

DRILL STEM TEST REPORT

Prepared For: **J & D Investments**

1586 Smokey Hill River Rd
Hays KS 67601

ATTN: Jason Dinges

30 18 17 Rush KS

Tammen # 4

Start Date: 2006.12.30 @ 11:00:44

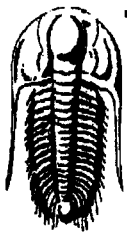
End Date: 2006.12.30 @ 18:38:29

Job Ticket #: 25940 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



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TESTING, INC

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Tammen # 4

30 18 17 Rush KS

Job Ticket: 25940

DST#: 1

Test Start: 2006.12.30 @ 11:00:44

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:48:24

Time Test Ended: 18:38:29

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3695.00 ft (KB) To 3755.00 ft (KB) (TVD)**

Total Depth: 3755.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: ft (KB)

ft (CF)

KB to GR/CF: ft

Serial #: 6741

Inside

Press@RunDepth: 31.34 psig @ 3698.00 ft (KB)

Start Date: 2006.12.30

End Date:

2006.12.30

Start Time: 11:00:46

End Time:

18:38:29

Capacity: 7000.00 psig

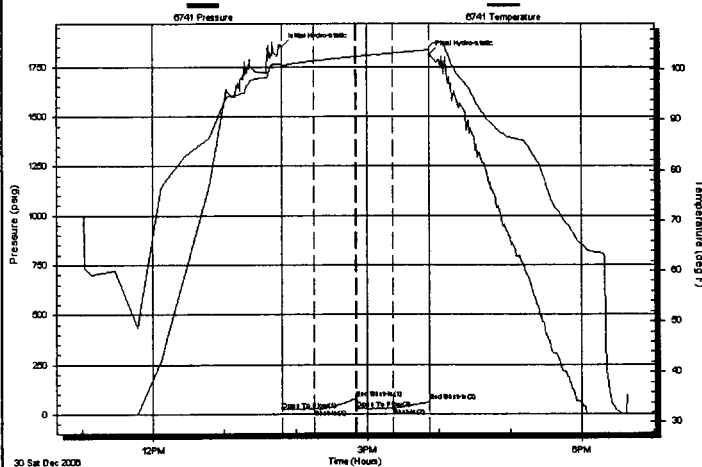
Last Calib.: 2006.12.30

Time On Btm: 2006.12.30 @ 13:48:14

Time Off Btm: 2006.12.30 @ 15:52:29

TEST COMMENT: IF Weak steady surface blow
FF Weak blow died in 10 min

Pressure vs. Time



PRESSURE SUMMARY

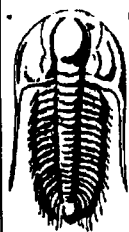
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1852.26	101.13	Initial Hydro-static
1	21.12	100.10	Open To Flow (1)
28	25.72	101.68	Shut-In (1)
62	75.77	102.55	End Shut-In (1)
63	25.19	102.55	Open To Flow (2)
94	31.34	103.23	Shut-In (2)
124	61.23	103.86	End Shut-In (2)
125	1809.41	104.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	DM	0.10

Gas Rates

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

J & D Investments

1586 Smokey Hill River Rd
Hays KS 67601

ATTN: Jason Dinges

Tammen # 4

30 18 17 Rush KS

Job Ticket: 25940

DST#: 1

Test Start: 2006.12.30 @ 11:00:44

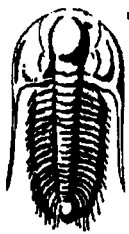
Tool Information

Drill Pipe:	Length: 3578.00 ft	Diameter: 3.80 inches	Volume: 50.19 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:	30000.00 lb
Drill Collar:	Length: 116.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume:	50.76 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3695.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	81.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3675.00	
Shut In Tool	5.00			3680.00	
Hydraulic tool	5.00			3685.00	
Packer	5.00			3690.00	21.00 Bottom Of Top Packer
Packer	5.00			3695.00	
Stubb	1.00			3696.00	
Perforations	1.00			3697.00	
Change Over Sub	1.00			3698.00	
Recorder	0.00	6741	Inside	3698.00	
Drill Pipe	31.00			3729.00	
Change Over Sub	1.00			3730.00	
Recorder	0.00	13254	Outside	3730.00	
Perforations	22.00			3752.00	
Bullnose	3.00			3755.00	60.00 Bottom Packers & Anchor

Total Tool Length: 81.00



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FLUID SUMMARY

J & D Investments

Tammen # 4

1586 Smokey Hill River Rd
Hays KS 67601

30 18 17 Rush KS

Job Ticket: 25940

DST#: 1

ATTN: Jason Dinges

Test Start: 2006.12.30 @ 11:00:44

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	DM	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

