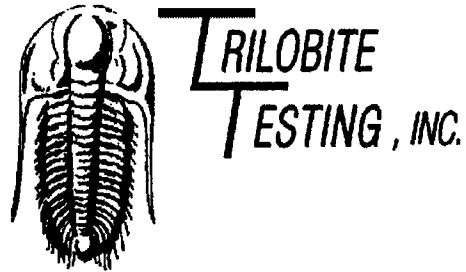


15-145-21537

25-21s-16w



## DRILL STEM TEST REPORT

Prepared For: **VJI Natural Resources**

1584 Smokey Hill River Rd.  
Hays, KS 67601

ATTN: Bob Stozle

**25-21s-16w/Pawnee**

**Ward Feed Yard**

Start Date: 2006.03.18 @ 13:50:17

End Date: 2006.03.18 @ 23:35:15

Job Ticket #: 24308                      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

VJI Natural Resources  
1584 Smokey Hill River Rd.  
Hays, KS 67601

**Ward Feed Yard**

**25-21s-16w/Pawnee**

Job Ticket: 24308

DST#: 1

ATTN: Bob Stozle

Test Start: 2006.03.18 @ 13:50:17

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 17:13:30

Time Test Ended: 23:35:15

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **24**

Interval: **3854.00 ft (KB) To 3875.00 ft (KB) (TVD)**

Total Depth: **3875.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **1981.00 ft (KB)**

**1971.00 ft (CF)**

KB to GR/CF: **10.00 ft**

**Serial #: 6769**

**Inside**

Press@RunDepth: **1101.60 psig @ 3855.01 ft (KB)**

Start Date: **2006.03.18**

End Date:

**2006.03.18**

Start Time: **13:50:17**

End Time:

**23:35:15**

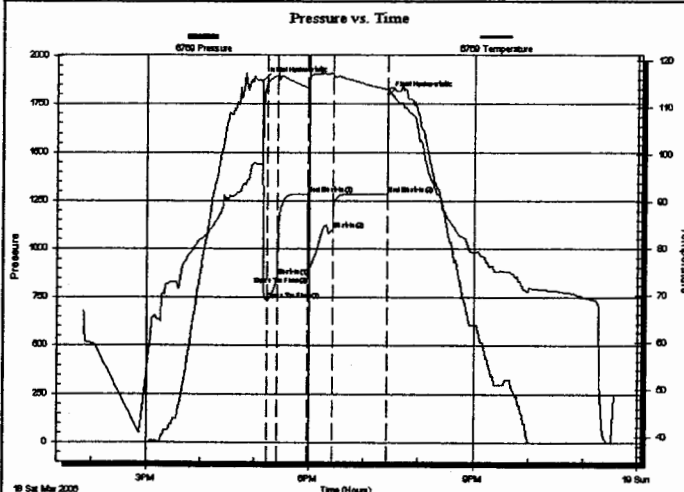
Capacity: **7000.00 psig**

Last Calib.: **2006.03.18**

Time On Btrr: **2006.03.18 @ 17:08:15**

Time Off Btrr: **2006.03.18 @ 19:26:00**

TEST COMMENT: **IFP - BOB on opening GTS 2 min.  
ISI - never bled off  
FFP - BOB on opening fluid to surface  
FSI - never bled off**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1869.75	98.12	Initial Hydro-static
6	732.61	115.21	Open To Flow (1)
17	858.97	116.78	Shut-In(1)
50	1286.34	114.26	End Shut-In(1)
51	858.12	108.33	Open To Flow (2)
78	1101.60	117.31	Shut-In(2)
138	1284.95	113.85	End Shut-In(2)
138	1796.20	114.22	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
1285.00	salt water	15.88

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	38.00	353.47
Last Gas Rate	0.50	125.00	940.35
Max. Gas Rate	0.50	125.00	940.35



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

VJI Natural Resources

Ward Feed Yard

1584 Smokey Hill River Rd.  
Hays, KS 67601

25-21s-16w/Pawnee

Job Ticket: 24308

DST#: 1

ATTN: Bob Stozle

Test Start: 2006.03.18 @ 13:50:17

### Tool Information

Drill Pipe:	Length: 3614.00 ft	Diameter: 3.80 inches	Volume: 50.69 bbl	Tool Weight: 2500.00 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3854.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.02 ft			
Tool Length:	48.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:	gas to surface			

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3832.00	
HYD.S.I. Tool	5.00			3837.00	
Jars	5.00			3842.00	
Safety Joint	2.00			3844.00	
Packer	5.00			3849.00	27.00 Bottom Of Top Packer
Packer	5.00			3854.00	
Stubb	1.00			3855.00	
Recorder	0.01	6769	Inside	3855.01	
Perforations	17.00			3872.01	
Recorder	0.01	13548	Outside	3872.02	
Bullnose	3.00			3875.02	21.02 Bottom Packers & Anchor

**Total Tool Length: 48.02**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

FLUID SUMMARY

VJI Natural Resources  
1584 Smokey Hill River Rd.  
Hays, KS 67601

Ward Feed Yard

25-21s-16w/Pawnee

Job Ticket: 24308

DST#: 1

ATTN: Bob Stozle

Test Start: 2006.03.18 @ 13:50:17

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 8.72 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6600.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 50000 ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1285.00	salt water	15.875

Total Length: 1285.00 ft      Total Volume: 15.875 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

