

DRILL STEM TEST REPORT

Prepared For: **Hess Oil Co.**

P.O.Box 1009
McPherson, KS 67460

ATTN: Don Reichenberger

17-15s-22w

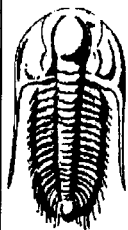
Rosetta # 1

Start Date: 2004.08.31 @ 12:54:31

End Date: 2004.08.31 @ 18:34:31

Job Ticket #: 19372 DST #: 1

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Hess Oil Co.

Rosetta # 1

P.O.Box 1009
McPherson, KS 67460

17-15s-22w

Job Ticket: 19372

DST#: 1

ATTN: Don Reichenberger

Test Start: 2004.08.31 @ 12:54:31

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:51:31

Time Test Ended: 18:34:31

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **4138.00 ft (KB) To 4230.00 ft (KB) (TVD)**

Reference Elevations: 2295.00 ft (KB)

Total Depth: 4230.00 ft (KB) (TVD)

2290.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6742 Inside

Press@RunDepth: 926.09 psig @ 4142.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.08.31

End Date:

2004.08.31

Last Calib.: 2004.08.31

Start Time: 12:54:36

End Time:

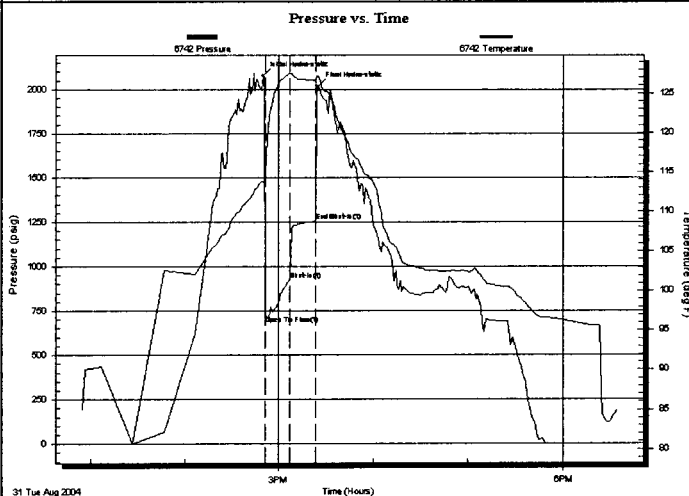
18:34:30

Time On Btm: 2004.08.31 @ 14:50:01

Time Off Btm: 2004.08.31 @ 15:25:01

TEST COMMENT: IF-Strong B.O.B.in 1 min.

ISI-Good blow back 2" in.



PRESSURE SUMMARY

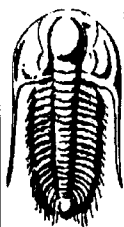
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.46	113.70	Initial Hydro-static
2	676.29	113.96	Open To Flow (1)
17	926.09	127.52	Shut-In(1)
33	1254.38	126.69	End Shut-In(1)
35	2018.67	127.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1875.00	Gassy oil 10%gas-90%oil	24.08
0.00	200 gas in pipe	0.00

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Co.

Rosetta # 1

P.O.Box 1009
McPherson, KS 67460

17-15s-22w

Job Ticket: 19372

DST#: 1

ATTN: Don Reichenberger

Test Start: 2004.08.31 @ 12:54:31

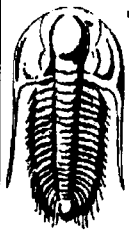
Tool Information

Drill Pipe:	Length: 3894.00 ft	Diameter: 3.80 inches	Volume: 54.62 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: 25000.00 lb
Drill Collar:	Length: 244.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 55.82 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4138.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 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
Change Over Sub	1.00			4114.00	
Shut In Tool	5.00			4119.00	
Hydraulic tool	5.00			4124.00	
Jars	5.00			4129.00	
Packer	4.00			4133.00	25.00 Bottom Of Top Packer
Packer	5.00			4138.00	
Stubb	1.00			4139.00	
Perforations	2.00			4141.00	
Change Over Sub	1.00			4142.00	
Recorder	0.00	6742	Inside	4142.00	
Blank Spacing	64.00			4206.00	
Change Over Sub	1.00			4207.00	
Recorder	0.00	11084	Outside	4207.00	
Perforations	20.00			4227.00	
Bullnose	3.00			4230.00	92.00 Bottom Packers & Anchor

Total Tool Length: 117.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co.

