

DRILL STEM TEST REPORT

Prepared For: **Bryce F.Hayes Oil & Gas**

P.O.Box 108
Attica Ks. 67009

ATTN: John Hastings

7-32s-9w Harper Ks.

Stone B#3

Start Date: 2002.11.30 @ 15:15:45

End Date: 2002.11.30 @ 23:59:00

Job Ticket #: 16532 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Bryce F.Hayes Oil & Gas

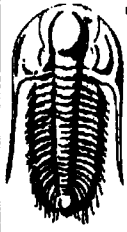
Stone B#3

7-32s-9w Harper Ks.

DST # 1

Miss.

2002.11.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bryce F. Hayes Oil & Gas

Stone B#3

P.O.Box 108
Attica Ks. 67009

7-32s-9w Harper Ks.

ATTN: John Hastings

Job Ticket: 16532

DST#: 1

Test Start: 2002.11.30 @ 15:15:45

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:38:15

Time Test Ended: 23:59:00

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4346.00 ft (KB) To 4367.00 ft (KB) (TVD)**

Total Depth: 4367.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1477.00 ft (KB)

1466.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 2342

Inside

Press@RunDepth: 29.62 psig @ 4347.00 ft (KB)

Start Date: 2002.11.30 End Date: 2002.11.30

Start Time: 15:15:46 End Time: 23:59:00

Capacity: 7000.00 psig

Last Calib.: 2002.12.01

Time On Btrr: 2002.11.30 @ 17:35:00

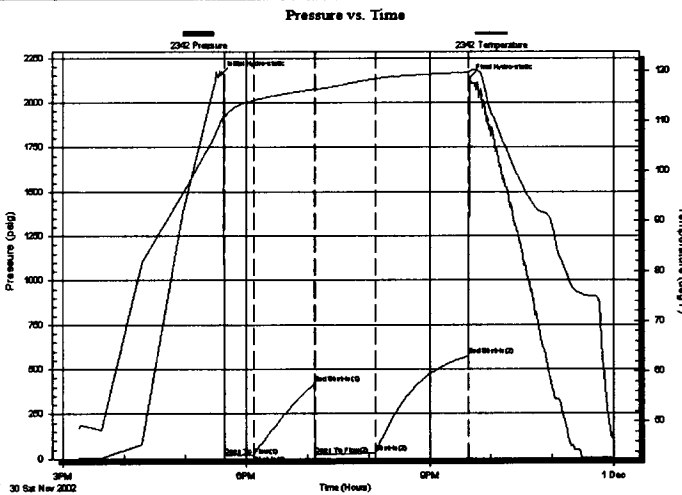
Time Off Btrr: 2002.11.30 @ 21:39:00

TEST COMMENT: F:Fair blow . Slow increase to 12".

IS:No blow .

FF:Fair to strong blow . B.O.B. in 17 mins.

FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.61	109.76	Initial Hydro-static
4	17.95	110.88	Open To Flow (1)
32	22.57	114.14	Shut-in(1)
92	419.38	116.32	End Shut-In(1)
93	20.72	116.34	Open To Flow (2)
152	29.62	118.37	Shut-In(2)
243	573.64	119.69	End Shut-In(2)
244	2133.35	119.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Heavy mud	0.10
0.00	715 ft. of gas in pipe.	0.00
0.00	Show of clean oil @ top of tool	0.00

Gas Rates

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



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TOOL DIAGRAM

Bryce F. Hayes Oil & Gas

Stone B#3

P.O. Box 108
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7-32s-9w Harper Ks.

