

DRILL STEM TEST REPORT

Prepared For: **Hess Oil Co.**

PO Box 109
McPherson, KS. 67460

ATTN: Hess Oil Company

34-16s-23w-Ness

Kim #1

Start Date: 2004.03.03 @ 02:19:41

End Date: 2004.03.03 @ 07:48:41

Job Ticket #: 18607 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.

Kim #1

PO Box 109
McPherson, KS. 67460

34-16s-23w-Ness

Job Ticket: 18607

DST#: 1

ATTN: Hess Oil Company

Test Start: 2004.03.03 @ 02:19:41

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:24:26

Time Test Ended: 07:48:41

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 24

Interval: **4410.00 ft (KB) To 4479.00 ft (KB) (TVD)**

Reference Elevations: 2475.00 ft (KB)

Total Depth: 4479.00 ft (KB) (TVD)

2470.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6627 Inside

Press@RunDepth: 25.20 psig @ 4414.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2004.03.03

End Date:

2004.03.03

Last Calib.: 1899.12.30

Start Time: 02:19:43

End Time:

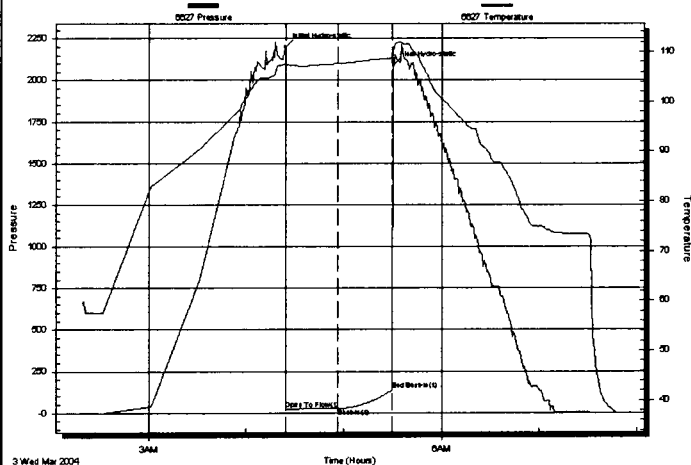
07:48:41

Time On Btm: 2004.03.03 @ 04:24:11

Time Off Btm: 2004.03.03 @ 05:29:56

TEST COMMENT: IFP - Weak Surface Blow, Died in 12 min. Shut in for 30 min. Pull Tool

Pressure vs. Time



PRESSURE SUMMARY

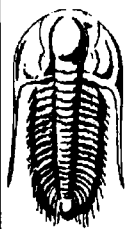
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.67	107.89	Initial Hydro-static
1	21.35	106.88	Open To Flow (1)
32	25.20	107.63	Shut-In(1)
66	138.17	108.79	End Shut-In(1)
66	2086.92	109.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud W/Oil Spots in Tool	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Co.

Kim #1

PO Box 109
McPherson, KS. 67460

34-16s-23w-Ness

Job Ticket: 18607

DST#: 1

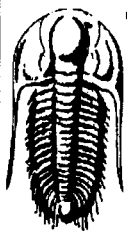
ATTN: Hess Oil Company

Test Start: 2004.03.03 @ 02:19:41

Tool Information

Drill Pipe:	Length: 4274.00 ft	Diameter: 3.80 inches	Volume: 59.95 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 56000.00 lb
		Total Volume:	60.56 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4410.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	97.00 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			4383.00	
Shut In Tool	5.00			4388.00	
Hydraulic tool	5.00			4393.00	
Jars	5.00			4398.00	
Safety Joint	2.00			4400.00	
Packer	5.00			4405.00	28.00 Bottom Of Top Packer
Packer	5.00			4410.00	
Stubb	1.00			4411.00	
Perforations	2.00			4413.00	
Change Over Sub	1.00			4414.00	
Recorder	0.00	6627	Inside	4414.00	
Blank Spacing	31.00			4445.00	
Change Over Sub	1.00			4446.00	
Perforations	30.00			4476.00	
Recorder	0.00	13252	Outside	4476.00	
Bullnose	3.00			4479.00	69.00 Bottom Packers & Anchor
Total Tool Length:		97.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co.

