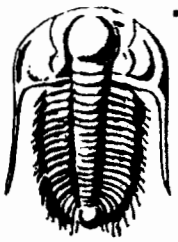


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared for

Grand Mesa Operating Company
200 E 1st St Ste307
Wichita KS 67202

Wells#1-9
9 18s 24w
Ness co KS

Trilobite Testing, Inc
PO Box 362 - Hays, Kansas - 67601
ph: 785-625-4778 fax: 785-625-5620
e-mail: trilobite@eaglecom.net

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

		Date:	7/21/2002
Well name#:	Wells #1-9	Ticket #:	15137
Location#:	9 18s 24w	DST#	1

General Informaion:

Formation:	Cherokee	Test Type:	Conventional			BHT:	131
Interval:	4256-4296	Tester:	Rod Steinbrink			OIL API:	
Total Depth:	4296	Elevation:	2297	ft(KB)		H2O Salinity:	
Hole Diameter:	7 7/8"		2292	ft(CF)			
Start Data:	7/21/2002	Tool Weight:		2000		Mud Type:	Chemical
Start Time:	4:00:00	Weight Set on Packers:		25000		Mud Weight:	9.2
Time tool opened:	5:57:00	Weight to Pull Loose:		60000		Viscosity:	41
Time Off Btm:	7:35:00	Initial String Weight:		46000		Water Loss:	12
End Date:	7/21/02	Final String Weight:		50000		Resistivity;	
End Time:	10:00	Drill Pipe Length:		3992		Salinity:	4000
		Drill Collar Length:		247			

Test Comment:
IF: Strong blow off bottom 45 sec
ISI: Surface return steady through
FF: Strong blow off bottom 45 sec
FSI: No return blow

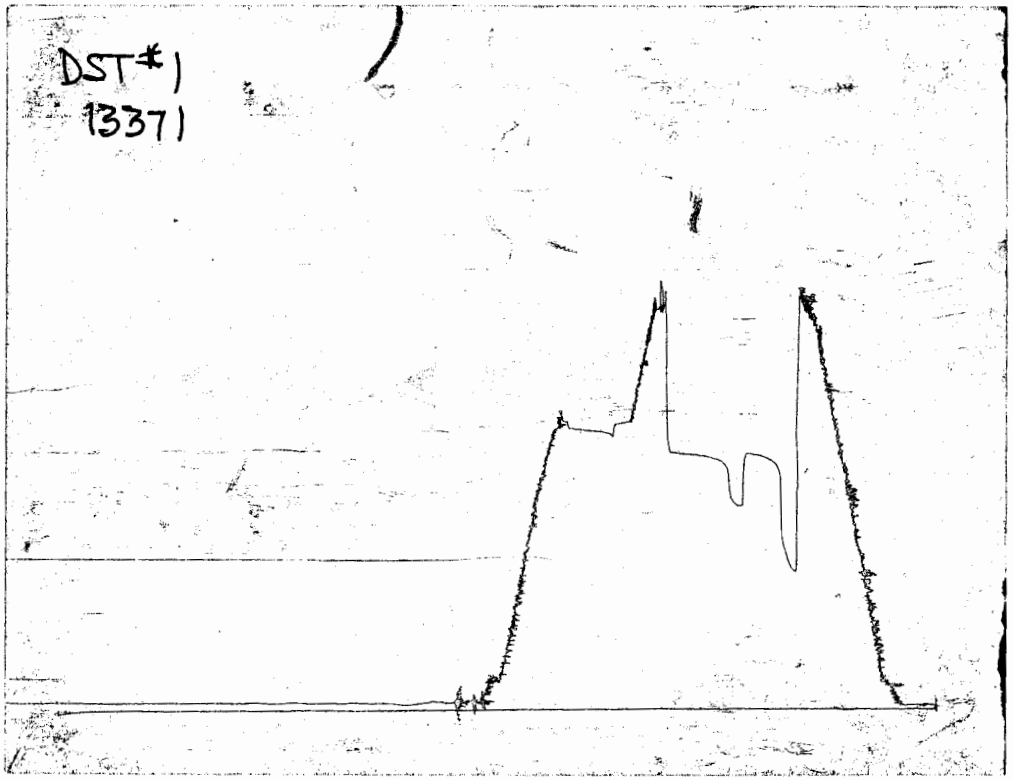
Recovery Length(ft):	2900 ft Description:
120	MCO 5%gas 50%oil 45%mud
2780	CGO 20%gas 80%oil
	Reversed into #2 pit

