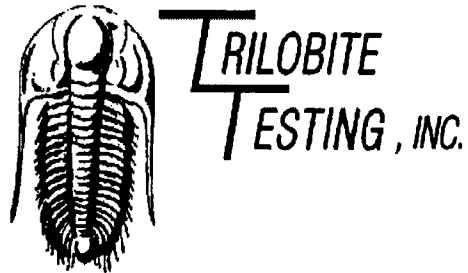


15-151-22196

27-26s-11w



## DRILL STEM TEST REPORT

Prepared For: **Nash Oil & Gas, Inc.**

P.O.Box 8747  
Pratt, KS 67124-8747

ATTN: Bob Stolze

**27-26S-11W Pratt**

**J.C.#1**

Start Date: 2003.04.17 @ 07:08:24

End Date: 2003.04.17 @ 13:42:09

Job Ticket #: 16897                      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

Nash Oil & Gas, inc.  
P.O.Box 8747  
Pratt, KS 67124-8747  
ATTN: Bob Stolze

**J.C.#1**  
**27-26S-11W Pratt**  
Job Ticket: 16897      **DST#: 1**  
Test Start: 2003.04.17 @ 07:08:24

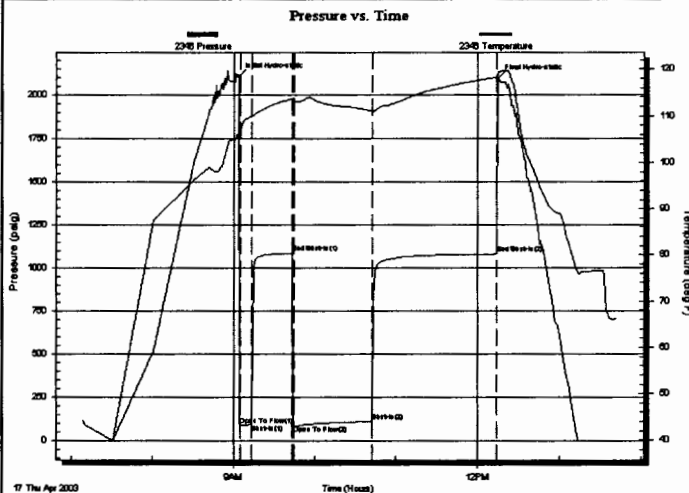
### GENERAL INFORMATION:

Formation: **Viola**  
Deviated: **No** Whipstock:                      ft (KB)      Test Type: **Conventional Bottom Hole**  
Time Tool Opened: 09:05:09      Tester: **Darren L.Amerine**  
Time Test Ended: 13:42:09      Unit No: **19**

Interval: **4290.00 ft (KB) To 4310.00 ft (KB) (TVD)**      Reference Elevations:      **1818.00 ft (KB)**  
Total Depth: **4310.00 ft (KB) (TVD)**      **1810.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**      KB to GR/CF:      **8.00 ft**

**Serial #: 2346**      **Inside**  
Press@RunDepth:      **110.09 psig @ 4291.00 ft (KB)**      Capacity:      **7000.00 psig**  
Start Date:      **2003.04.17**      End Date:      **2003.04.17**      Last Calib.:      **1899.12.30**  
Start Time:      **07:08:26**      End Time:      **13:42:09**      Time On Btm:      **2003.04.17 @ 09:03:39**  
Time Off Btm:      **2003.04.17 @ 12:14:39**

**TEST COMMENT:** F:Strong blow b.o.b in 15 sec.GTS in 4 mins.gauge gas.  
IS:Bled down n for 10 mins.no blow back.  
FF:Strong blow b.o.b in 10 sec.gauge gas.  
FS:Bled down n for 20 mins.Very slight surface blow back.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.91	106.38	Initial Hydro-static
2	86.88	107.10	Open To Flow (1)
10	92.83	110.03	Shut-in(1)
40	1085.72	113.69	End Shut-in(1)
41	88.26	113.73	Open To Flow (2)
99	110.09	111.16	Shut-in(2)
191	1080.13	118.28	End Shut-in(2)
191	2093.65	118.65	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
4200.00	01 - Gas	58.91
80.00	G&WCM 6% Gas 79%W 15% mud	1.12

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	8.50	357.69
Last Gas Rate	0.75	14.00	443.60
Max. Gas Rate	0.75	14.00	443.60



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Nash Oil & Gas, inc.  
P.O.Box 8747  
Pratt, KS 67124-8747  
ATTN: Bob Stolze

