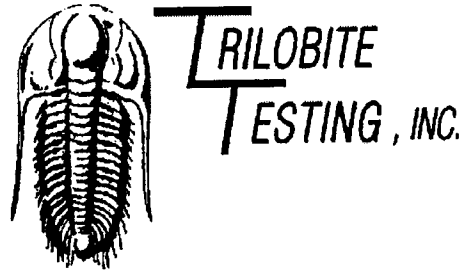


15-165-21793

30-18s-17w



## DRILL STEM TEST REPORT

Prepared For: **VJI Natural Resources Inc**  
1584 Smokey Hill River Rd.  
Hays KS 67601

ATTN: Bob Stolzle

**30 18S 17W Rush KS**

**Zimmer #1**

Start Date: 2006.05.25 @ 07:52:07

End Date: 2006.05.25 @ 15:04:20

Job Ticket #: 24800                      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 Inc  
 1584 Smokey Hill River Rd.  
 Hays KS 67601  
 ATTN: Bob Stozle

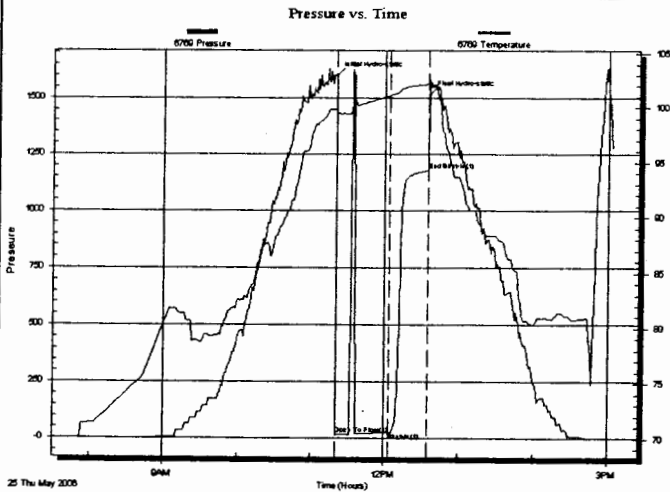
**Zimmer #1**  
**30 18S 17W Rush KS**  
 Job Ticket: 24800      DST#: 1  
 Test Start: 2006.05.25 @ 07:52:07

## GENERAL INFORMATION:

Formation: **LKC "B"**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 11:21:05  
 Time Test Ended: 15:04:20  
 Interval: **3384.00 ft (KB) To 3407.00 ft (KB) (TVD)**  
 Total Depth: 3407.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Brian Fairbank  
 Unit No: 24  
 Reference Elevations: 1999.00 ft (KB)  
 1989.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6769      Inside**  
 Press@RunDepth: 27.53 psig @ 3385.01 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2006.05.25      End Date: 2006.05.25      Last Calib.: 2006.05.25  
 Start Time: 07:52:07      End Time: 15:04:20      Time On Btm: 2006.05.25 @ 11:20:50  
 Time Off Btm: 2006.05.25 @ 12:35:35

**TEST COMMENT:** FP Sur blow flush tool sur 1/8 in  
 ISI No blow  
 TIME 10 flush 30 30



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1602.16	99.88	Initial Hydro-static
1	17.04	99.44	Open To Flow (1)
43	27.53	101.13	Shut-in(1)
75	1177.48	102.20	End Shut-in(1)
75	1514.78	102.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