Kim #1

PO Box 109
McPherson, KS. 67460

34-16s-23w-Ness

Job Ticket: 18607

DST#: 1

ATTN: Hess Oil Company

Test Start: 2004.03.03 @ 02:19:41

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: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud W/Oil Spots in Tool	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

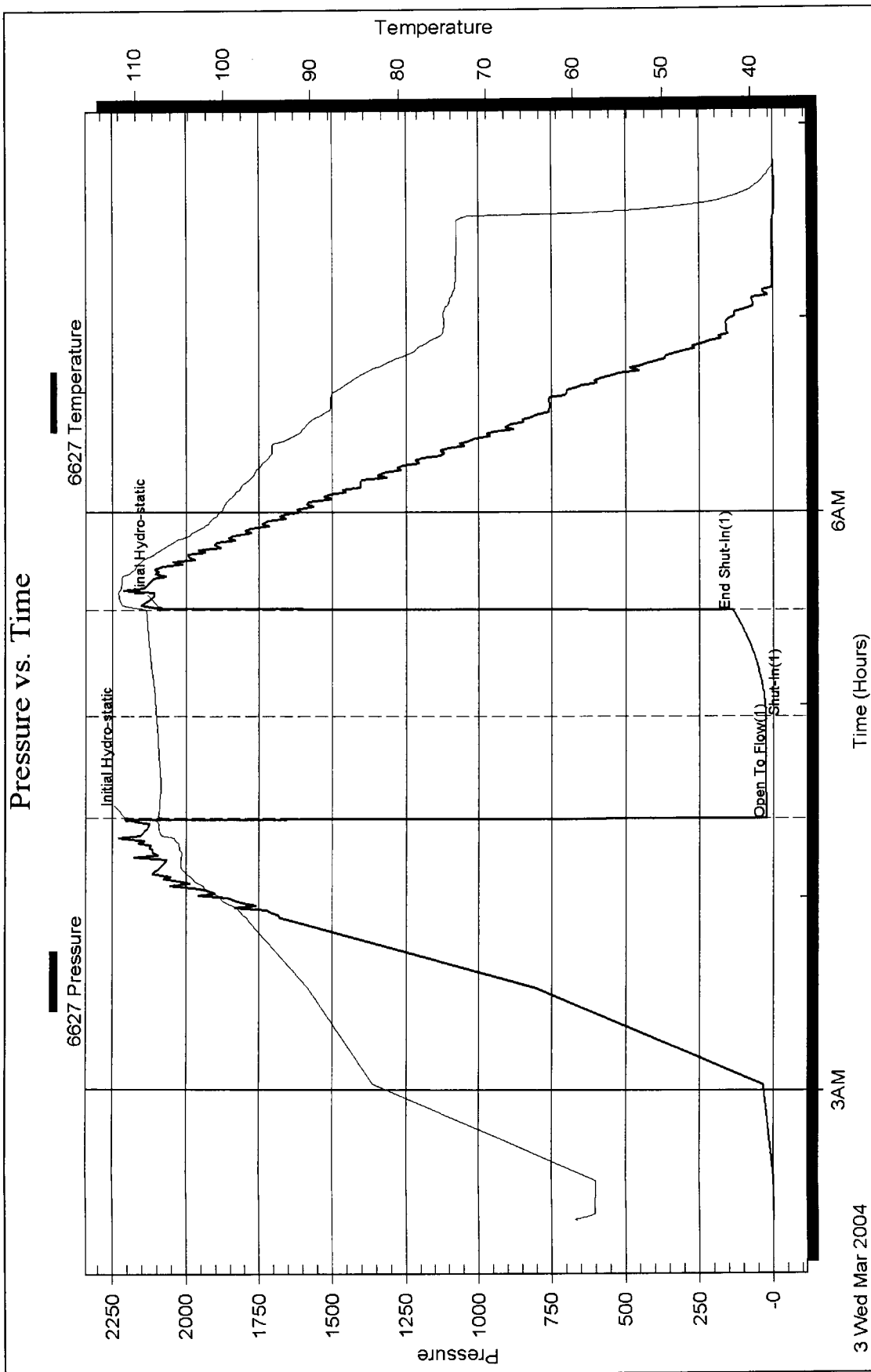
34-16s-23w - Ness

Hess Oil Co.

Inside

Serial #: 6627

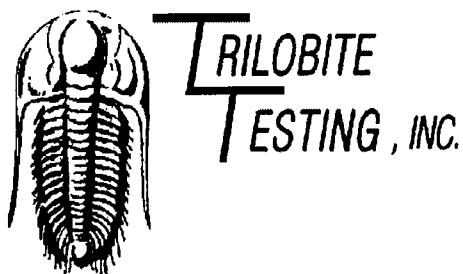
Pressure vs. Time



Ref. No: 18607

Trilobite Testing, Inc

Printed: 2004.03.12 @ 09:47:57 Page 5



DRILL STEM TEST REPORT

Prepared For: **Hess Oil Co.**

PO Box 109
McPherson, KS. 67460

ATTN: Hess Oil Company

34-16s-23w-Ness

Kim #1

Start Date: 2004.03.03 @ 14:18:14

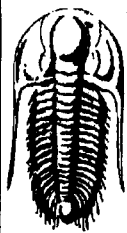
End Date: 2004.03.03 @ 21:37:29

Job Ticket #: 18608 DST #: 2

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.