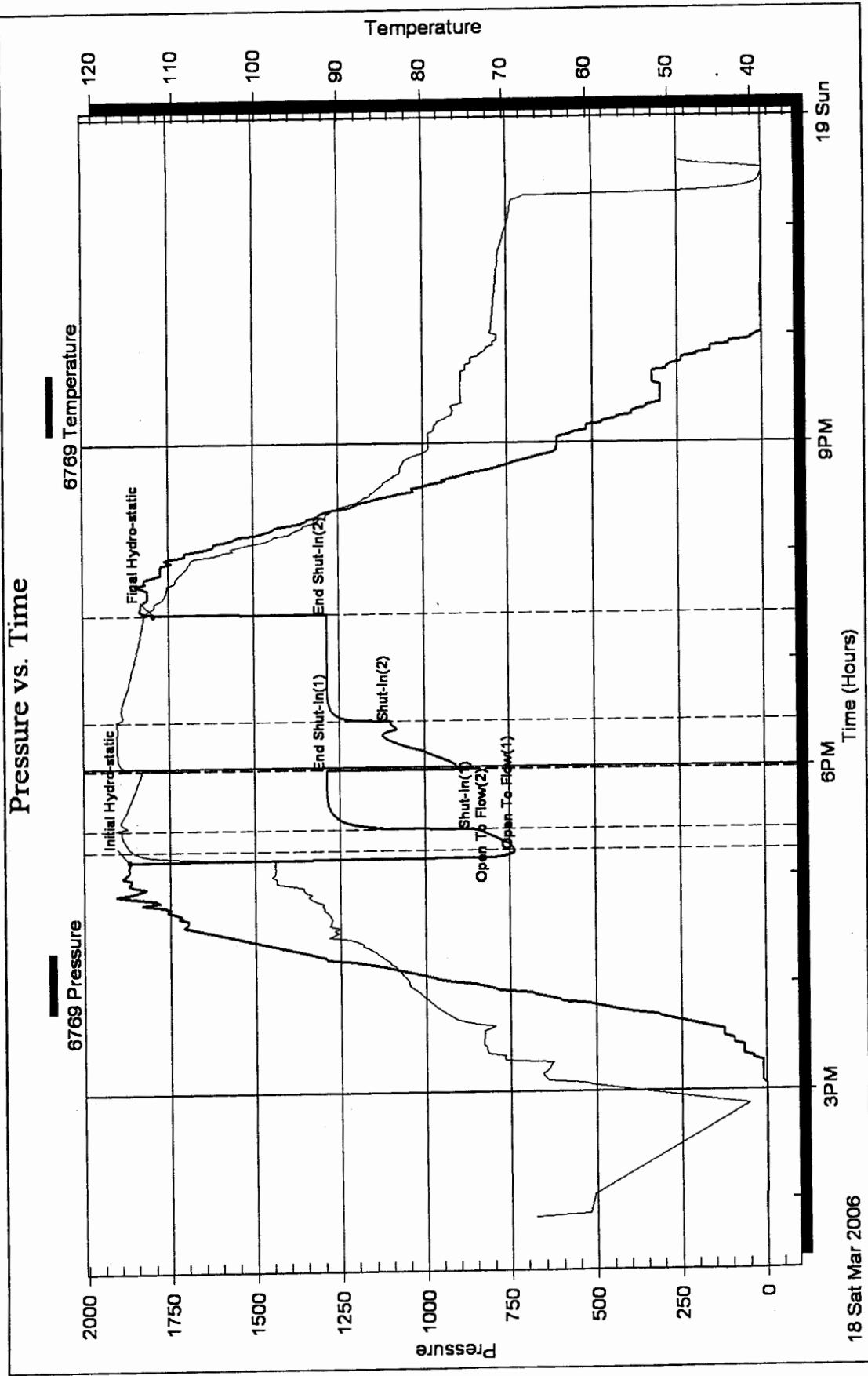
25-21s-16w / Paw nee

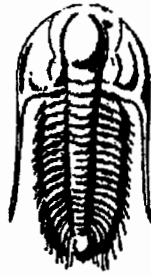
VJI Natural Resources

Inside

Serial #: 6769

### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **VJI Natural Resources**

1584 Smokey Hill River Rd.  
Hays, KS 67601

ATTN: Bob Stozle

**25-21s-16w/Pawnee**

**Ward Feed Yard**

Start Date: 2006.03.20 @ 00:18:40

End Date: 2006.03.20 @ 12:10:23

Job Ticket #: 24309                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

VJI Natural Resources

Ward Feed Yard

25-21s-16w/Pawnee

DST # 2

Arbuckle (2)

2006.03.20



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

VJI Natural Resources  
1584 Smokey Hill River Rd.  
Hays, KS 67601  
ATTN: Bob Stozle

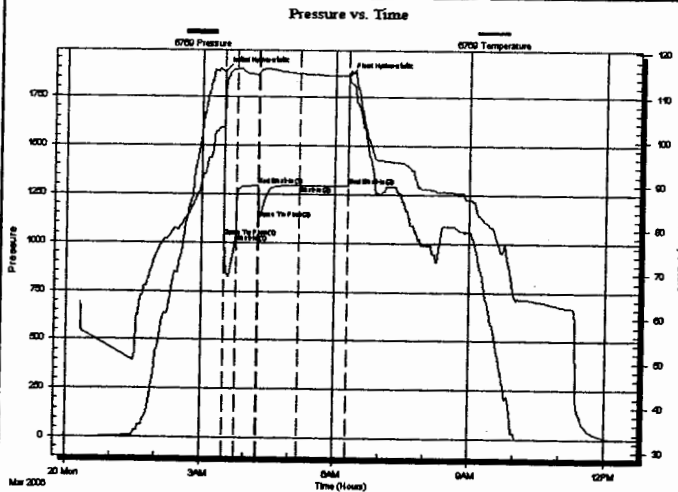
**Ward Feed Yard**  
**25-21s-16w/Pawnee**  
Job Ticket: 24309      DST#: 2  
Test Start: 2006.03.20 @ 00:18:40

### GENERAL INFORMATION:

Formation: **Arbuckle (2)**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: **03:31:08**  
Time Test Ended: **12:10:23**  
Interval: **3886.00 ft (KB) To 3906.00 ft (KB) (TVD)**  
Total Depth: **3975.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Straddle**  
Tester: **Brian Fairbank**  
Unit No: **24**  
Reference Elevations: **1981.00 ft (KB)**  
**1971.00 ft (CF)**  
KB to GR/CF: **10.00 ft**

**Serial #: 6769**      **Inside**  
Press@RunDepth: **1293.86 psig @ 3887.01 ft (KB)**  
Start Date: **2006.03.20**      End Date: **2006.03.20**  
Start Time: **00:18:40**      End Time: **12:10:23**  
Capacity: **7000.00 psig**  
Last Calib.: **2006.03.20**  
Time On Btm: **2006.03.20 @ 03:30:38**  
Time Off Btm: **2006.03.20 @ 06:17:53**

**TEST COMMENT:** FP - BOB on opening GTS 4 min. no sample taken  
ISI - never bled off  
FFP - BOB on opening  
FSI - never bled off



