

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name MARGIE #1 Test No. 1 Date 12/22/93
Company HESS OIL CO., INC. Zone CHEROKEE
Address BOX 1009 McPHERSON KANSAS Elevation 2302
Co. Rep./Geo. JAMES C. HESS Cont. MALLARD RIG #2 Est. Ft. of Pay 2
Location: Sec. 17 Twp. 17S Rge. 22W Co. NESS State KS

Interval Tested 4228-4250 Drill Pipe Size 4.5" FH
Anchor Length 22 Wt. Pipe I.D. - 2.7 Ft. Run 298
Top Packer Depth 4223 Drill Collar - 2.25 Ft. Run 9.1
Bottom Packer Depth 4228 Mud Wt. 52 lb/Gal.
Total Depth 4250 Viscosity 10

Tool Open @ 11:19 PM Initial Blow STRONG BLOW OFF BOTTOM IN 45 SECONDS

Final Blow 15 MINUTE INITIAL OPENING - OUT OF HOLE

Recovery - Total Feet 1070 Flush Tool? NO

Rec. 1008 Feet of GAS IN PIPE
Rec. 624 Feet of CLEAN GASSY OIL- 10% GAS/ 90% OIL
Rec. 206 Feet of GSY WTR CUT MUDDY OIL-5%GAS/65%OIL/10%WTR/20%MUD
Rec. 240 Feet of SLTLY OIL STAINED WATER- 2% OIL/ 98% WTR
Rec. _____ Feet of _____

BHT 116 °F Gravity 37 °API @ 50 °F Corrected Gravity 38 °API
RW 0.1 @ 80 °F Chlorides 63000 ppm Recovery Chlorides 10000 ppm System

(A) Initial Hydrostatic Mud 2078.3 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 281.4 PSI @ (depth) 4230 w / Clock No. 7452

(C) First Final Flow Pressure 415.9 PSI AK1 Recorder No. 2023 Range 4000

(D) Initial Shut-in Pressure _____ PSI @ (depth) 4245 w / Clock No. 30401

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure _____ PSI Initial Opening 15 Final Flow _____

(H) Final Hydrostatic Mud 2050.9 PSI Initial Shut-in _____ Final Shut-in _____

Our Representative MARK HERSKOWITZ

CALCULATED RECOVERY ANALYSIS

DST

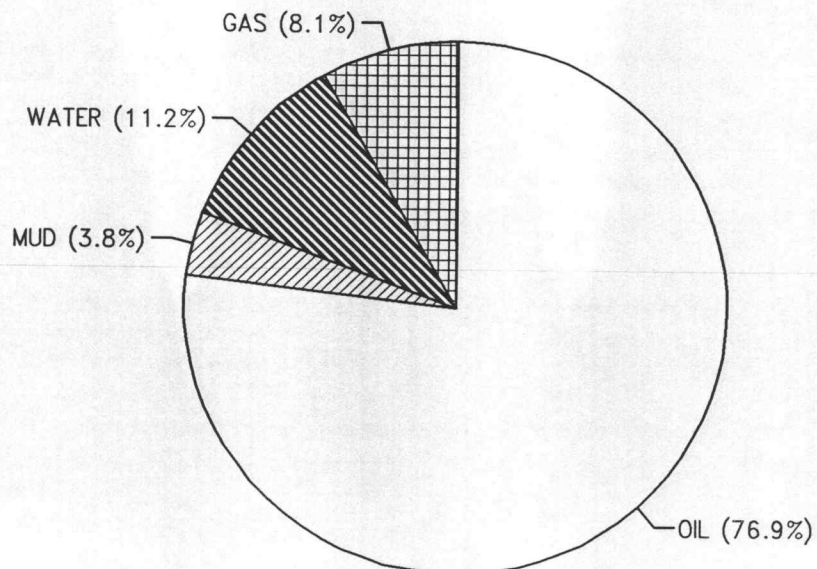
1

TICKET #

6360

SAMPLE	TOTAL	GAS		OIL		WATER		MUD	
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	624	10	62.4	90	561.6	0	0	0	0
PIPE 2	148	5	7.4	65	96.2	10	14.8	20	29.6
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	58	5	2.9	65	37.7	10	5.8	20	11.6
COLLAR 2	240	0	0	2	4.8	98	235.2	0	0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	1070		72.7		700.3		255.8		41.2

			HRS OPEN	BBL/DAY
BBL OIL=	9.561741	*	0.25	917.92714
BBL WATER=	1.388946	*		133.33882
BBL MUD=	0.477636			
BBL GAS =	1.006737			



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Test Ticket

No 6360

Well Name & No. <u>MARGIE 1st</u>	Test No. <u>1</u>	Date <u>12-22-93</u>
Company <u>Hess Oil Comp</u>	Zone Tested <u>CHEROKEE</u>	
Address <u>Box 1009 McPherson K</u>	Elevation <u>2302 KB</u>	
Co. Rep./Geo. <u>JAMES HESS</u>	Cont. <u>MAILLARD Big 2</u>	Est. Ft. of Pay <u>2</u>
Location: Sec. <u>17</u> Twp. <u>17 S</u> Rge. <u>22 W</u>	Co. <u>NESS</u>	State <u>KS</u>
No. of Copies <u>5??</u>	Distribution Sheet <u>Yes</u>	Turnkey <u>Yes</u> Evaluation <u>No</u>

