

DRILL STEM TEST REPORT

Prepared For: **Imperial American Oper.Inc**

900 N Tyler Road #14
Wichita Ks 67212

ATTN: Hal Porter

1-9s-24w Graham Ks

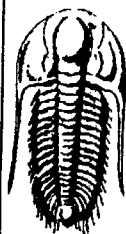
Evelyn #1-1

Start Date: 2004.10.05 @ 17:58:14

End Date: 2004.10.06 @ 00:28:06

Job Ticket #: 18519 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

Imperial American Oper. Inc

Evelyn #1-1

900 N Tyler Road #14
Wichita Ks 67212

1-9s-24w Graham Ks

ATTN: Hal Porter

Job Ticket: 18519

DST#: 1

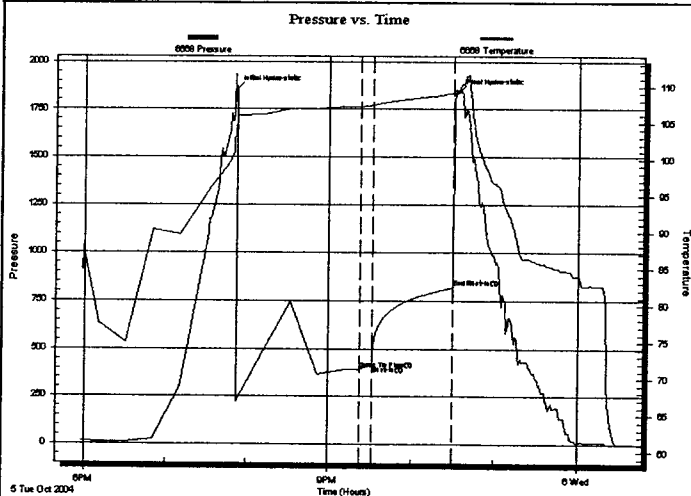
Test Start: 2004.10.05 @ 17:58:14

GENERAL INFORMATION:

Formation: **LKC C-G**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 21:22:06
 Time Test Ended: 00:28:06
 Interval: **3783.00 ft (KB) To 3869.00 ft (KB) (TVD)**
 Total Depth: **3869.00 ft (KB) (TVD)**
 Hole Diameter: **7.85 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole**
 Tester: **Ray Schwager**
 Unit No: **28**
 Reference Elevations: **2411.00 ft (KB)**
2406.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6668 Inside
 Press@RunDepth: **414.84 psig @ 3851.01 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2004.10.05** End Date: **2004.10.06** Last Calib.: **2004.10.06**
 Start Time: **17:58:14** End Time: **00:28:06** Time On Btrn: **2004.10.05 @ 19:51:43**
 Time Off Btrn: **2004.10.05 @ 22:33:06**

TEST COMMENT: FFP-wk to strg in 3 min
 FFP-wk to strg in 10 min
 Times 30-30-30-60
 ISIP-wk bl bk FSIP-no bl



PRESSURE SUMMARY

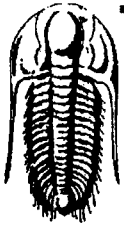
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1852.85	103.35	Initial Hydro-static
91	394.01	107.19	Open To Flow (1)
100	414.84	107.42	Shut-In(1)
159	817.16	109.13	End Shut-In(1)
162	1836.17	109.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	MV 20 mud 80 w ater	0.39
720.00	w ater RW .14 @ 66F	8.37

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oper. Inc

Evelyn #1-1

900 N Tyler Road #14
Wichita Ks 67212

1-9s-24w Graham Ks

Job Ticket: 18519

DST#: 1

ATTN: Hal Porter

Test Start: 2004.10.05 @ 17:58:14

Tool Information

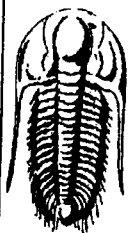
Drill Pipe:	Length: 3507.00 ft	Diameter: 3.80 inches	Volume: 49.19 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 270.00 ft	Diameter: 2.25 inches	Volume: 1.33 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 50.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3783.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.02 ft			
Tool Length:	107.02 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			3763.00	
Shut In Tool	5.00			3768.00	
Hydraulic tool	5.00			3773.00	
Packer	5.00			3778.00	21.00 Bottom Of Top Packer
Packer	5.00			3783.00	
Stubb	1.00			3784.00	
Perforations	4.00			3788.00	
Blank Spacing	63.00			3851.00	
Recorder	0.01	6668	Inside	3851.01	
Perforations	15.00			3866.01	
Recorder	0.01	13534	Outside	3866.02	
Bullnose	3.00			3869.02	86.02 Bottom Packers & Anchor

