

**TRILOBITE
TESTING, INC.**

**Release
FEB 25 2003
From
Confidential**

DRILL STEM TEST REPORT

Prepared For: **Harris Oil & Gas**

125 Seventeenth st STE 2290 Denver, CO
80202

ATTN: Marvin Harvey

6 34s 30w Meade,KS

Fox 1-6

Start Date: 2002.03.05 @ 01:53:00

End Date: 2002.03.05 @ 20:49:30

Job Ticket #: 14180 DST #: 1

ACO-1 COPY

Harris Oil & Gas

Fox 1-6

6 34s 30w Meade,KS

DST # 1

Morrow Sand

2002.03.05

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Trilobite Testing, Inc

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Harris Oil & Gas

Fox 1-6

125 Seventeenth st STE 2290 Denver, CO 80202

6 34s 30w Meade,KS

ATTN: Marvin Harvey

Job Ticket: 14180

DST#: 1

Test Start: 2002.03.05 @ 01:53:00

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:23:30

Time Test Ended: 20:49:30

Test Type: Conventional Bottom Hole

Tester: Jakki Kreklau

Unit No: 17

Interval: **5676.00 ft (KB) To 5749.00 ft (KB) (TVD)**

Total Depth: 5749.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2709.00 ft (KB)

2697.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: **2341**

Inside

Press@RunDepth: 130.73 psig @ 5677.00 ft (KB)

Start Date: 2002.03.05

End Date: 2002.03.05

Start Time: 01:53:01

End Time: 20:49:29

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2002.03.05 @ 05:23:00

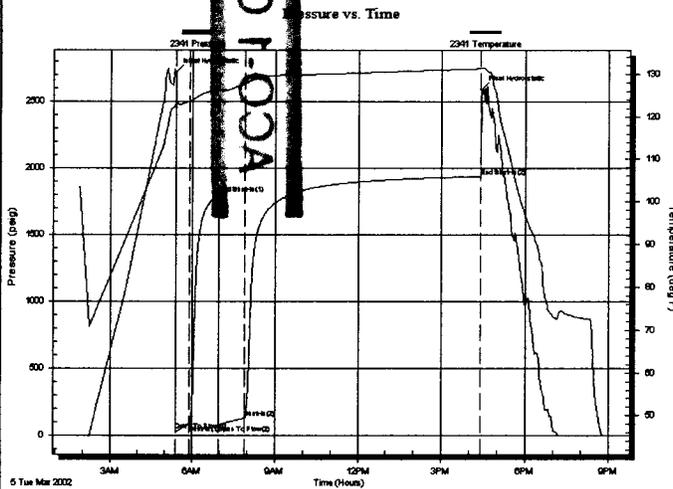
Time Off Btm: 2002.03.05 @ 16:24:45

TEST COMMENT: IF- fail flow built to 3 1/2 inches in bucket "got packer seat"

IS- no flow back

FF- fail flow built to 3 inches in bucket

FB- no flow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2721.79	123.11	Initial Hydro-static
1	36.52	123.19	Open To Flow (1)
32	78.10	123.67	Shut-In(1)
95	1809.69	126.39	End Shut-In(1)
96	78.18	126.38	Open To Flow (2)
152	130.73	127.74	Shut-In(2)
662	1935.24	131.23	End Shut-In(2)
662	2594.08	131.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
171.00	SLOCM w/ spots on top 100% mud	0.84
114.00	water 90% water 10% mud	0.56

Gas Rates

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

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Harris Oil & Gas

Fox 1-6

125 Seventeenth st STE 2290 Denver, CO 80202

6 34s 30w Meade, KS

Job Ticket: 14180

DST#: 1

ATTN: Marvin Harvey

Test Start: 2002.03.05 @ 01:53:00

Tool Information

Drill Pipe:	Length: 5177.00 ft	Diameter: 3.80 inches	Volume: 72.62 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 483.00 ft	Diameter: 2.25 inches	Volume: 2.38 bbl	Weight to Pull Loose: 200000.0 lb
			<u>Total Volume: 75.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 110000.0 lb
Depth to Top Packer:	5676.00 ft			Final 120000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Sampler Data 1500 water 200 psi 0.5 cubic ft of gas
0.08 54 140000 chlorides