PO Box 109
McPherson, KS. 67460

ATTN: Hess Oil Company

Kim #1

34-16s-23w-Ness

Job Ticket: 18608

DST#: 2

Test Start: 2004.03.03 @ 14:18:14

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:03:59

Time Test Ended: 21:37:29

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 24

Interval: **4410.00 ft (KB) To 4492.00 ft (KB) (TVD)**

Total Depth: 4492.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2475.00 ft (KB)

2470.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6627 Inside

Press@RunDepth: 101.24 psig @ 4413.00 ft (KB)

Start Date: 2004.03.03

End Date:

2004.03.03

Start Time: 14:18:16

End Time:

21:37:29

Capacity: 7000.00 psig

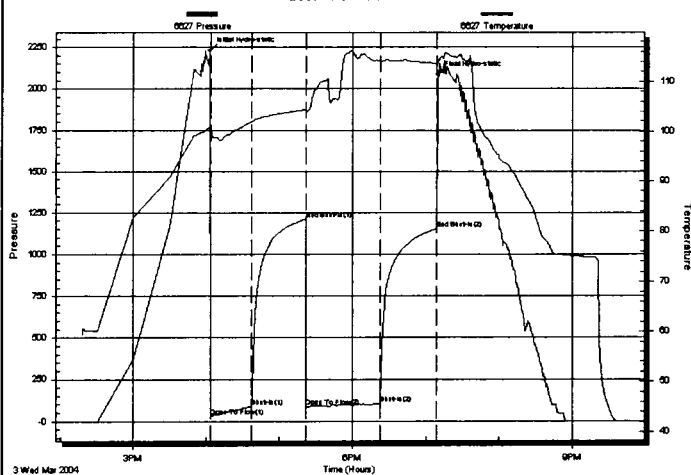
Last Calib.: 1899.12.30

Time On Btm: 2004.03.03 @ 16:03:14

Time Off Btm: 2004.03.03 @ 19:09:29

TEST COMMENT: IFP- Weak Blow , Built to 4", No Blow back
FFP- Weak Blow , Built to 1-1/2", No Blow back

Pressure vs. Time



PRESSURE SUMMARY

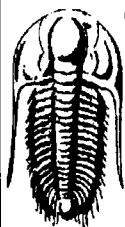
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2228.81	100.98	Initial Hydro-static
1	27.53	100.35	Open To Flow (1)
35	84.52	101.98	Shut-in(1)
79	1211.28	104.41	End Shut-in(1)
79	85.92	104.00	Open To Flow (2)
139	101.24	113.99	Shut-in(2)
186	1153.17	113.66	End Shut-in(2)
187	2084.45	113.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	MudW/Oil Spots	1.47

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Co.

Kim #1

PO Box 109
McPherson, KS. 67460

34-16s-23w-Ness

Job Ticket: 18608

DST#: 2

ATTN: Hess Oil Company

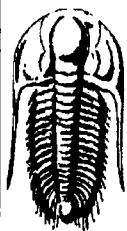
Test Start: 2004.03.03 @ 14:18:14

Tool Information

Drill Pipe:	Length: 4274.00 ft	Diameter: 3.80 inches	Volume: 59.95 bbl	Tool Weight: 2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 72000.00 lb
		Total Volume: 60.56 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4410.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	110.00 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			4383.00	
Shut In Tool	5.00			4388.00	
Hydraulic tool	5.00			4393.00	
Jars	5.00			4398.00	
Safety Joint	2.00			4400.00	
Packer	5.00			4405.00	28.00 Bottom Of Top Packer
Packer	5.00			4410.00	
Stubb	1.00			4411.00	
Perforations	1.00			4412.00	
Change Over Sub	1.00			4413.00	
Recorder	0.00	6627	Inside	4413.00	
Blank Spacing	62.00			4475.00	
Change Over Sub	1.00			4476.00	
Perforations	13.00			4489.00	
Recorder	0.00	13252	Outside	4489.00	
Bullnose	3.00			4492.00	82.00 Bottom Packers & Anchor
Total Tool Length:	110.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co.

Kim #1

PO Box 109
McPherson, KS. 67460

34-16s-23w-Ness

Job Ticket: 18608

DST#: 2

ATTN: Hess Oil Company

Test Start: 2004.03.03 @ 14:18:14

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: 40.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	MudW/Oil Spots	1.465