Gas Volume Report

Recorder #:	13371		Open	Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:		Time:(min)			PSIG	size	
Initial Hydro-static:	2103						
Open to Flow (1):	694	10					
Shut-in (1):	912						
End Shut-in (1):	1292	30					
Open to Flow (2):	1028	10					
Shut-in (2):	1068						
End Shut-in (2);	1293	45					
Final Hydro-static:	2129						

CHART PAGE

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



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

№ 15137

Test Ticket

Well Name & No. Wells #1-9 Test No. 1 Date 7-21-02

Company Grand Mesa Operating Company Zone Tested Cherokee

Address 200 E. 1st St. Ste 307 Wichita, KS. 67202 Elevation 2297 KB 2292 GL

Co. Rep / Geo. Wes Hansen Cont. Mallard #2 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 9 Twp. 18S Rge. 24W Co. Ness State KS

No. of Copies ___ Distribution Sheet (Y, N) ___ Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested 4256 - 4296 Initial Str Wt./Lbs. 46,000 Unseated Str Wt./Lbs. 50,000

Anchor Length 40' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 60,000

Top Packer Depth 4251 Tool Weight 2,000

Bottom Packer Depth 4256 Hole Size — 7 7/8" ___ Rubber Size — 6 3/4" ___

Total Depth 4296 Wt. Pipe Run — Drill Collar Run 247'

Mud Wt. 9.2 LCM ___ Vis. 41 WL 12.0 Drill Pipe Size 4½" XH Ft. Run ~~3993~~ 3992'

Blow Description 1F: Strong blow off bttm 45 secs.
1SI: Surface return steady thru.
FF: Strong blow off bttm 45 secs.
FSI: No return blow.

Recovery — Total Feet 2900' GIP 60' Ft. in DC 247' Ft. in DP 2653'

Rec.		Feet Of		%gas	%oil		%water		%mud
Rec.	120'	Feet Of	MCO	5	%gas	50 %oil	—	%water 45	%mud
Rec.	2780'	Feet Of	CGO	20	%gas	80 %oil	—	%water	%mud
Rec.		Feet Of	Reversed into		%gas	%oil		%water	%mud
Rec.		Feet Of	#2 Pit		%gas	%oil		%water	%mud

BHT 131° °F Gravity 38 °API D@ 90° °F Corrected Gravity 35 °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 4,000 ppm System

	AK-1 ~~Alpine~~				
(A) Initial Hydrostatic Mud	2136 PSI	Recorder No.	3030	T-On Location	0330
(B) First Initial Flow Pressure	687 PSI	(depth)	4256	T-Started	0400
(C) First Final Flow Pressure	834 PSI	Recorder No.	13371	T-Open	0557 6:30
(D) Initial Shut-In Pressure	1291 PSI	(depth)	4291	T-Pulled	0735
(E) Second Initial Flow Pressure	1019 PSI	Recorder No.		T-Out	1000
(F) Second Final Flow Pressure	1058 PSI	(depth)		T-Off Location	1100
(G) Final Shut-in Pressure	1282 PSI	Initial Opening	10	Test	800
(Q) Final Hydrostatic Mud	2036 PSI	Initial Shut-in	30	Jars	X 2.00
		Final Flow	10	Safety Joint	X 50
		Final Shut-in	45	Straddle	
				Circ. Sub	X 35.00
				Sampler	
				Extra Packer	
				Elec. Rec.	X n/c
				Mileage	X 55
				Other	
				TOTAL PRICE $	1140