**J.C.#1**  
**27-26S-11W Pratt**  
Job Ticket: 16897      **DST#: 1**  
Test Start: 2003.04.17 @ 07:08:24

**Tool Information**

Drill Pipe:	Length: 4284.00 ft	Diameter: 3.80 inches	Volume: 60.09 bbl	Tool Weight: 2100.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 48000.00 lb
			<u>Total Volume: 60.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	4290.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	43.00 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			4272.00	
HMV	5.00			4277.00	
Safety Joint	3.00			4280.00	
Packer	5.00			4285.00	23.00      Bottom Of Top Packer
Packer	5.00			4290.00	
Stubb	1.00			4291.00	
Recorder	0.00	2346	Inside	4291.00	
Anchor	16.00			4307.00	
Recorder	0.00	10991	Outside	4307.00	
Bullnose	3.00			4310.00	20.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Nash Oil & Gas, inc.  
P.O.Box 8747  
Pratt, KS 67124-8747  
ATTN: Bob Stozle

**J.C.#1**  
**27-26S-11W Pratt**  
Job Ticket: 16897      **DST#: 1**  
Test Start: 2003.04.17 @ 07:08:24

## 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: 75000 ppm	
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 1.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.32 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4200.00	01 - Gas	58.915
80.00	G&WCM 6%Gas 79%W 15%mud	1.122

Total Length: 4280.00 ft      Total Volume: 60.037 bbl  
 Num Fluid Samples: 1      Num Gas Bombs: 0      Serial #:  
 Laboratory Name: Caraway      Laboratory Location: Liberal KS  
 Recovery Comments: .05@63'Degrees = 75000 Chlorides

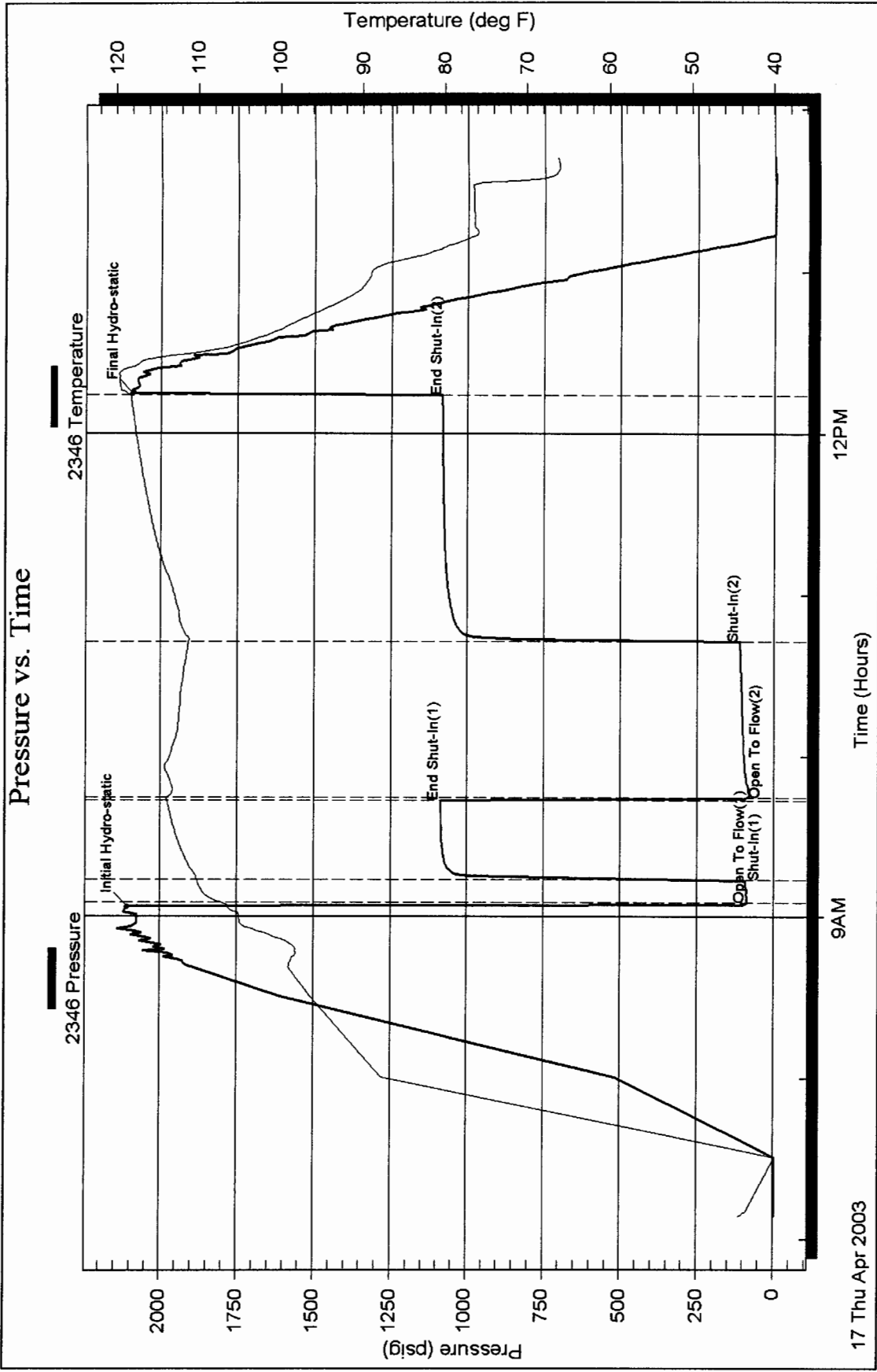
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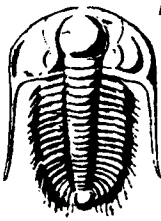
Inside