Total Length: 185.00 ft

Total Volume: 1.465 bbl

Num Fluid Samples: 0

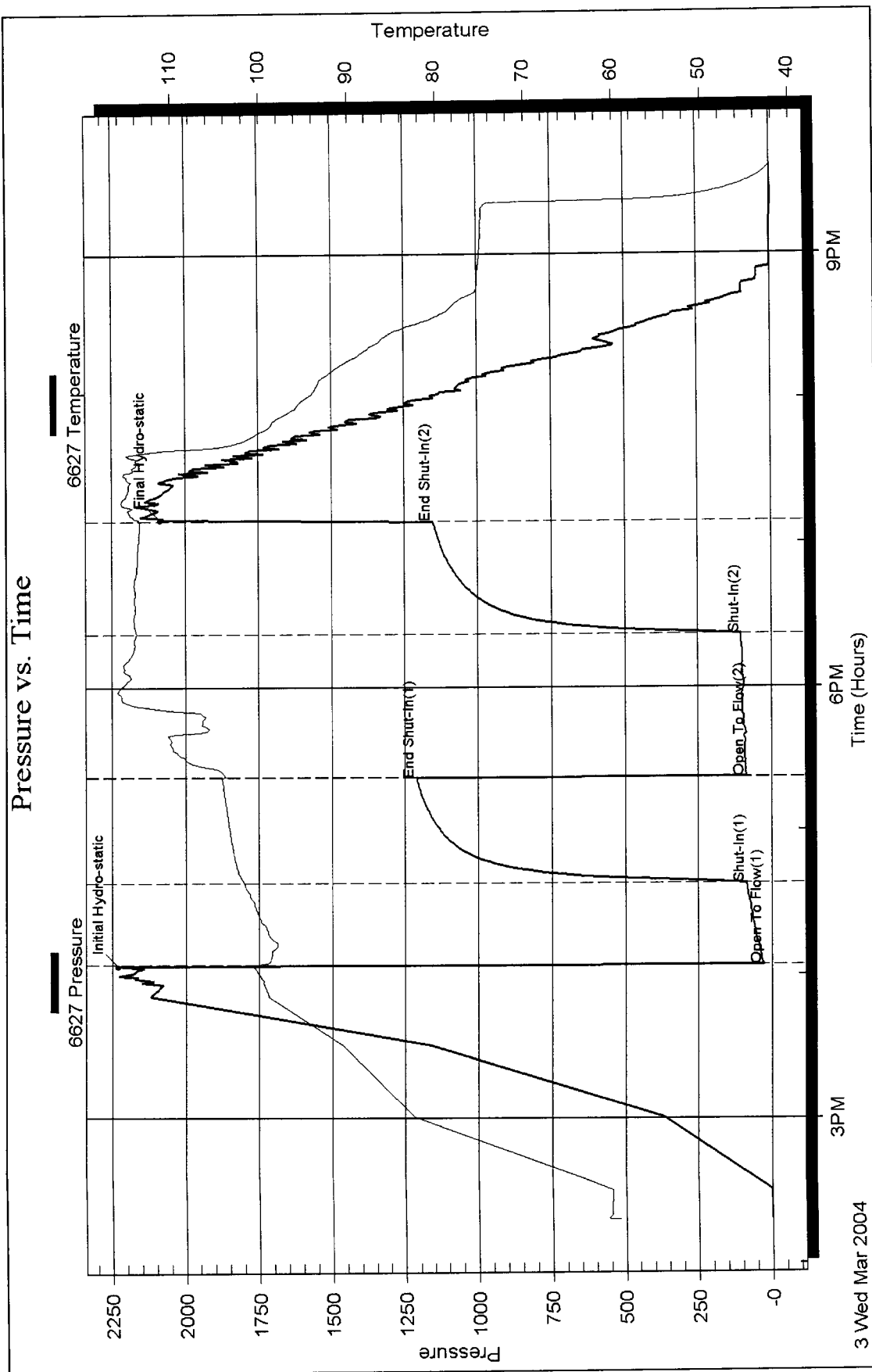
Num Gas Bombs: 0

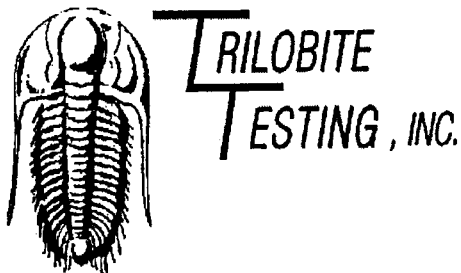
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Hess Oil Co.**
PO Box 109
McPherson, KS. 67460

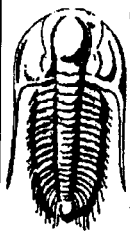
ATTN: Hess Oil Co.

34-16s-23w-Ness

Kim #1

Start Date: 2004.03.04 @ 03:55:40
End Date: 2004.03.04 @ 09:59:10
Job Ticket #: 18609 DST #: 3

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.
PO Box 109
McPherson, KS. 67460

ATTN: Hess Oil Co.

