

**DRILL STEM TEST REPORT**

Prepared For: **Kieth Walker**

P.O. Box 1725  
Ardmore, OK 73402

ATTN: Barry Jones

**3/35/26**

**Earp 1-3**

Start Date: 2005.05.29 @ 21:52:10

End Date: 2005.05.30 @ 08:52:10

Job Ticket #: 22412                      DST #: 1

Kieth Walker

Earp 1-3

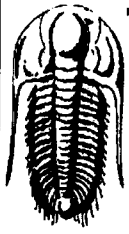
3/35/26

DST # 1

Morrow

2005.05.29

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Keith Walker  
P.O. Box 1725  
Ardmore, OK 73402  
ATTN: Barry Jones

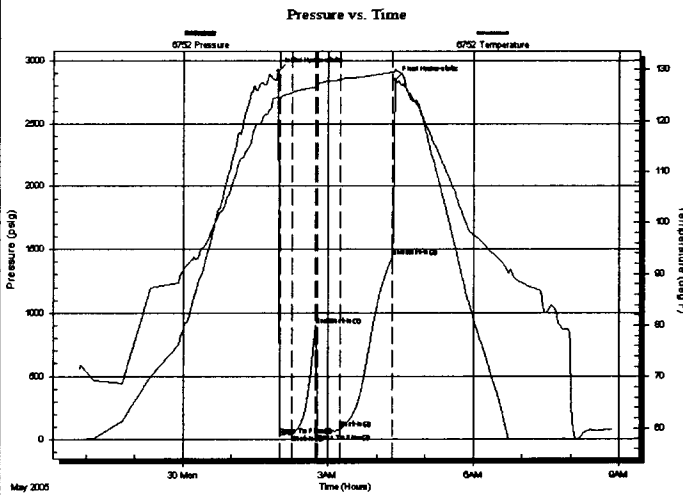
Earp 1-3  
3/35/26  
Job Ticket: 22412      **DST#: 1**  
Test Start: 2005.05.29 @ 21:52:10

## GENERAL INFORMATION:

Formation: **Morrow**  
 Deviated: **No Whipstock**      ft (KB)  
 Time Tool Opened: 02:00:19  
 Time Test Ended: 08:52:10  
 Interval: **6028.00 ft (KB) To 6044.00 ft (KB) (TVD)**  
 Total Depth: **6097.00 ft (KB) (TVD)**  
 Hole Diameter: **7.78 inches** Hole Condition: **Good**  
 Test Type: **Conventional Straddle**  
 Tester: **Chris Hagman**  
 Unit No: **20**  
 Reference Elevations: **2245.00 ft (KB)**  
**2235.00 ft (CF)**  
 KB to GR/CF: **10.00 ft**

**Serial #: 6752**      **Inside**  
 Press@RunDepth: **84.35 psig @ 6030.00 ft (KB)**      Capacity: **7000.00 psig**  
 Start Date: **2005.05.29**      End Date: **2005.05.30**      Last Calib.: **1899.12.30**  
 Start Time: **21:52:10**      End Time: **08:52:10**      Time On Btm: **2005.05.30 @ 01:57:19**  
 Time Off Btm: **2005.05.30 @ 04:22:20**

**TEST COMMENT:** F: Weak surface blow, 1 inch in 10 min., steady  
 IS: No blow back  
 FF: Weak surface blow, died in 10 min.  
 FSI: No blow back



## PRESSURE SUMMARY

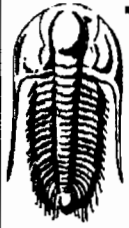
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2918.89	124.56	Initial Hydro-static
3	31.22	124.37	Open To Flow (1)
18	40.91	125.46	Shut-In(1)
48	902.82	126.66	End Shut-In(1)
51	50.41	126.93	Open To Flow (2)
78	84.35	128.00	Shut-In(2)
143	1443.65	129.49	End Shut-In(2)
146	2850.83	130.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	100%M	0.30

## Gas Rates

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



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**TOOL DIAGRAM**

Kieth Walker  
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Ardmore, OK 73402  
  