Job Ticket: 16532

DST#: 1

ATTN: John Hastings

Test Start: 2002.11.30 @ 15:15:45

Tool Information

Drill Pipe:	Length: 4233.00 ft	Diameter: 3.80 inches	Volume: 59.38 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: 90.00 ft	Diameter: 2.25 inches	Volume: 0.44 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 59.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4346.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4320.00	
S.I. Tool	5.00			4325.00	
HMV	5.00			4330.00	
Jars	5.00			4335.00	
Safety Joint	2.00			4337.00	
Packer	4.00			4341.00	27.00 Bottom Of Top Packer
Packer	5.00			4346.00	
Stubb	1.00			4347.00	
Recorder	0.00	2342	Inside	4347.00	
Perforations	15.00			4362.00	
Recorder	0.00	13222	Outside	4362.00	
Bullnose	5.00			4367.00	21.00 Bottom Packers & Anchor

Total Tool Length: 48.00



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FLUID SUMMARY

Bryce F.Hayes Oil & Gas

Stone B#3

P.O.Box 108
Attica Ks. 67009

7-32s-9w Harper Ks.

Job Ticket: 16532

DST#: 1

ATTN: John Hastings

Test Start: 2002.11.30 @ 15:15:45

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	1000 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.99 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Heavy mud	0.098
0.00	715 ft. of gas in pipe.	0.000
0.00	Show of clean oil @ top of tool	0.000

