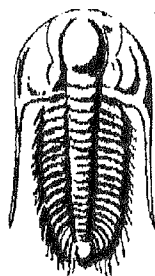


2-11-07

5-16s-21w

API # 15-135-24603-00-00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Hess Oil CO**

225 N Market Ste 300
Wichita KS 67202

ATTN: Bryan Hess

5 16S 21W Ness KS

Norma # 1

Start Date: 2007.02.10 @ 10:42:26

End Date: 2007.02.10 @ 16:39:56

Job Ticket #: 27528 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

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Printed: 2007.02.12 @ 14:04:27, Page 1

Hess Oil CO

Norma # 1

5 16S 21W Ness KS

DST # 1

Cherokee

2007.02.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hess Oil CO

225 N Market Ste 300
Wichita KS 67202

ATTN: Bryan Hess

Norma # 1

5 16S 21W Ness KS

Job Ticket: 27528

DST#: 1

Test Start: 2007.02.10 @ 10:42:26

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:50:56

Time Test Ended: 16:39:56

Test Type: Conventional Bottom Hole

Tester: John Schmidt6

Unit No: 31

Interval: **4200.00 ft (KB) To 4250.00 ft (KB) (TVD)**

Total Depth: 4250.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2365.00 ft (KB)

2360.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6669

Inside

Press@RunDepth: 38.34 psig @ 4205.00 ft (KB)

Start Date: 2007.02.10

End Date:

2007.02.10

Start Time: 10:42:31

End Time:

16:39:55

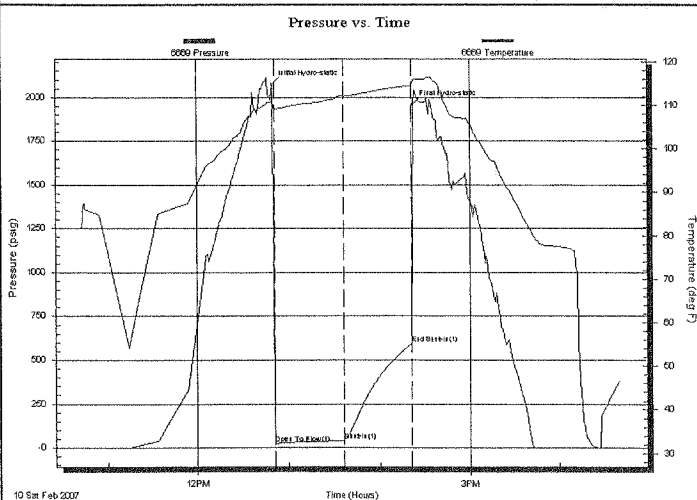
Capacity: 7000.00 psig

Last Calib.: 2007.02.10

Time On Btm: 2007.02.10 @ 12:49:56

Time Off Btm: 2007.02.10 @ 14:21:56

TEST COMMENT: IF Weak built 1" in 5 min Dead in 35 min
ISI Dead



PRESSURE SUMMARY

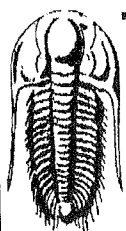
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2075.75	110.84	Initial Hydro-static
1	20.32	108.67	Open To Flow (1)
46	38.34	112.12	Shut-In(1)
91	593.73	114.57	End Shut-In(1)
92	1957.79	115.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	DMud	0.10

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil CO

225 N Market Ste 300
Wichita KS 67202

ATTN: Bryan Hess

Norma # 1

5 16S 21W Ness KS

Job Ticket: 27528

DST#: 1

Test Start: 2007.02.10 @ 10:42:26

Tool Information

Drill Pipe:	Length: 3949.00 ft	Diameter: 3.80 inches	Volume: 55.39 bbl	Tool Weight:	2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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:	65000.00 lb
		Total Volume:	56.59 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4200.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	73.00 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			4178.00	
Shut In Tool	5.00			4183.00	
Hydraulic tool	5.00			4188.00	
Safety Joint	3.00			4191.00	
Packer	4.00			4195.00	23.00 Bottom Of Top Packer
Packer	5.00			4200.00	
Stubb	1.00			4201.00	
Perforations	3.00			4204.00	
Change Over Sub	1.00			4205.00	
Recorder	0.00	6669	Inside	4205.00	
Blank Spacing	31.00			4236.00	
Change Over Sub	1.00			4237.00	
Recorder	0.00	11084	Outside	4237.00	
Perforations	10.00			4247.00	
Bullnose	3.00			4250.00	50.00 Bottom Packers & Anchor