Kim #1

34-16s-23w-Ness

Job Ticket: 18609

DST#: 3

Test Start: 2004.03.04 @ 03:55:40

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:58:10

Time Test Ended: 09:59:10

Interval: **4410.00 ft (KB) To 4500.00 ft (KB) (TVD)**

Total Depth: 4479.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 24

Reference Elevations: 2475.00 ft (KB)

2470.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6627

Inside

Press@RunDepth: 270.83 psig @ 4414.00 ft (KB)

Start Date: 2004.03.04

End Date:

2004.03.04

Start Time: 03:55:42

End Time:

09:59:10

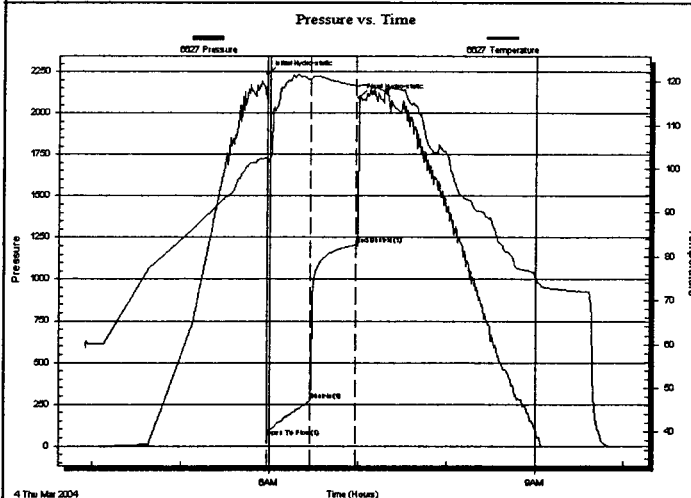
Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2004.03.04 @ 05:57:55

Time Off Btm: 2004.03.04 @ 06:59:55

TEST COMMENT: IFP- Good Blow , BOB in 7 min, No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.51	102.31	Initial Hydro-static
1	49.81	101.63	Open To Flow (1)
30	270.83	120.56	Shut-In (1)
61	1205.63	118.98	End Shut-In (1)
62	2092.18	119.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
546.00	Muddy Water	6.53

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Co.
PO Box 109
McPherson, KS. 67460

ATTN: Hess Oil Co.

Kim #1
34-16s-23w-Ness
Job Ticket: 18609 **DST#: 3**
Test Start: 2004.03.04 @ 03:55:40

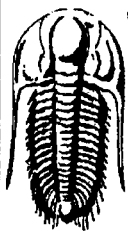
Tool Information

Drill Pipe:	Length: 4274.00 ft	Diameter: 3.80 inches	Volume: 59.95 bbl	Tool Weight:	2800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 60.56 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4410.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.00 ft				
Tool Length:	118.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4383.00	
Shut In Tool	5.00			4388.00	
Hydraulic tool	5.00			4393.00	
Jars	5.00			4398.00	
Safety Joint	2.00			4400.00	
Packer	5.00			4405.00	28.00 Bottom Of Top Packer
Packer	5.00			4410.00	
Stubb	1.00			4411.00	
Perforations	2.00			4413.00	
Change Over Sub	1.00			4414.00	
Recorder	0.00	6627	Inside	4414.00	
Blank Spacing	62.00			4476.00	
Change Over Sub	1.00			4477.00	
Perforations	20.00			4497.00	
Recorder	0.00	13252	Outside	4497.00	
Bullnose	3.00			4500.00	90.00 Bottom Packers & Anchor
Total Tool Length:	118.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Co.

Kim #1

PO Box 109
McPherson, KS. 67460

34-16s-23w-Ness

Job Ticket: 18609

DST#: 3

ATTN: Hess Oil Co.

Test Start: 2004.03.04 @ 03:55:40

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: 40.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
546.00	Muddy Water	6.529

