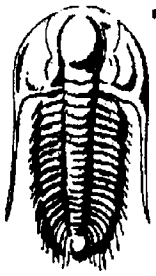


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **DNOC**

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

10-17-21-Ness-Ks

Swartz # 1-10

Start Date: 2004.11.06 @ 17:25:37

End Date: 2004.11.06 @ 21:21:37

Job Ticket #: 20856 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

DRILL STEM TEST REPORT

DNOC

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

Swartz # 1-10

10-17-21-Ness-Ks

Job Ticket: 20856 **DST#: 1**

Test Start: 2004.11.06 @ 17:25:37

GENERAL INFORMATION:

Formation: **Cher Sd**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:57:07
Time Test Ended: 21:21:37

Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21

Interval: 4116.00 ft (KB) To 4130.00 ft (KB) (TVD)
Total Depth: 4250.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

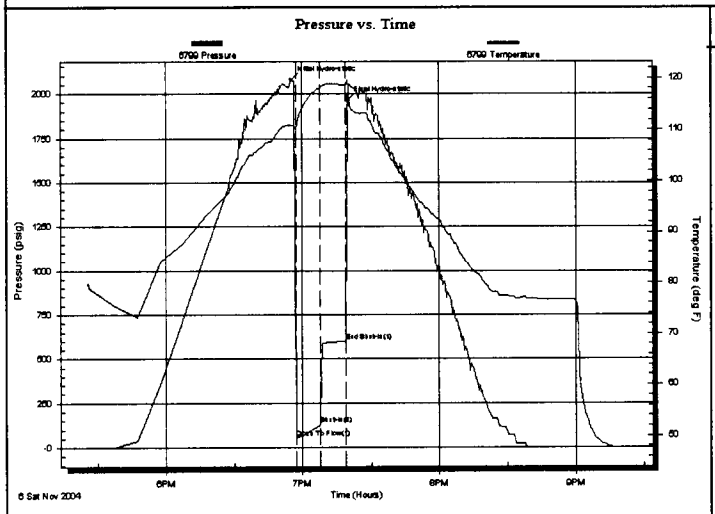
Reference Elevations: 2223.00 ft (KB)
2215.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6799 **Inside**

Press@RunDepth: 128.64 psig @ 4117.00 ft (KB)
Start Date: 2004.11.06 End Date: 2004.11.06
Start Time: 17:25:38 End Time: 21:21:37

Capacity: 7000.00 psig
Last Calib.: 2004.11.06
Time On Btm: 2004.11.06 @ 18:55:07
Time Off Btm: 2004.11.06 @ 19:19:37

TEST COMMENT: IF-Strong B-B in 4 min
ISI-Weak building to 8"
Times-10-10



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2077.25	110.82	Initial Hydro-static
2	56.38	110.10	Open To Flow (1)
13	128.64	118.12	Shut-In(1)
24	598.19	118.65	End Shut-In(1)
25	1965.12	119.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	O&WCM 20%o 20%w 60%m	26.68
62.00	MCO 60%o 40%m	0.87
340.00	CGsyO 20%g 80%o	4.77
0.00	1085 GIP	0.00

Gas Rates

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

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

DNOC

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

Swartz # 1-10

10-17-21-Ness-Ks

Job Ticket: 20856 **DST#: 1**

Test Start: 2004.11.06 @ 17:25:37

Tool Information

Drill Pipe:	Length:	4077.00 ft	Diameter:	3.80 inches	Volume:	57.19 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:	30.00 ft	Diameter:	30.00 inches	Volume:	26.23 bbl	Weight to Pull Loose:		60000.00 lb
					Total Volume:	83.42 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight:	Initial	56000.00 lb
Depth to Top Packer:		4116.00 ft						Final	57000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		139.00 ft							
Tool Length:		168.00 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			4088.00		
Shut In Tool	5.00			4093.00		
Hydraulic tool	5.00			4098.00		
Jars	5.00			4103.00		
Safety Joint	3.00			4106.00		
Packer	5.00			4111.00	29.00	Bottom Of Top Packer
Packer	5.00			4116.00		
Stubb	1.00			4117.00		
Recorder	0.00	6799	Inside	4117.00		
Perforations	12.00			4129.00		
Blank Off Sub	1.00			4130.00	139.00	Tool Interval
Packer	5.00			4135.00		
Stubb	1.00			4136.00		
Recorder	0.00	13248	Outside	4136.00		
Drill Pipe	119.00			4255.00	1000167.00	Bottom Packers & Anchor
Total Tool Length:	**168.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC

P O Box 372
Hays Ks 67601

ATTN: Ron Nelson

Swartz # 1-10

10-17-21-Ness-Ks

Job Ticket: 20856 **DST#: 1**

Test Start: 2004.11.06 @ 17:25:37

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	38 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

