

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name & No.	_____ RANDEL #1	Test No.	_____ 1	Date	_____ 7/11/90
Company	_____ TAUREXCO INC			Zone Tested	_____ CHEROKEE SAND
Address	_____ 220 W DOUGLAS WICHITA KS 67202			Elevation	_____ 0
Co. Rep./Geo.	_____ MONTE MARRS	Cont.	_____ R& W RIG #11	Est. Ft. of Pay	_____ 0
Location: Sec.	_____ 34	Twp.	_____ 18S	Rge.	_____ 20W
				Co.	_____ RUSH
					_____ KANSAS
				State	_____ KANSAS

Interval Tested	_____ 4110-4153	Drill Pipe Size	_____ 4.5" XH
Anchor Length	_____ 43	Top Choke — 1"	_____ Bottom Choke — 3/4"
Top Packer Depth	_____ 4105	Hole Size — 77/8"	_____ Rubber Size — 63/4"
Bottom Packer Depth	_____ 4110	Wt. Pipe I.D. — 2.7 Ft. Run	_____ 0
Total Depth	_____ 4153	Drill Collar — 2.25 Ft. Run	_____ 120
Mud Wt.	_____ 8.9	lb/gal.	_____ 47
Viscosity	_____ 47	Filtrate	_____ 10.8
Tool Open @	_____ 12:53 PM	Initial Blow	_____ STRONG-OFF BOTTOM OF BUCKET IN 45
	_____ SECONDS		
Final Blow	_____ NONE RAN		

Recovery — Total Feet	_____ 930	Flush Tool?	_____
Rec.	_____ 930	Feet of	_____ MUDDY GASSY SALT WATER
Rec.	_____ 0	Feet of	_____
Rec.	_____ 0	Feet of	_____
Rec.	_____ 0	Feet of	_____
Rec.	_____ 0	Feet of	_____
BHT	_____ 118	°F Gravity	_____ 0
°API @	_____ 0	°F Corrected Gravity	_____ 0
°API	_____ 0	°API	_____ 0
RW	_____ .04	@	_____ 87
°F	_____ 87	Chlorides	_____ 56000
ppm Recovery	_____ 13754	Chlorides	_____ 6000
ppm System	_____ 4000		
(A) Initial Hydrostatic Mud	_____ 1986.5	PSI	_____ AK1 Recorder No. 13754
Range	_____ 335.6	PSI	_____ @ (depth) 4114
(B) First Initial Flow Pressure	_____ 335.6	PSI	_____ w/Clock No. 3942
(C) First Final Flow Pressure	_____ 389.7	PSI	_____ AK1 Recorder No. 13849
Range	_____ 0	PSI	_____ @ (depth) 4149
(D) Initial Shut-In Pressure	_____ 0	PSI	_____ w/Clock No. 26199
(E) Second Initial Flow Pressure	_____ 0	PSI	_____ AK1 Recorder No. 0
Range	_____ 0	PSI	_____ @ (depth) 0
(F) Second Final Flow Pressure	_____ 0	PSI	_____ w/Clock No. 0
(G) Final Shut-In Pressure	_____ 0	PSI	_____ Initial Opening 15
(H) Final Hydrostatic Mud	_____ 1930.2	PSI	_____ Initial Shut-In 0
			_____ Final Flow 0
			_____ Final Shut-In 0

