

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name McMILLEN #1 Test No. 1 Date 10/30/93
Company ABERCROMBIE DRILLING INC Zone PLEASANTON
Address 150 N MAIN #801 WICHITA KS 67202 Elevation 2822
Co. Rep./Geo. KRIS KENNEDY Cont. ABERCROMBIE RIG #8 Est. Ft. of Pay _____
Location: Sec. 36 Twp. 19S Rge. 29W Co. LANE State KS

Interval Tested 4400-4422 Drill Pipe Size 4.5" XH
Anchor Length 22 Wt. Pipe I.D. - 2.7 Ft. Run 310
Top Packer Depth 4395-4400 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4422 Mud Wt. 9.4 lb/Gal.
Total Depth 4710 Viscosity 51 Filtrate 10.4

Tool Open @ 4:03 PM Initial Blow GOOD BLOW OFF BOTTOM IN 2 MINUTES

Final Blow GOOD BLOW - OFF BOTTOM IN 9 MINUTES

Recovery - Total Feet 1425 Flush Tool? NO

Rec. 1425 Feet of SLTLY OIL STAINED WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.16 @ 62 °F Chlorides 56000 ppm Recovery Chlorides 3000 ppm System

(A) Initial Hydrostatic Mud 2218.7 PSI AK1 Recorder No. 11057 Range 4500

(B) First Initial Flow Pressure 135.4 PSI @ (depth) 4402 w / Clock No. 27566

(C) First Final Flow Pressure 396.5 PSI AK1 Recorder No. 13308 Range 4700

(D) Initial Shut-in Pressure 1144.3 PSI @ (depth) 4417 w / Clock No. 17652

(E) Second Initial Flow Pressure 427.6 PSI AK1 Recorder No. 2023 Range 4000

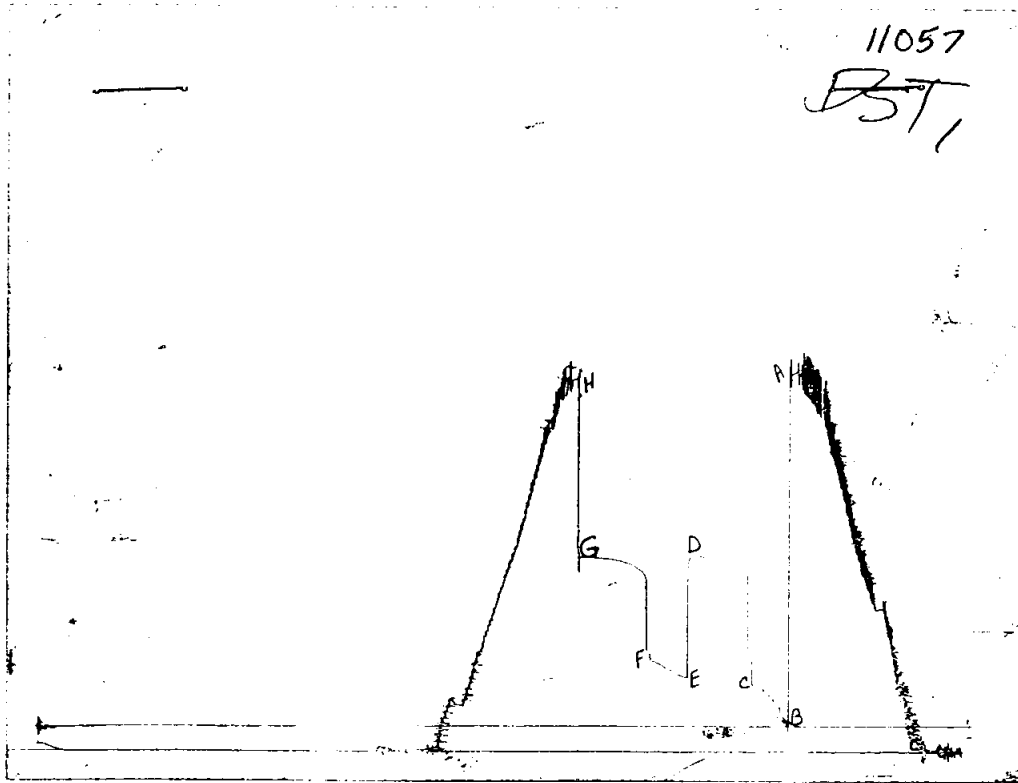
(F) Second Final Flow Pressure 514.3 PSI @ (depth) 4705 w / Clock No. 7452

(G) Final Shut-in Pressure 1133.2 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2188.7 PSI Initial Shut-in 45 Final Shut-in 45