Total Tool Length: 107.02



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Imperial American Oper. Inc

Evelyn #1-1

900 N Tyler Road #14
Wichita Ks 67212

1-9s-24w Graham Ks

Job Ticket: 18519

DST#: 1

ATTN: Hal Porter

Test Start: 2004.10.05 @ 17:58:14

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:

62000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	MV 20 mud 80 w water	0.393
720.00	water RW .14 @ 66F	8.369

Total Length: 800.00 ft

Total Volume: 8.762 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

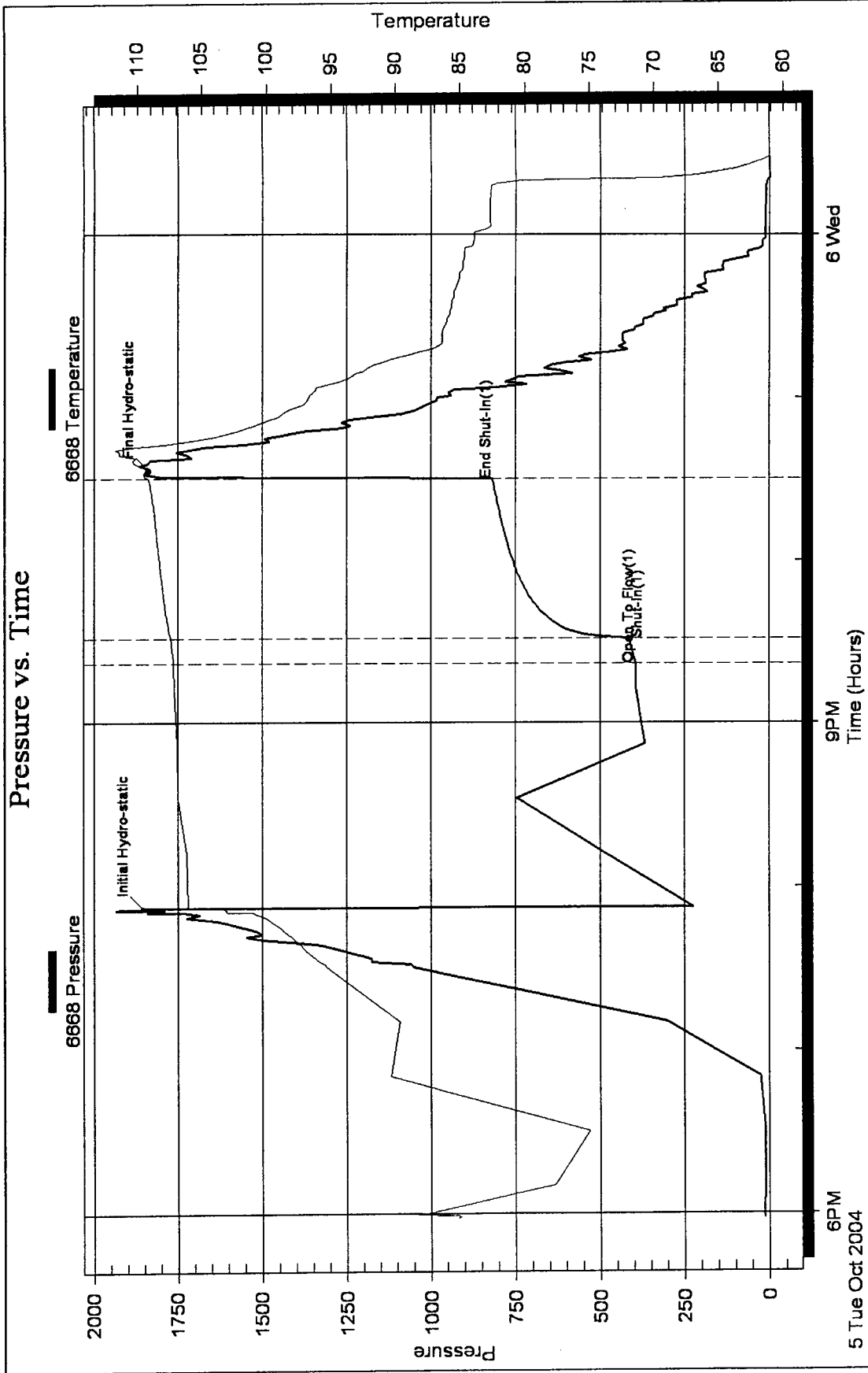
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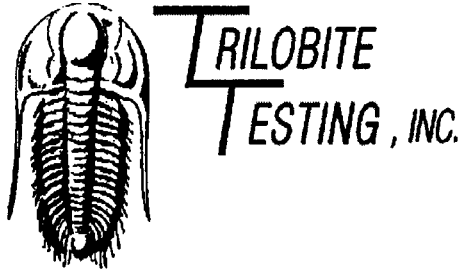
Imperial American Oper, Inc

