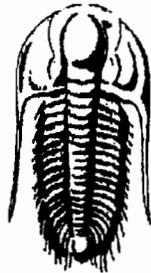


15-007-23225-0000

5-30s-15w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Hess Oil Co**

PO Box 1009
Mcperson KS 67460

ATTN: Tom Funk

5 30 15 Barber KS

#1 Ranch

Start Date: 2007.12.03 @ 09:40:17

End Date: 2007.12.03 @ 18:11:47

Job Ticket #: 29863 DST #: 1

15-007-23225

SW SE SW NW

2550 FWL 850 FWL

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CONSERVATION DIVISION
WICHITA, KS

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

Hess Oil Co

#1 Ranch

5 30 15 Barber KS

US 1 # 1

Lansing

2007.12.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Co
PO Box 1009
Mcpherson KS 67460
ATTN: Tom Funk

#1 Ranch
5 30 15 Barber KS
Job Ticket: 29863 **DST#: 1**
Test Start: 2007.12.03 @ 09:40:17

Tool Information

Drill Pipe:	Length: 3868.00 ft	Diameter: 3.80 inches	Volume: 54.26 bbl	Tool Weight: 2100.00 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: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 102000.0 lb
			<u>Total Volume: 55.46 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4104.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			4084.00	
Change Over Sub	1.00			4085.00	
Shut In Tool	5.00			4090.00	
Hydraulic tool	5.00			4095.00	
Packer	5.00			4100.00	21.00 Bottom Of Top Packer
Packer	4.00			4104.00	
Stubb	1.00			4105.00	
Recorder	0.00	8166	Inside	4105.00	
Recorder	0.00	8356	Outside	4105.00	
Perforations	8.00			4113.00	
Drill Pipe	62.00			4175.00	
Perforations	16.00			4191.00	
Bullnose	3.00			4194.00	90.00 Bottom Packers & Anchor

Total Tool Length: 111.00

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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co

#1 Ranch

PO Box 1009
Mcperson KS 67460

5 30 15 Barber KS

Job Ticket: 29863

DST#: 1

ATTN: Tom Funk

Test Start: 2007.12.03 @ 09:40:17

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:

39000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP 3658 Feet	0.000
185.00	GSW 5%G 95%W	0.910
60.00	GMCW 5%G 30%M 65%W	0.295
210.00	GM 5%G 95%M	2.946

