



DRILL STEM TEST REPORT

Prepared For: **Hess Oil Company**

P.O. Box 1009
McPherson, KS 67460

ATTN: Jamie Hess

23-15-23 Trago

Shirley B #1

Start Date: 2006.02.26 @ 15:20:50

End Date: 2006.02.26 @ 23:49:29

Job Ticket #: 23126 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Company
P.O. Box 1009
McPherson, KS 67460
ATTN: Jamie Hess

Shirley B #1

23-15-23 Trago

Job Ticket: 23126

DST#: 1

Test Start: 2006.02.26 @ 15:20:50

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 17:54:00

Time Test Ended: 23:49:29

Test Type: **Conventional Bottom Hole**

Tester: **Brandon Turley**

Unit No: **35**

Interval: **4205.00 ft (KB) To 4290.00 ft (KB) (TVD)**

Total Depth: **4290.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2302.00 ft (KB)**

2297.00 ft (CF)

KB to GRVCF: **5.00 ft**

Serial #: 6772

Inside

Press@RunDepth: **266.20 psig @ 4206.00 ft (KB)**

Start Date: **2006.02.26**

End Date:

2006.02.26

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Start Time: **15:20:50**

End Time:

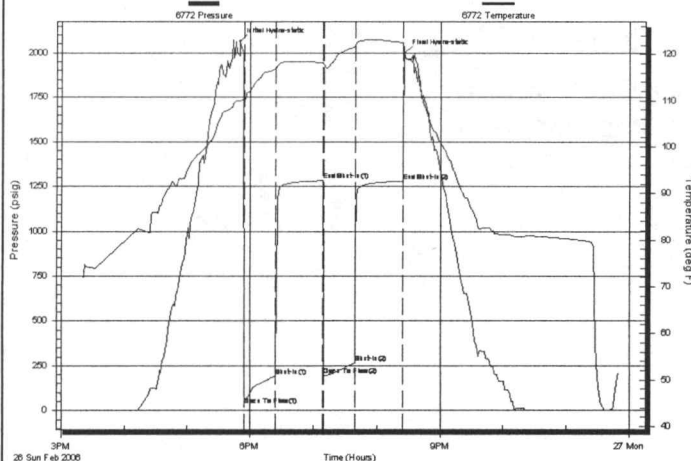
23:49:29

Time On Btm: **2006.02.26 @ 17:50:00**

Time Off Btm: **2006.02.26 @ 20:25:44**

TEST COMMENT: IF: 1/4 blow BOB in 13 min.
IS: No return.
FF: 1/4 blow BOB in 15 min.
FS: Surface blow built to 1/2 in 45 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2065.61	110.03	Initial Hydro-static
4	26.36	109.78	Open To Flow (1)
34	189.43	116.89	Shut-In(1)
79	1281.28	118.23	End Shut-In(1)
80	193.21	117.95	Open To Flow (2)
109	266.20	121.81	Shut-In(2)
154	1278.59	122.59	End Shut-In(2)
156	1999.18	120.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mco 60%o 40%m	0.61
311.00	mcgo 20%g 40%o 40%m	3.22
186.00	go 10%g 90%o	2.61
30.00	oil 100%	0.42

Gas Rates

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

Hess Oil Company

Shirley B #1

P.O. Box 1009
McPherson, KS 67460

23-15-23 Trago

Job Ticket: 23126

DST#: 1

ATTN: Jamie Hess

Test Start: 2006.02.26 @ 15:20:50

Tool Information

Drill Pipe:	Length: 3947.00 ft	Diameter: 3.80 inches	Volume: 55.37 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: 30000.00 lb
Drill Collar:	Length: 249.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 56.59 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4205.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	107.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4184.00	
Shut In Tool	5.00			4189.00	
Hydraulic tool	5.00			4194.00	
Safety Joint	2.00			4196.00	
Packer	5.00			4201.00	22.00 Bottom Of Top Packer
Packer	4.00			4205.00	
Stubb	1.00			4206.00	
Recorder	0.00	6772	Inside	4206.00	
Perforations	14.00			4220.00	
Change Over Sub	1.00			4221.00	
Drill Pipe	63.00			4284.00	
Change Over Sub	1.00			4285.00	
Recorder	0.00	7437	Outside	4285.00	
Bullnose	5.00			4290.00	85.00 Bottom Packers & Anchor