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5647.00	
S.I. Tool	5.00			5652.00	
Sampler	3.00			5655.00	
HMV	5.00			5660.00	
Jars	5.00			5665.00	
Safety Joint	2.00			5667.00	
Packer	5.00			5672.00	30.00 Bottom Of Top Packer
Packer	4.00			5676.00	
Stubb	1.00			5677.00	
Recorder	0.00	2341	Inside	5677.00	
Perforations	34.00			5711.00	
C.O. Sub	1.00			5712.00	
Blank Spacing	31.00			5743.00	
C.O. Sub	1.00			5744.00	
Recorder	0.00	13423	Inside	5744.00	
Perforations	2.00			5746.00	
Bullnose	3.00			5749.00	73.00 Bottom Packers & Anchor
Total Tool Length:	103.00				

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FLUID SUMMARY

Harris Oil & Gas

Fox 1-6

125 Seventeenth st STE 2290 Denver, CO 80202

6 34s 30w Meade,KS

Job Ticket: 14180

DST#: 1

ATTN: Marvin Harvey

Test Start: 2002.03.05 @ 01:53:00

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:	100000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
171.00	SLOCM w/ spots on top 100% mud	0.841
114.00	water 90% water 10% mud	0.561

Total Length: 285.00 ft Total Volume: 1.402 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