VJI Natural Resources Inc

**Zimmer #1**

1584 Smokey Hill River Rd.  
Hays KS 67601

**30 18S 17W Rush KS**

Job Ticket: 24800

**DST#: 1**

ATTN: Bob Stolze

Test Start: 2006.05.25 @ 07:52:07

### Tool Information

Drill Pipe:	Length: 3034.00 ft	Diameter: 3.80 inches	Volume: 42.56 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: 356.00 ft	Diameter: 2.25 inches	Volume: 1.75 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 44.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3384.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.02 ft			
Tool Length:	50.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3362.00	
HYD S.I. Tool	5.00			3367.00	
Jars	5.00			3372.00	
Safety Joint	2.00			3374.00	
Packer	5.00			3379.00	27.00 Bottom Of Top Packer
Packer	5.00			3384.00	
Stubb	1.00			3385.00	
Recorder	0.01	6769	Inside	3385.01	
Perforations	19.00			3404.01	
Recorder	0.01	13548	Outside	3404.02	
Bullnose	3.00			3407.02	23.02 Bottom Packers & Anchor

**Total Tool Length: 50.02**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

VJI Natural Resources Inc

**Zimmer #1**

1584 Smokey Hill River Rd.  
Hays KS 67601

**30 18S 17W Rush KS**

Job Ticket: 24800

**DST#: 1**

ATTN: Bob Stozle

Test Start: 2006.05.25 @ 07:52:07

**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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.95 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	100%M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

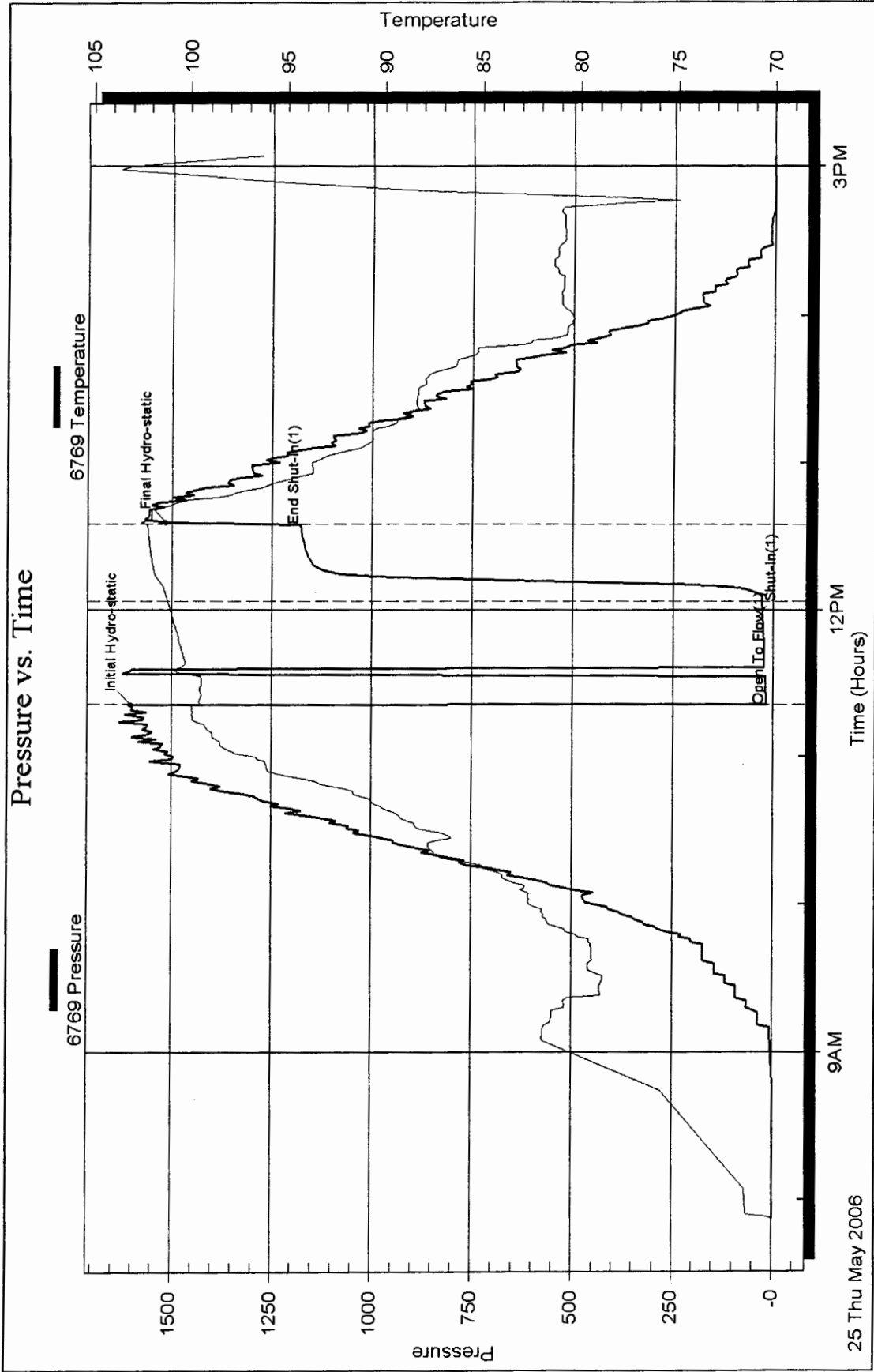
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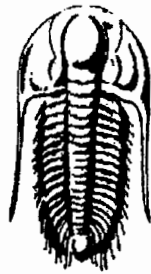
Inside