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

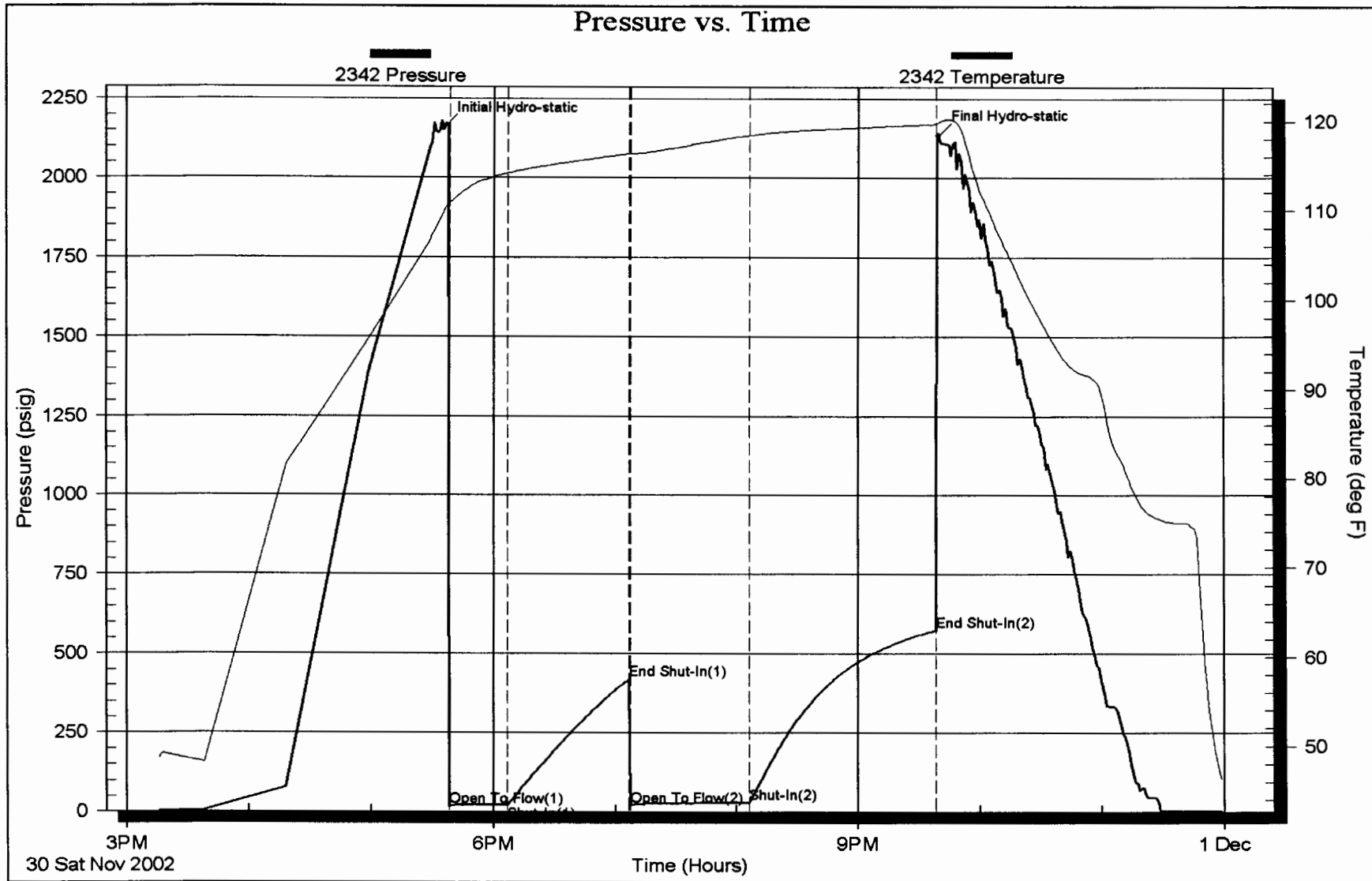
Num Gas Bombs: 0

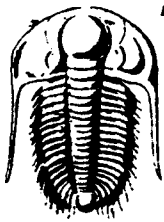
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV #5272
1/31/00

No 16532

Test Ticket

Well Name & No. Stone B#3 Test No. 1 Date 11-30-2002
 Company Bryce F. Hayes Oil & Gas Zone Tested Miss.
 Address P.O. Box 108, Ottawa, Ks. 67009 Elevation 1427 KB 1466GL
 Co. Rep / Geo. John Hastings Cont. Duke Duly, #1 Est. Ft. of Pay Por. %
 Location: Sec. 7 Twp. 32^s Rge. 9^w Co. Harper State Ks.
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4346 - 4367' Initial Str Wt./Lbs. 56,000 Unseated Str Wt./Lbs. 55,000
 Anchor Length 21' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 63,000
 Top Packer Depth 4341' Tool Weight 2100 #
 Bottom Packer Depth 4346' Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4367' Wt. Pipe Run None Drill Collar Run 90'
 Mud Wt. 9.5 LCM Vis. 50 WL 10.0 Drill Pipe Size 4 1/2" x # Ft. Run 4233
 Blow Description IF: Fair blow. slow increase to 12"
ISI: No below.
FF: Fair to strong blow. B.O.B. in 17 mins. FSI: No below.

Recovery — Total Feet 20 GIP 215 Ft. in DC 20 Ft. in DP 0
 Rec. 20 Feet Of Heavy Mud %gas %oil %water %mud
 Rec. Feet Of Show of clean %gas %oil %water %mud
 Rec. Feet Of oil @ top of tool. %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 120 °F Gravity N/A °API @ °F Corrected Gravity N/A °API
 RW N.C. @ °F Chlorides 1,000 ppm Recovery Chlorides 1,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		2158		2342	1402
(B) First Initial Flow Pressure		18		4347'	1515
(C) First Final Flow Pressure		23		43222	1738
(D) Initial Shut-in Pressure		419		4362'	2135
(E) Second Initial Flow Pressure		21			2359
(F) Second Final Flow Pressure		30			0130
(G) Final Shut-in Pressure		574		30	800 ⁰⁰⁸⁰⁰
(Q) Final Hydrostatic Mud		2133		60	200 ⁰⁰²⁰⁰
				90	50 ⁰⁰⁵⁰

Final Flow 60 Safety Joint
 Final Shut-in 90 Straddle
 Circ. Sub
 Sampler
 Extra Packer
 Elec. Rec. 150 ⁰⁰¹⁵⁰
 Mileage 50 ⁰⁰²⁵⁰
 Other 2 hrs Standby ⁶⁰
 TOTAL PRICE \$ 1250 ¹³¹⁰

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE. OR FOR ANY LOSS SUFFERED OR SUSTAINED. DIRECTLY OR INDIRECTLY. THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By John Hastings

Our Representative Gary Watson

CHART PAGE

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