Rosetta # 1

P.O.Box 1009
McPherson, KS 67460

17-15s-22w

Job Ticket: 19372

DST#: 1

ATTN: Don Reichenberger

Test Start: 2004.08.31 @ 12:54:31

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 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
1875.00	Gassy oil 10%gas-90%oil	24.079
0.00	200 gas in pipe	0.000

Total Length: 1875.00 ft

Total Volume: 24.079 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

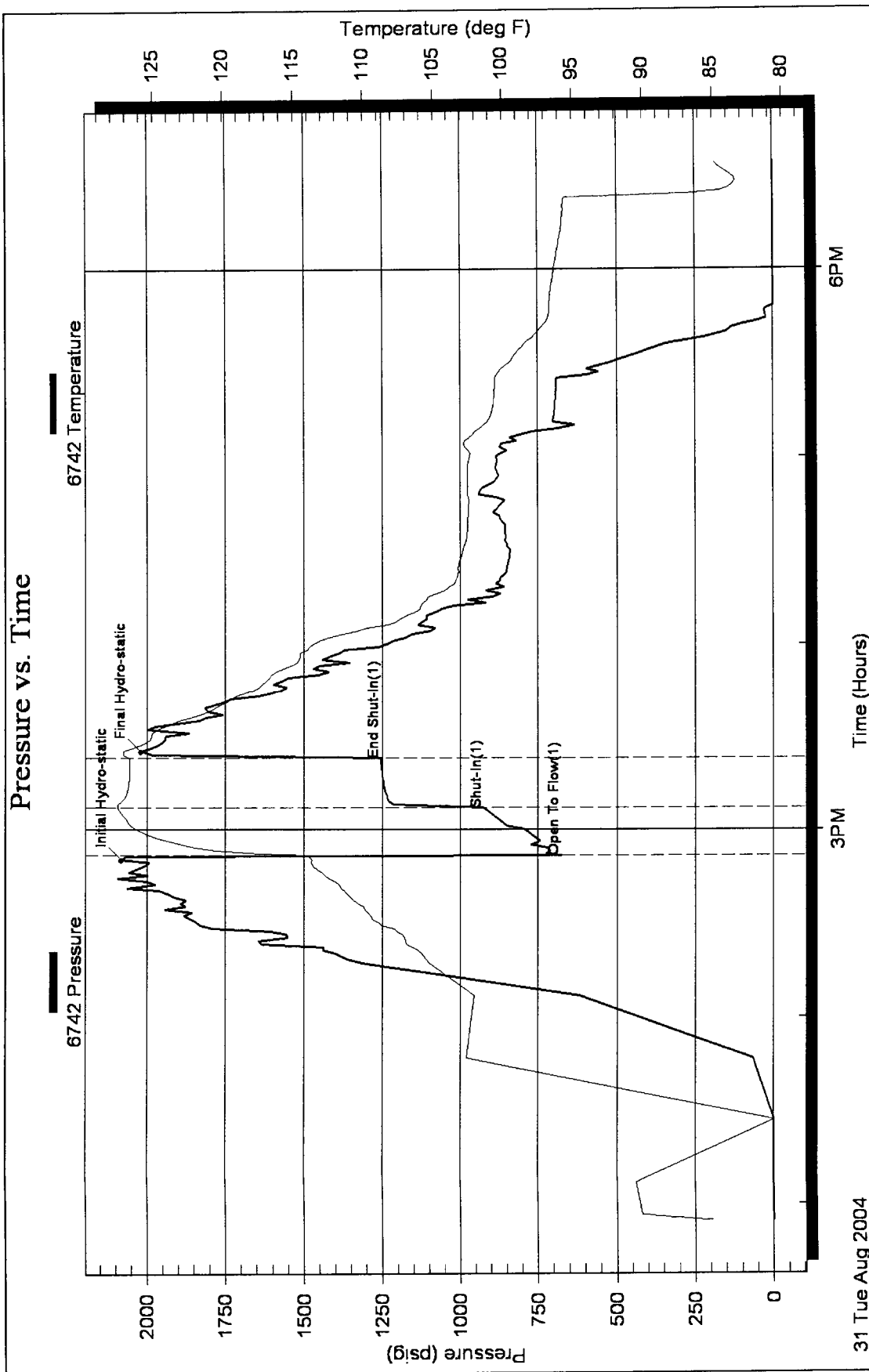
Serial #: 6742

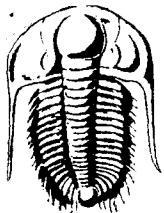
Inside

Hess Oil Co.

17-15s-22w

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19372

TNW
0746

05/03

Test Ticket

Well Name & No. ROSETTA*1 Test No. #1 Date 8-31-04
Company HESS OIL Co. Zone Tested CHEROKEE
Address P.O. Box 1009 McPHERSON, KS 67460 Elevation 2295 KB 2290 GL
Co. Rep / Geo. JAMIE HESS Cont. MALLARD Est. Ft. of Pay _____ Por. _____ %
Location: Sec. 17 Twp. 15S Rge. 22W Co. TREGO State KS
No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4138 TO 4230 Initial Str Wt./Lbs. 59,000 Unseated Str Wt./Lbs. 63,000
Anchor Length 92 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000
Top Packer Depth 4133 Tool Weight 2300
Bottom Packer Depth 4138 Hole Size 7 7/8" Rubber Size 6 3/4" ✓
Total Depth 4230 Wt. Pipe Run 0 Drill Collar Run 244
Mud Wt. 9.2 LCM - Vis. 50 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3894
Blow Description IF. STRONG B.O.B. 1-min. ISI. GOOD BLOW BACK 2" in