V/JI Natural Resources Inc

30 18S 17W Rush KS

DST Test Number: 1





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **VJI Natural Resources Inc**

1584 Smokey Hill River Rd.  
Hays KS 67601

ATTN: Bob Stolze

**30 18S 17W Rush KS**

**Zimmer #1**

Start Date: 2006.05.26 @ 18:26:59

End Date: 2006.05.27 @ 06:22:12

Job Ticket #: 25051                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

VJI Natural Resources Inc

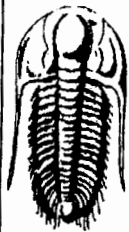
Zimmer #1

30 18S 17W Rush KS

DST # 2

Arbuckle

2006.05.26



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

V/J Natural Resources Inc

**Zimmer #1**

1584 Smokey Hill River Rd.  
Hays KS 67601

**30 18S 17W Rush KS**

Job Ticket: 25051      DST#: 2

ATTN: Bob Stolze

Test Start: 2006.05.26 @ 18:26:59

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 22:22:12  
 Time Test Ended: 06:22:12  
 Interval: **3685.00 ft (KB) To 3750.00 ft (KB) (TVD)**  
 Total Depth: 3750.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Brian Fairbank  
 Unit No: 24  
 Reference Elevations: 1999.00 ft (KB)  
 1989.00 ft (CF)  
 KB to GR/CF: 10.00 ft

## Serial #: 6769

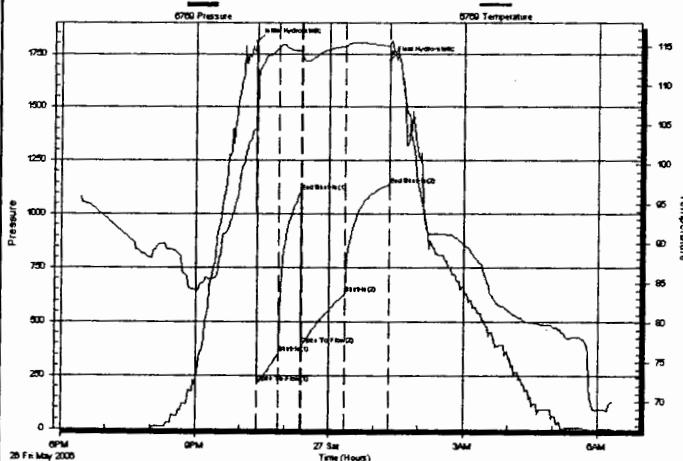
Inside

Press@RunDepth: 629.84 psig @ 3692.01 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2006.05.26      End Date: 2006.05.27      Last Calib.: 2006.05.27  
 Start Time: 18:26:59      End Time: 06:22:12      Time On Btm: 2006.05.26 @ 22:21:42  
 Time Off Btm: 2006.05.27 @ 01:20:57