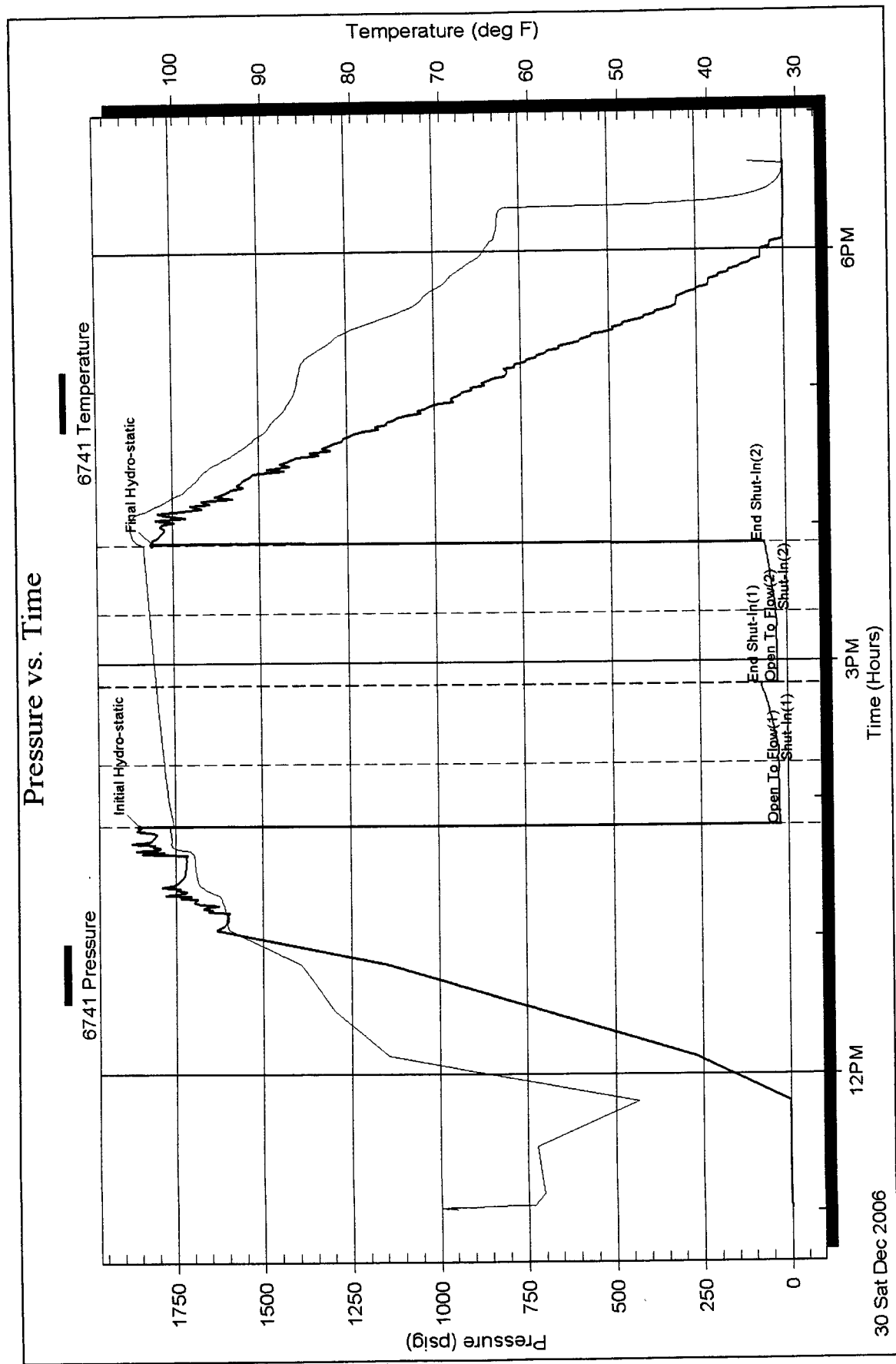
DST Test Number: 1

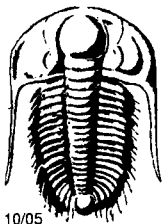
30 18 17 Rush KS

J & D Investments

Inside

Serial #: 6741





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25940 ✓

97051

Test Ticket

Well Name & No. <u>Tammen #4</u>	Test No. <u>1</u>	Date <u>12-20-06</u>
Company <u>I+D INVESTMENTS</u>	Zone Tested <u>Arkusle</u>	
Address <u>1086 Smoky Hill River Rd. Hays KS 67601</u>	Elevation _____	KB _____ GL _____
Co. Rep / Geo. <u>Jerry Green</u>	Rig <u>Warren #17</u>	
Location: Sec. <u>30</u> Twp. <u>18</u> Rge. <u>17</u>	Co. <u>Rush</u>	State <u>Ks</u>
Comment: _____		Release date / time: _____

Interval Tested 3695 ————— 3755 Initial Str Wt./Lbs. 59000 Unseated Str Wt/Lbs. 59000
 Anchor Length 60 Wt. Set Lbs. 39000 Wt. Pulled Loose/Lbs. 60000
 Top Packer Depth 3690 Tool Weight 2000
 Bottom Packer Depth 3695 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3755 Wt. Pipe Run _____ Drill Collar Run 116
 Mud Wt. 8.9 LCM _____ Vis. 53 WL 9.2 Drill Pipe Size 4.5 XH Ft. Run 3578
 Blow Description I.F. Weak steady surface blow

E.F. Weak blow - died in 10 min.

Recovery - Total Feet 20 GIP _____ Ft. in DC 20 Ft. in DP _____
 Rec. 20 Feet of D.M. %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 103 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 5700 ppm System

AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>185.5</u> PSI	Recorder No. <u>6741</u>	Test <u>1100</u>
(B) First Initial Flow Pressure	<u>21</u> PSI	(depth) <u>3698</u>	Jars _____
(C) First Final Flow Pressure	<u>25</u> PSI	Recorder No. <u>13254</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>70</u> PSI	(depth) <u>3730</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>25</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>31</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>61</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1757</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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Final Flow	<u>30</u>	Ruined Packer _____
Final Shut-In	<u>30</u>	Mileage <u>68 RT 85</u>
T-On Location	<u>08:30</u>	Sub Total: <u>1185</u>
T-Started	<u>11:00</u>	Std. By _____
T-Open	<u>13:50</u>	Acc. Chg: _____
T-Pulled	<u>15:50</u>	Other: _____
T-Out	<u>18:38</u>	Total: _____

Approved By [Signature]

Our Representative [Signature]

CHART PAGE

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