ATTN: Barry Jones

**Earp 1-3**  
**3/35/26**  
Job Ticket: 22412      DST#: 1  
Test Start: 2005.05.29 @ 21:52:10

**Tool Information**

Drill Pipe:	Length: 5706.00 ft	Diameter: 3.80 inches	Volume: 80.04 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 296.00 ft	Diameter: 2.25 inches	Volume: 1.46 bbl	Weight to Pull Loose: 100000.0 lb
			<b>Total Volume: 81.50 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 88000.00 lb
Depth to Top Packer:	6028.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	6040.00 ft			
Interval between Packers:	12.00 ft			
Tool Length:	99.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:  
Graphs were the same, no straddle

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5999.00	
Shut In Tool	5.00			6004.00	
Sampler	3.00			6007.00	
Hydraulic tool	5.00			6012.00	
Jars	5.00			6017.00	
Safety Joint	2.00			6019.00	
Packer	5.00			6024.00	30.00      Bottom Of Top Packer
Packer	4.00			6028.00	
Stubb	1.00			6029.00	
Perforations	1.00			6030.00	
Recorder	0.00	6752	Inside	6030.00	
Perforations	9.00			6039.00	
Recorder	0.00	13630	Inside	6039.00	
Blank Off Sub	1.00			6040.00	12.00      Tool Interval
Packer	4.00			6044.00	
Stubb	1.00			6045.00	
Perforations	15.00			6060.00	
Change Over Sub	1.00			6061.00	
Drill Pipe	32.00			6093.00	
Change Over Sub	1.00			6094.00	
Recorder	0.00	13759	Outside	6094.00	
Bullnose	3.00			6097.00	57.00      Bottom Packers & Anchor

**Total Tool Length: 99.00**



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**FLUID SUMMARY**

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**Earp 1-3**  
**3/35/26**  
Job Ticket: 22412      **DST#: 1**  
Test Start: 2005.05.29 @ 21:52:10

**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:	8000 ppm
Viscosity: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5400.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
62.00	100%M	0.305

Total Length: 62.00 ft      Total Volume: 0.305 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW=.690@76F=8000ppm  
 Sampler=100psi, 4000ml mud