1-9s-24w Graham Ks

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

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1-9s-24w Graham Ks

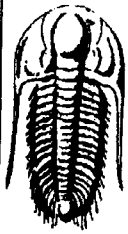
Evelyn #1-1

Start Date: 2004.10.06 @ 18:13:22

End Date: 2004.10.06 @ 23:30:51

Job Ticket #: 18520 DST #: 2

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

DRILL STEM TEST REPORT

Imperial American Oper. Inc
900 N Tyler Road #14
Wichita Ks 67212
ATTN: Hal Porter

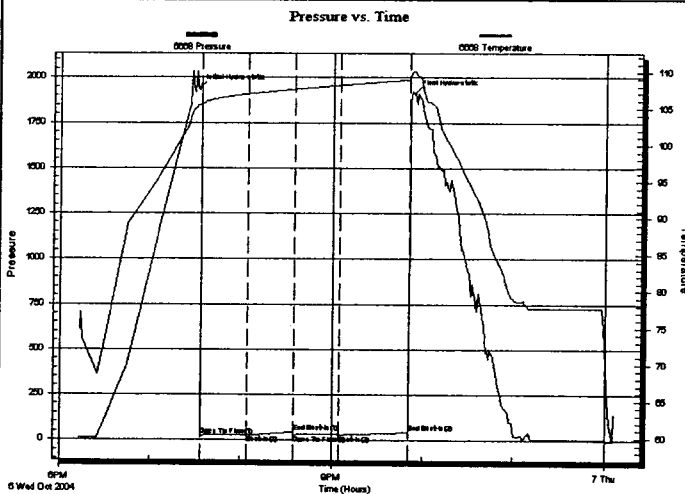
Evelyn #1-1
1-9s-24w Graham Ks
Job Ticket: 18520 **DST#: 2**
Test Start: 2004.10.06 @ 18:13:22

GENERAL INFORMATION:

Formation: **LKC I-L**
Deviated: **No Whipstock:** **ft (KB)**
Time Tool Opened: 19:33:51
Time Test Ended: 23:30:51
Interval: **3912.00 ft (KB) To 3985.00 ft (KB) (TVD)**
Total Depth: **3985.00 ft (KB) (TVD)**
Hole Diameter: **7.85 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Ray Schwager**
Unit No: **28**
Reference Elevations: **2411.00 ft (KB)**
2406.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6668 **Inside**
Press@RunDepth: **30.15 psig @ 3917.01 ft (KB)** Capacity: **7000.00 psig**
Start Date: **2004.10.06** End Date: **2004.10.07** Last Calib.: **2004.10.06**
Start Time: **18:13:22** End Time: **00:05:51** Time On Btmr: **2004.10.06 @ 19:31:51**
Time Off Btmr: **2004.10.06 @ 21:53:51**

TEST COMMENT: FP-w k 1/4" bl died in 20 min
FFP-no bl
Times 30-30-30-45



PRESSURE SUMMARY

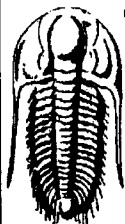
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1936.06	105.45	Initial Hydro-static
2	24.71	105.60	Open To Flow (1)
33	27.50	106.98	Shut-In(1)
63	44.54	107.63	End Shut-In(1)
63	29.42	107.63	Open To Flow (2)
93	30.15	108.17	Shut-In(2)
139	43.12	108.94	End Shut-In(2)
142	1910.38	110.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Imperial American Oper. Inc