Approved By Wesley Hansen

Our Representative Rod Steinbrink

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 15118 Date 7-18-02

Company Name DNR Oil & Gas

Lease Rother #44-24 Test No. #1

County Wallace, Ks Sec. 24 Twp. 13 Rng. 43

SAMPLER RECOVERY

Gas _____ ML

Oil _____ ML

Mud 4,000 ML

Water _____ ML

Other _____ ML

Pressure 20 psi PSI

Total 4,000 mL mud ML

PIT MUD ANALYSIS

Chlorides 1,500 ppm.

Resistivity — ohms @ — F

Viscosity 67

Mud Weight 9.2

Filtrate 7.6

Other LCM #5

SAMPLER ANALYSIS

Resistivity 3.11 ohms @ 84° F

Chlorides 1600 ppm.

Gravity — corrected @ 60 F

PIPE RECOVERY

TOP

Resistivity 3.11 ohms @ 84° F

Chlorides 1600 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

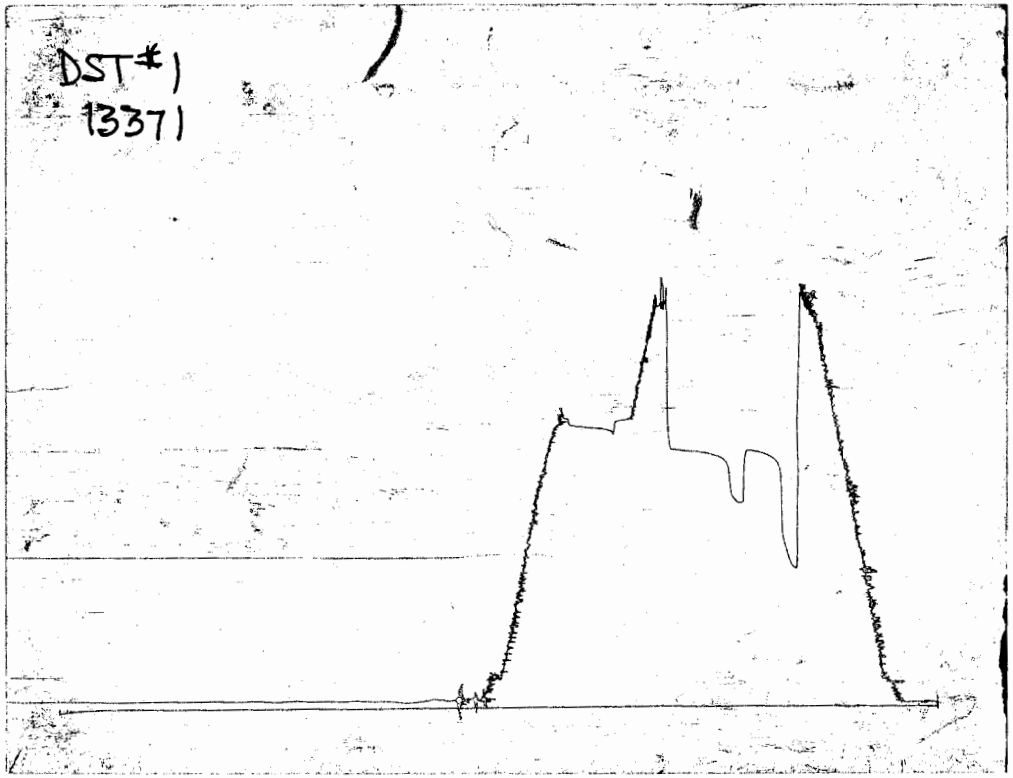
BOTTOM

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

CHART PAGE

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



Well Name Wells #1-9
DST Number 1
Recorder Number 1337

A:	2.147	2102
B:	.707	.694
C:	.930	912
D:	1.321	1290
E:	1.049	1028
F:	1.090	1068
G:	1.322	1293
Q:	2.173	2129