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1877.29	103.06	Initial Hydro-static
1	1029.61	102.69	Open To Flow (1)
16	1041.59	116.28	Shut-in(1)
46	1292.69	114.88	End Shut-in(1)
47	1124.45	115.10	Open To Flow (2)
102	1293.86	115.30	Shut-in(2)
168	1295.78	114.78	End Shut-in(2)
168	1855.28	114.99	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
125.00	MW 50% W, 50% M	0.61
2080.00	WATER 100%	28.17
30.00	SOCW 10% G, 5% O, 85% W	0.42
500.00	OCW 10% O, 90% W	7.01
125.00	HOCM 10% G, 25% O, 65% M	1.75

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.13	1.00	5.76
Max. Gas Rate	0.25	5.00	30.78



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

VJI Natural Resources  
1584 Smokey Hill River Rd.  
Hays, KS 67601

Ward Feed Yard

25-21s-16w/Pawnee

Job Ticket: 24309

DST#: 2

ATTN: Bob Stozle

Test Start: 2006.03.20 @ 00:18:40

### Tool Information

Drill Pipe:	Length: 3657.00 ft	Diameter: 3.80 inches	Volume: 51.30 bbl	Tool Weight: 2500.00 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 52.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3886.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	3902.02 ft			
Interval between Packers:	16.02 ft			
Tool Length:	109.03 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:	GTS 4 min.			

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut in Tool	5.00			3871.00	
Hydraulic tool	5.00			3876.00	
Packer	5.00			3881.00	20.00 Bottom Of Top Packer
Packer	5.00			3886.00	
Stubb	1.00			3887.00	
Recorder	0.01	6769	Inside	3887.01	
Perforations	14.00			3901.01	
Recorder	0.01	13548	Outside	3901.02	
Blank Off Sub	1.00			3902.02	16.02 Tool Interval
Packer	5.00			3907.02	
C.O. Sub	1.00			3908.02	
Blank Spacing	62.00			3970.02	
C.O. Sub	1.00			3971.02	
Perforations	1.00			3972.02	
Recorder	0.01	13760	Below	3972.03	
Bullnose	3.00			3975.03	73.01 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>109.03</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

VJI Natural Resources

**Ward Feed Yard**

1584 Smokey Hill River Rd.  
Hays, KS 67601

**25-21s-16w/Pawnee**

Job Ticket: 24309

**DST#: 2**

ATTN: Bob Stozle

Test Start: 2006.03.20 @ 00:18:40

**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: 42.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.33 in<sup>3</sup>

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
125.00	MV 50% W, 50% M	0.615
2080.00	WATER 100%	28.166
30.00	SOCW 10% G, 5% O, 85% W	0.421
500.00	OCW 10% O, 90% W	7.014
125.00	HOCM 10% G, 25% O, 65% M	1.753

Total Length: 2860.00 ft

Total Volume: 37.969 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

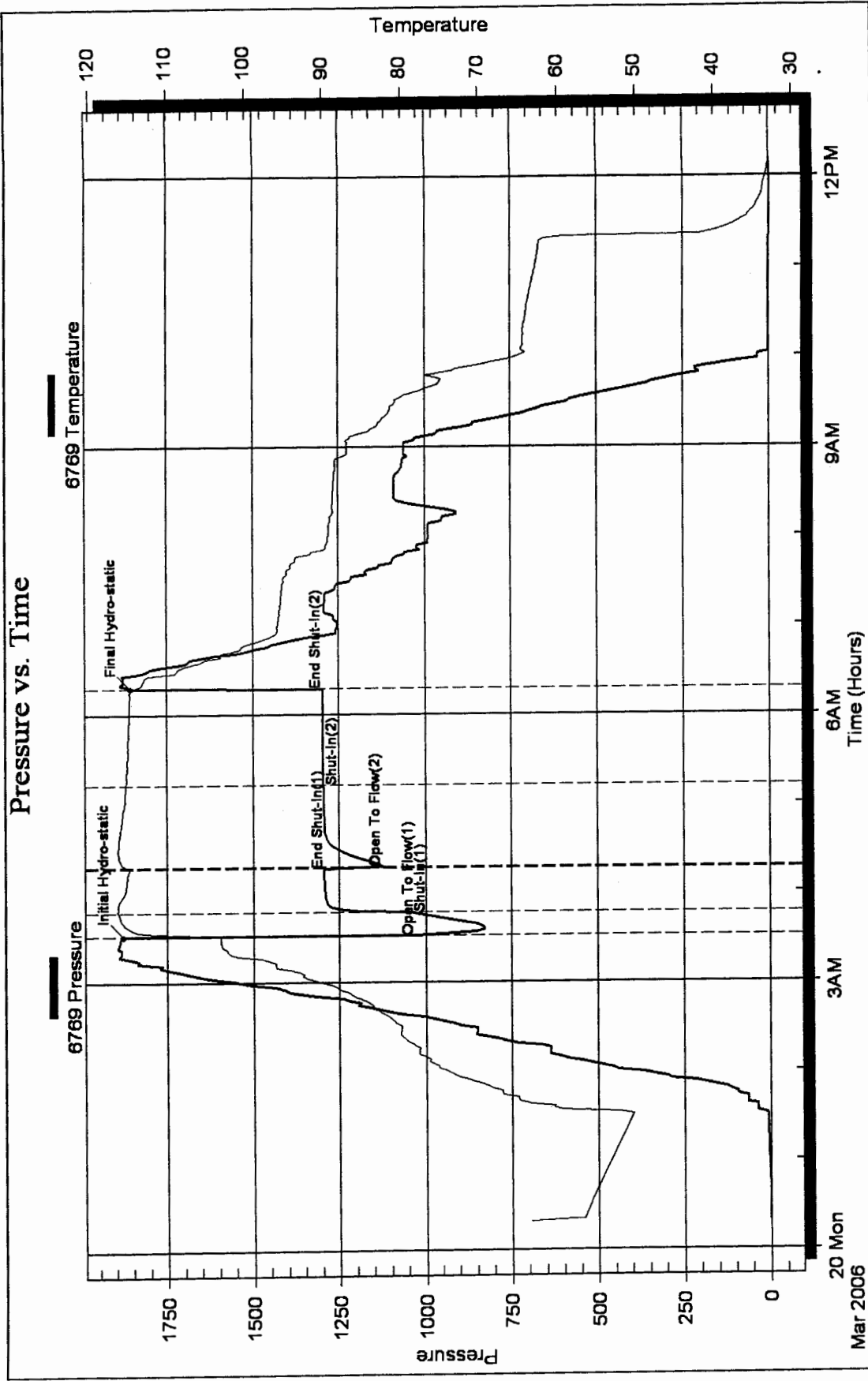
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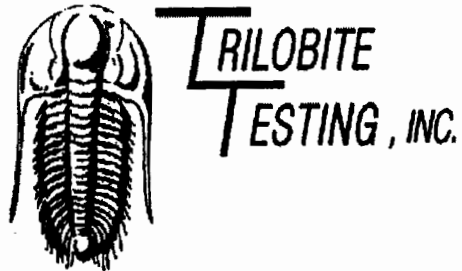
Inside