## TEST COMMENT:

FP BOB 2"  
 ISI 1 in blow back  
 FFP BOB 2"  
 FSI 6 1/2 in blow back

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1805.94	104.56	Initial Hydro-static
1	213.31	104.44	Open To Flow (1)
30	351.13	114.83	Shut-in(1)
61	1101.93	114.42	End Shut-in(1)
62	391.89	113.76	Open To Flow (2)
120	629.84	115.01	Shut-in(2)
180	1137.26	115.04	End Shut-in(2)
180	1719.89	115.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
390.00	MCO 75%O 25%M	3.30
1175.00	FREE OIL 20%G 75%O 5%M	16.48

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

V.JI Natural Resources Inc  
1584 Smokey Hill River Rd.  
Hays KS 67601  
ATTN: Bob Stozle

**Zimmer #1**  
**30 18S 17W Rush KS**  
Job Ticket: 25051      DST#: 2  
Test Start: 2006.05.26 @ 18:26:59

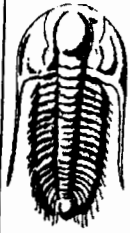
**Tool Information**

Drill Pipe:	Length: 3439.00 ft	Diameter: 3.80 inches	Volume: 48.24 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: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 49.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3685.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.02 ft			
Tool Length:	92.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3663.00	
HYD S.I. Tool	5.00			3668.00	
Jars	5.00			3673.00	
Safety Joint	2.00			3675.00	
Packer	5.00			3680.00	27.00      Bottom Of Top Packer
Packer	5.00			3685.00	
Stubb	1.00			3686.00	
Perforations	5.00			3691.00	
C.O. Sub	1.00			3692.00	
Recorder	0.01	6769	Inside	3692.01	
Blank Spacing	31.00			3723.01	
C.O. Sub	1.00			3724.01	
Perforations	23.00			3747.01	
Recorder	0.01	13548	Outside	3747.02	
Bullnose	3.00			3750.02	65.02      Bottom Packers & Anchor

**Total Tool Length: 92.02**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

VJI Natural Resources Inc

**Zimmer #1**

1584 Smokey Hill River Rd.  
Hays KS 67601

**30 18S 17W Rush KS**

Job Ticket: 25051

**DST#: 2**

ATTN: Bob Stolze

Test Start: 2006.05.26 @ 18:26:59

## 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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 14.56 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 11000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
390.00	MCO 75%O 25%M	3.303
1175.00	FREE OIL 20%G 75%O 5%M	16.482

Total Length: 1565.00 ft      Total Volume: 19.785 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6769