Evelyn #1-1

900 N Tyler Road #14
Wichita Ks 67212

1-9s-24w Graham Ks

Job Ticket: 18520

DST#: 2

ATTN: Hal Porter

Test Start: 2004.10.06 @ 18:13:22

Tool Information

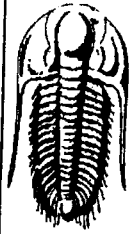
Drill Pipe:	Length: 3659.00 ft	Diameter: 3.80 inches	Volume: 51.33 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume: 52.51 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3912.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.02 ft			
Tool Length:	94.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3892.00	
Shut In Tool	5.00			3897.00	
Hydraulic tool	5.00			3902.00	
Packer	5.00			3907.00	21.00 Bottom Of Top Packer
Packer	5.00			3912.00	
Stubb	1.00			3913.00	
Perforations	4.00			3917.00	
Recorder	0.01	6668	Inside	3917.01	
Perforations	3.00			3920.01	
Blank Spacing	62.00			3982.01	
Recorder	0.01	13534	Inside	3982.02	
Bullnose	3.00			3985.02	73.02 Bottom Packers & Anchor

Total Tool Length: 94.02



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FLUID SUMMARY

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Evelyn #1-1

900 N Tyler Road #14
Wichita Ks 67212

1-9s-24w Graham Ks

Job Ticket: 18520

DST#: 2

ATTN: Hal Porter

Test Start: 2004.10.06 @ 18:13:22

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: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6668

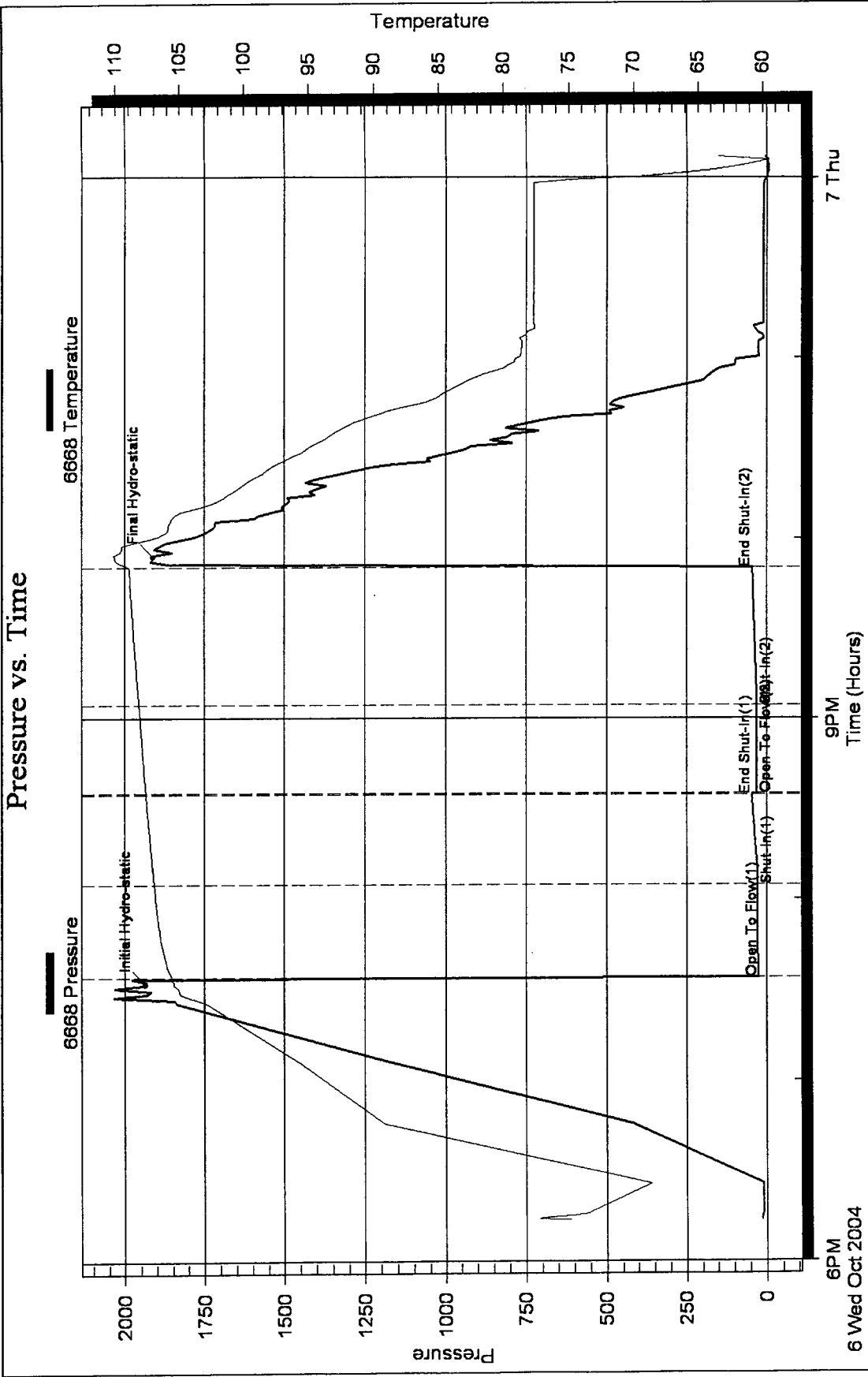
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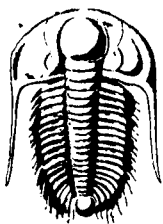
Imperial American Oper, Inc

