

15-195-22281

16-15s-22w



DRILL STEM TEST REPORT

Prepared For: **Hess Oil Company**

P.O. Box 1009
McPherson, Ks 67460

ATTN: James Hess

16-15s-22w Trego

Coleen #1

Start Date: 2005.02.01 @ 12:03:06

End Date: 2005.02.01 @ 19:52:41

Job Ticket #: 20465 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Hess Oil Company

Coleen #1

16-15s-22w Trego

DST # 1

Cherokee sand

2005.02.01



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Company
P.O. Box 1009
McPherson, Ks 67460
ATTN: James Hess

Coleen #1
16-15s-22w Trego
Job Ticket: 20465 DST#: 1
Test Start: 2005.02.01 @ 12:03:06

Tool Information

Drill Pipe:	Length: 3920.00 ft	Diameter: 3.80 inches	Volume: 54.99 bbl	Tool Weight: 1500.00 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: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 76000.00 lb
			<u>Total Volume: 56.20 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4187.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	93.00 ft			
Tool Length:	121.00 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			4160.00	
Shut In Tool	5.00			4165.00	
Hydraulic tool	5.00			4170.00	
Jars	5.00			4175.00	
Safety Joint	3.00			4178.00	
Packer	5.00		Fluid	4183.00	28.00 Bottom Of Top Packer
Packer	4.00			4187.00	
Stubb	1.00			4188.00	
Recorder	0.00	6772	Inside	4188.00	
Perforations	22.00			4210.00	
Change Over Sub	1.00			4211.00	
Drill Pipe	63.00			4274.00	
Change Over Sub	1.00			4275.00	
Recorder	0.00	10248	Inside	4275.00	
Bullnose	5.00			4280.00	93.00 Bottom Packers & Anchor

Total Tool Length: 121.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company
P.O. Box 1009
McPherson, Ks 67460
ATTN: James Hess

Coleen #1
16-15s-22w Trego
Job Ticket: 20465 **DST#: 1**
Test Start: 2005.02.01 @ 12:03:06

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.57 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
246.00	mcw 60%w 40%m	1.210
252.00	ow cm 5%o 10%w 85%m	3.535
126.00	ocm 5%o 95%m	1.767
282.00	mud oil spots 100%m	3.956

Total Length: 906.00 ft Total Volume: 10.468 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6772