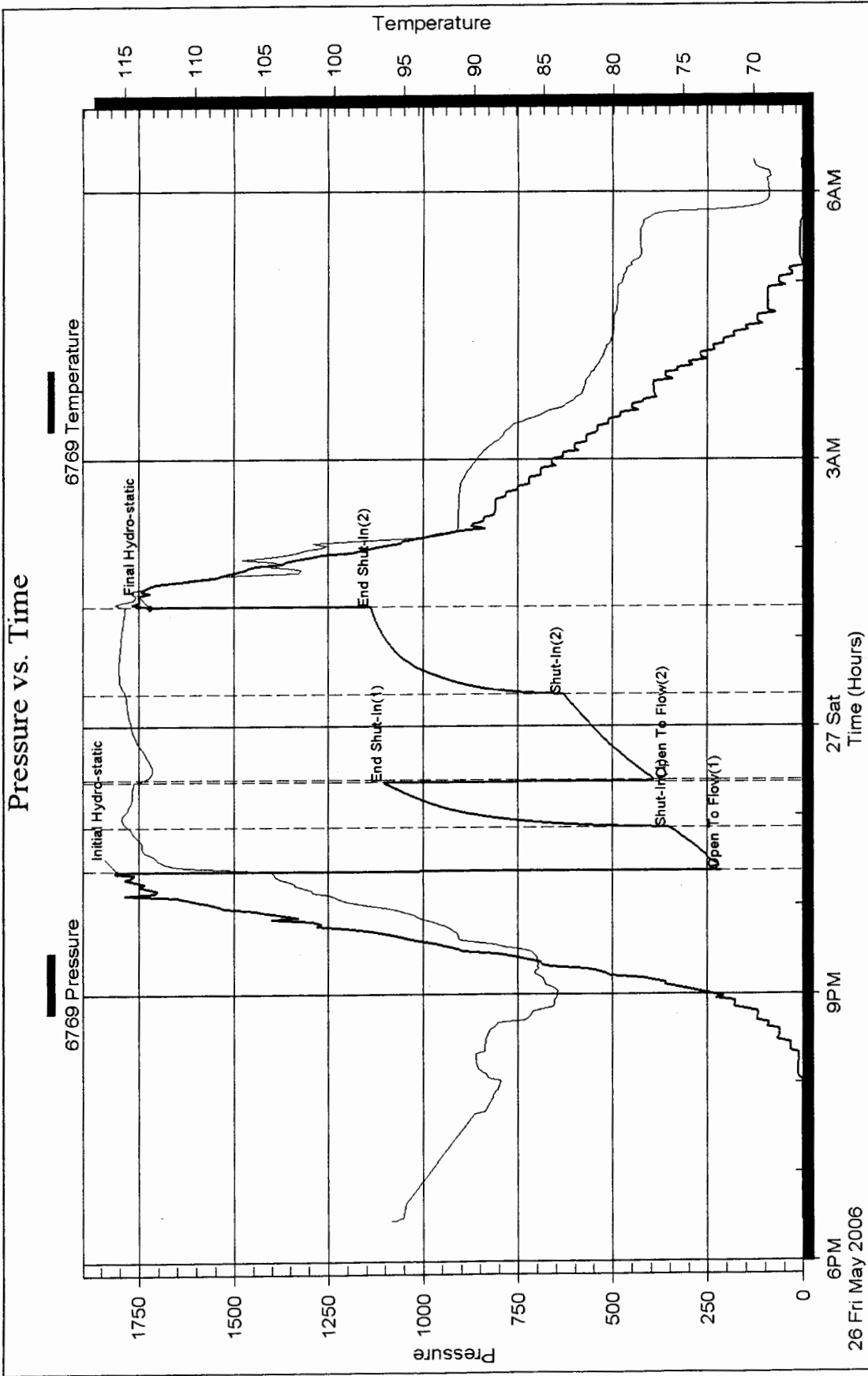
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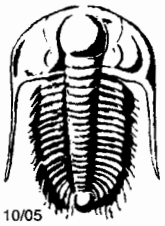
V/JI Natural Resources Inc

30 18S 17W Rush KS

DST Test Number: 2

### Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8819

No 24800

## Test Ticket

Well Name & No. Zimmer #1 Test No. 1 Date 5-25-06  
 Company VSI Zone Tested LKC "B"  
 Address 1584 Smokey Hill River Rd Hays, K 67601 Elevation 1999 KB 1989 GL  
 Co. Rep / Geo. Bob Stolzle Rig Warren #9  
 Location: Sec. 30 Twp. 18<sup>s</sup> Rge. 17<sup>w</sup> Co. Rush State K  
 Comment: Started out of hole 0430 - got to collars 0750 Release date / time: \_\_\_\_\_

Interval Tested 3384-3407 Initial Str Wt./Lbs. 58,000 Unseated Str Wt./Lbs. 58,000  
 Anchor Length 23 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 64,000  
 Top Packer Depth 3379 Tool Weight 2500  
 Bottom Packer Depth 3384 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3407 Wt. Pipe Run - Drill Collar Run 356  
 Mud Wt. 8.9 LCM \_\_\_\_\_ Vis. 61 WL 12.0 Drill Pipe Size 4 1/2 XH Ft. Run 3034  
 Blow Description IFP - sur blow flush tool after 10 min sur - 1/8  
ISI - no blow back  
FFP - -  
FSI - -

