15-165-23266

13-10S-24W
S2 SE NESE



TRILOBITE TESTING, INC.

KCC
MAR 27 2007
CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Orlin Phelps

13 10S 24W Graham KS

Page #1-13

Start Date: 2007.01.10 @ 21:53:43
End Date: 2007.01.11 @ 05:24:33
Job Ticket #: 26074 DST #: 1

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

Printed: 2007.01.18 @ 10:10:39 Page 1

RECEIVED
KANSAS CORPORATION COMMISSION
MAR 29 2007
CONSERVATION DIVISION
WICHITA, KS

Murfin Drilling Company Page #1-13 13 10S 24W Graham KS DST # 1 L-KC "B-F" 2007.01.10

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Orlin Phelps

Page #1-13

13 10S 24W Graham KS

Job Ticket: 26074 **DST#: 1**

Test Start: 2007.01.10 @ 21:53:43

GENERAL INFORMATION:

Formation: **L-KC "B-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:45:03
Time Test Ended: 05:24:33

Test Type: Conventional Bottom Hole
Tester: Jake Fahrenbruch
Unit No: 22

Interval: 3834.00 ft (KB) To 3898.00 ft (KB) (TVD)
Total Depth: 3898.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

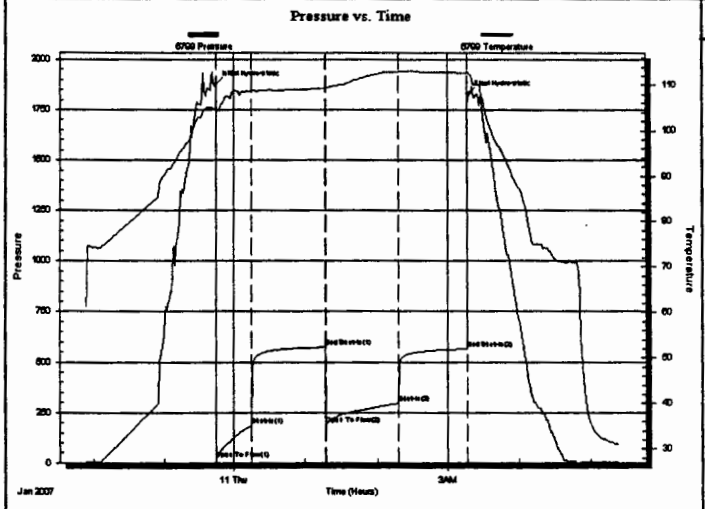
Reference Elevations: 2460.00 ft (KB)
2455.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6799 **Inside**

Press@RunDepth: 296.84 psig @ 3835.00 ft (KB)
Start Date: 2007.01.10 End Date: 2007.01.11
Start Time: 21:53:45 End Time: 05:24:32

Capacity: 7000.00 psig
Last Calib.: 2007.01.11
Time On Btm: 2007.01.10 @ 23:44:53
Time Off Btm: 2007.01.11 @ 03:16:53

TEST COMMENT: IF Fairly strong blow BOB 17 minutes.
ISI Bled off weak surface blow back
FF Fairly strong blow BOB 31 minutes.
FSI Bled off weak surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1875.55	104.85	Initial Hydro-static
1	20.36	104.02	Open To Flow (1)
31	186.52	108.73	Shut-In(1)
92	572.93	109.29	End Shut-In(1)
92	189.94	109.20	Open To Flow (2)
153	296.84	112.96	Shut-In(2)
212	564.33	112.72	End Shut-In(2)
212	1828.77	113.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	WCM 23%W 77%M	0.25
430.00	MCW 15%W 85%M	2.11
120.00	OSM 3%O 97%M	1.67
0.00	RW=.19ohm@37degF=78000ppmCHL	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Orlin Phelps