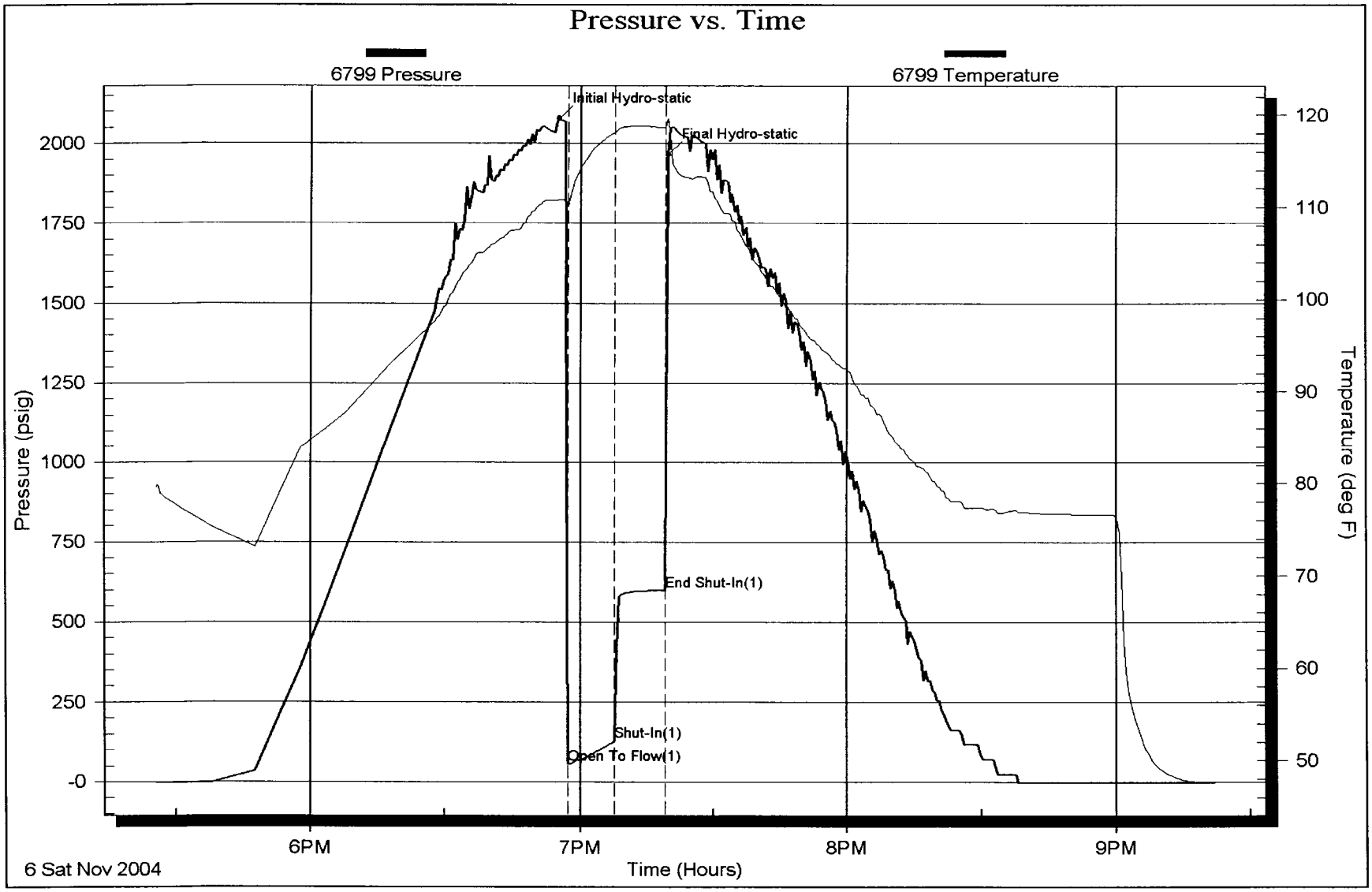
Length ft	Description	Volume bbl
62.00	O&WCM 20%o 20%w 60%m	26.677
62.00	MCO 60%o 40%m	0.870
340.00	CGsyO 20%g 80%o	4.769
0.00	1085 GIP	0.000

Total Length: 464.00 ft Total Volume: 32.316 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6799 Pressure
6799 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Shut-In(1)
Open To Flow(1)
Pressure (psig)
Temperature (deg F)
2000
1750
1500
1250
1000
750
500
250
-0
120
110
100
90
80
70
60
50
6PM
7PM
8PM
9PM
6 Sat Nov 2004
Time (Hours)

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

INV 6931

№ 20856

05/03

Test Ticket

Well Name & No. Swartz #1-10 Test No. 1 Date 11-6-04

Company DNOC Zone Tested Cher Sd.

Address P.O. Box 372, Hays KS 67601 Elevation 2223 KB 2225 GL

Co. Rep / Geo. Ron Nelson Cont. Discovery #1 Est. Ft. of Pay _____ Por. _____ %

Location: Sec. 10 Twp. 17 Rge. 21 Co. Ness State KS

No. of Copies _____ Disbtribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4116 — 4130 Initial Str Wt./Lbs 54,000 Unseated Str Wt/Lbs 57,000

Anchor Length 14 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs 60,000

Top Packer Depth 4116 Tool Weight 2500

Bottom Packer Depth 4130 Hole Size 7 7/8" Rubber Size 6 3/4"

Total Depth 4250 Wt. Pipe Run _____ Drill Collar Run 30

Mud Wt. 9.3 LCM _____ Vis. 47 WL 8 Drill Pipe Size 4.5 XH Ft. Run 4077

Blow Description I.F. Strong B-B in 4 min.