Our Representative MARK HERSKOWITZ

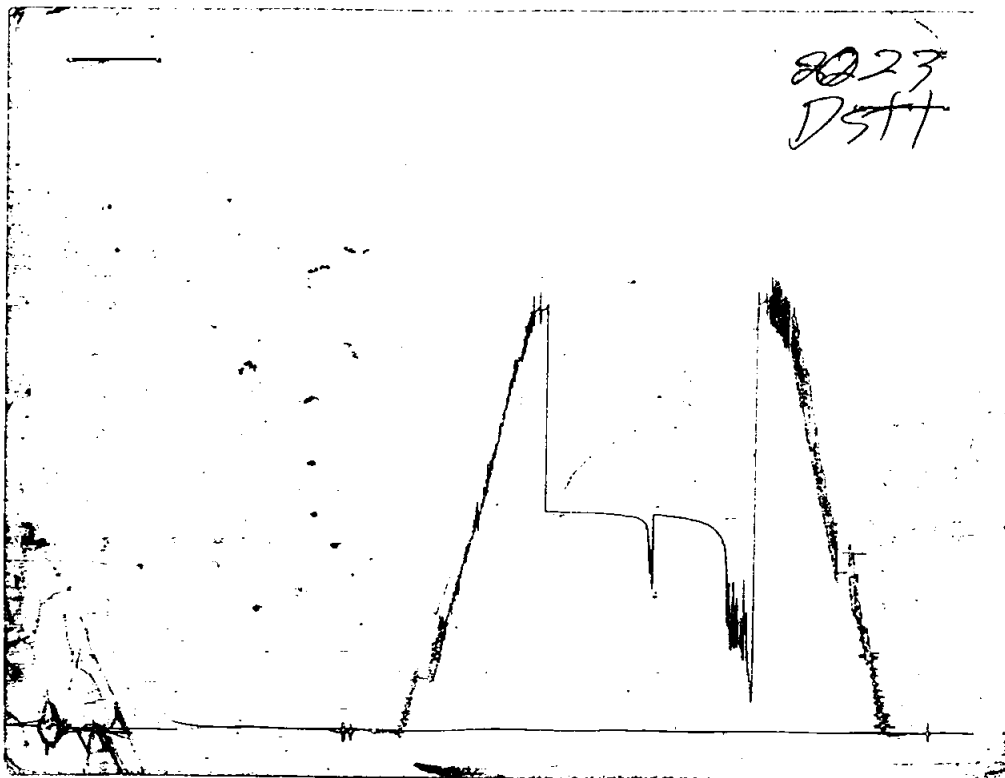
CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2219	2218.7
(B) FIRST INITIAL FLOW PRESSURE	134	135.4
(C) FIRST FINAL FLOW PRESSURE	392	396.5
(D) INITIAL CLOSED-IN PRESSURE	1141	1144.3
(E) SECOND INITIAL FLOW PRESSURE	426	427.6
(F) SECOND FINAL FLOW PRESSURE	515	514.3
(G) FINAL CLOSED-IN PRESSURE	1130	1133.2
(H) FINAL HYDROSTATIC MUD	2185	2188.7

CHART PAGE



This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6778

Well Name & No.	MCMILLEN 1#		Test No.	1	Date	10-30-93
Company	ABERCROMBIE DRILLING INC		Zone Tested	PIEA SANTON		
Address	150 N MAIN ST #801 Wichita		Elevation	2822 KB		
Co. Rep./Geo	CRIS KENNEDY	Cont.	A.L.A. Rig 8	Est. Ft. of Pay		
Location: Sec.	36	Twp.	19S	Rge.	29W	Co. LANE State KS
No. of Copies	5?	Distribution Sheet	Yes	No	Turnkey	Yes No Evaluation

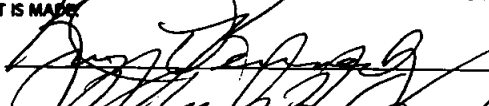
Interval Tested	4400 - 4422	Drill Pipe Size	4 1/2 X H
Anchor Length	22 288 T. PIPE	Top Choke — 1"	Bottom Choke — 3/4"
Top Packer Depth	4395 - 4400	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Bottom Packer Depth	4422	Wt. Pipe I.D. — 2.7 Ft. Run	310
Total Depth	4710	Drill Collar — 2.25 Ft. Run	
Mud Wt.	9.4 lb/cm	Viscosity	51
Tool Open @	4:03 PM	Filtrate	10.4
Initial Blow	Good Blow OFF Bottom in 2 min		
Final Blow	Good Blow OFF Bottom in 9 min		

Recovery — Total Feet	1425	Feet of Gas In Pipe		Flush Tool?	
Rec.	1425	Feet Of	509 IN WATER	%gas TR	%oil 100 %water %mud
Rec.		Feet Of		%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	122	°F Gravity		°API @		°F Corrected Gravity		°API
RW	0.14	@	62	°F Chlorides	56	ppm Recovery	Chlorides 3000	ppm System
(A) Initial Hydrostatic Mud	2219	PSI	AK1 Recorder No.	11057	Range	4500		
(B) First Initial Flow Pressure	134	PSI	@ (depth)	4402	w/Clock No.	27566		
(C) First Final Flow Pressure	392	PSI	AK1 Recorder No.	13308	Range	4700		
(D) Initial Shut-In Pressure	1141	PSI	@ (depth)	4417	w/Clock No.	17652		
(E) Second Initial Flow Pressure	424	PSI	AK1 Recorder No.	2023	Range	4000		
(F) Second Final Flow Pressure	515	PSI	@ (depth)	4705	w/Clock No.	9452		
(G) Final Shut-In Pressure	1130	PSI	Initial Opening	30	Test	✓ 600		
(H) Final Hydrostatic Mud	2185	PSI	Initial Shut-In	45	Jars			

TRILOBITE TESTING L.L.C. 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.

Final Flow	30	Safety Joint	
Final Shut-In	45	Straddle	✓ 250
		Circ. Sub	✓ 3500
		Sampler	
		Extra Packer	✓ 150
		Other	

Approved By 

Our Representative 