Serial #: 6752

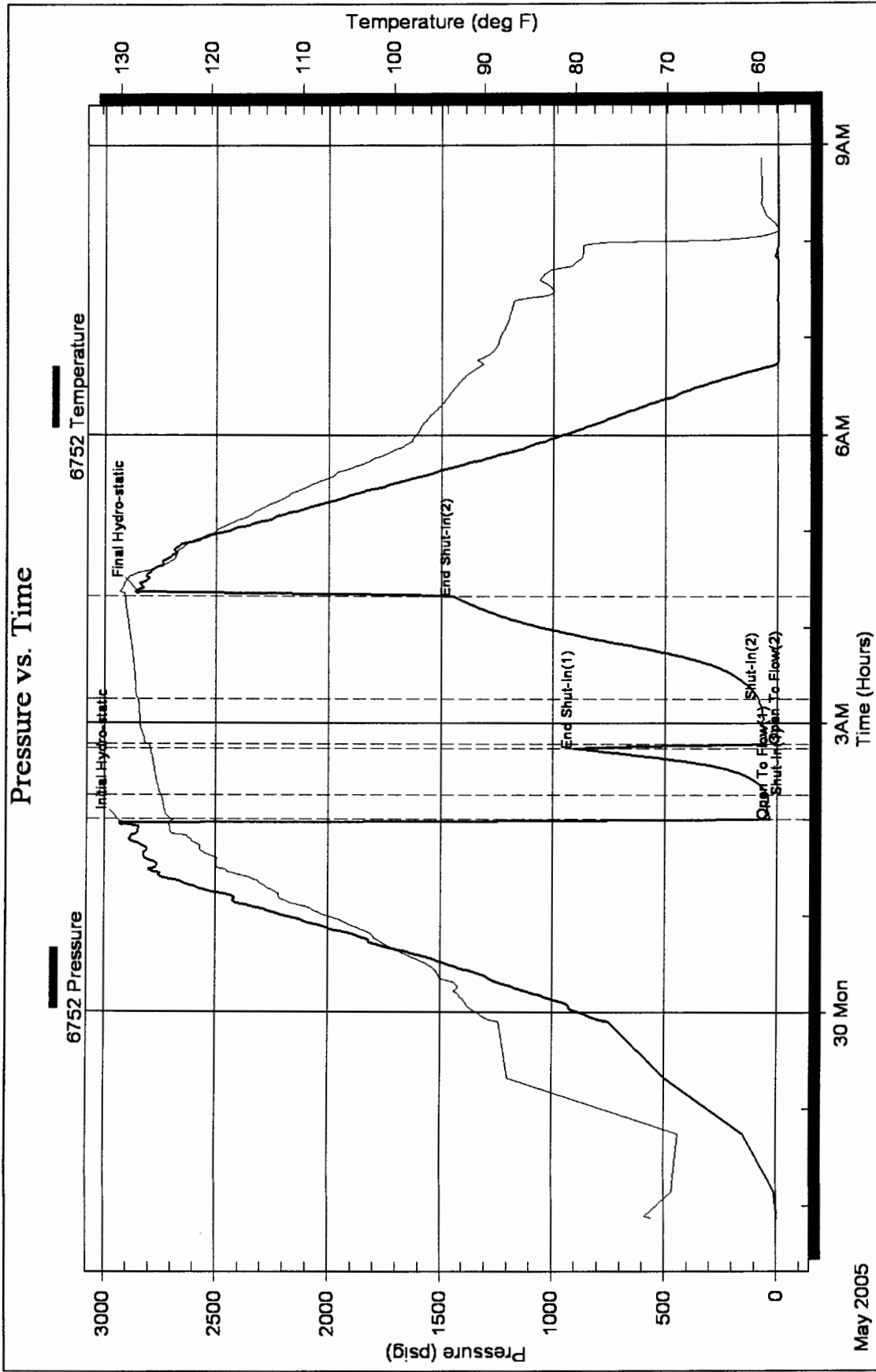
Inside

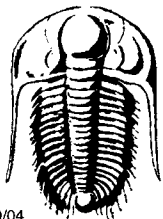
Kieth Walker

3/35/26

DST Test Number: 1

### Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

TNU  
7531

No 22412

9/04

## Test Ticket

Well Name & No. Earp 1-3 Test No. 1 Date 5-29-05  
 Company K. Keith Walker Zone Tested Morrow  
 Address P.O. Box 1725 Aidmore OK 73402 Elevation 2245 KB 2235 GL  
 Co. Rep / Geo. Barry Jones Cont. Big A #6 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 3 Twp. 35 Rge. 26 Co. Morris State KS  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 6028-6044 Initial Str Wt./Lbs. 88K Unseated Str Wt./Lbs. 88K  
 Anchor Length 16' Wt. Set Lbs. 20K Wt. Pulled Loose/Lbs. 100K  
 Top Packer Depth 6023 Tool Weight 2K  
 Bottom Packer Depth 6028 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 6097 Wt. Pipe Run N.A. Drill Collar Run 296  
 Mud Wt. 9.0 LCM 7# Vis. 44 WL 8.4 Drill Pipe Size 4.5 x H Ft. Run 5706  
 Blow Description ZF: Weak surface blow, 1 inch in 10 min., steady blow  
ISZ: No blow back  
FF: Weak surface blow, died 10 min.  
FSL: No blow back

Recovery - Total Feet	GIP	Ft. in DC	Ft. in DP
<u>62</u>		<u>62</u>	
Rec. <u>62</u> Feet of <u>Mud</u>	%gas	%oil	%water <u>100</u> %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 129 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .627 @ 76 °F Chlorides 8000 ppm Recovery 8000 Chlorides 5400 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2919</u> PSI		<u>6752 (9:51)</u>	<u>✓ Straddle</u>
(B) First Initial Flow Pressure	<u>31</u> PSI		(depth) <u>6039</u>	Jars <u>✓</u>
(C) First Final Flow Pressure	<u>41</u> PSI		Recorder No. <u>13630</u>	Safety Jt. <u>✓</u>
(D) Initial Shut-In Pressure	<u>903</u> PSI		(depth) <u>inside (6040)</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>50</u> PSI		Recorder No. <u>13759</u>	Sampler <u>✓</u>
(F) Second Final Flow Pressure	<u>84</u> PSI		(depth) <u>outside (6090)</u>	Straddle <u>✓</u>
(G) Final Shut-In Pressure	<u>1444</u> PSI	Initial Opening	<u>15</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2851</u> PSI	Initial Shut-In	<u>30</u>	Shale Packer <u>✓ x 1.0</u>

