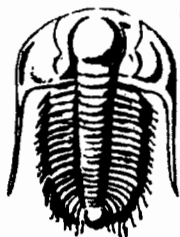


15-165-21736

30-17s-20w


TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Well name#:	Sloan#1	Date:	2/20/2002
Location#:	30 17s 20w	Ticket #:	15623
		DST#	1

General Information:

Formation:	Cherokee	Test Type:	Conventional	BHT:	111
Interval:	4096-4110	Tester:	Dan Bangle	OIL API:	34
Total Depth:	4110	Elevation:	2197 ft(KB)	H2O Salinity:	
Hole Diameter:	7 7/8"		ft(CF)		
Start Data:	2/20/2002	Tool Weight:	1400	Mud Type:	Chemical
Start Time:	4:30:00	Weight Set on Packers:	30000	Mud Weight:	9.5
Time tool opened:	6:17:00	Weight to Pull Loose:	50000	Viscosity:	44
Time Off Btm:	6:47:00	Initial String Weight:	46000	Water Loss:	8.8
End Date:	2/20/02	Final String Weight:	47000	Resistivity:	
End Time:	9:00:00	Drill Pipe Length:		Salinity:	5100
		Drill Collar Length:			

Test Comment:

IF: Strong B.O.B. in 2 min.

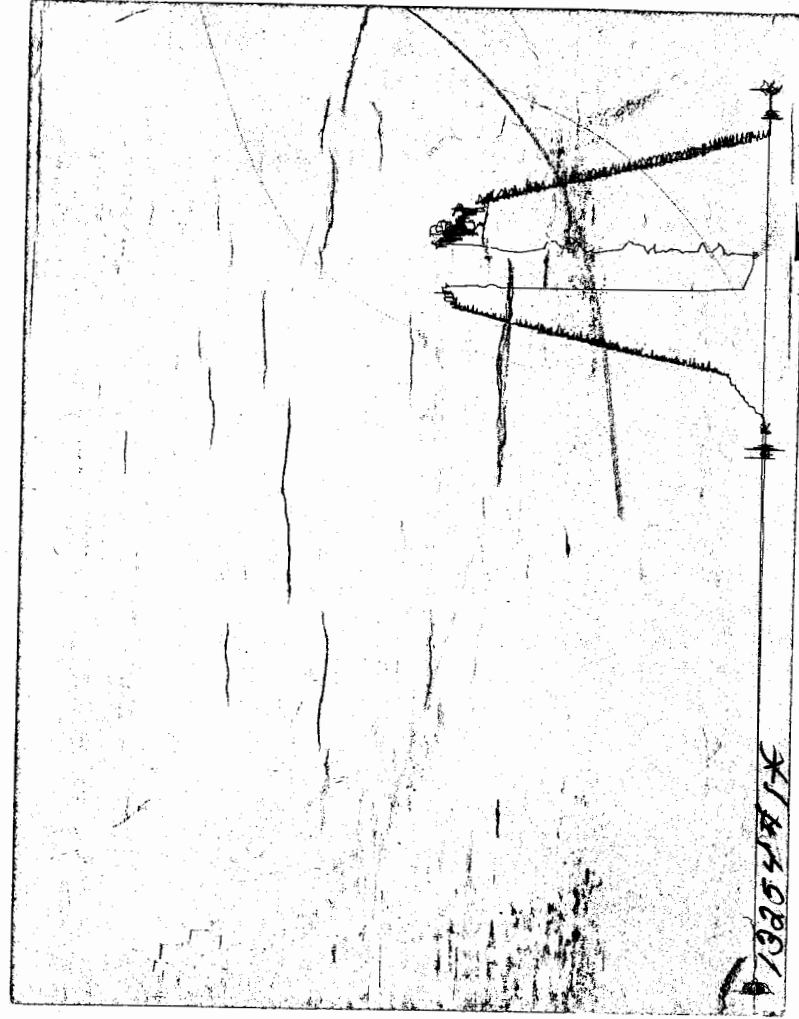
Recovery	469ft	640ft GIP	469ft in DP
Length(ft):	Description:		
221	CGSYO 10%g 90%o		
120	MCGSYO 10%g 80%o 10%m		
128	SitlyMCfrothy 95%o 5%m		

