

DRILL STEM TEST REPORT

Prepared For: **Imperial American Oil Corp.**

303 N. Carroll Blvd # 214
Denton, Tx. 76201

ATTN: Hal Porter

31-12s-16w

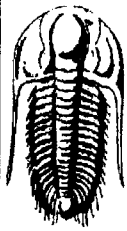
Verna Unit # 31-1

Start Date: 2004.01.06 @ 23:47:38

End Date: 2004.01.07 @ 06:43:17

Job Ticket #: 18500 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Imperial American Oil Corp.

303 N. Carroll Blvd # 214
Denton, Tx. 76201

ATTN: Hal Porter

Verna Unit # 31-1

31-12s-16w

Job Ticket: 18500

DST#: 1

Test Start: 2004.01.06 @ 23:47:38

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:44:48

Time Test Ended: 06:43:17

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3487.00 ft (KB) To 3535.00 ft (KB) (TVD)**

Total Depth: 3535.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2043.00 ft (KB)

2038.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6741 Inside

Press@RunDepth: 136.33 psig @ 3490.00 ft (KB)

Start Date: 2004.01.06

End Date:

2004.01.07

Start Time: 23:47:40

End Time:

06:43:18

Capacity: 7000.00 psig

Last Calib.: 2004.01.07

Time On Btm: 2004.01.07 @ 01:43:48

Time Off Btm: 2004.01.07 @ 04:46:18

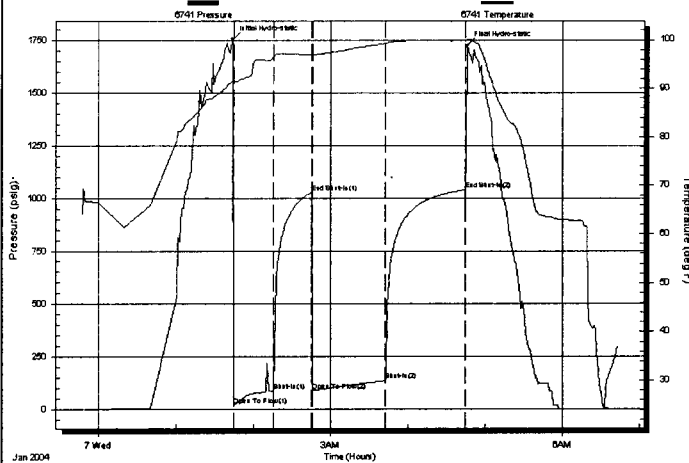
TEST COMMENT: IF-Fair blow built to 6" in.

ISI-Dead

FF-Fair blow built to 3" in.

FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

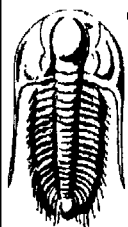
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.51	91.41	Initial Hydro-static
1	16.19	91.28	Open To Flow (1)
32	86.42	96.59	Shut-In(1)
61	1024.91	96.98	End Shut-In(1)
62	88.48	96.85	Open To Flow (2)
119	136.33	99.25	Shut-In(2)
181	1039.24	99.86	End Shut-In(2)
183	1726.62	100.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	Muddy Salt Water-25%M-75%W	1.11
115.00	Drilling Mud	1.61

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oil Corp.

Verna Unit # 31-1

303 N. Carroll Blvd # 214
Denton, Tx. 76201

31-12s-16w

Job Ticket: 18500

DST#: 1

ATTN: Hal Porter

Test Start: 2004.01.06 @ 23:47:38

Tool Information

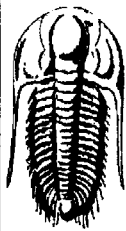
Drill Pipe:	Length: 3351.00 ft	Diameter: 3.80 inches	Volume: 47.01 bbl	Tool Weight: 2700.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume:	47.62 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3487.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 ft			
Tool Length:	68.00 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			3468.00	
Shut In Tool	5.00			3473.00	
Hydraulic tool	5.00			3478.00	
Packer	4.00			3482.00	20.00 Bottom Of Top Packer
Packer	5.00			3487.00	
Stubb	1.00			3488.00	
Perforations	1.00			3489.00	
Change Over Sub	1.00			3490.00	
Recorder	0.00	6741	Inside	3490.00	
Blank Spacing	31.00			3521.00	
Change Over Sub	1.00			3522.00	
Recorder	0.00	11084	Outside	3522.00	
Perforations	10.00			3532.00	
Bullnose	3.00			3535.00	48.00 Bottom Packers & Anchor

Total Tool Length: 68.00



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FLUID SUMMARY

Imperial American Oil Corp.