V/JI Natural Resources

25-21s-16w / Pawnee

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **VJI Natural Resources**

1584 Smokey Hill River Rd.  
Hays, KS 67601

ATTN: Bob Stozle

**25-21s-16w/Pawnee**

**Ward Feed Yard**

Start Date: 2006.03.20 @ 12:18:53

End Date: 2006.03.20 @ 23:44:53

Job Ticket #: 24310                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

VJI Natural Resources

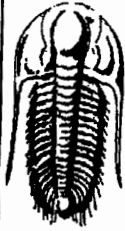
Ward Feed Yard

25-21s-16w/Pawnee

DST # 3

Viola

2006.03.20



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

VJI Natural Resources  
1584 Smokey Hill River Rd.  
Hays, KS 67601  
ATTN: Bob Stozle

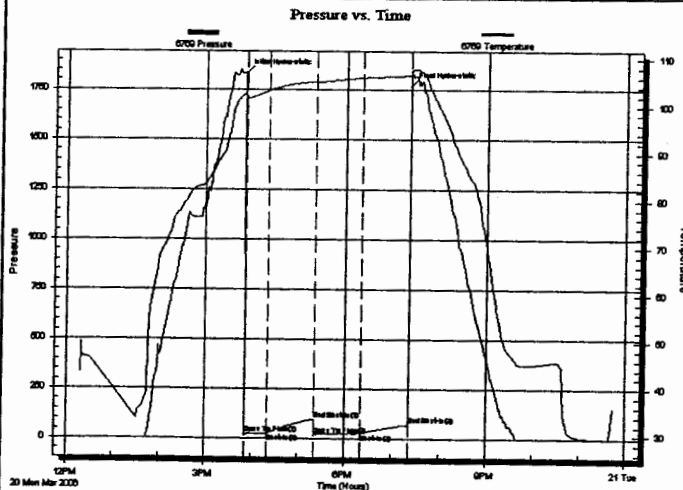
**Ward Feed Yard**  
**25-21s-16w/Pawnee**  
Job Ticket: 24310      **DST#: 3**  
Test Start: 2006.03.20 @ 12:18:53

## GENERAL INFORMATION:

Formation: **Viola**  
Deviated: **No Whipstock**      ft (KB)  
Time Tool Opened: 15:51:23  
Time Test Ended: 23:44:53  
Interval: **3768.00 ft (KB) To 3810.00 ft (KB) (TVD)**  
Total Depth: **3974.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Straddle**  
Tester: **Brian Fairbank**  
Unit No: **24**  
Reference Elevations: **1981.00 ft (KB)**  
**1971.00 ft (CF)**  
KB to GR/CF: **10.00 ft**

**Serial #: 6769**      **Inside**  
Press@RunDepth: **24.99 psig @ 3770.01 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2006.03.20**      End Date: **2006.03.20**      Last Calib.: **2006.03.20**  
Start Time: **12:18:55**      End Time: **23:44:53**      Time On Btrr: **2006.03.20 @ 15:51:08**  
Time Off Btrr: **2006.03.20 @ 19:21:38**

**TEST COMMENT:** IFP - weak to good blow - 1" - 9"  
ISI - no blow back  
FFP - weak to fair blow - 2 - 4 1/2"  
FSI - no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1831.00	102.81	Initial Hydro-static
1	22.16	101.78	Open To Flow (1)
30	25.08	103.37	Shut-In(1)
90	97.90	105.31	End Shut-In(1)
91	20.25	105.20	Open To Flow (2)
150	24.99	106.05	Shut-In(2)
211	71.04	106.60	End Shut-In(2)
211	1766.74	107.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	drill mud	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

VJI Natural Resources  
1584 Smokey Hill River Rd.  
Hays, KS 67601  
  
ATTN: Bob Stozle

Ward Feed Yard  
25-21s-16w/Pawnee  
Job Ticket: 24310      DST#: 3  
Test Start: 2006.03.20 @ 12:18:53

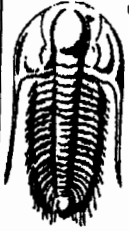
### Tool Information

Drill Pipe:	Length: 3524.00 ft	Diameter: 3.80 inches	Volume: 49.43 bbl	Tool Weight: 2500.00 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: 236.00 ft	Diameter: 2.25 inches	Volume: 1.16 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 50.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3768.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	3806.02 ft			
Interval between Packers:	38.02 ft			
Tool Length:	234.03 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:  
280' GP

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

S.I Tool	5.00			3746.00	
HYD S.I Tool	5.00			3751.00	
Jars	5.00			3756.00	
Safety Joint	2.00			3758.00	
Packer	5.00			3763.00	27.00      Bottom Of Top Packer
Packer	5.00			3768.00	
Stubb	1.00			3769.00	
Perforations	1.00			3770.00	
Recorder	0.01	6769	Inside	3770.01	
C.O. Sub	1.00			3771.01	
Blank Spacing	31.00			3802.01	
C.O. Sub	1.00			3803.01	
Perforations	2.00			3805.01	
Recorder	0.01	13546	Outside	3805.02	
Blank Off Sub	1.00			3806.02	38.02      Tool Interval
Packer	5.00			3811.02	
Stubb	1.00			3812.02	
C.O. Sub	1.00			3813.02	
Blank Spacing	155.00			3968.02	
C.O. Sub	1.00			3969.02	
Perforations	3.00			3972.02	
Recorder	0.01	13760	Below	3972.03	
Bullnose	3.00			3975.03	169.01      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>234.03</b>				



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

VJI Natural Resources

**Ward Feed Yard**

1584 Smokey Hill River Rd.  
Hays, KS 67601

**25-21s-16w/Pawnee**

Job Ticket: 24310

**DST#: 3**

ATTN: Bob Stozle

Test Start: 2006.03.20 @ 12:18:53

**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: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.35 in<sup>3</sup>

