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**TRILOBITE
TESTING, INC.**

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KCC WICHITA
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DRILL STEM TEST REPORT

Prepared For: **Imperial American Oil Co**
303 Corroll Blvd #214
Denton, TX 76201

ATTN: Hal Porter

28-11s-16w-Ellis-Ks

Huck #28-1

Start Date: 2002.04.11 @ 20:17:52
End Date: 2002.04.12 @ 01:24:51
Job Ticket #: 15782 DST #: 1

Release
JUL 13 2004
From
Confid.

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

Imperial American Oil Co
Huck #28-1
28-11s-16w-Ellis-Ks
DST # 1
LKC
2002.04.11



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TESTING, INC.**

DRILL STEM TEST REPORT

Imperial American Oil Co
303 Corroll Blvd #214
Denton, TX. 76201
ATTN: Hal Porter

Huck #28-1
28-11s-16w-Ellis-Ks
Job Ticket: 15782 DST#: 1
Test Start: 2002.04.11 @ 20:17:52

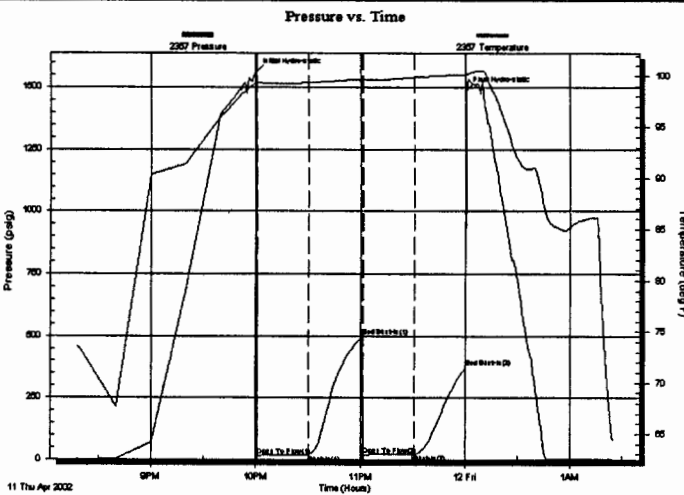
GENERAL INFORMATION:

Formation: "I" LKC
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:00:51
Time Test Ended: 01:24:51
Interval: 3140.00 ft (KB) To 3160.00 ft (KB) (TVD)
Total Depth: 3160.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21
Reference Elevations: 1776.00 ft (KB)
1771.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 2357 Inside
Press@RunDepth: 21.79 psig @ 3141.01 ft (KB)
Start Date: 2002.04.11 End Date: 2002.04.12
Start Time: 20:17:52 End Time: 01:24:51
Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btmr: 2002.04.11 @ 22:00:21
Time Off Btmr: 2002.04.12 @ 00:00:51

TEST COMMENT: IF-Weak died in 20 min
FF-No blow
Times-30-30-30-30

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PRESSURE SUMMARY WICHITA

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1563.83	99.34	Initial Hydro-static
1	14.48	99.35	Open To Flow (1)
30	19.24	99.33	Shut-in(1)
61	498.66	99.65	End Shut-in(1)
61	19.69	99.66	Open To Flow (2)
91	21.79	99.86	Shut-in(2)
120	375.96	100.14	End Shut-in(2)
121	1490.95	100.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oil Co
303 Corroll Blvd #214
Denton, TX. 76201
ATTN: Hal Porter

Huck #28-1
28-11s-16w-Ellis-Ks
Job Ticket: 15782 **DST#: 1**
Test Start: 2002.04.11 @ 20:17:52