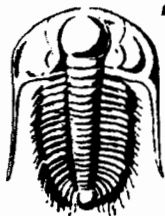
Gas Volume Report

Recorder #:	13254	Open	Min:	Ins. Of water	Orifice	MCF/D
Pressure Summary:	Time:(min)			PSIG	size	
Initial Hydro-static:	1633					
Open to Flow (1):	83					
Shut-in (1):	136					
End Shut-in (1):						
Open to Flow (2):						
Shut-in (2):						
End Shut-in (2):						
Final Hydro-static:	1627					

CHART PAGE

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15623

Test Ticket

Well Name & No. Sloan #1 Test No. 1 Date 2-20-02
 Company Mid-Continent Energy Operating Co. Zone Tested Cherokee
 Address 100 W. 5 ST. STE 450, Tulsa, Okla. 74103 Elevation 2197 KB GL
 Co. Rep / Geo. Brad Rine Cont. Duke #2 Est. Ft. of Pay Por. %
 Location: Sec. 30 Twp. 17 Rge. 20 Co. Rush State KS
 No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4096 - 4110 Initial Str Wt./Lbs. 46000 Unseated Str Wt./Lbs. 47000
 Anchor Length 14 Wt. Set Lbs. 30000 Wt. Pulled Loose/Lbs. 50000
 Top Packer Depth 4091 Tool Weight 1400
 Bottom Packer Depth 4096 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 4110 Wt. Pipe Run Drill Collar Run
 Mud Wt. 9.5 LCM Vis. 44 WL 8.8 Drill Pipe Size 4.5 XH Ft. Run
 Blow Description I.F. Strong - B.O.B. in 2 min.

Recovery — Total Feet 469 GIP 640 Ft. in DC Ft. in DP 469
 Rec. 229 Feet Of CG540 10% gas 90% oil %water %mud
 Rec. 120 Feet Of mcG540 10% gas 80% oil %water 10% mud
 Rec. 128 Feet Of 5 1/4 MC frothy %gas 95% oil %water 5% mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 111 °F Gravity °API D@ °F Corrected Gravity 34 °API
 RW @ °F Chlorides ppm Recovery Chlorides 5100 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2032</u>		PSI Recorder No.	<u>13254</u>	T-On Location <u>02:00</u>
(B) First Initial Flow Pressure	<u>94</u>		PSI (depth)	<u>4098</u>	T-Started <u>04:30</u>
(C) First Final Flow Pressure	<u>142</u>		PSI Recorder No.	<u>13248</u>	T-Open <u>06:17</u> 7:00
(D) Initial Shut-In Pressure	<u>-</u>		PSI (depth)	<u>4107</u>	T-Pulled <u>06:47</u>
(E) Second Initial Flow Pressure	<u>-</u>		PSI Recorder No.	<u> </u>	T-Out <u>09:00</u>
(F) Second Final Flow Pressure	<u>-</u>		PSI (depth)	<u> </u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure	<u>-</u>		PSI Initial Opening	<u>30</u>	Test <u>800</u>
(Q) Final Hydrostatic Mud	<u>1915</u>		PSI Initial Shut-in	<u> </u>	Jars <u>X</u> <u>200</u>
			Final Flow	<u> </u>	Safety Joint <u>X</u> <u>50</u>
			Final Shut-in	<u> </u>	Straddle <u> </u>
					Circ. Sub <u> </u>
					Sampler <u> </u>
					Extra Packer <u> </u>
					Elec. Rec. <u> </u>
					Mileage <u>39</u>
					Other <u> </u>

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 [Signature]

Our Representative Don Boushe

TOTAL PRICE \$ 1089

CHART PAGE

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