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	drill 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:

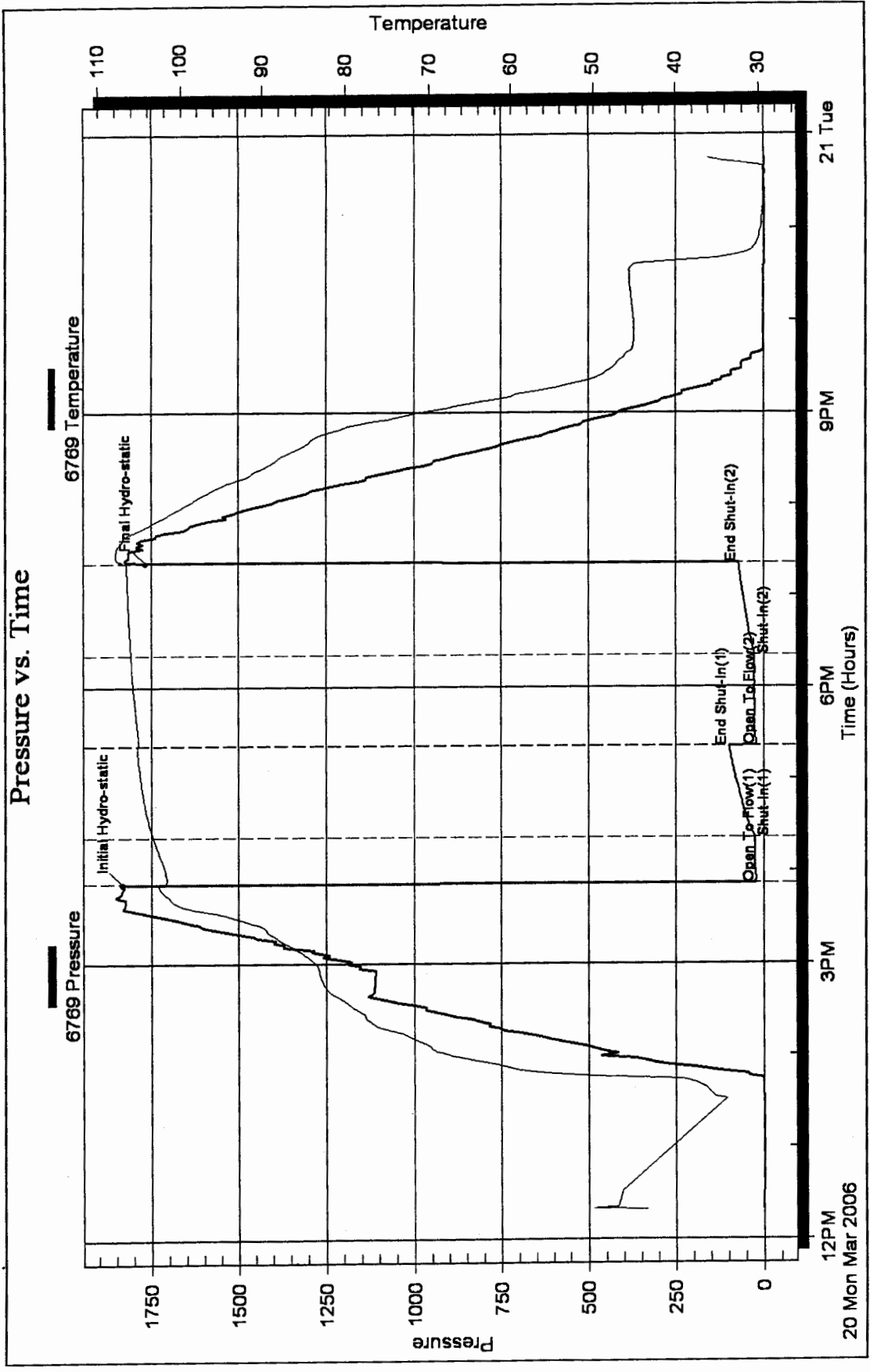
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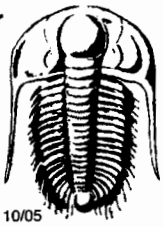
Inside

VJI Natural Resources

25-21s-16w/Pawnee

DST Test Number: 3





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8542  
No 24308

## Test Ticket

Well Name & No. Ward Feed Yard Test No. 1 Date 3-18-06  
 Company VSI Natural Resources Zone Tested Arbuckle  
 Address 1584 Smokey Hill River Rd. Hays, KS 67601 Elevation 1981 KB 1971 GL  
 Co. Rep / Geo. Bob Stolzle Rig Warren #8  
 Location: Sec. 25 Twp. 21<sup>s</sup> Rge. 16<sup>w</sup> Co. Pawnee State K  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3854-3875 Initial Str Wt./Lbs. 58,000 Unseated Str Wt./Lbs. 60,000  
 Anchor Length 21 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000  
 Top Packer Depth 3849 Tool Weight 2500  
 Bottom Packer Depth 3854 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3875 Wt. Pipe Run - Drill Collar Run 236  
 Mud Wt. 9.2 LCM - Vis. 47 WL 8.8 Drill Pipe Size 4 1/2 XH Ft. Run 3614  
 Blow Description IFP - Bob on opening - GTS 2 min - 1/2 @ 38 - 1/2 @ 25  
ISI - never bled off  
FFP 1/2 @ 2 - 1/2 @ 125 - fluid to surface  
FSI never bled off

Recovery - Total Feet 1285 GIP surface Ft. in DC 236 Ft. in DP 1049  
 Rec. 1285 Feet of salt 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 \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 113 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW 126 @ 87 °F Chlorides 50,000 ppm Recovery \_\_\_\_\_ Chlorides 6600 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1871</u> PSI	<u>1871</u> PSI	<u>6769</u>	<u>1000</u>
(B) First Initial Flow Pressure	<u>732</u> PSI	<u>732</u> PSI	<u>3855</u>	<u>250</u>
(C) First Final Flow Pressure	<u>859</u> PSI	<u>859</u> PSI	<u>13548</u>	<u>75</u>
(D) Initial Shut-In Pressure	<u>1286</u> PSI	<u>1286</u> PSI	<u>3872</u>	
(E) Second Initial Flow Pressure	<u>858</u> PSI	<u>858</u> PSI		
(F) Second Final Flow Pressure	<u>1101</u> PSI	<u>1101</u> PSI		
(G) Final Shut-In Pressure	<u>1285</u> PSI	<u>1285</u> PSI	<u>Initial Opening 15</u>	
(Q) Final Hydrostatic Mud	<u>1813</u> PSI	<u>1813</u> PSI	<u>Initial Shut-In 30</u>	
			<u>Final Flow 30</u>	
			<u>Final Shut-In 60</u>	