1-9s-24w Graham Ks

DST Test Number: 2

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

6839

No 18519

05/03

Test Ticket

Well Name & No. Evelyn #1-1 Test No. 1 Date 10-5-04
 Company Imperial American Operating Inc Zone Tested LKC C-6
 Address 900 N. Tyler Road #14 Wichita, KS 67212 Elevation 2411 KB 2406 GL
 Co. Rep / Geo. Randy Killian Cont. MURFIN IG Est. Ft. of Pay - Por. - %
 Location: Sec. 1 Twp. 9^s Rge. 24^w Co. GRAHAM State Ks
 No. of Copies Reg Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3783-3869 Initial Str Wt./Lbs. 59000 Unseated Str Wt./Lbs. 62000
 Anchor Length 86 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 75000
 Top Packer Depth 3778 Tool Weight 2200
 Bottom Packer Depth 3783 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3869 Wt. Pipe Run - Drill Collar Run 270
 Mud Wt. 9.1 LCM - Vis. 59 WL 7.2 Drill Pipe Size 4 1/2 X H Ft. Run 3507
 Blow Description IFP - WEAK TO STRONG IN 3 MIN
FFP - WEAK TO STRONG IN 10 MIN
ISTP - WEAK BLOWBACK
FSIP - NO BLOW

Recovery - Total Feet 800 GIP - Ft. in DC 270 Ft. in DP 530
 Rec. 80 Feet of MW w/ slow foal %gas _____ %oil _____ 80 %water 20 %mud _____
 Rec. 720 Feet of WATER %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 109 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW .14 @ 66 °F Chlorides 62000 ppm Recovery _____ Chlorides 1000 ppm System

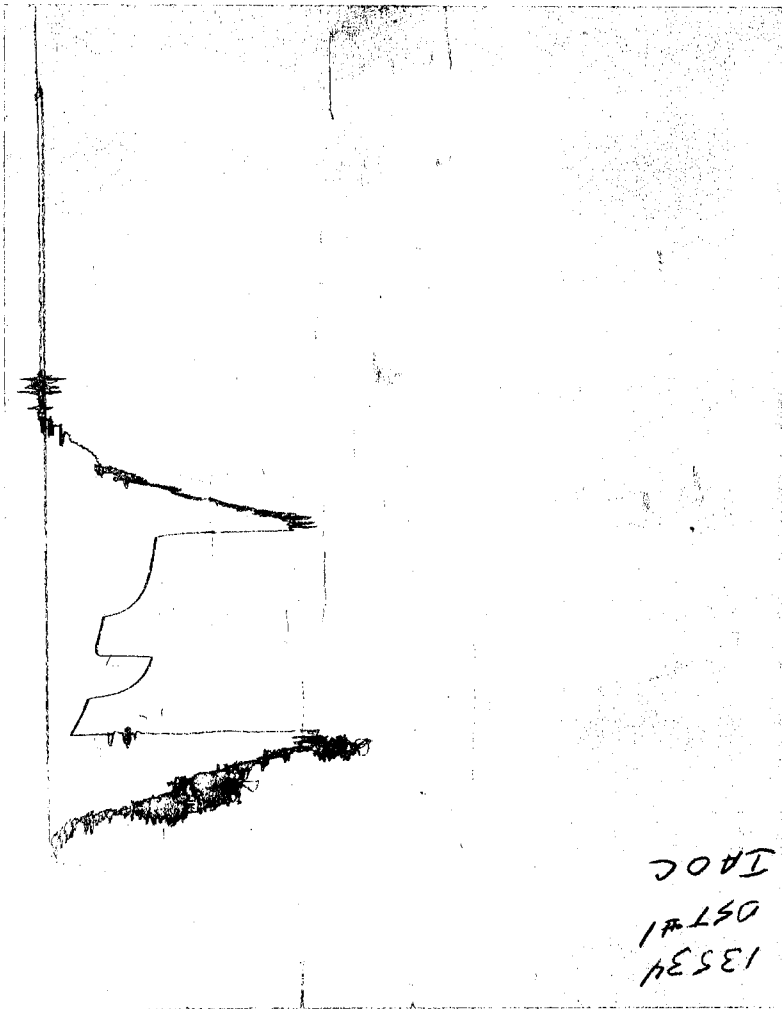
	AK-1	Alpine	PSI	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1869</u>	<u>1813</u>		<u>6668</u>	<u>900</u>
(B) First Initial Flow Pressure	<u>163</u>			<u>3851</u>	Elec. Rec. <input checked="" type="checkbox"/>
(C) First Final Flow Pressure	<u>273</u>			<u>13534</u>	Jars _____
(D) Initial Shut-In Pressure	<u>724</u>			<u>3866</u>	Safety Jt. _____
(E) Second Initial Flow Pressure	<u>327</u>			<u>-</u>	Circ Sub _____
(F) Second Final Flow Pressure	<u>382</u>			<u>-</u>	Sampler _____
(G) Final Shut-In Pressure	<u>778</u>			<u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>1813</u>			<u>30</u>	Ext. Packer _____
				<u>30</u>	Shale Packer _____
				<u>60</u>	Mileage <u>120 RT 102</u>
				<u>1700</u>	Sub Total: <u>1002</u>
				<u>1758</u>	Std. By _____
				<u>2005</u>	Other _____
				<u>2235</u>	Total: _____
				<u>0028</u>	