Interval Tested <u>4228</u> <u>4250</u>	Drill Pipe Size <u>4 1/2 FH</u>
Anchor Length <u>22</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>4223</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>4228</u>	Wt. Pipe I.D. — 2.7 Ft. Run
Total Depth <u>4250</u>	Drill Collar — 2.25 Ft. Run <u>298</u>
Mud Wt. <u>9.1</u> <u>LCM</u> — lb/gal.	Viscosity <u>52</u> Filtrate <u>10.0</u>
Tool Open @ <u>11:19 PM</u>	Initial Blow <u>STRONG BLOW OFF BOTTOM IN 45 SEC</u>
Final Blow <u>15 MIN INITIAL OPENING OUT OF HOLE</u>	

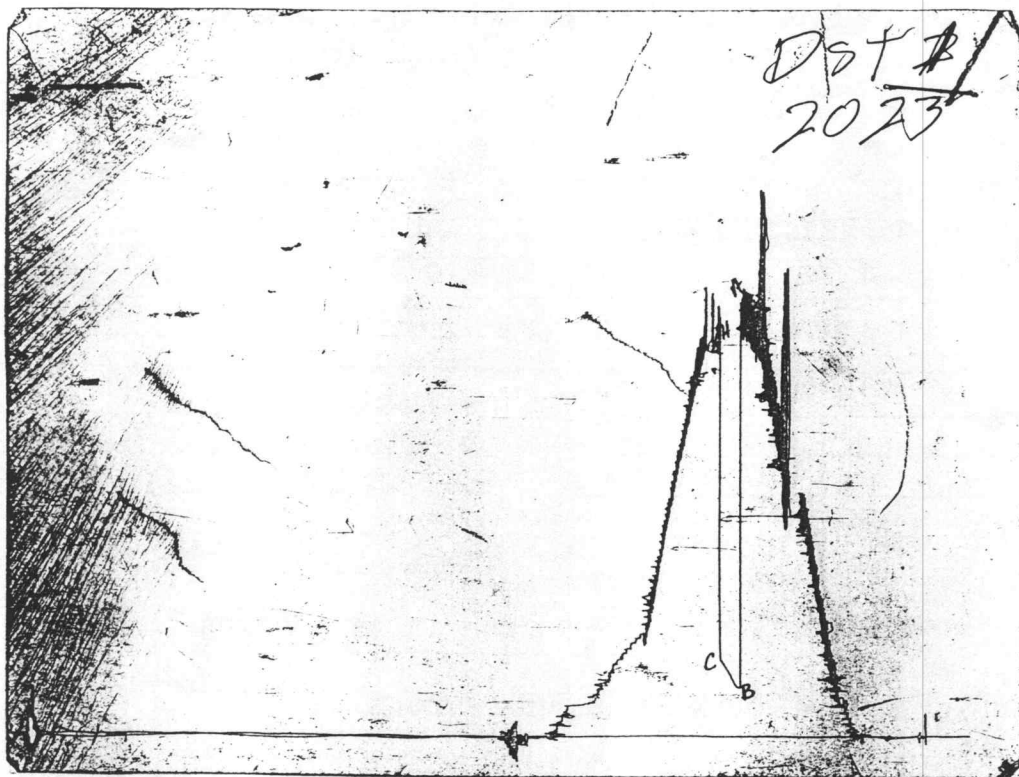
Recovery — Total Feet <u>1070</u>	Feet of Gas in Pipe <u>1008</u>	Flush Tool? <u>—</u>
Rec. <u>624</u> Feet Of <u>GC OIL</u> <u>10% gas 90% oil</u> %water %mud		
Rec. <u>206</u> Feet Of <u>GWCM WATER</u> <u>5% gas 65% oil 10% water 20% mud</u>		
Rec. <u>240</u> Feet Of <u>S OIL WATER</u> %gas 2% oil 98% water %mud		
Rec. _____ Feet Of _____ %gas %oil %water %mud		
Rec. _____ Feet Of _____ %gas %oil %water %mud		
BHT <u>116</u> °F Gravity <u>37</u> °API @ <u>50</u> °F Corrected Gravity <u>38</u> °API		
RW <u>0.10</u> @ <u>80</u> °F Chlorides <u>6300</u> ppm Recovery Chlorides <u>10000</u> ppm System		
(A) Initial Hydrostatic Mud <u>206</u> PSI AK1 Recorder No. <u>11057</u> Range <u>4500</u>		
(B) First Initial Flow Pressure <u>267</u> PSI @ (depth) <u>4230</u> w/Clock No. <u>7452</u>		
(C) First Final Flow Pressure <u>409</u> PSI AK1 Recorder No. <u>2023</u> Range <u>4000</u>		
(D) Initial Shut-In Pressure <u>—</u> PSI @ (depth) <u>4245</u> w/Clock No. <u>30901</u>		
(E) Second Initial Flow Pressure <u>—</u> PSI AK1 Recorder No. _____ Range _____		
(F) Second Final Flow Pressure <u>—</u> PSI @ (depth) _____ w/Clock No. _____		
(G) Final Shut-In Pressure <u>—</u> PSI Initial Opening <u>15</u> Test <u>✓</u> <u>600</u>		
(H) Final Hydrostatic Mud <u>2039</u> PSI Initial Shut-In <u>—</u> Jars <u>✓</u> <u>200</u>		

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Final Flow <u>—</u>	Safety Joint <u>✓</u> <u>50</u>
Final Shut-In <u>—</u>	Straddle _____
	Circ. Sub <u>✓</u> <u>NC</u>
	Sampler _____
	Extra Packer _____
	Other _____
	TOTAL PRICE \$ <u>850.00</u>

Approved By [Signature]
 Our Representative [Signature]
 Printcraft Printers - Hays, KS

CHART PAGE



This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

(A) INITIAL HYDROSTATIC MUD	2069	2078.3
(B) FIRST INITIAL FLOW PRESSURE	267	281.4
(C) FIRST FINAL FLOW PRESSURE	409	415.9
(D) INITIAL CLOSED-IN PRESSURE		
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD	2039	2050.9