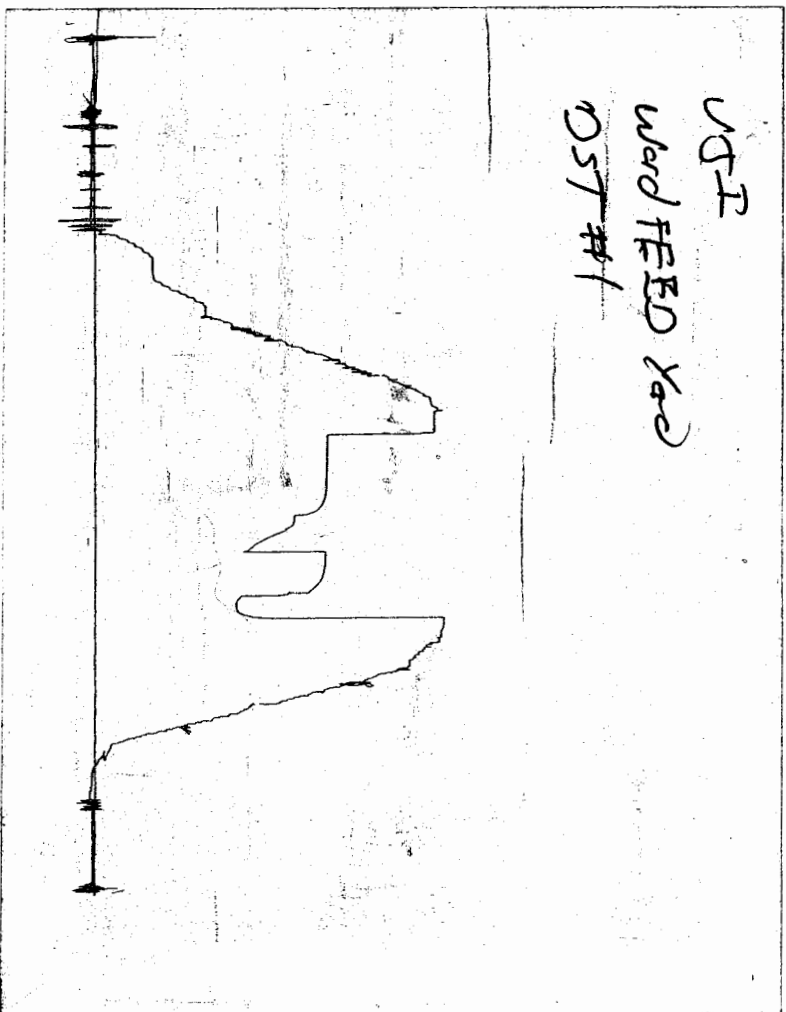
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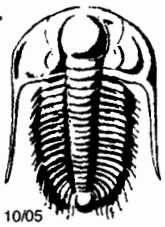
Approved By Robert Stolzle, Agent  
 Our Representative Brian Fairbank

T-On Location	<u>1321</u>	Sub Total:	<u>1487.50</u>
T-Started	<u>1350</u>	Std. By hrs	<u>100</u>
T-Open	<u>1708</u>	Acc. Chg:	
T-Pulled	<u>1923</u>	Other:	
T-Out	<u>2335</u>	Total:	<u>1587.50</u>

**CHART PAGE**

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





# TRILOBITE TESTING INC.

No 24309

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Ward Feed Yard #1 Test No. 2 Date 3-19-06  
 Company VJI Natural Resources Zone Tested Arbuckle (2)  
 Address 1584 Smoky Hill River Rd. Hays, K 67601 Elevation 1981 KB 1971 GL  
 Co. Rep / Geo. Bob Stolzle Rig Warren Rig 8  
 Location: Sec. 25 Twp. 21<sup>s</sup> Rge. 16<sup>w</sup> Co. Pawnee State K  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3886 - 3906 Initial Str Wt./Lbs. 58,000 Unseated Str Wt./Lbs. 70,000  
 Anchor Length 20 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 84,000  
 Top Packer Depth 3881 Tool Weight 2500  
 Bottom Packer Depth 3886 - 3906 Hole Size 7 7/8" Rubber Size 6 3/4"  
 Total Depth 3975 Wt. Pipe Run - Drill Collar Run 236  
 Mud Wt. 9.1 LCM \_\_\_\_\_ Vis. 42 WL 10.4 Drill Pipe Size 4 1/2 XH Ft. Run 3657

Blow Description IFP BOB on opening GTS 4 min no sample taken 1/4 @ 5  
ISI - never bled off  
FFP BOB on opening 1/2 @ 2 psi - 1/4 @ 1 psi  
FST - never bled off

Recovery - Total Feet	GIP	surface	Ft. in DC	Ft. in DP
<u>2860</u>			<u>236</u>	<u>2624</u>
Rec. <u>125</u>	Feet of <u>MW</u>	%gas	%oil	<u>50</u> %water <u>50</u> %mud
Rec. <u>2080</u>	Feet of <u>water</u>	%gas	%oil	<u>100</u> %water %mud
Rec. <u>30 30</u>	Feet of <u>SOCW</u>	<u>10</u> %gas	<u>5</u> %oil	<u>85</u> %water %mud
Rec. <u>500 500</u>	Feet of <u>SOB &amp; SOCW</u>	<u>10</u> %gas	<u>10</u> %oil <u>90</u> %water	%mud
Rec. <u>125</u>	Feet of <u>HOCM</u>	<u>10</u> %gas	<u>25</u> %oil	%water <u>65</u> %mud
BHT <u>114</u>	°F Gravity	°API D @	°F Corrected Gravity	°API
RW <u>1420</u>	@ <u>56</u> °F	Chlorides <u>20000</u> ppm	Recovery	Chlorides <u>6000</u> ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1886</u> PSI	<u>1886</u> PSI	<u>6769</u>	<u>1000</u>
(B) First Initial Flow Pressure	<u>1029</u> PSI	<u>1029</u> PSI	<u>3887</u>	Jars <u>150</u>
(C) First Final Flow Pressure	<u>1041</u> PSI	<u>1041</u> PSI	<u>13546</u>	Safety Jt. <u>75</u>
(D) Initial Shut-In Pressure	<u>1292</u> PSI	<u>1292</u> PSI	<u>3901</u>	Circ Sub <u>✓</u>
(E) Second Initial Flow Pressure	<u>1124</u> PSI	<u>1124</u> PSI	<u>13760</u>	Sampler _____
(F) Second Final Flow Pressure	<u>1293</u> PSI	<u>1293</u> PSI	<u>3972</u>	Straddle <u>✓</u> <u>350</u>
(G) Final Shut-In Pressure	<u>1295</u> PSI	<u>1295</u> PSI	<u>15</u>	Ext. Packer <u>✓</u> <u>200</u>
(Q) Final Hydrostatic Mud	<u>1879</u> PSI	<u>1879</u> PSI	<u>30</u>	Shale Packer _____