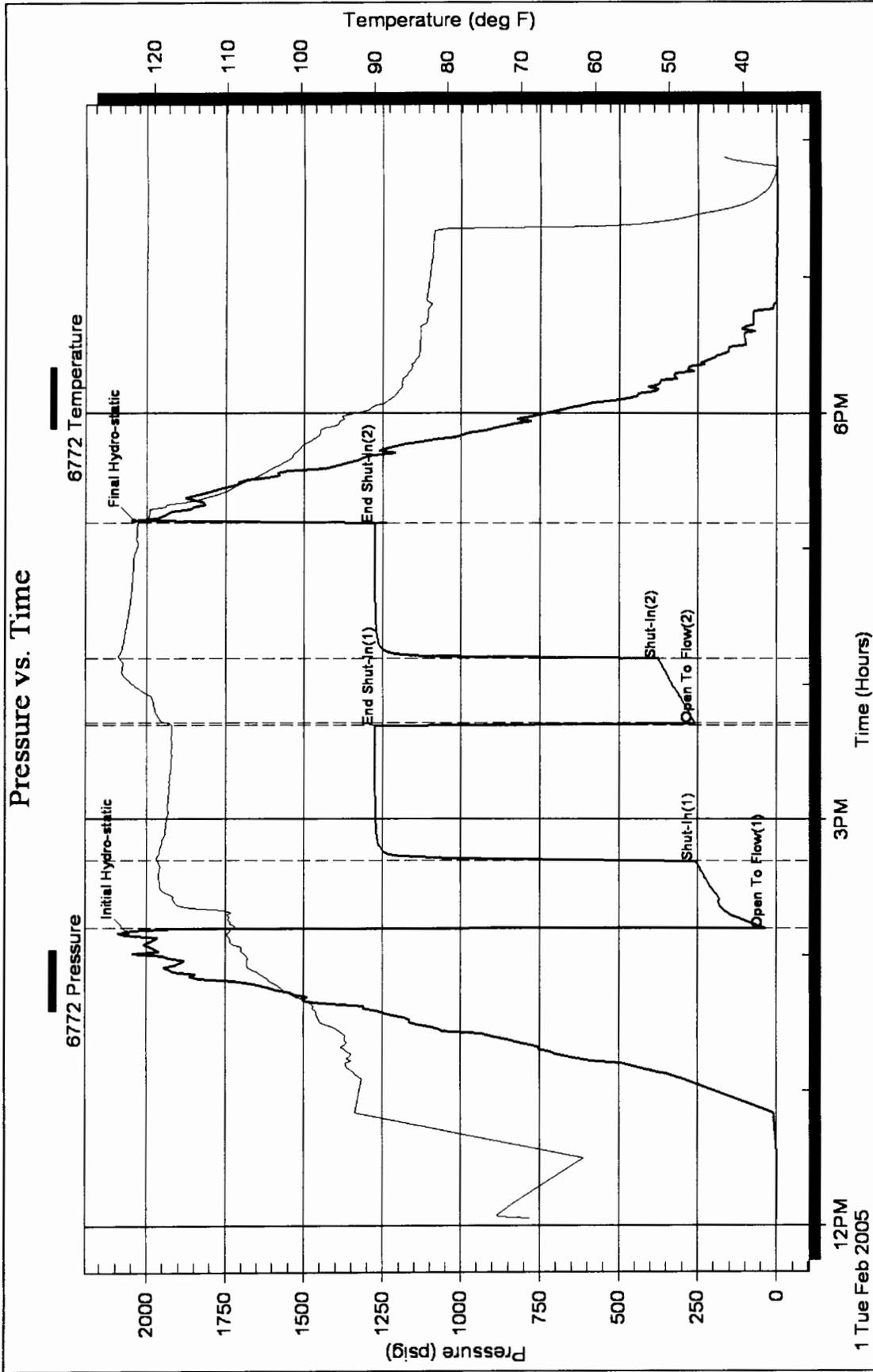
Inside

Hess Oil Company

16-15s-22w Trego

DST Test Number: 1

Pressure vs. Time



12PM
1 Tue Feb 2005

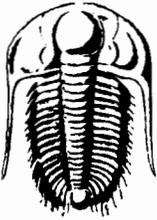
3PM

6PM

Trilobite Testing, Inc

Ref. No: 20465

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV 7174

No 20465

05/03

Test Ticket

Well Name & No. <u>Coleen #1</u>	Test No. <u>1</u>	Date <u>2-1-05</u>
Company <u>Hess oil company</u>	Zone Tested <u>Cherokee sand</u>	
Address <u>P.O. Box 1009 McPherson, KS 67460</u>	Elevation <u>2242</u> KB <u>2237</u>	GL
Co. Rep / Geo. <u>James Hess</u>	Cont. <u>Mallard</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>16</u> Twp. <u>15s</u> Rge. <u>22w</u> Co. <u>Trego</u> State <u>KS</u>		
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested <u>4094</u> <u>4187</u>	Initial Str Wt./Lbs. <u>52000</u>	Unseated Str Wt./Lbs. <u>56000</u>
Anchor Length _____	Wt. Set Lbs. <u>25000</u>	Wt. Pulled Loose/Lbs. <u>76000</u>
Top Packer Depth _____	Tool Weight <u>1500</u>	
Bottom Packer Depth _____	Hole Size 7 7/8" <input checked="" type="checkbox"/>	Rubber Size 6 3/4" <input checked="" type="checkbox"/>
Total Depth _____	Wt. Pipe Run <input checked="" type="checkbox"/>	Drill Collar Run <u>246</u>
Mud Wt. <u>9.0</u> LCM <u>40</u> Vis. <u>850</u> WL <u>8.6</u>	Drill Pipe Size <u>4 1/2 X H</u>	Ft. Run <u>3920</u>

Blow Description IF: 1/4 blow BOB in 9 min.
IS: No return.
FF: 1/4 blow BOB in 12 min.
FS: No return.

Recovery - Total Feet <u>906</u>	GIP _____	Ft. in DC <u>246</u>	Ft. in DP <u>660</u>
Rec. <u>282</u>	Feet of <u>mud oil spots</u>	%gas _____ %oil _____ %water <u>100</u> %mud _____	
Rec. <u>126</u>	Feet of <u>ocm</u>	%gas <u>5</u> %oil _____ %water <u>95</u> %mud _____	
Rec. <u>252</u>	Feet of <u>owcm</u>	%gas <u>5</u> %oil <u>10</u> %water <u>85</u> %mud _____	
Rec. <u>246</u>	Feet of <u>mcw</u>	%gas _____ %oil <u>60</u> %water <u>40</u> %mud _____	
Rec. _____	Feet of _____	%gas _____ %oil _____ %water _____ %mud _____	
BHT <u>124</u>	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____
RW <u>5</u> @ <u>47</u> °F	Chlorides <u>22000</u> ppm	Recovery <u>22000</u> Chlorides <u>3000</u> ppm	System

(A) Initial Hydrostatic Mud	AK-1 <u>2061</u> PSI	Alpine	Recorder No. <u>6772</u>	Test <u>X</u> <u>1000.00</u>
(B) First Initial Flow Pressure	<u>36</u> PSI		(depth) <u>4095</u>	Elec. Rec. <u>X</u>
(C) First Final Flow Pressure	<u>257</u> PSI		Recorder No. <u>10248</u>	Jars <u>X</u> <u>200.00</u>
(D) Initial Shut-In Pressure	<u>1274</u> PSI		(depth) <u>4186</u>	Safety Jt. <u>X</u> <u>50.00</u>
(E) Second Initial Flow Pressure	<u>259</u> PSI		Recorder No. _____	Circ Sub <u>X</u> <u>ATB</u>
(F) Second Final Flow Pressure	<u>375</u> PSI		(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1274</u> PSI	Initial Opening	<u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2041</u> PSI	Initial Shut-In	<u>60</u>	Ext. Packer _____
		Final Flow	<u>30</u>	Shale Packer _____
		Final Shut-In	<u>60</u>	Mileage <u>164</u> <u>164</u>

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Approved By: [Signature]

Our Representative: [Signature]

T-Started 2402
T-Open 0210
T-Pulled 0510
T-Out 0751

Sub Total: 1414
Total: _____

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

10248 Hess Oil Company
#1 Co/een #1