Recovery - Total Feet 1875 GIP 200' Ft. in DC 244' Ft. in DP 1631
Rec. 1875 Feet of GASSY OIL 10 %gas 90 %oil %water %mud
Rec. _____ Feet of _____ %gas %oil %water %mud
Rec. _____ Feet of _____ %gas %oil %water %mud
Rec. _____ Feet of _____ %gas %oil %water %mud
Rec. _____ Feet of _____ %gas %oil %water %mud
BHT _____ °F Gravity 39 °API D @ 70 °F Corrected Gravity 38? °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 3,000 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	Recorder No.	<u>6742</u>	Test <u>B. HOLE</u>	<u>1000</u>
(B) First Initial Flow Pressure		<u>2080</u> PSI	(depth)	<u>4142</u>	Elec. Rec.	✓
(C) First Final Flow Pressure		<u>676</u> PSI	Recorder No.	<u>11084</u>	Jars	✓ <u>200</u>
(D) Initial Shut-In Pressure		<u>926</u> PSI	(depth)	<u>4207</u>	Safety Jt.	✓
(E) Second Initial Flow Pressure		<u>1254</u> PSI	Recorder No.		Circ Sub	✓ <u>35</u>
(F) Second Final Flow Pressure		_____ PSI	(depth)		Sampler	
(G) Final Shut-In Pressure		_____ PSI	Initial Opening	<u>15</u>	Straddle	
(Q) Final Hydrostatic Mud		<u>2018</u> PSI	Initial Shut-In	<u>15</u>	Ext. Packer	

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]

Our Representative John Schmidt

Final Flow	<u>11:45</u>	Mileage	<u>100-RTRIP 85</u>
Final Shut-In	<u>12:54</u>	Sub Total:	<u>13200</u>
T-On Location	<u>14:51</u>	Std. By	
T-Started	<u>15:25</u>	Other	
T-Open	<u>18:34</u>	Total:	
T-Pulled			
T-Out			