Total Length: 455.00 ft

Total Volume: 4.151 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

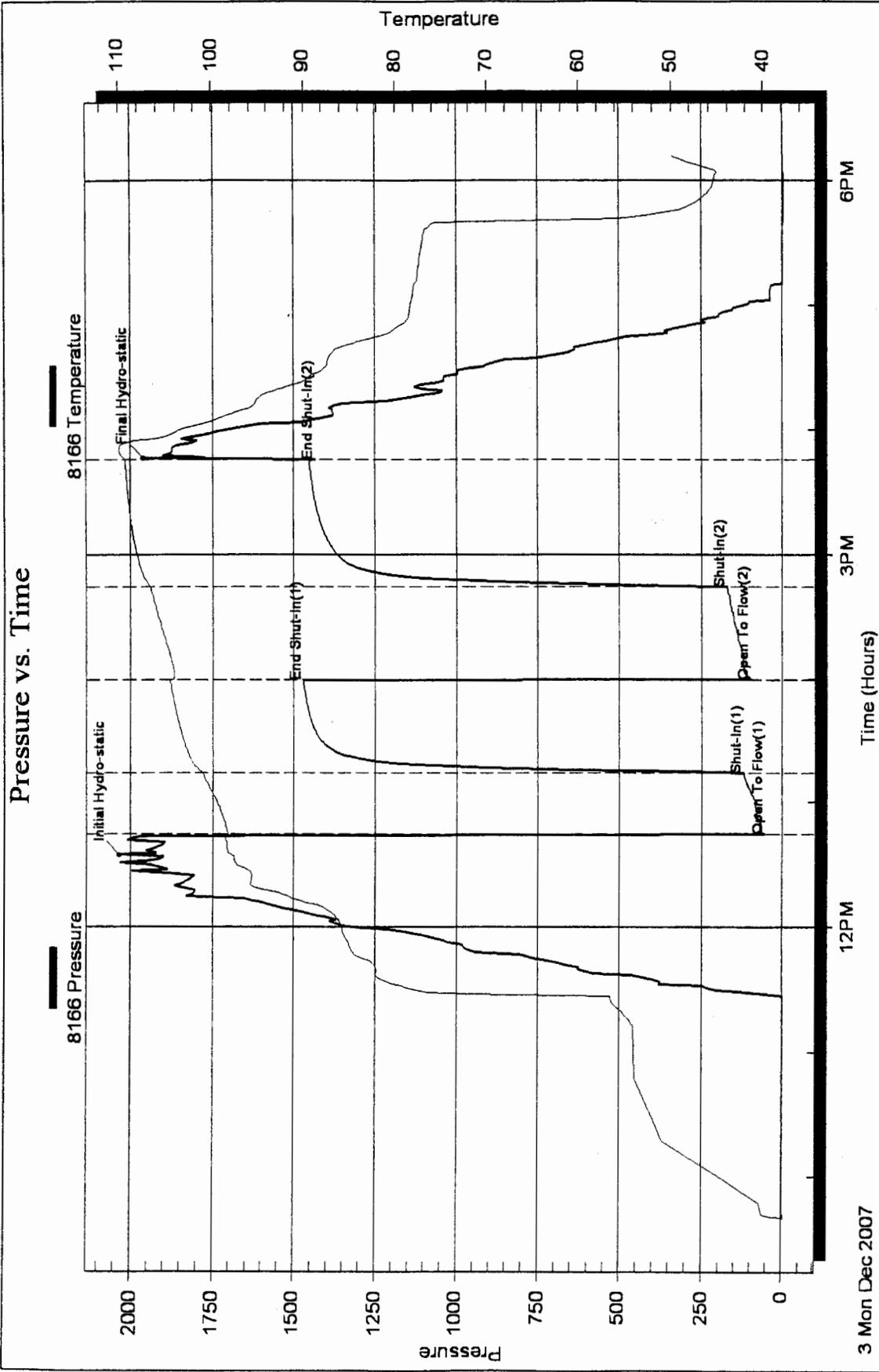
Recovery Comments:

Serial #: 8166

Inside Hess Oil Co

5 30 15 Barber KS

DST Test Number: 1



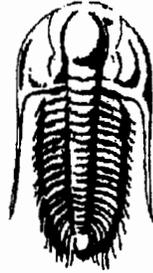
Trilobite Testing, Inc

Ref. No: 29863

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WICHITA, KS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Hess Oil Co**

PO Box 1009
Mcperson KS 67460

ATTN: Tom Funk

5 30 15 Barber KS

#1 Ranch

Start Date: 2007.12.05 @ 04:40:37

End Date: 2007.12.05 @ 12:19:16

Job Ticket #: 29864 DST #: 2

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

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CONSERVATION DIVISION
WICHITA, KS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hess Oil Co
PO Box 1009
Mcpheerson KS 67460
ATTN: Tom Funk

#1 Ranch
5 30 15 Barber KS
Job Ticket: 29864 **DST#: 2**
Test Start: 2007.12.05 @ 04:40:37

GENERAL INFORMATION:

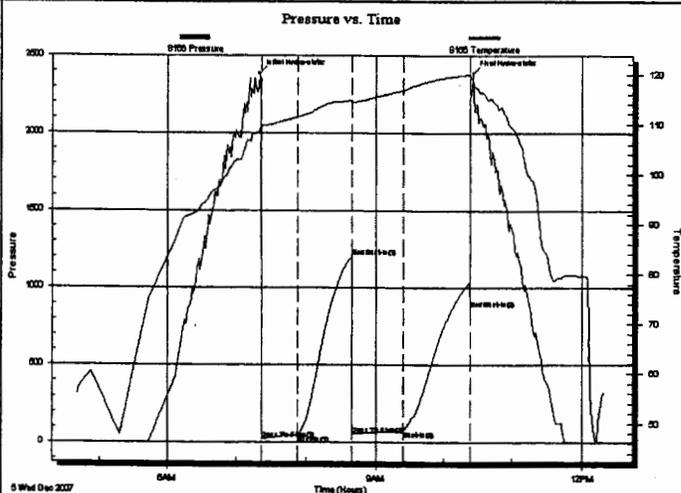
Formation: **Viola**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 07:21:47
Time Test Ended: 12:19:16
Interval: **4726.00 ft (KB) To 4770.00 ft (KB) (TVD)**
Total Depth: **4770.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Leal Cason**
Unit No: **24**
Reference Elevations: **1983.00 ft (KB)**
1977.00 ft (CF)
KB to GR/CF: **6.00 ft**

Serial #: 8166

Inside

Press@RunDepth: **73.13 psig @ 4727.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2007.12.05** End Date: **2007.12.05** Last Calib.: **2007.12.05**
Start Time: **04:40:42** End Time: **12:19:17** Time On Btrm: **2007.12.05 @ 07:19:57**
Time Off Btrm: **2007.12.05 @ 10:26:37**

TEST COMMENT: IF Weak Blow 2 1/2 "
ISI No Blow back
FF Weak Blow 1 3/4 "
FSI No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2383.93	108.80	Initial Hydro-static
2	19.24	109.43	Open To Flow (1)
33	46.13	111.41	Shut-In (1)
79	1202.15	114.78	End Shut-In (1)
79	51.52	114.47	Open To Flow (2)
124	73.13	116.74	Shut-In (2)
184	867.54	119.87	End Shut-In (2)
187	2385.08	119.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 30 Feet	0.00
125.00	SWOCM 3%W 12%O 85%M	0.61

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Co
PO Box 1009
Mcpherson KS 67460
ATTN: Tom Funk

#1 Ranch
5 30 15 Barber KS
Job Ticket: 29864 **DST#: 2**
Test Start: 2007.12.05 @ 04:40:37

Tool Information

Drill Pipe:	Length: 4470.00 ft	Diameter: 3.80 inches	Volume: 62.70 bbl	Tool Weight: 2100.00 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: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.90 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4726.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Circulating sub	1.00			4706.00	
Change Over Sub	1.00			4707.00	
Shut In Tool	5.00			4712.00	
Hydraulic tool	5.00			4717.00	
Packer	5.00			4722.00	21.00 Bottom Of Top Packer
Packer	4.00			4726.00	
Stubb	1.00			4727.00	
Recorder	0.00	8166	Inside	4727.00	
Recorder	0.00	8356	Outside	4727.00	
Perforations	3.00			4730.00	
Drill Pipe	32.00			4762.00	
Perforations	5.00			4767.00	
Bullnose	3.00			4770.00	44.00 Bottom Packers & Anchor

Total Tool Length: 65.00

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co
PO Box 1009
Mcpherson KS 67460
ATTN: Tom Funk

#1 Ranch
5 30 15 Barber KS
Job Ticket: 29864 **DST#: 2**
Test Start: 2007.12.05 @ 04:40:37

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP 30 Feet	0.000
125.00	SWOCM 3%W 12%O 85%M	0.615

Total Length: 125.00 ft Total Volume: 0.615 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8166