Total Length: 546.00 ft

Total Volume: 6.529 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

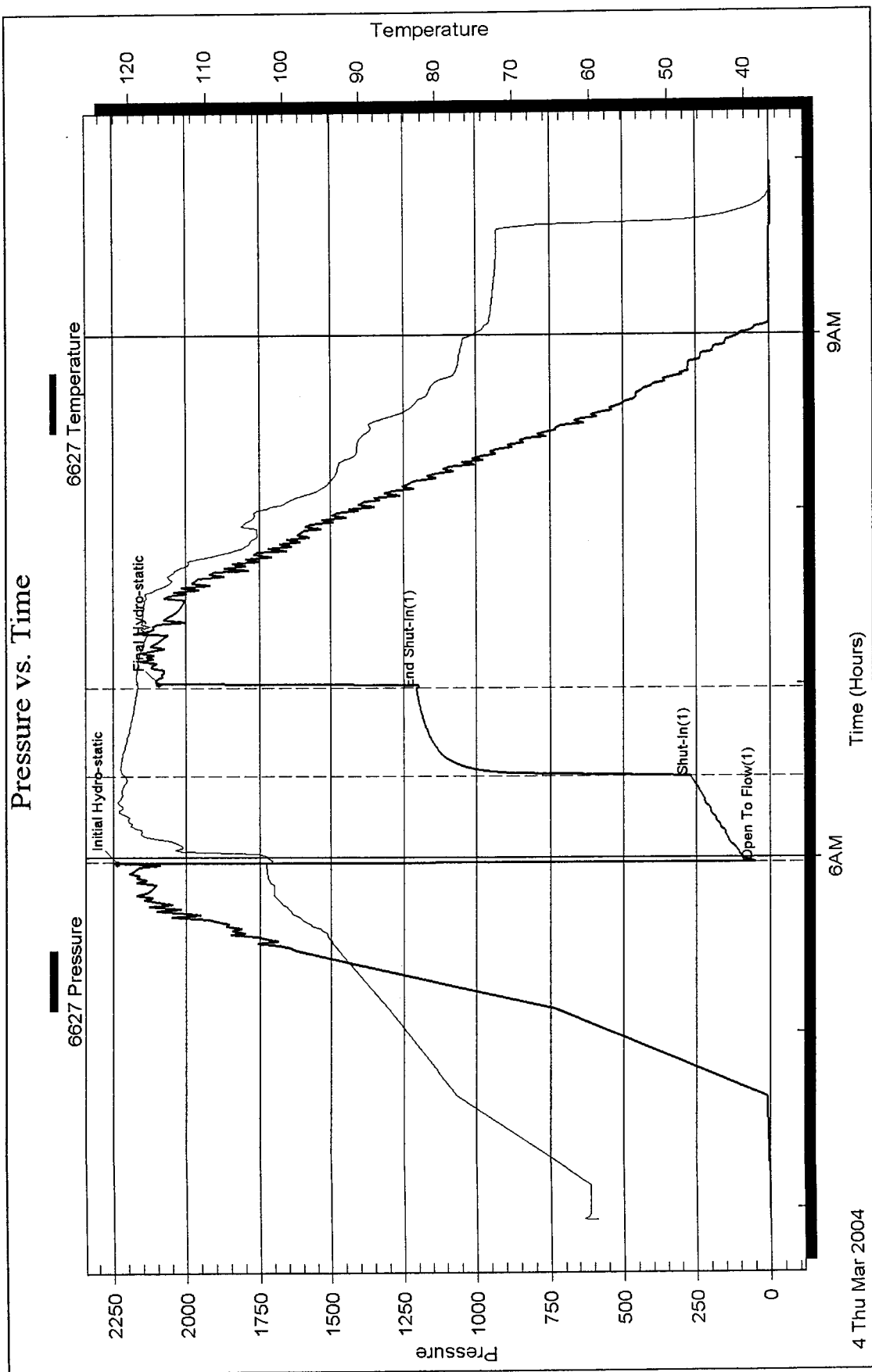
DST Test Number: 3

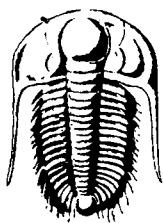
34-16s-23w-Ness

Hess Oil Co.

Inside

Serial #: 6627





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18607

05/03

Test Ticket

Well Name & No. Kim #1 Test No. 1 Date 3-03-04
 Company Hess Oil Co. Zone Tested _____
 Address PO Box 109, McPherson, KS, 67460 Elevation 2475 KB 2470 GL _____
 Co. Rep / Geo. _____ Cont. Murfin #24 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 34 Twp. 16s Rge. 23w Co. Ness State KS
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4410 - 4479 Initial Str Wt./Lbs. 52,000 Unseated Str Wt./Lbs. 52,000
 Anchor Length 69' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 56,000
 Top Packer Depth 4405 Tool Weight 2400
 Bottom Packer Depth 4410 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4479 Wt. Pipe Run 0 Drill Collar Run 124
 Mud Wt. 9.2 LCM 2# Vis. 50 WL 916 Drill Pipe Size 4 1/2 X 14 Ft. Run 4274
 Blow Description IFP - Weak Surface Blow, Died in 12 min, shut in 30, pull tool

Recovery - Total Feet 5 GIP _____ Ft. in DC _____ Ft. in DP _____
 Rec. 5 Feet of Mud, Oil spots in tool %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 _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT _____ °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 5200 ppm System

	AK-1	Alpine	PSI	Recorder No.	Test	
(A) Initial Hydrostatic Mud		2199	PSI	6627	✓	800
(B) First Initial Flow Pressure		21	PSI	4414	✓	150
(C) First Final Flow Pressure		25	PSI	13252	✓	200
(D) Initial Shut-In Pressure		138	PSI	4476	✓	50
(E) Second Initial Flow Pressure			PSI			
(F) Second Final Flow Pressure			PSI			
(G) Final Shut-In Pressure			PSI			
(Q) Final Hydrostatic Mud		2087	PSI			