Verna Unit # 31-1

303 N. Carroll Blvd # 214
Denton, Tx. 76201

31-12s-16w

Job Ticket: 18500

DST#: 1

ATTN: Hal Porter

Test Start: 2004.01.06 @ 23:47:38

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:

32000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	Muddy Salt Water-25%M-75%W	1.115
115.00	Drilling Mud	1.613

Total Length: 275.00 ft

Total Volume: 2.728 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

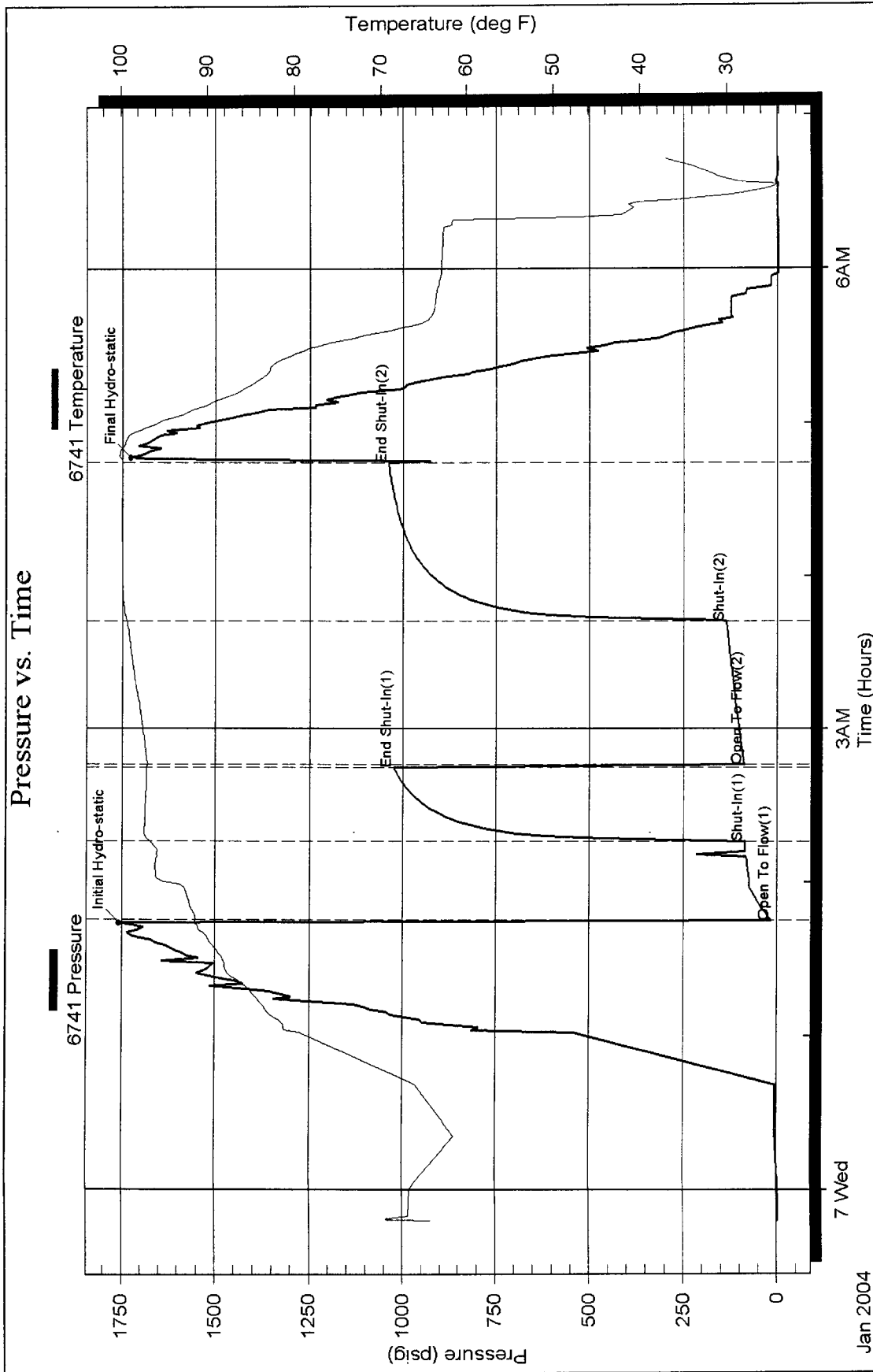
Serial #: 6741

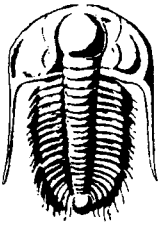
Inside

Imperial American Oil Corp.

31-12s-16w

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Nº 18500

05/03

Test Ticket

Well Name & No. VERNA UNIT #31-1 Test No. #1 Date 1-6-04
 Company IMPERIAL AMERICAN OIL CORP. Zone Tested ARBUCKLE
 Address 303 N. CARROLL BLVD, #24 DENTON, TX. 76201 Elevation 2043 KB 2038 GL
 Co. Rep / Geo. RANDY KILIAN Cont. MURFIN #16 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 31 Twp. 12S Rge. 16W Co. ELLIS State KS
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3487 TO 3535 Initial Str Wt./Lbs. 48,000 Unseated Str Wt./Lbs. 48,000
 Anchor Length 48' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 50,000
 Top Packer Depth 3482 Tool Weight 2700
 Bottom Packer Depth 3487 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3535 Wt. Pipe Run 0 Drill Collar Run 124'
 Mud Wt. 9.3 LCM 1/2" Vis. 58 WL 10.4 Drill Pipe Size 4 1/2 XH Ft. Run 3351