Page #1-13

13 10S 24W Graham KS

Job Ticket: 26074 **DST#: 1**

Test Start: 2007.01.10 @ 21:53:43

Tool Information

Drill Pipe:	Length:	3332.00 ft	Diameter:	3.80 inches	Volume:	46.74 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:	481.00 ft	Diameter:	2.25 inches	Volume:	2.37 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	49.11 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		7.00 ft					String Weight: Initial	64000.00 lb
Depth to Top Packer:		3834.00 ft					Final	62000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		64.00 ft						
Tool Length:		92.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3811.00		
Hydraulic tool	5.00			3816.00		
Jars	5.00			3821.00		
Safety Joint	3.00			3824.00		
Packer	5.00			3829.00	28.00	Bottom Of Top Packer
Packer	5.00			3834.00		
Stubb	1.00			3835.00		
Recorder	0.00	6799	Inside	3835.00		
Perforations	27.00			3862.00		
Blank Spacing	33.00			3895.00		
Recorder	0.00	3354	Outside	3895.00		
Bullnose	3.00			3898.00	64.00	Bottom Packers & Anchor
Total Tool Length:	**92.00**					

RECEIVED
KANSAS CORPORATION COMMISSION
MAR 2 9 2007
CONSERVATION DIVISION

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Orlin Phelps

Page #1-13

13 10S 24W Graham KS

Job Ticket: 26074 **DST#: 1**

Test Start: 2007.01.10 @ 21:53:43

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3300.00 ppm				
Filter Cake:	0.07 inches				

Recovery Information

Recovery Table

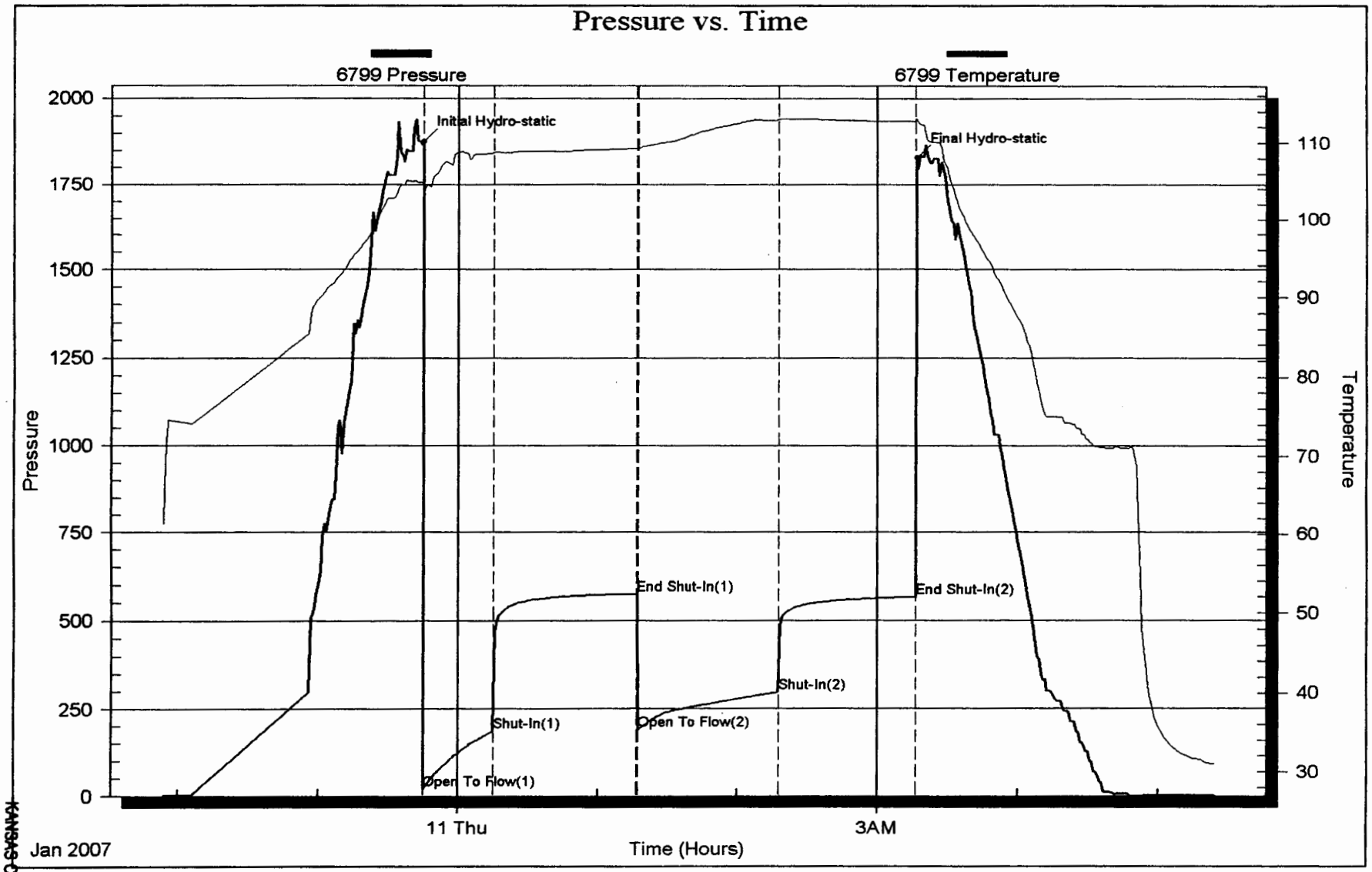
Length ft	Description	Volume bbl
50.00	WCM 23%W 77%M	0.246
430.00	MCW 15%W 85%M	2.115
120.00	OSM 3%O 97%M	1.674
0.00	RW=.19ohm@37degF=78000ppmCHL	0.000