Total Tool Length: 107.00



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FLUID SUMMARY

Hess Oil Company

Shirley B #1

P.O. Box 1009
McPherson, KS 67460

23-15-23 Trago

Job Ticket: 23126

DST#: 1

ATTN: Jamie Hess

Test Start: 2006.02.26 @ 15:20:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mco 60%o 40%m	0.610
311.00	mcgo 20%g 40%o 40%m	3.224
186.00	go 10%g 90%o	2.609
30.00	oil 100%	0.421

Total Length: 651.00 ft

Total Volume: 6.864 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

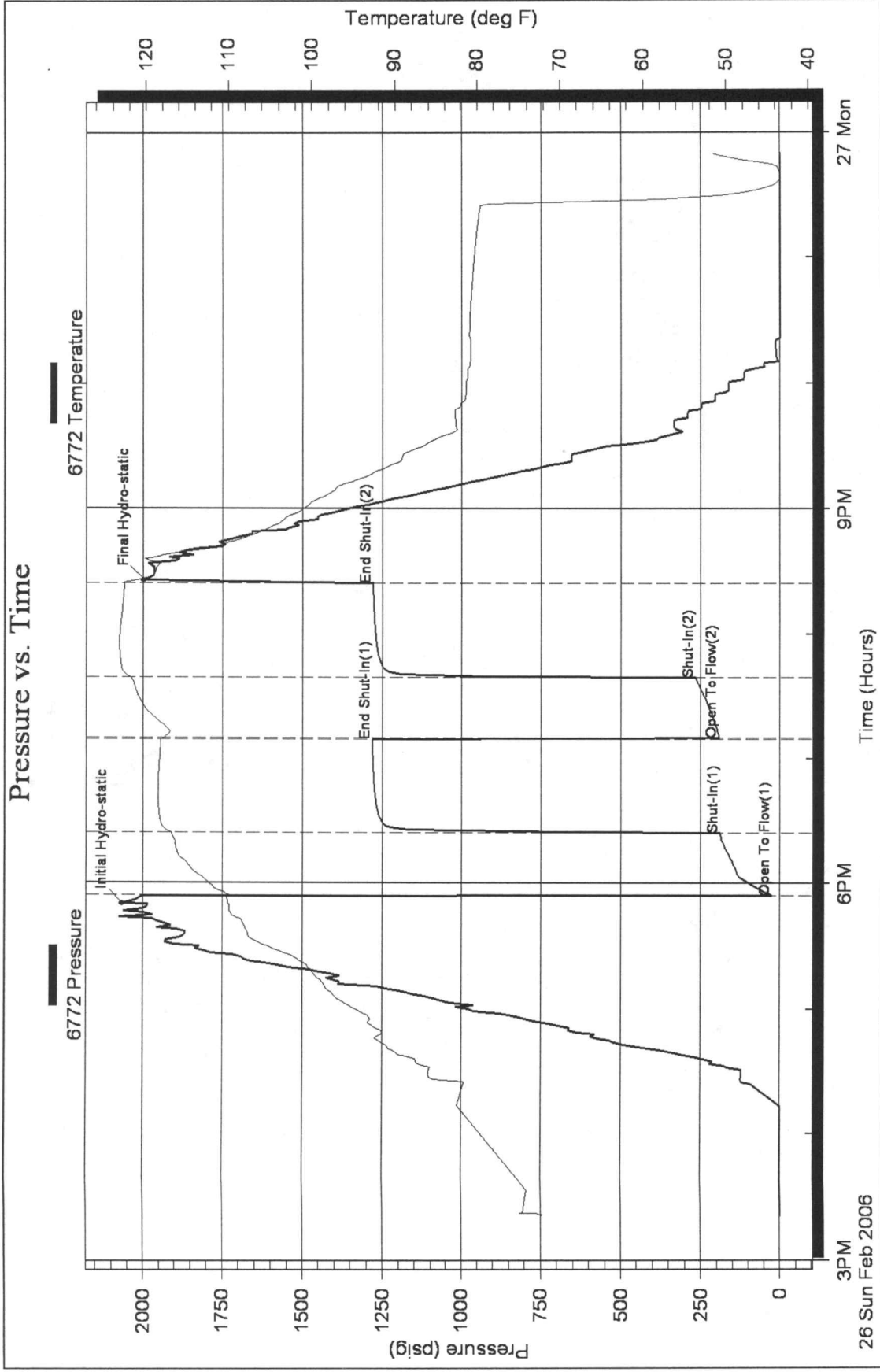
Serial #:

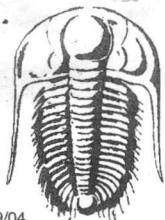
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 23126

8471

Test Ticket

Well Name & No.	Shirley B #1	Test No.	1	Date	2-26-06
Company	Hess oil company	Zone Tested	Cherokee smd		
Address	P.O. Box 1009 McPherson, KS 67460	Elevation	2302	KB	2297 GL
Co. Rep / Geo.	Jamie Hess	Cont.	M4/4rd	Est. Ft. of Pay	Por. %
Location: Sec.	23	Twp.	15	Rge.	23 Co. Trigo State KS
No. of Copies	Norm.	Disbtribution Sheet (Y, N)		Turnkey (Y, N)	Evaluation (Y, N)

Interval Tested	4205	4290	Initial Str Wt./Lbs.	52,000	Unseated Str Wt./Lbs.	54,000
Anchor Length		85	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	70,000
Top Packer Depth		4200	Tool Weight	1500		
Bottom Packer Depth		4205	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth		4290	Wt. Pipe Run		Drill Collar Run	249
Mud Wt.	9.2	LCM 0	Vis.	54	WL	9.2
Drill Pipe Size			4 1/2 X H		Ft. Run	3947
Blow Description	IF: 1/4 blow BoB in 13 min. IS: No return. FF: 1/4 blow BoB in 15 min. FS: Surface blow built to 1/2 in 45 min.					

Recovery - Total Feet	651	GIP	—	Ft. in DC	249	Ft. in DP	402
Rec.	30	Feet of	0.1	%gas	100%	%oil	%water %mud
Rec.	186	Feet of	90	%gas	90	%oil	%water %mud
Rec.	311	Feet of	ML90	%gas	40	%oil	%water 40% mud
Rec.	124	Feet of	MCO	%gas	60	%oil	%water 40% mud
Rec.		Feet of		%gas		%oil	%water %mud
BHT	122	°F Gravity	30	°API D @	50	°F Corrected Gravity	31 °API
RW	—	@	—	°F	Chlorides	— ppm Recovery	Chlorides 2200 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2065	PSI	Recorder No.	6772	Test X	1100.00
(B) First Initial Flow Pressure			26	PSI	(depth)	4206	Jars	
(C) First Final Flow Pressure			189	PSI	Recorder No.	7437	Safety Jt. X	75.00
(D) Initial Shut-In Pressure			1281	PSI	(depth)	4289	Circ Sub X	N/C
(E) Second Initial Flow Pressure			193	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			266	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			1278	PSI	Initial Opening	30	Ext. Packer	
(Q) Final Hydrostatic Mud			1999	PSI	Initial Shut-In	45	Shale Packer	

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Approved By

Our Representative

Final Flow	30		
Final Shut-In	45		
T-On Location	14:50		
T-Started	15:20		
T-Open	17:53		
T-Pulled	20:23		
T-Out	23:50		
Test X	1100.00		
Jars			
Safety Jt. X	75.00		
Circ Sub X	N/C		
Sampler			
Straddle			
Ext. Packer			
Shale Packer			
Ruined Packer	200.00		
Mileage	156 - 195.0		
Sub Total:	1570		
Std. By			
Other			
Total:			

CHART PAGE

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