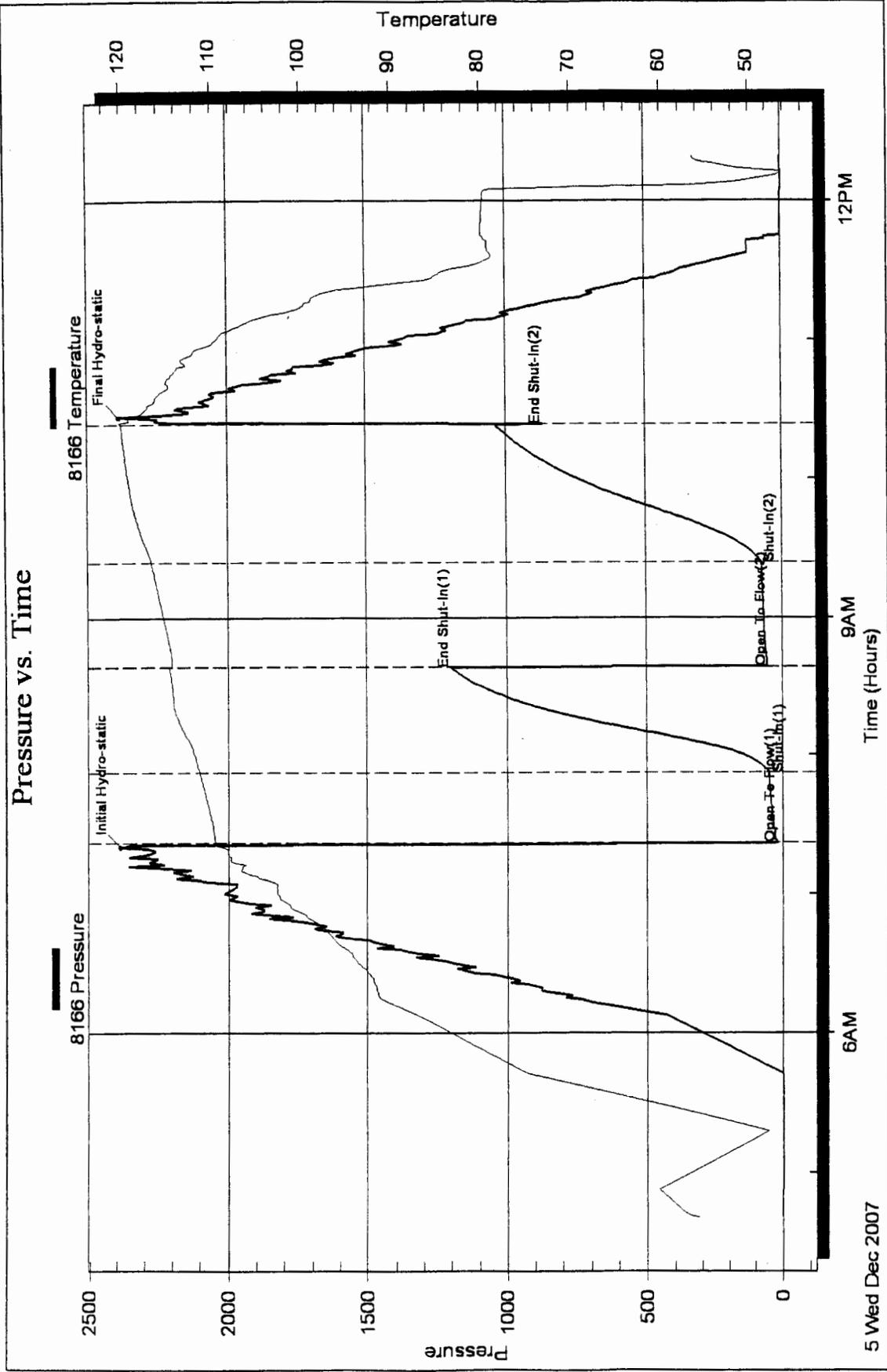
Inside

Hess Oil Co

5 30 15 Barber KS

DST Test Number: 2

Pressure vs. Time



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Ref. No: 29864

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