Total Length: 600.00 ft Total Volume: 4.035 bbl

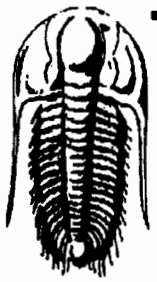
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



RECEIVED
KANSAS CORPORATION COMMISSION
MAR 2 9 2007
CONSERVATION DIVISION



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company**

250 N Water Ste 300
Wichita KS 67202

ATTN: Orlin Phelps

13 10S 24W Graham KS

Page #1-13

Start Date: 2007.01.11 @ 15:44:39
End Date: 2007.01.12 @ 02:02:28
Job Ticket #: 26075 DST #: 2

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

RECEIVED
KANSAS CORPORATION COMMISSION
MAR 2 9 2007
CONSERVATION DIVISION

DRILL STEM TEST REPORT

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Orlin Phelps

Page #1-13

13 10S 24W Graham KS

Job Ticket: 26075 **DST#: 2**

Test Start: 2007.01.11 @ 15:44:39

GENERAL INFORMATION:

Formation: **L-KC "140',160',180'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:24:49
Time Test Ended: 02:02:28

Test Type: Conventional Bottom Hole
Tester: Jake Fahrenbruch
Unit No: 22

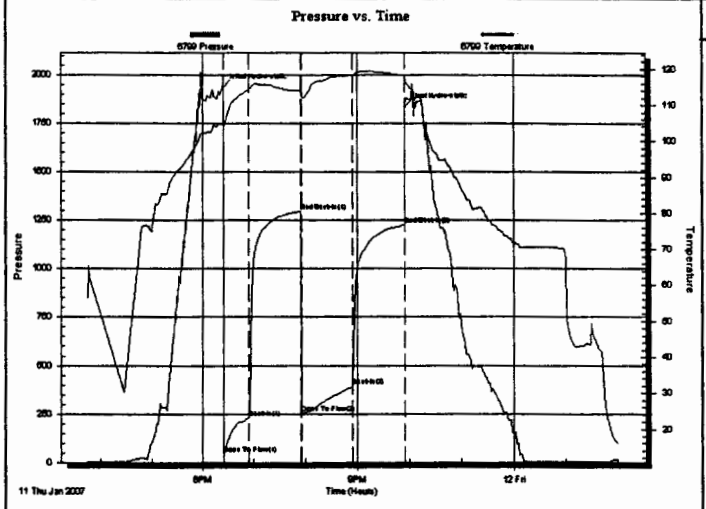
Interval: 3934.00 ft (KB) To 3997.00 ft (KB) (TVD)
Total Depth: 3997.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2460.00 ft (KB)
2455.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6799 **Inside**
Press@RunDepth: 392.74 psig @ 3935.00 ft (KB)
Start Date: 2007.01.11 End Date: 2007.01.12
Start Time: 15:44:41 End Time: 02:02:28