ISI - Weak - building To 8"

Recovery - Total Feet 464 GIP 1085 Ft. in DC 30 Ft. in DP 434

Rec. 340	Feet of CGSY O	20 %gas	80 %oil	%water	%mud
Rec. 62	Feet of MCO	%gas	60 %oil	%water	40 %mud
Rec. 62	Feet of O+WTR C M	%gas	20 %oil	20 %water	60 %mud
Rec.	Feet of	%gas	%oil	%water	%mud
Rec.	Feet of	%gas	%oil	%water	%mud

BHT 118 °F Gravity _____ °API D @ _____ °F Corrected Gravity 38 °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4,200 ppm System

	AK-1	Alpine					
(A) Initital Hydrostatic Mud		2077 PSI	Recorder No.	6799	Test	1000
(B) First Initial Flow Pressure		56 PSI	(depth)	4117	Elec. Rec.	X —
(C) First Final Flow Pressure		128 PSI	Recorder No.	13254	Jars	X 200
(D) Initial Shut-In Pressure		598 PSI	(depth)		Safety Jt.	X 50
(E) Second Initial Flow Pressure		— PSI	Recorder No.	13248	Circ Sub	
(F) Second Final Flow Pressure		— PSI	(depth)		Sampler	
(G) Final Shut-In Pressure		— PSI	**Initial Opening**	10	Straddle	X 250
(Q) Final Hydrostatic Mud		1965 PSI	Initial Shut-In	10	Ext. Packer	X 150
			Final Flow	—	Shale Packer	
			Final Shut-In	—	Mileage	80 80
			T-On Location	16:00	Sub Total:	1730
			T-Started	17:25	Std. By	
			T-Open	19:00	Other	
			T-Pulled	19:20	Total:	1730
			T-Out	21:21		

Approved By _____

Our Representative Dan Rample

CHART PAGE

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

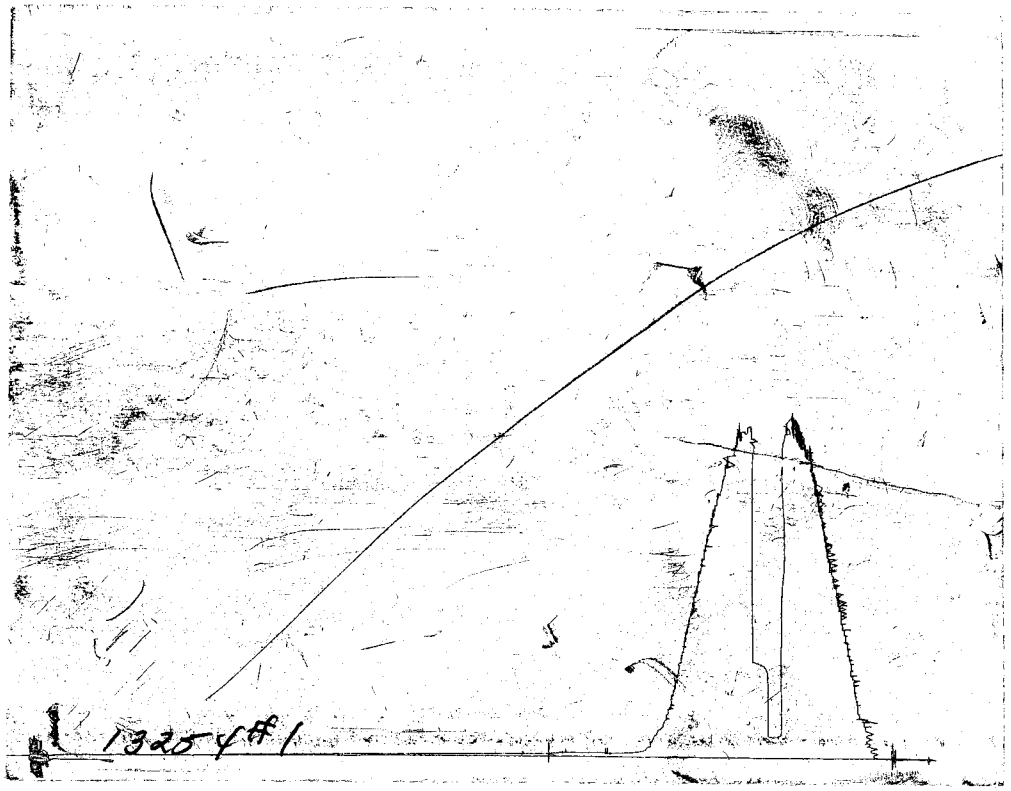


CHART PAGE

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