Nash Oil & Gas, Inc.

27-26S-11W Pratt

DST Test Number: 1





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV #5519

No 16897

## Test Ticket

Well Name & No. J.C. #1 Test No. #1 Date 4-17-03  
 Company Nash Oil & Gas, Inc. P.O. box 8747 Zone Tested V. 0 Lg  
 Address Pratt Ks. 67124-8747 Elevation 1818 KB 1810 GL  
 Co. Rep / Geo. Bob Stolzle Cont. Duke #2 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 27 Twp. 26 S Rge. 11 W Co. Pratt, Co. State Ks  
 No. of Copies 5 Distribution Sheet (Y, N) \_\_\_\_\_ Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) \_\_\_\_\_

Interval Tested 4290' - 4310' Initial Str Wt./Lbs. 38,000 Unseated Str Wt./Lbs. 38,000  
 Anchor Length 20' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 48,000  
 Top Packer Depth 4285' Tool Weight 2100  
 Bottom Packer Depth 4290' Hole Size — 7 7/8"  Rubber Size — 6 3/4"   
 Total Depth 4310' Wt. Pipe Run N/A Drill Collar Run N/A  
 Mud Wt. 9.2 LCM 1/2" Vis. 48 WL 8.8 Drill Pipe Size 4 1/2 x H Ft. Run 4284

Blow Description IF: Strong blow b.o.b in 15 sec. 6 TS in 4 min.  
ISI: Bled down for 10 mins. No blow back.  
FF: Strong blow b.o.b in 10 sec. Gauge Gas.  
FSI: Bled down for 20 mins. Very slight surface blow back  
 Recovery — Total Feet 80' GIP 4204' Ft. in DC N/A Ft. in DP 80'  
 Rec. 80' Feet Of 6 5/8 WCM %gas \_\_\_\_\_ %oil 79 %water 15 %mud \_\_\_\_\_  
 Rec. 4204' Feet Of 6TP %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 118 °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW .05 @ 63° °F Chlorides 75,000 ppm Recovery Chlorides 4,000 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>2119</u>	<u>2346</u>	<u>0615</u>
(B) First Initial Flow Pressure		<u>87</u>	(depth) <u>4291</u>	T-Started <u>0708</u>
(C) First Final Flow Pressure		<u>93</u>	PSI Recorder No. <u>10991</u>	T-Open <u>0903</u>
(D) Initial Shut-In Pressure		<u>1086</u>	(depth) <u>4307</u>	T-Pulled <u>1213</u>
(E) Second Initial Flow Pressure		<u>88</u>	PSI Recorder No. _____	T-Out <u>1342</u>
(F) Second Final Flow Pressure		<u>110</u>	(depth) _____	T-Off Location <u>1430</u>
(G) Final Shut-in Pressure		<u>1080</u>	PSI Initial Opening <u>10</u>	Test <input checked="" type="checkbox"/> 800
(Q) Final Hydrostatic Mud		<u>2094</u>	PSI Initial Shut-in <u>30</u>	Jars _____
			Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> 50
			Final Shut-in <u>90</u>	Straddle _____
				Circ. Sub _____
				Sampler _____
				Extra Packer _____
				Elec. Rec. <input checked="" type="checkbox"/> 150
				Mileage <u>22</u> 22
				Other _____ 1022

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Approved By Robert Stolzle  
 Our Representative Dawn Conner

TOTAL PRICE \$ \_\_\_\_\_

# CHART PAGE

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