Capacity: 7000.00 psig
Last Calib.: 2007.01.12
Time On Btm: 2007.01.11 @ 18:24:28
Time Off Btm: 2007.01.11 @ 21:55:29

TEST COMMENT: IF Strong blow BOB in 4 minutes.
ISI Bled off blow back @ BOB after 14 minutes.
FF Strong blow BOB in 4.75 minutes.
FSI Bled off blow back @ BOB after 14 minutes.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.81	104.62	Initial Hydro-static
1	42.01	103.93	Open To Flow (1)
30	230.36	114.17	Shut-In(1)
90	1296.01	113.94	End Shut-In(1)
92	253.31	112.59	Open To Flow (2)
150	392.74	118.30	Shut-In(2)
211	1227.19	118.25	End Shut-In(2)
212	1833.31	118.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MCO 20%M 80%O	0.32
360.00	SGCMCO 5%G 20%M 75%O	1.77
370.00	GCMCO 10%G 10%M 80%O	4.68
245.00	Gassy Oil 30%G 70%O	3.44
0.00	2800 ' GIP	0.00
0.00	Oil gravity= 40 API corrected	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company

Page #1-13

250 N Water Ste 300
Wichita KS 67202

13 10S 24W Graham KS

Job Ticket: 26075 **DST#: 2**

ATTN: Orlin Phelps

Test Start: 2007.01.11 @ 15:44:39

Tool Information

Drill Pipe:	Length:	3419.00 ft	Diameter:	3.80 inches	Volume:	47.96 bbl	Tool Weight:		3500.00 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:	481.00 ft	Diameter:	2.25 inches	Volume:	2.37 bbl	Weight to Pull Loose:		70000.00 lb
					Total Volume:	50.33 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight:	Initial	64000.00 lb
Depth to Top Packer:		3934.00 ft						Final	64000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		63.00 ft							
Tool Length:		117.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3885.00		
Telemety Tool	26.00			3911.00		
Hydraulic tool	5.00			3916.00		
Jars	5.00			3921.00		
Safety Joint	3.00			3924.00		
Packer	5.00			3929.00	54.00	Bottom Of Top Packer
Packer	5.00			3934.00		
Stubb	1.00			3935.00		
Recorder	0.00	6799	Inside	3935.00		
Perforations	25.00			3960.00		
Blank Spacing	34.00			3994.00		
Recorder	0.00	3354	Outside	3994.00		
Bullnose	3.00			3997.00	63.00	Bottom Packers & Anchor
Total Tool Length:	**117.00**					

RECEIVED
KANSAS CORPORATION COMMISSION
MAR 2 9 2007
CONSERVATION DIVISION
WICHITA, KS

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company

250 N Water Ste 300
Wichita KS 67202

ATTN: Orlin Phelps

Page #1-13

13 10S 24W Graham KS

Job Ticket: 26075 **DST#: 2**

Test Start: 2007.01.11 @ 15:44:39

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:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4100.00 ppm				
Filter Cake:	0.07 inches				