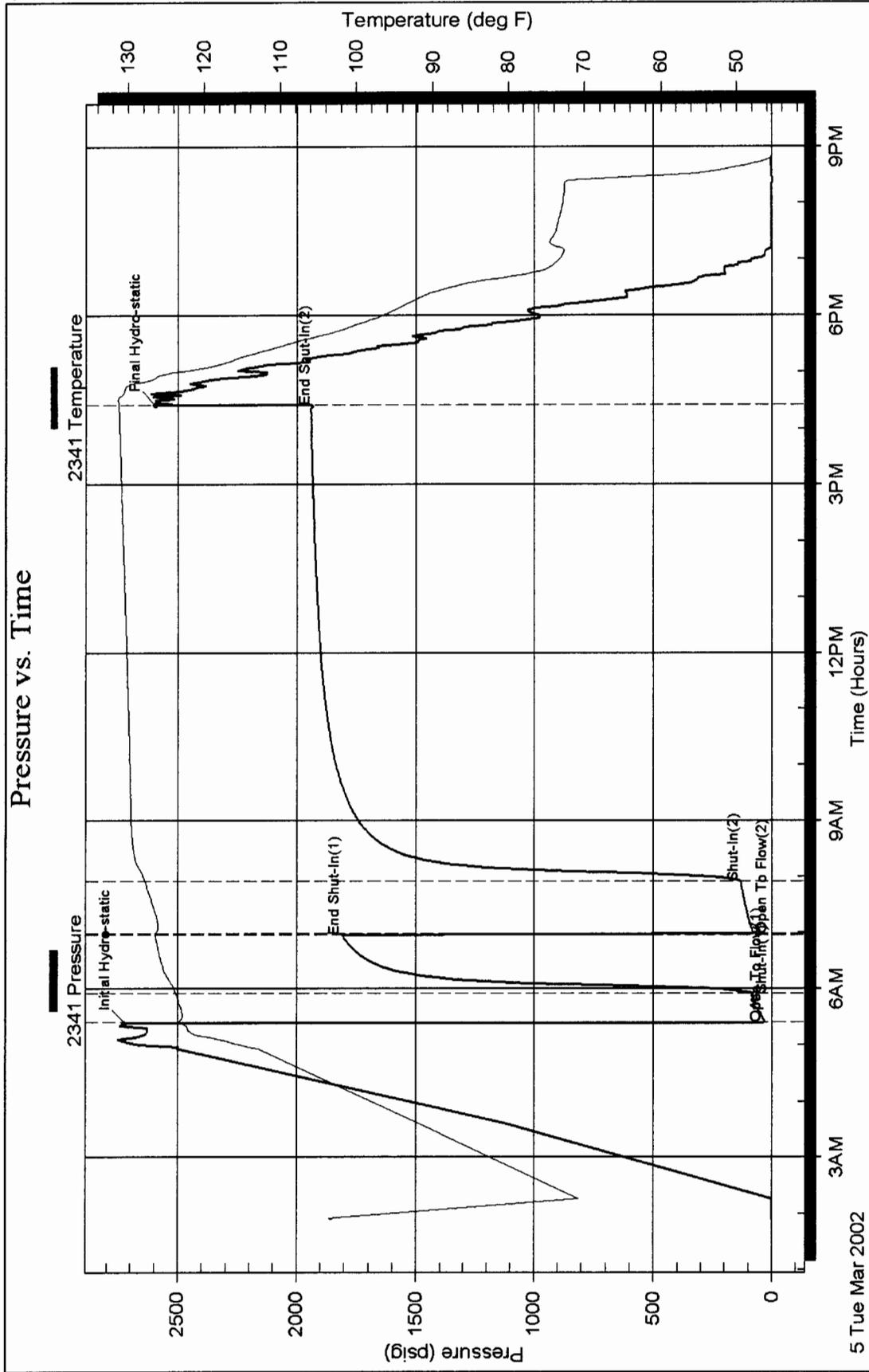
Recovery Comments: RW 0.10@54F

Serial #: 2341

Inside Harris Oil & Gas

6 34s 30w Meade,KS

DST Test Number: 1



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 14180

Test Ticket

Well Name & No. Fox 1-6 Test No. 1 Date 03-04-02
 Company HARRIS Oil & Gas Com Zone Tested Morrow SAND
 Address 1125 Seventeenth ST STE 2290 Denver Co 80202 Elevation 3780 KB 3780 GL
 Co. Rep / Geo. MARVIN HARVEY Cont. Allen Rig 4 Est. Ft. of Pay Por. %
 Location: Sec. 6 Twp. 34S Rge. 30W Co. Monte State Ks
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 5676-5749 Initial Str Wt./Lbs. 110000 Unseated Str Wt./Lbs. 120000
 Anchor Length 73 Wt. Set Lbs. 30000 Wt. Pulled Loose/Lbs. 200000
 Top Packer Depth 5676 Tool Weight 1800
 Bottom Packer Depth 5676 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5749 Wt. Pipe Run Drill Collar Run 483
 Mud Wt. 9.0 LCM 4 Vis. 60 WL 7.0 Drill Pipe Size 4 1/2 X H Ft. Run 5177
 Blow Description IF - Fair blow built to 3 1/2 inches in Bucket
ISI - no blow back
FF - Fair blow built to 3 inches in bucket
FST - no blow back

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
Rec. <u>171</u>	Feet Of <u>SLOCM oil spots on top</u>	<u>285</u>				<u>100</u>	<u>100</u>
Rec. <u>114</u>	Feet Of <u>Water</u>					<u>90</u>	<u>10</u>
Rec. <u> </u>	Feet Of <u> </u>						
Rec. <u> </u>	Feet Of <u> </u>						
Rec. <u> </u>	Feet Of <u> </u>						

BHT 131 °F Gravity °API D₆₀ °F Corrected Gravity °API
 RW 0.10 @ 54 °F Chlorides 100,000 ppm Recovery Chlorides 1400 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2795</u>			<u>2341</u>	<u>1800</u>
(B) First Initial Flow Pressure	<u>36</u>			(depth) <u>5678</u>	T-Started <u>0153</u>
(C) First Final Flow Pressure	<u>78</u>			Recorder No. <u>13423</u>	T-Open <u>0523</u>
(D) Initial Shut-In Pressure	<u>1809</u>			(depth) <u>5749</u>	T-Pulled <u>1625</u>
(E) Second Initial Flow Pressure	<u>78</u>			Recorder No. <u> </u>	T-Out <u>2049</u>
(F) Second Final Flow Pressure	<u>130</u>			(depth) <u> </u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure	<u>1935</u>			PSI Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>900</u>
(Q) Final Hydrostatic Mud	<u>2650</u>			PSI Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
				Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
				Final Shut-in <u>120</u>	Straddle <u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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 Marvin Harvey

Our Representative Jakki Kreklan

2795 = 179
1809 = 670

Circ. Sub
 Sampler 200
 Extra Packer Shale 150
 Elec. Rec. 150
 Mileage 60
 Other WTHRS ST by time 400
 TOTAL PRICE \$ 2500
2110

26.49

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 14180 Date 03-04-02
Company Name HARRIS OIL & GAS
Lease Fox 1-6 Test No. 1
County Meade Sec. 6 Twp. 34S Rng. 30W

SAMPLER RECOVERY

Gas 5 cubic ft GAS ML
Oil _____ ML
Mud _____ ML
Water 1500 ML
Other _____ ML
Pressure 200 PSI
Total 1500 ML

PIT MUD ANALYSIS

Chlorides 1400 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 60
Mud Weight 9.0
Filtrate 7.0
Other LCM 4

SAMPLER ANALYSIS

Resistivity 0.08 ohms @ 54 F
Chlorides 140,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

CHART PAGE

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