 Blow Description IF - FAIR BLOW BUILT TO 6" IN FSI - DEAD
IF - FAIR BLOW BUILT TO 3" IN FSI - DEAD

Recovery - Total Feet 275' GIP — Ft. in DC 124' Ft. in DP 151
 Rec. 160' Feet of MUDDY SALT WATER %gas _____ %oil 75 %water 25 %mud
 Rec. 115' Feet of DRILLING MUD %gas _____ %oil _____ %water 100 %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 99 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .35 @ 45 °F Chlorides 32,000 ppm Recovery _____ Chlorides 5,500 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1756</u> PSI	<u>6741</u>		<u>B. HOLE 700</u>
(B) First Initial Flow Pressure	<u>16</u> PSI	<u>3490</u>		Elec. Rec. <u>✓ 150</u>
(C) First Final Flow Pressure	<u>86</u> PSI	<u>11084</u>		Jars _____
(D) Initial Shut-In Pressure	<u>1024</u> PSI	<u>3522</u>		Safety Jt. _____
(E) Second Initial Flow Pressure	<u>88</u> PSI			Circ Sub _____
(F) Second Final Flow Pressure	<u>136</u> PSI			Sampler _____
(G) Final Shut-In Pressure	<u>1039</u> PSI	<u>30</u>		Straddle _____
(Q) Final Hydrostatic Mud	<u>1726</u> PSI	<u>30</u>		Ext. Packer _____

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Approved By _____

Representative John F. Schmidt

Initial Opening 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 21:45
 T-On Location 23:47
 T-Started 01:44
 T-Open 04:46
 T-Pulled 06:43
 T-Out _____

Mileage 15 25.50
 Sub Total: 875.50
 Std. By _____
 Other 21 extra copies 52.50
 Total: _____

CHART PAGE

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