Recovery - Total Feet 5 GIP - Ft. in DC 5 Ft. in DP -  
 Rec. 5 Feet of 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 \_\_\_\_\_  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas \_\_\_\_\_ %oil \_\_\_\_\_ %water \_\_\_\_\_ %mud \_\_\_\_\_  
 BHT 102 °F Gravity \_\_\_\_\_ °API D @ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 6500 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1569</u>	PSI	<u>6769</u>	<u>1000</u>
(B) First Initial Flow Pressure	<u>17</u>	PSI	(depth) <u>3385</u>	Jars <u>250</u>
(C) First Final Flow Pressure	<u>28</u>	PSI	Recorder No. <u>13548</u>	Safety Jt. <u>75</u>
(D) Initial Shut-In Pressure	<u>1177</u>	PSI	(depth) <u>3404</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>-</u>	PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>-</u>	PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>-</u>	PSI	Initial Opening <u>10 flush 30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1557</u>	PSI	Initial Shut-In <u>30</u>	Shale Packer _____

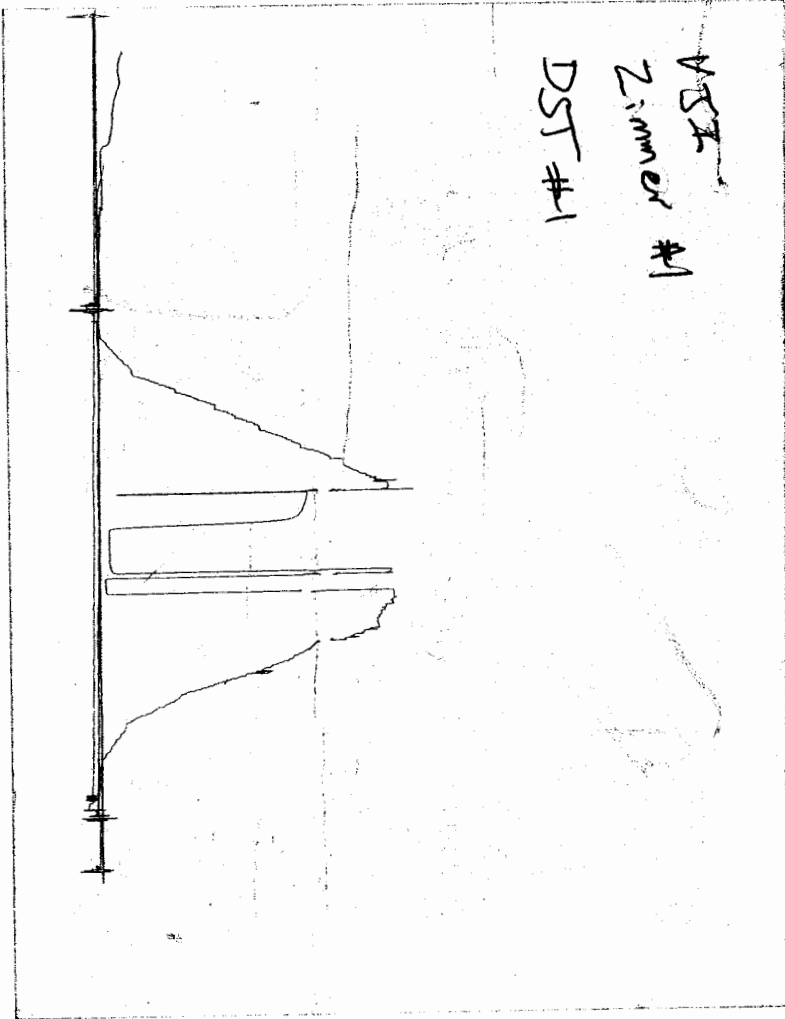
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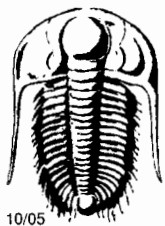
Approved By \_\_\_\_\_  
 Our Representative Brian Fairbairn (Thaly)

