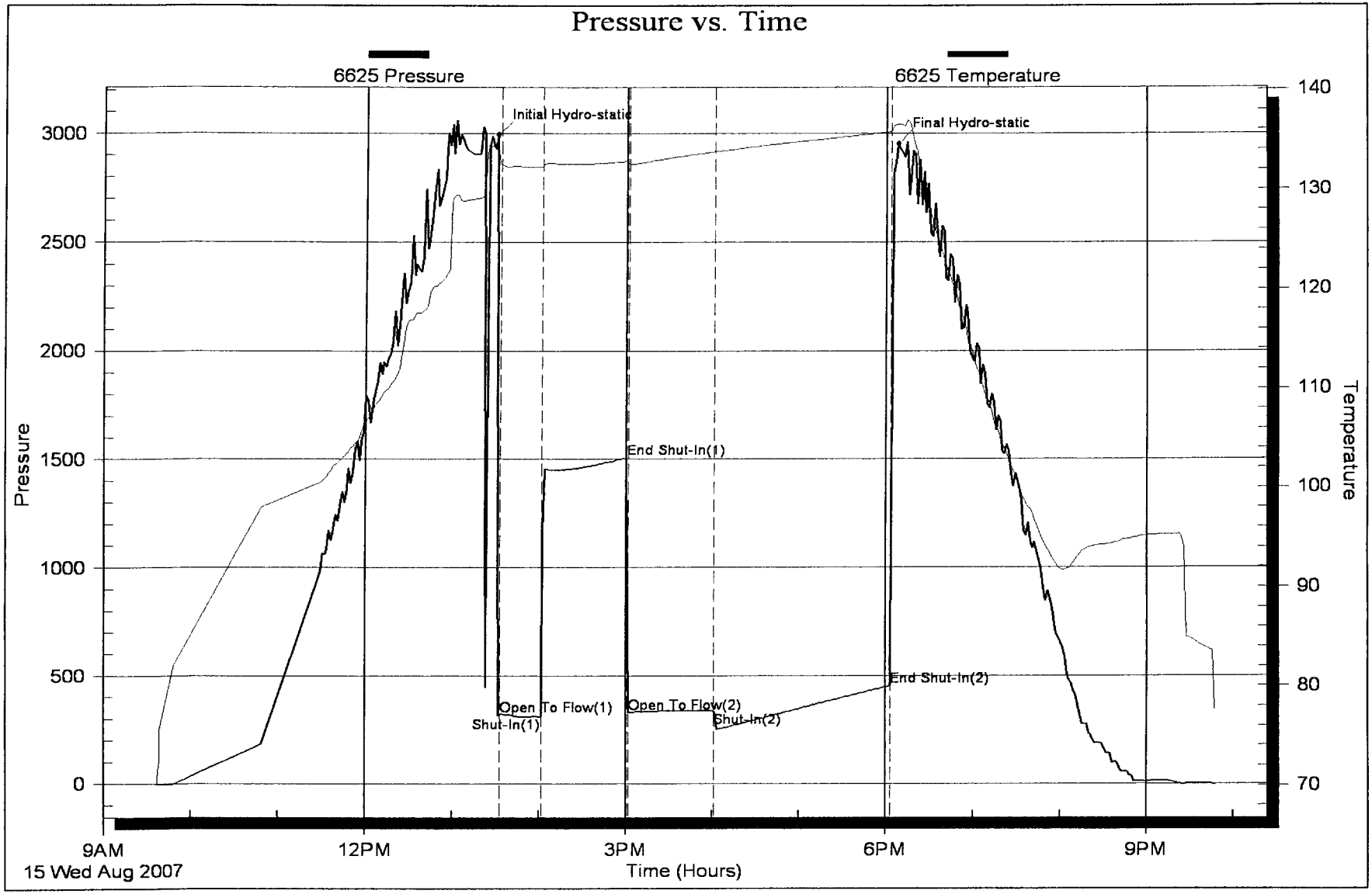
Length ft	Description	Volume bbl
60.00	OM Spot Oil 100%M	0.295
288.00	OM Spot Oil 100%M	1.416
241.00	OM Spot Oil 100%M	3.180

Total Length: 589.00 ft Total Volume: 4.891 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW=1.67@83F=3000ppm


Pressure vs. Time
6625 Pressure
6625 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
3000
2500
2000
1500
1000
500
0
140
130
120
110
100
90
80
70
9AM
15 Wed Aug 2007
12PM
3PM
6PM
9PM
Time (Hours)