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 _____

Our Representative _____

Final Flow _____
 Final Shut-In _____
 T-On Location 00:05
 T-Started 2:19
 T-Open 4:25
 T-Pulled 5:25
 T-Out 7:45

Shale Packer _____
 Mileage 48/96 81.60
 Sub Total: 1281.60
 Std. By _____
 Other _____
 Total: _____

Jason Mc Lemmon
Thank you

CHART PAGE

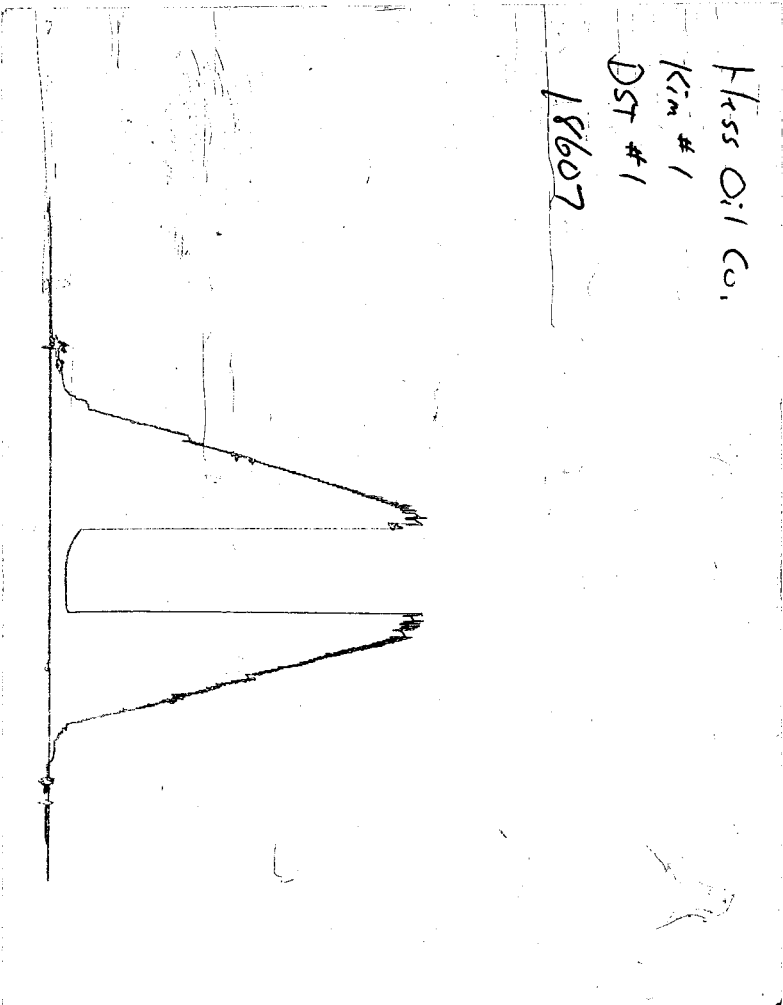
This is a photocopy of the actual AK-1 recorder chart

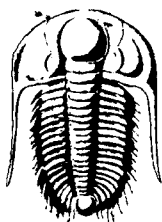
Hess Oil Co.

Kim #1

DST #1

18607





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

N^o 18608

05/03

Test Ticket

Well Name & No. <u>Kim #1</u>	Test No. <u>2</u>	Date <u>3-03-04</u>
Company <u>Hess Oil Co.</u>	Zone Tested <u>Cherokee Sand</u>	
Address <u>PO BOX 109 McPherson, Ks. 67460</u>	Elevation <u>2475</u>	KB <u>2470</u> GL
Co. Rep / Geo. <u>Janie</u>	Cont. <u>Murfin #24</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>34</u>	Twp. <u>16s</u>	Rge. <u>23w</u> Co. <u>Ness</u> State <u>Ks</u>
No. of Copies <u>Reg</u>	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>4410 - 4492</u>	Initial Str Wt./Lbs. <u>54,000</u>	Unseated Str Wt./Lbs. <u>55,000</u>
Anchor Length <u>82'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>72,000</u>
Top Packer Depth <u>4405</u>	Tool Weight <u>2800</u>	
Bottom Packer Depth <u>4410</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>4492</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>124</u>
Mud Wt. <u>9.3</u> LCM <u>2#</u> Vis. <u>40</u> WL <u>10.4</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4274</u>
Blow Description <u>IFP-Weak Blow, Built to 4", No Blowback</u> <u>FFP-Weak Blow, Built to 1 1/2", No Blowback</u>		