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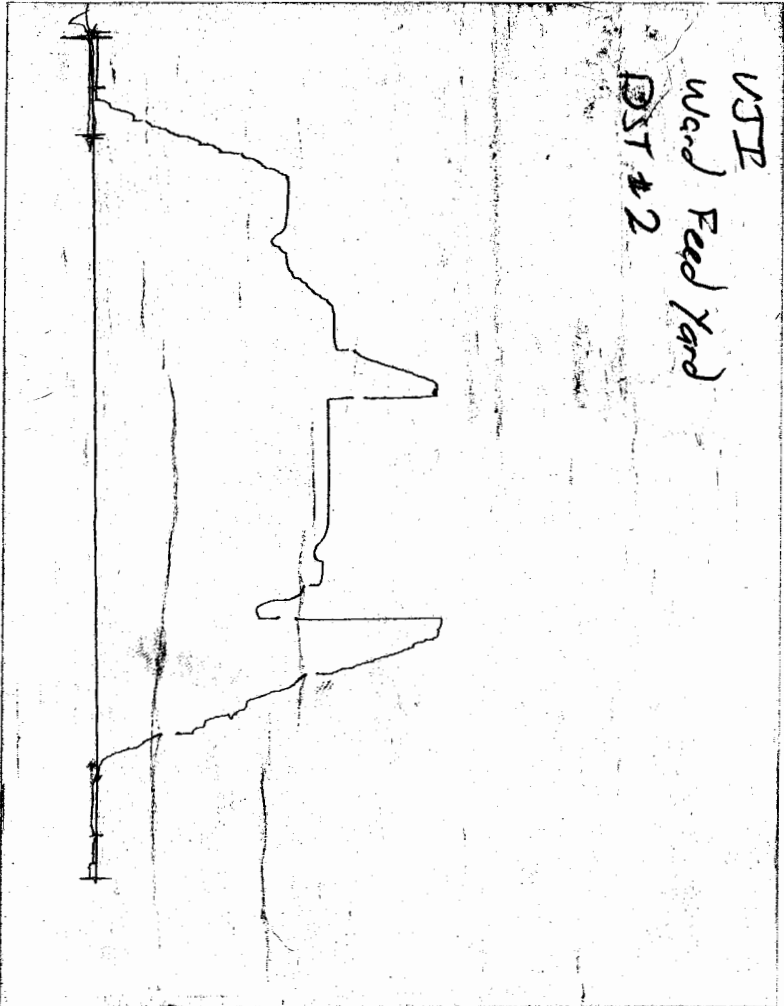
Approved By \_\_\_\_\_

Our Representative Brian Fairbank (Hals)

T-On Location 2330  
 T-Started 0018  
 T-Open 0327  
 T-Pulled 0612  
 T-Out 1210

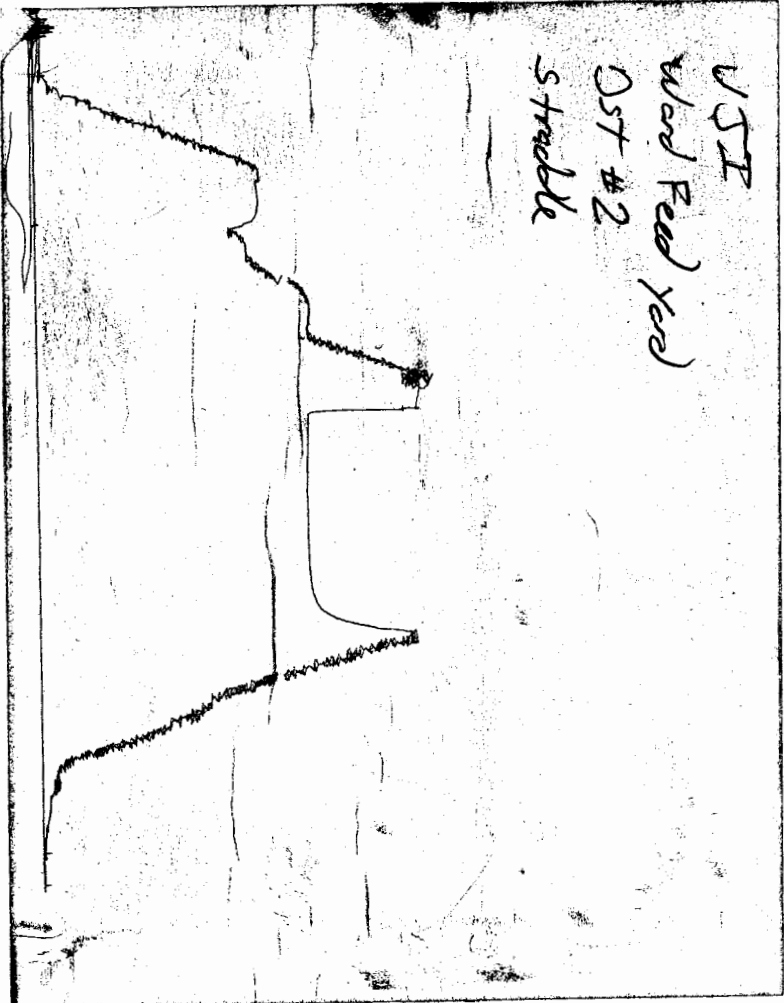
Recorder No. 6769 Test ✓ 1000  
 (depth) 3887 Jars ✓ 150  
 Recorder No. 13546 Safety Jt. ✓ 75  
 (depth) 3901 Circ Sub ✓  
 Recorder No. 13760 Sampler \_\_\_\_\_  
 (depth) 3972 Straddle ✓ 350  
 Initial Opening 15 Ext. Packer ✓ 200  
 Initial Shut-In 30 Shale Packer \_\_\_\_\_  
 Final Flow 60 Ruined Packer \_\_\_\_\_ 1625  
 Final Shut-In 60 Mileage ✓ 1307  
 T-On Location 2330 Sub Total: 12037.70  
 T-Started 0018 Std. By 4.75 200  
 T-Open 0327 Acc. Chg: 56.2  
 T-Pulled 0612 Other: \_\_\_\_\_  
 T-Out 1210 Total: 2293.70