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Approved By Barry Jones  
 Our Representative [Signature]

Final Flow	<u>30</u>	Ruined Packer	_____
Final Shut-In	<u>60</u>	Mileage	<u>✓ x 210</u>
T-On Location	<u>2100</u>	Sub Total:	<u>2310 2310</u>
T-Started	<u>2200</u>	Std. By	<u>x 5 15</u>
T-Open	<u>0200</u>	Other	_____
T-Pulled	<u>0415</u>	Total:	<u>2325 2325</u>
T-Out	<u>0830</u>		



# TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 22412 Date 5-29-05  
 Company Name Keith Walker  
 Lease Earp 1-3 Test No. 1  
 County Meade, KS Sec. 3 Twp. 35 Rng. 26

### SAMPLER RECOVERY

Gas \_\_\_\_\_ ML  
 Oil \_\_\_\_\_ ML  
 Mud 4000 ML  
 Water \_\_\_\_\_ ML  
 Other \_\_\_\_\_ ML  
 Pressure 100 psi ML  
 Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 5400 ppm.  
 Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
 Viscosity 44  
 Mud Weight 9.0  
 Filtrate 8.4  
 Other 7<sup>0</sup> LCM

### SAMPLER ANALYSIS

Resistivity .690 ohms @ 76 F  
 Chlorides 8000 ppm.  
 Gravity \_\_\_\_\_ corrected @60F

### PIPE RECOVERY

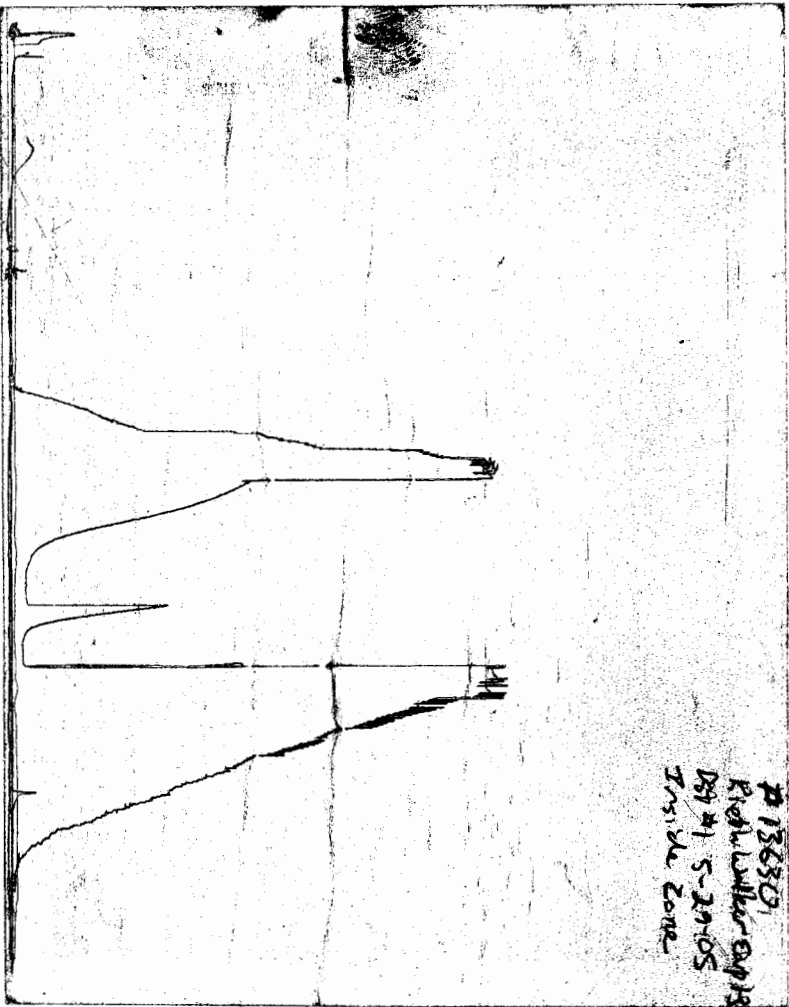
**TOP**  
 Resistivity .697 ohms @ 76 F  
 Chlorides 8000 ppm.

**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.



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

