

7-16s-22w

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TRILOBITE
TESTING, INC.

15-135-24416-00-00

DRILL STEM TEST REPORT

Prepared For: **Hess Oil Co**
225 N Market # 300
Wichita KS 76202

ATTN: Jamie Hess

7-16-22-Ness-Ks

Ruby # 4

Start Date: 2005.12.14 @ 12:00:35
End Date: 2005.12.14 @ 17:51:05
Job Ticket #: 23868 DST #: 1

SE SW NW SE
1540 FSL 2230 FEL

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

Hess Oil Co
Ruby # 4
7-16-22-Ness-Ks
DST # 1
Cher Sd
2005.12.14



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TESTING, INC.**

DRILL STEM TEST REPORT

Hess Oil Co
225 N Market # 300
Wichita KS 76202
ATTN: Jamie Hess

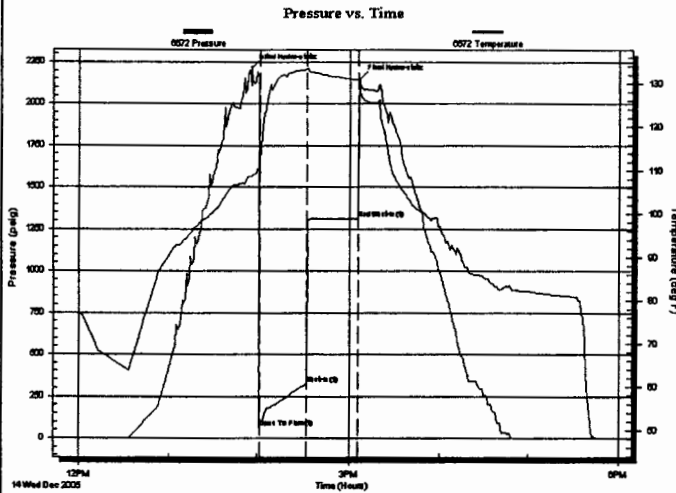
Ruby # 4
.7-16-22-Ness-Ks
Job Ticket: 23868 DST#: 1
Test Start: 2005.12.14 @ 12:00:35

GENERAL INFORMATION:

Formation: **Cher Sd**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 14:01:35
Time Test Ended: 17:51:05
Interval: **4330.00 ft (KB) To 4407.00 ft (KB) (TVD)**
Total Depth: **4407.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Dan Bangle**
Unit No: **21**
Reference Elevations: **2455.00 ft (KB)**
2450.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6672 **Inside**
Press@RunDepth: **323.57 psig @ 4333.00 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2005.12.14** End Date: **2005.12.14** Last Calib.: **2005.12.14**
Start Time: **12:00:36** End Time: **17:51:05** Time On Btrn: **2005.12.14 @ 13:56:35**
Time Off Btrn: **2005.12.14 @ 15:06:35**

TEST COMMENT: IF-Strong B-B in 7 min
Times-30-30



PRESSURE SUMMARY

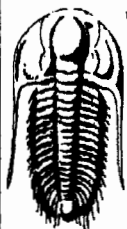
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.35	108.53	Initial Hydro-static
5	65.12	110.31	Open To Flow (1)
36	323.57	133.34	Shut-In(1)
69	1312.14	130.86	End Shut-In(1)
70	2149.21	130.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
558.00	Mtly w tr w / scum of oil	5.56
124.00	Silty OCM 2%o 98%m	1.74
0.00	Rw .24 @ 78 = 38000ppm	0.00

Gas Rates

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



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TOOL DIAGRAM

Hess Oil Co

Ruby # 4

225 N Market # 300
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7-16-22-Ness-Ks

Job Ticket: 23868

DST#: 1

ATTN: Jamie Hess

Test Start: 2005.12.14 @ 12:00:35

Tool Information

Drill Pipe:	Length: 4069.00 ft	Diameter: 3.80 inches	Volume: 57.08 bbl	Tool Weight: 3000.00 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: 249.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 58.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4330.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4302.00	
Shut In Tool	5.00			4307.00	
Hydraulic tool	5.00			4312.00	
Jars	5.00			4317.00	
Safety Joint	3.00			4320.00	
Packer	5.00			4325.00	29.00 Bottom Of Top Packer
Packer	5.00			4330.00	
Stubb	1.00			4331.00	
Perforations	1.00			4332.00	
Change Over Sub	1.00			4333.00	
Recorder	0.00	6672	Inside	4333.00	
Drill Pipe	61.00			4394.00	
Change Over Sub	1.00			4395.00	
Recorder	0.00	13254	Outside	4395.00	
Perforations	9.00			4404.00	
Bullnose	3.00			4407.00	77.00 Bottom Packers & Anchor
Total Tool Length:	106.00				



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FLUID SUMMARY

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Job Ticket: 23868

DST#: 1

ATTN: Jamie Hess

Test Start: 2005.12.14 @ 12:00:35

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:

bbbl

Water Loss: 10.19 in³

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
558.00	Mdy w tr w / scum of oil	5.559
124.00	Sltly OCM 2%o 98%m	1.739
0.00	Rw .24 @ 78 = 38000ppm	0.000

Total Length: 682.00 ft

Total Volume: 7.298 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6672

Inside Hess Oil Co

7-16-22-Ness-Ks

DST Test Number: 1