Recovery Information

Recovery Table

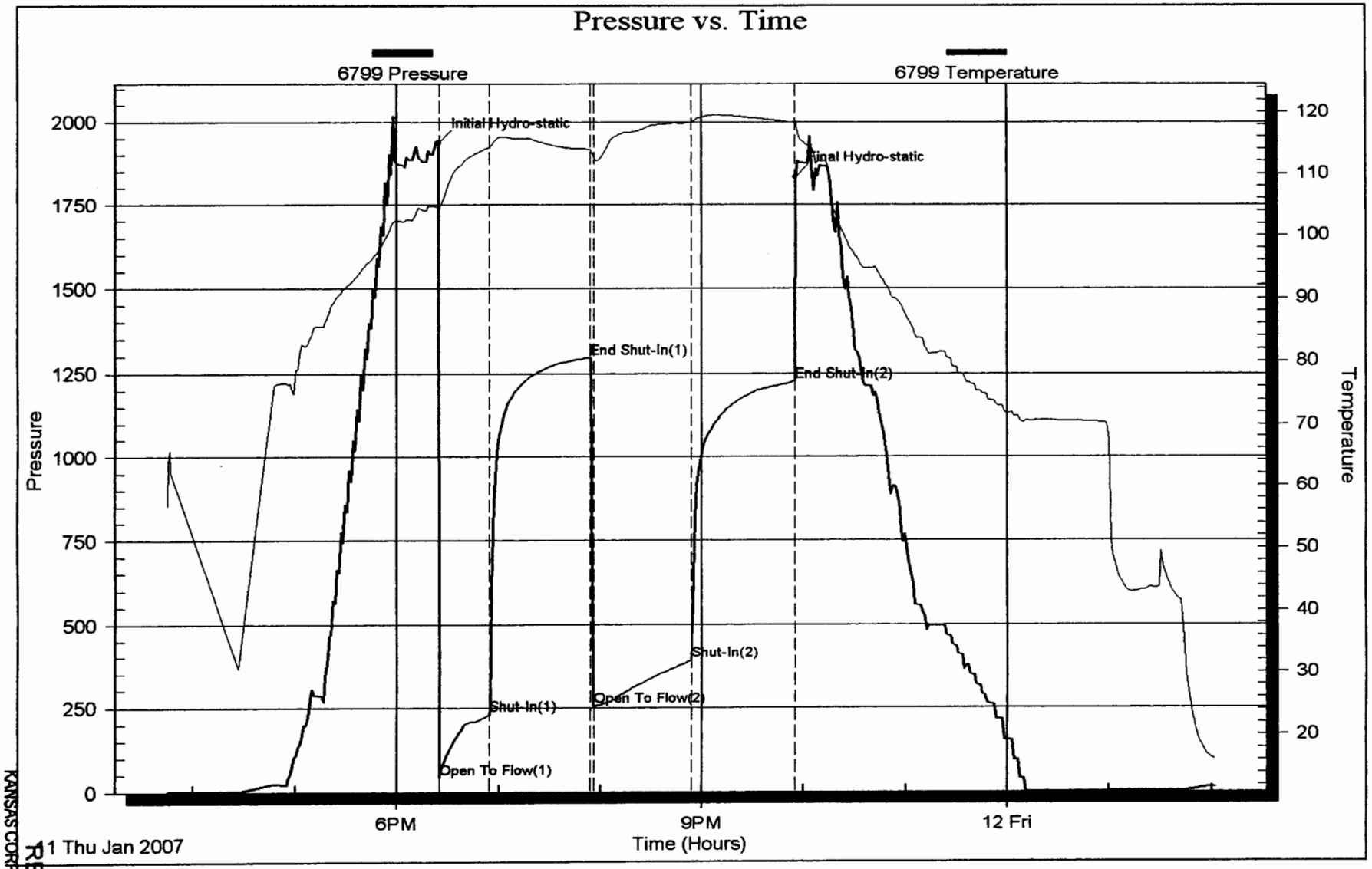
Length ft	Description	Volume bbl
65.00	MCO 20%M 80%O	0.320
360.00	SGCMCO 5%G 20%M 75%O	1.770
370.00	GCMCO 10%G 10%M 80%O	4.680
245.00	Gassy Oil 30%G 70%O	3.437
0.00	2800 ' GIP	0.000
0.00	Oil gravity= 40 API corrected	0.000

Total Length: 1040.00 ft Total Volume: 10.207 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



RECEIVED
KANSAS CORPORATION COMMISSION
MAR 2 9 2007
CONSERVATION DIVISION