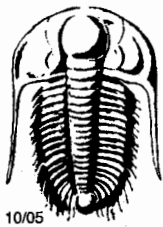
**CHART PAGE**  
This is a photocopy of the actual AK-1 recorder chart.



**CHART PAGE**

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





# TRILOBITE TESTING INC.

No 24310

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

Well Name & No. Ward Feed Yard #1 Test No. 3 Date 3-20-06  
 Company UJI Natural Resources Zone Tested Viola  
 Address 1584 Smokey Hill River Rd. Hays Ks 67601 Elevation 1981 KB 1971 GL  
 Co. Rep / Geo. Bob Stoble Rig Warren Rig 8  
 Location: Sec. 25 Twp. 21<sup>s</sup> Rge. 16<sup>w</sup> Co. Pownee State Ks  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 3768-3810 Initial Str Wt./Lbs. 57,000 Unseated Str Wt./Lbs. 57,000  
 Anchor Length 42 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 70,000  
 Top Packer Depth 3763 Tool Weight 2500  
 Bottom Packer Depth 3768-3810 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3974 Wt. Pipe Run - Drill Collar Run 236  
 Mud Wt. 9.1 LCM \_\_\_\_\_ Vis. 42 WL 10.4 Drill Pipe Size 4 1/2 X 4 Ft. Run 3524  
 Blow Description FFP - Weak to Good blow 1'-9"  
ISD - no blow back  
FFP - Weak to Fair blow 2"-4 1/2"  
PSD - no blow back

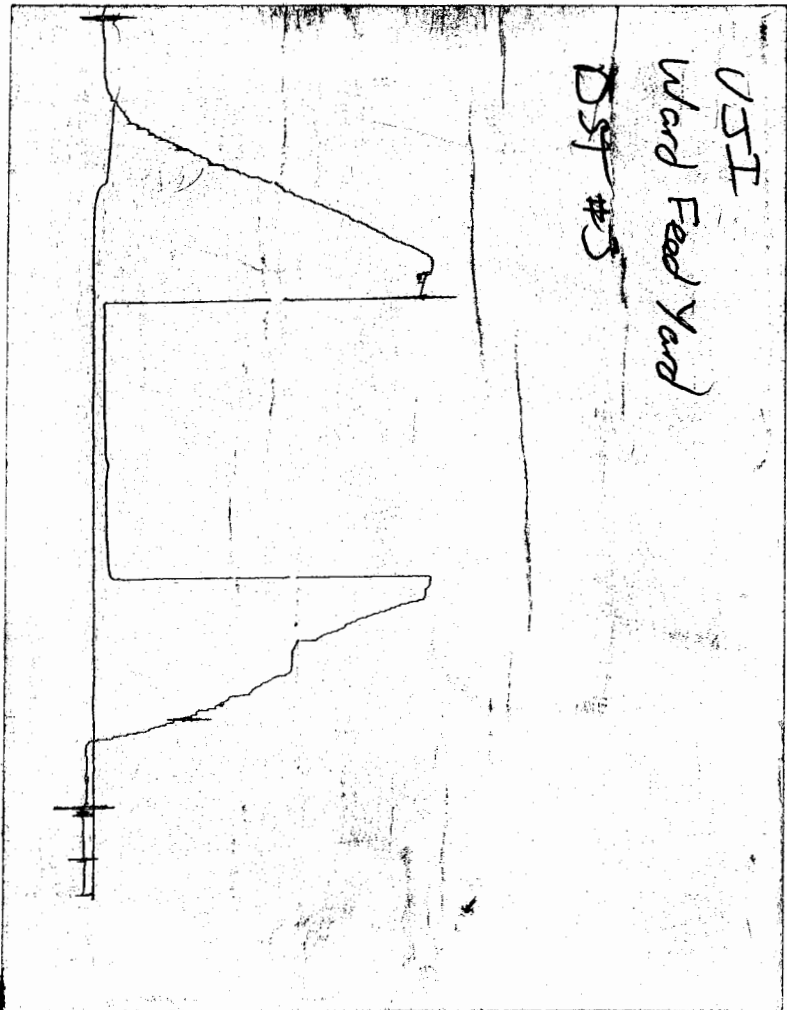
Recovery - Total Feet 10 GIP 280 Ft. in DC 10 Ft. in DP -  
 Rec. 10 Feet of mud %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 106 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery  Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	Recorder No.	6769	Test	✓	1000
(B) First Initial Flow Pressure		1834 PSI	(depth)	3770	Jars	✓	250
(C) First Final Flow Pressure		22 PSI	Recorder No.	13546	Safety Jt.	✓	75
(D) Initial Shut-In Pressure		25 PSI	(depth)	3805	Circ Sub		
(E) Second Initial Flow Pressure		98 PSI	Recorder No.	13760	Sampler		
(F) Second Final Flow Pressure		20 PSI	(depth)	3971	Straddle	✓	350
(G) Final Shut-In Pressure		25 PSI	Initial Opening	30	Ext. Packer	✓	200
(Q) Final Hydrostatic Mud		71 PSI	Initial Shut-In	60	Shale Packer		
		1815 PSI	Final Flow	60	Ruined Packer		
			Final Shut-In	60	Mileage		

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Approved By Robert Stoble, Agent  
 Our Representative Brian Fairbank (Thak)  
 T-On Location \_\_\_\_\_  
 T-Started 1218  
 T-Open 1543  
 T-Pulled 1913  
 T-Out 192345  
 Subtotal: 1875  
 Std. By 3.5 175.00  
 Acc. Chg: \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Total: 2050

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



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