Final Flow \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  
 T-On Location 0316  
 T-Started 0752  
 T-Open 1120  
 T-Pulled 1235  
 T-Out 1504  
 Ruined Packer \_\_\_\_\_  
 Mileage 102.50  
 Sub Total: 1427.50  
 Std. By 3.75 187.50  
 Acc. Chg: \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Total: 81615

**CHART PAGE**

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25051

## Test Ticket

Well Name & No. Zimmer #1 Test No. 2 Date 5-26-06  
 Company VSI Zone Tested Arbuckle  
 Address 1584 Smokey Hill River Rd. Hays, KS 67601 Elevation 1999 KB 1989 GL  
 Co. Rep / Geo. Bob Stolze Rig Warren #9  
 Location: Sec. 30 Twp. 18<sup>s</sup> Rge. 17<sup>w</sup> Co. Rush State K  
 Comment: worked on rig 30" coming out w/ bit Release date / time: \_\_\_\_\_

Interval Tested 3685-3750 Initial Str Wt./Lbs. 54,000 Unseated Str Wt./Lbs. 62,000  
 Anchor Length 65 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 78,000  
 Top Packer Depth 3680 Tool Weight 2500  
 Bottom Packer Depth 3685 Hole Size 7 7/8" - Rubber Size 6 3/4" -  
 Total Depth 3750 Wt. Pipe Run - Drill Collar Run ~~338~~ 238  
 Mud Wt. 8.9 LCM \_\_\_\_\_ Vis. 46 WL 14.6 Drill Pipe Size 4 1/2 x 4 Ft. Run ~~3385~~ 3439

Blow Description FFP- BOB 2 min  
ISI- 1" blow back  
FFP- BOB 2 min  
PSI- 6 1/2" blow back

Recovery - Total Feet 1565 GIP 240 Ft. in DC 238 Ft. in DP 1327  
 Rec. 1175 Feet of free oil 20% gas 75% oil %water 5 %mud  
 Rec. 390 Feet of MCO %gas 75% oil %water 25 %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 BHT 115 °F Gravity 44 °API D @ 70 °F Corrected Gravity 45 °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery \_\_\_\_\_ Chlorides 11,000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud		<u>1764</u> PSI	<u>6769</u>	<input checked="" type="checkbox"/> <u>1000</u>
(B) First Initial Flow Pressure		<u>213</u> PSI	(depth) <u>3692</u>	Jars <input checked="" type="checkbox"/> <u>250</u>
(C) First Final Flow Pressure		<u>351</u> PSI	Recorder No. <u>13548</u>	Safety Jt. <input checked="" type="checkbox"/> <u>75</u>
(D) Initial Shut-In Pressure		<u>1102</u> PSI	(depth) <u>3747</u>	Circ Sub _____
(E) Second Initial Flow Pressure		<u>392</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure		<u>630</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure		<u>1137</u> PSI	Initial Opening <u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud		<u>1748</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____

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Approved By Robert Stolze  
 Our Representative Brian Fairbairn (Thanks)

Final Flow	<u>60</u>	Ruined Packer	<u>102.50</u>
Final Shut-In	<u>60</u>	Mileage <input checked="" type="checkbox"/>	<u>82X</u>
T-On Location	<u>1624</u>	Sub Total:	<u>1427.50</u>
T-Started	<u>1826</u>	Std. By <u>5.75</u>	<u>200.00</u>
T-Open	<u>2222</u>	Acc. Chg:	<u>131.25</u>
T-Pulled	<u>0122</u>	Other:	_____
T-Out	<u>0622</u>	Total:	<u><u>1758.75</u></u>

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