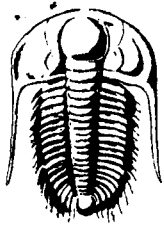
TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By _____
 Our Representative RAY SCHWAGER Thank
404

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 18520

05/03

Test Ticket

Well Name & No. Evelyn #1-1 Test No. 2 Date 10-6-04
 Company Imperial American Operating TAC Zone Tested LKC I-2
 Address 900 N. Tyler Road #14 Wichita, KS 67212 Elevation 2411 KB 2406 GL
 Co. Rep / Geo. Randy Killian Cont. Murfin 16 Est. Ft. of Pay — Por. — %
 Location: Sec. 1 Twp. 9^s Rge. 24^w Co. GRAHAM State Ks
 No. of Copies Reg Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 3912 - 3985 Initial Str Wt./Lbs. 59000 Unseated Str Wt./Lbs. 59000
 Anchor Length 23 Wt. Set Lbs. 25000 Wt. Pulled Loose/Lbs. 75000
 Top Packer Depth 3907 Tool Weight 2200
 Bottom Packer Depth 3912 Hole Size 7 7/8" — Rubber Size 6 3/4" —
 Total Depth 3985 Wt. Pipe Run — Drill Collar Run 240
 Mud Wt. 9.3 LCM TR Vis. 65 WL 7.2 Drill Pipe Size 4 1/2 XH Ft. Run 3659
 Blow Description IFF - weak 1/4" Blow died in 20 min
FFP - NO BLOW

Recovery - Total Feet 2 GIP — Ft. in DC 2 Ft. in DP —
 Rec. 2 Feet of Mud %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 109 °F Gravity — °API D @ — °F Corrected Gravity — °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 2000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	1936	PSI	6668	900
(B) First Initial Flow Pressure	24	PSI	(depth) 3917	Elec. Rec. ✓
(C) First Final Flow Pressure	27	PSI	Recorder No. 13534	Jars
(D) Initial Shut-In Pressure	44	PSI	(depth) 3982	Safety Jt.
(E) Second Initial Flow Pressure	29	PSI	Recorder No. —	Circ Sub ✓
(F) Second Final Flow Pressure	30	PSI	(depth) —	Sampler
(G) Final Shut-In Pressure	43	PSI	Initial Opening 30	Straddle
(Q) Final Hydrostatic Mud	1910	PSI	Initial Shut-In 30	Ext. Packer
			Final Flow 30	Shale Packer
			Final Shut-In 45	Mileage ✓ 24 Rt 20.40
			T-On Location 1750	Sub Total: 920.40
			T-Started 1813	Std. By
			T-Open 1935	Other
			T-Pulled 2150	Total:
			T-Out 23	

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Approved By _____
 Our Representative Ray Schwager Thank you

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