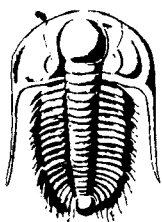
Recovery - Total Feet <u>185</u>	GIP _____	Ft. in DC _____	Ft. in DP _____		
Rec. <u>185</u>	Feet of <u>Mud w/oil spots</u>	%gas _____	%oil _____	%water _____	%mud _____
Rec. _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec. _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec. _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec. _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
BHT _____	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____	°API _____	
RW _____	@ _____	°F _____	Chlorides _____ ppm Recovery _____	Chlorides <u>5300</u> ppm System	

(A) Initial Hydrostatic Mud	<u>2229</u> PSI	Recorder No. <u>6627</u>	Test <u>✓</u>
(B) First Initial Flow Pressure	<u>28</u> PSI	(depth) <u>4414</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure	<u>85</u> PSI	Recorder No. <u>13252</u>	Jars <u>✓</u>
(D) Initial Shut-In Pressure	<u>1211</u> PSI	(depth) <u>4489</u>	Safety Jt. <u>✓</u>
(E) Second Initial Flow Pressure	<u>86</u> PSI	Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>101</u> PSI	(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>1153</u> PSI	Initial Opening <u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2084</u> PSI	Initial Shut-In <u>45</u>	Ext. Packer _____
		Final Flow <u>60</u>	Shale Packer _____
		Final Shut-In <u>45</u>	Mileage <u>48</u>
T-On Location <u>13:20</u>		Sub Total <u>1281.60</u>	
T-Started <u>14:18</u>		Std. By <u>12</u> <u>15</u>	
T-Open <u>16:04</u>		Other _____	
T-Pulled <u>19:04</u>		Total: _____	
T-Out <u>21:25</u>			

Approved By _____

Our Representative Jason McLenahan *Thank you*

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18609

05/03

Test Ticket

Well Name & No. <u>Kim #1</u>	Test No. <u>3</u>	Date <u>3-4-4</u>
Company <u>Hess Oil Co.</u>	Zone Tested <u>Cherokee Sand</u>	
Address <u>PO Box 109, McPherson, KS 67460</u>	Elevation <u>2475</u>	KB <u>2470</u> GL
Co. Rep / Geo. <u>Jamie</u>	Cont. <u>Murfin #24</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>34</u>	Twp. <u>16s</u>	Rge. <u>23w</u> Co. <u>Ness</u> State <u>KS</u>
No. of Copies <u>Reg</u>	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>4410 - 4500</u>	Initial Str Wt./Lbs. <u>50,000</u>	Unseated Str Wt./Lbs. <u>53,000</u>
Anchor Length <u>90'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>80,000</u>
Top Packer Depth <u>4405</u>	Tool Weight <u>2800</u>	
Bottom Packer Depth <u>4410</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>4500</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>124</u>
Mud Wt. <u>9.3</u> LCM <u>2*</u> Vis. <u>40</u> WL <u>10.4</u>	Drill Pipe Size <u>4 1/2 X 14</u>	Ft. Run <u>4274</u>
Blow Description <u>Good Blow, BOB in 7 min, No Blow back</u>		

Recovery - Total Feet <u>546</u>	GIP _____	Ft. in DC _____	Ft. in DP _____
Rec. <u>546</u>	Feet of <u>Muddy Water</u>	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
Rec. _____	Feet of _____	%gas _____	%oil _____
BHT _____	°F Gravity _____	°API D @ _____	°F Corrected Gravity _____
RW _____	@ _____ °F	Chlorides _____ ppm Recovery _____	Chlorides <u>5300</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>2234</u> PSI	Alpine	Recorder No. <u>6627</u>	Test <u>✓</u>
(B) First Initial Flow Pressure	<u>50</u> PSI		(depth) <u>4414</u>	Elec. Rec. <u>✓</u>
(C) First Final Flow Pressure	<u>271</u> PSI		Recorder No. <u>13252</u>	Jars <u>✓</u>
(D) Initial Shut-In Pressure	<u>1206</u> PSI		(depth) <u>4497</u>	Safety Jt. <u>✓</u>
(E) Second Initial Flow Pressure	<u>✓</u> PSI		Recorder No. _____	Circ Sub _____
(F) Second Final Flow Pressure	<u>✓</u> PSI		(depth) _____	Sampler _____
(G) Final Shut-In Pressure	<u>✓</u> PSI	Initial Opening <u>30</u>		Straddle _____
(Q) Final Hydrostatic Mud	<u>2092</u> PSI	Initial Shut-In <u>30</u>		Ext. Packer _____

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Approved By _____

Our Representative _____

Final Flow pull tool
Final Shut-In 3:20
T-On Location 3:55
T-Started 6:07
T-Open 7:07
T-Pulled 10:00
T-Out

Shale Packer _____
Mileage 48
Sub Total: 1281.60
Std. By _____
Other _____
Total: _____

CHART PAGE

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