Total Tool Length: 73.00

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WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil CO

Norma # 1

225 N Market Ste 300
Wichita KS 67202

5 16S 21W Ness KS

Job Ticket: 27528

DST#: 1

ATTN: Bryan Hess

Test Start: 2007.02.10 @ 10:42:26

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: 8.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	DMud	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

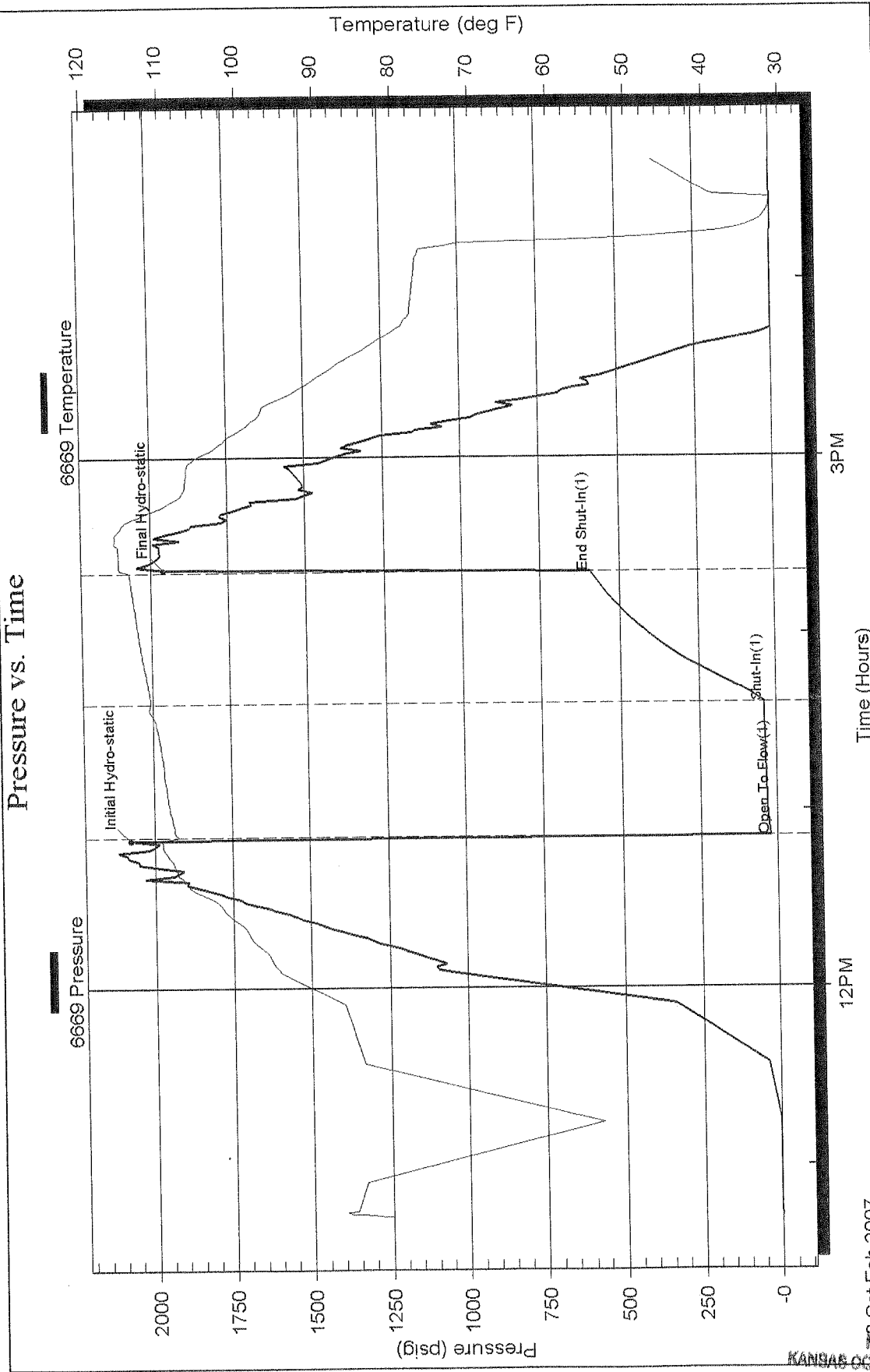
5 16S 21W Ness KS

Hess Oil CO

Inside

Serial #: 6669

Pressure vs. Time



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CONSERVATION DIVISION
WICHITA, KS

Ref. No: 27528

Mobile Testing, Inc