Tool Information

Drill Pipe:	Length: 2992.00 ft	Diameter: 3.80 inches	Volume: 41.97 bbl	Tool Weight: 1200.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 145.00 ft	Diameter: 2.25 inches	Volume: 0.71 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 42.68 bbl</u>	Tool Chased 0.01 ft
Drill Pipe Above KB:	18.01 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3140.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.02 ft			
Tool Length:	41.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3120.00	
S.I. Tool	5.00			3125.00	
HMV	5.00			3130.00	
Packer	5.00			3135.00	21.00 Bottom Of Top Packer
Packer	5.00			3140.00	
Stubb	1.00			3141.00	
Recorder	0.01	2357	Inside	3141.01	
Perforations	16.00			3157.01	
Recorder	0.01	13254	Outside	3157.02	
Bullnose	3.00			3160.02	20.02 Bottom Packers & Anchor
Total Tool Length:	41.02				



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FLUID SUMMARY

Imperial American Oil Co

Huck #28-1

303 Corroll Blvd #214
Denton, TX. 76201

28-11s-16w-Ellis-Ks

Job Ticket: 15782

DST#: 1

ATTN: Hal Porter

Test Start: 2002.04.11 @ 20:17:52

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: 43.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

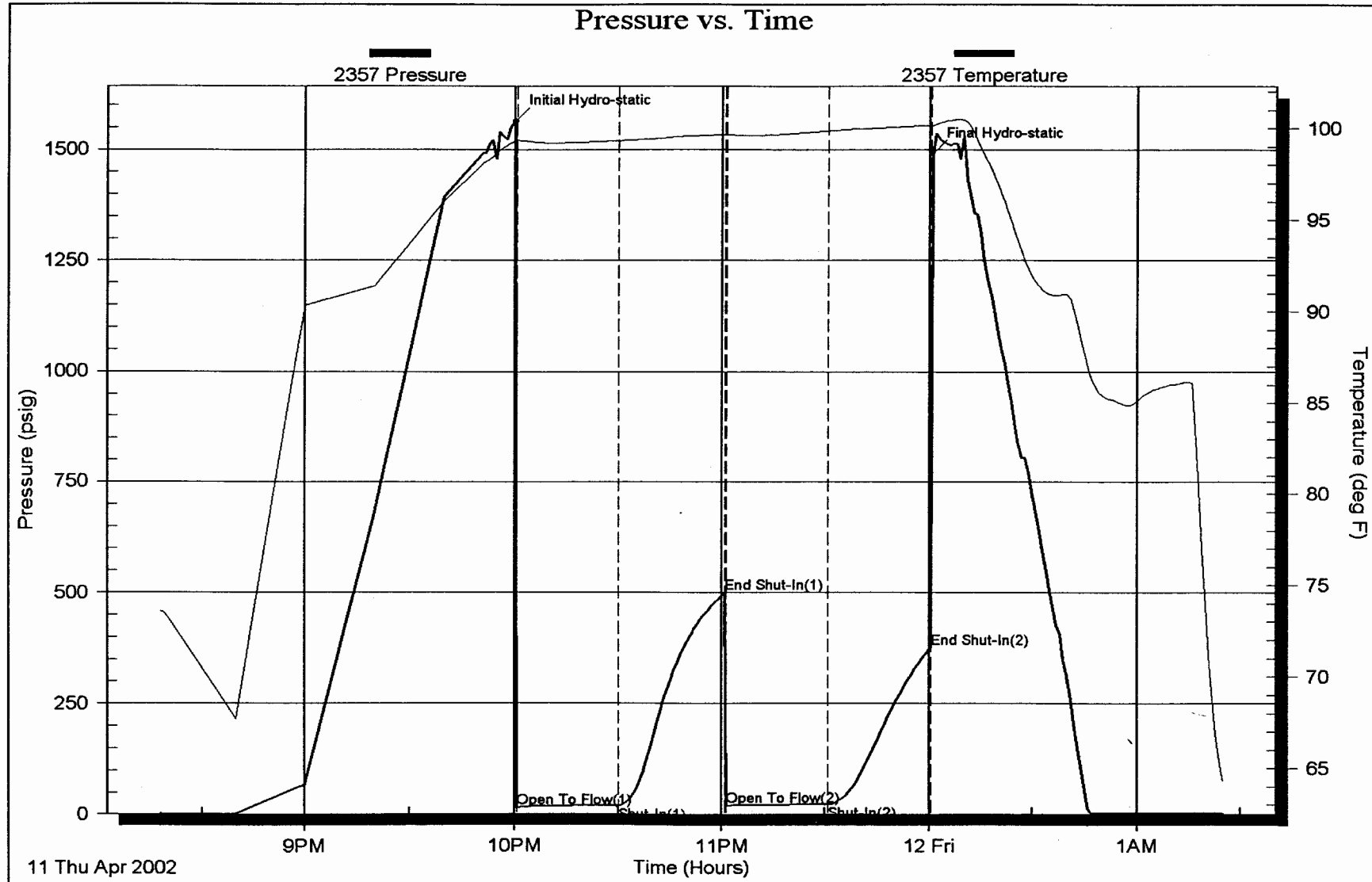
Serial #:

Laboratory Name:

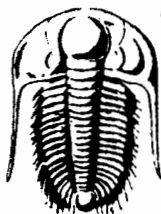
Laboratory Location:

Recovery Comments:

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15782

Test Ticket

Well Name & No. Huck #28-1 Test No. 1 Date 4-11-02
 Company I A O C Zone Tested "I" LKC
 Address 303 N. Cornell Blvd #214, Deaton, Tx 76201 Elevation 1776 KB 771 GL
 Co. Rep / Geo. Randy Killian Cont. Murfin #16 Est. Ft. of Pay Por. %
 Location: Sec. 28 Twp. 11 Rge. 16 Co. Ellis State Ks
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 3140 — 3160 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 50,000
 Anchor Length 20' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 55,000
 Top Packer Depth 3135 Tool Weight 1200
 Bottom Packer Depth 3140 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 3160 Wt. Pipe Run Drill Collar Run 145
 Mud Wt. 9.3 LCM Yd# Vis. 43 WL 7.2 Drill Pipe Size 4.5XH Ft. Run 2992
 Blow Description I.F. Weak died in 20 min.

F.F. No blow

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
<u>10</u>	<u> </u>	<u>10</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Rec. <u>10</u>	Feet Of <u>mud</u>						
Rec. <u> </u>	Feet Of <u> </u>						
Rec. <u> </u>	Feet Of <u> </u>						
Rec. <u> </u>	Feet Of <u> </u>						
Rec. <u> </u>	Feet Of <u> </u>						

BHT 100 °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 6,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1563</u>	<u> </u>	<u> </u>	<u>2357</u>	<u>19:20</u>
(B) First Initial Flow Pressure	<u>14</u>	<u> </u>	<u> </u>	(depth) <u>3141</u>	T-Started <u>20:17</u>
(C) First Final Flow Pressure	<u>19</u>	<u> </u>	<u> </u>	Recorder No. <u>13254</u>	T-Open <u>22:00</u>
(D) Initial Shut-In Pressure	<u>498</u>	<u> </u>	<u> </u>	(depth) <u>3157</u>	T-Pulled <u>24:00</u>
(E) Second Initial Flow Pressure	<u>19</u>	<u> </u>	<u> </u>	Recorder No. <u> </u>	T-Out <u>01:24</u>
(F) Second Final Flow Pressure	<u>21</u>	<u> </u>	<u> </u>	(depth) <u> </u>	T-Off Location <u>01:45</u>
(G) Final Shut-in Pressure	<u>325</u>	<u> </u>	<u> </u>	Initial Opening <u>30</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud	<u>1517</u>	<u> </u>	<u> </u>	Initial Shut-in <u>30</u>	Jars <u> </u>
				Final Flow <u>30</u>	Safety Joint <u> </u>
				Final Shut-in <u>30</u>	Straddle <u> </u>

TRILOBITE TESTING INC. 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

Our Representative Dan Rangle

Extra Packer
 Elec. Rec. X 150
 Mileage 26
 Other
 TOTAL PRICE \$ 876

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CHART PAGE

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