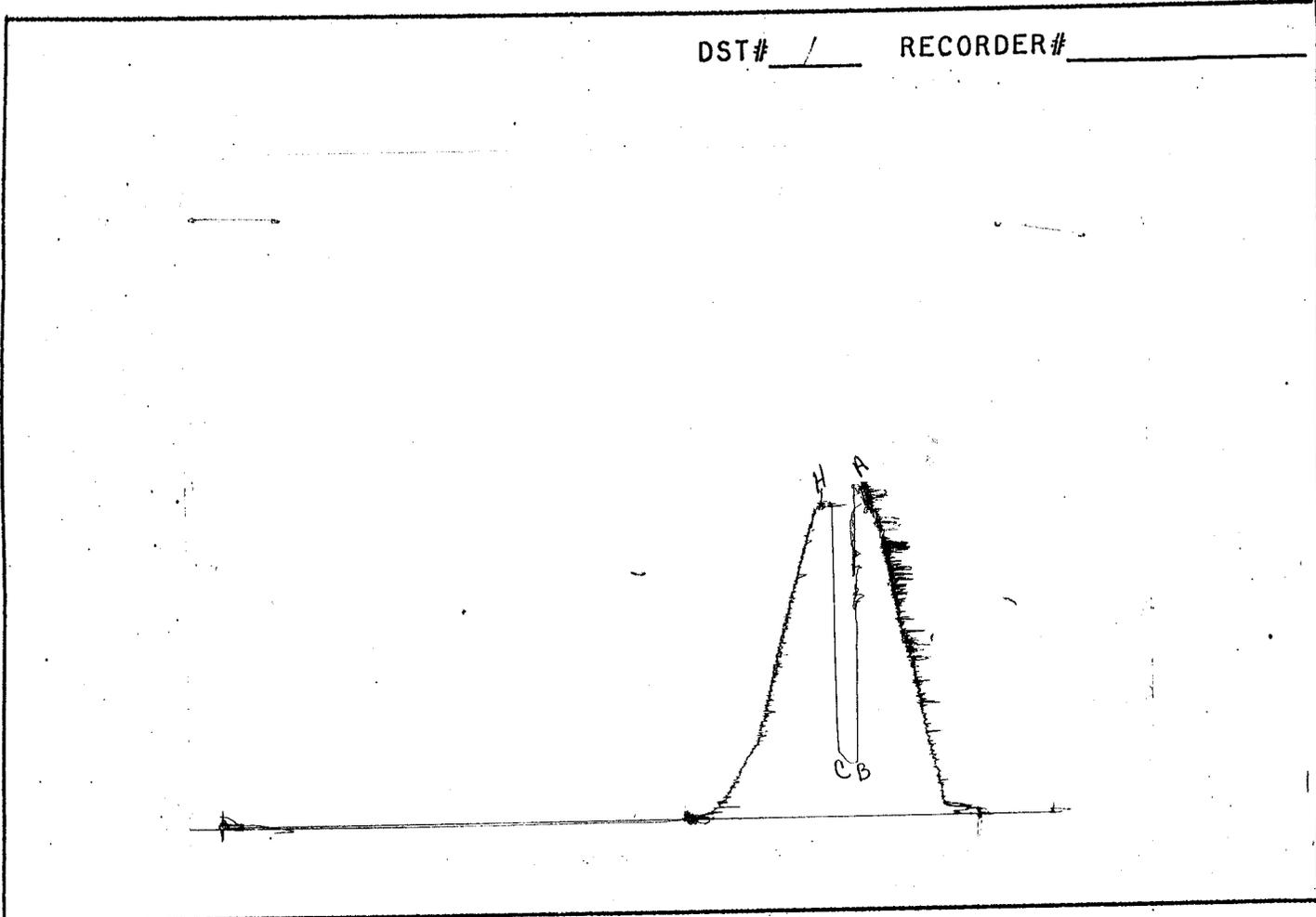
DAN BANGLE

400

Our Representative _____

TOTAL PRICE \$ _____

DST# / RECORDER#



This is an actual photograph of recorder chart.

PRESSURE

POINT	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud.....	1982	1986.5	PSI
(B) First Initial Flow Pressure.....	333	335.6	PSI
(C) First Final Flow Pressure.....	388	389.7	PSI
(D) Initial Closed-In Pressure.....	0	0	PSI
(E) Second Initial Flow Pressure.....	0	0	PSI
(F) Second Final Flow Pressure.....	0	0	PSI
(G) Final Closed-In Pressure.....	0	0	PSI
(H) Final Hydrostatic Mud.....	1928	1930.2	PSI

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TEST TICKET

No 2970

Well Name & No. Randel #1 Test No. 1 Date 7-11-90
Company Tauco, Inc. Zone Tested Cherokee Sd.
Address 220 W. Douglas, Wichita, Ks 67202 Elevation _____
Co. Rep. / Geo. Monty cont. R+W #11 Est. Ft. of Pay _____
Location: Sec. 34 Twp. 18s Rge. 20w Co. Rush State Ks.
No. of Copies 5 Distribution Sheet _____ Yes No Turnkey _____ Yes No

Interval Tested 4110 - 4153 Drill Pipe Size 4.5 XH
Anchor Length 43 Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth 4105 Hole Size — 77/8" _____ Rubber Size — 63/4" _____
Bottom Packer Depth 4110 Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth 4153 Drill Collar — 2.25 Ft. Run 120'
Mud Wt. 8.9 lb/gal. Viscosity 47 Filtrate 10.8
Tool Open @ 12:53 P.M. Initial Blow Strong - off bottom of bucket
in 45 sec.
Final Blow None Ran

Recovery — Total Feet 930 Flush Tool? _____
Rec. 930 Feet of mdy Gsy S.W.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 104 @ 87 °F Chlorides 56,000 ppm Recovery Chlorides 6,000 ppm System
(A) Initial Hydrostatic Mud 1982 PSI Ak1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure 333 PSI @ (depth) 4114 w/Clock No. 3942
(C) First Final Flow Pressure 388 PSI AK1 Recorder No. 13849 Range 4375
(D) Initial Shut-In Pressure 0 PSI @ (depth) 4149 w/Clock No. 26199
(E) Second Initial Flow Pressure 0 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 0 PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure 0 PSI Initial Opening 15' Test 100.00
(H) Final Hydrostatic Mud 1928 PSI Initial Shut-In 0 Jars
Final Flow 0 Safety Joint
Final Shut-In 0 Straddle _____
Circ. Sub
Sampler _____
Extra Packer _____
Other _____

Approved By Monty A. Morris
Our Representative Dan Ronghe

TOTAL PRICE \$ 400.00