

Company Lance Drilling, Inc. Lease & Well No. Foos "A" #1
 Elevation ---- Formation Cherokee Sand Effective Pay ---- Ft. Ticket No. 9872
 Date 2/14/81 Sec. 24 Twp. 19S Range 20W County Rush State Kansas
 Test Approved by Arden Ratzlaff Western Representative Gene Eberhart

Formation Test No. 1 Interval Tested from 4267 ft. to 4360 ft. Total Depth 4385 ft.
 Packer Depth 4267 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Packer Depth 4360 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4286 ft. Recorder Number 2774 Cap. 4300
 Bottom Recorder Depth (Outside) 4289 ft. Recorder Number 10265 Cap. 4675
 Below Straddle Recorder Depth 4372 ft. Recorder Number 1558 Cap. 4700

Drilling Contractor Murfin Drilling Rig #15 Drill Collar Length 124 I. D. 7.2 in.
 Mud Type starch Viscosity 52 Weight Pipe Length 660 I. D. 2.7 in.
 Weight 10.2 Water Loss 12.2 cc. Drill Pipe Length 3496 I. D. 3.8 in.
 Chlorides 37,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 93 ft. Size 5 1/2 OD in.
 Did Well Flow? - Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Very strong initial flow period.

Recovered 1130 ft. of very slightly gas cut muddy water
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Because of strong blow and testing Cherokee Sand a fifteen minute opening and thirty minute shut-in was run; no final open or close. No bottom hole temperature because gauge was installed improperly.

READ CHART #2774

Time Set Packer(s) <u>12:28</u>	A.M. P.M.	Time Started Off Bottom <u>1:15</u>	A.M. P.M.	Maximum Temperature <u>-</u>
Initial Hydrostatic Pressure	(A)	<u>2402</u>	P.S.I.	
Initial Flow Period	Minutes <u>15</u>	(B)	<u>263</u>	P.S.I. to (C) <u>480</u> P.S.I.
Initial Closed In Period	Minutes <u>33</u>	(D)	<u>1004</u>	P.S.I.
Final Flow Period	Minutes <u>--</u>	(E)	<u>--</u>	P.S.I. to (F) <u>--</u> P.S.I.
Final Closed In Period	Minutes <u>--</u>	(G)	<u>--</u>	P.S.I.
Final Hydrostatic Pressure	(H)	<u>2326</u>	P.S.I.	

WESTERN TESTING CO., INC.

Pressure Data

Date 2/14/81 Test Ticket No. 9872
 Recorder No. 2774 Capacity 4300 Location 4286 Ft.
 Clock No. --- Elevation ----- Well Temperature --- °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2402 P.S.I.	Open Tool	12:28P	M
B First Initial Flow Pressure	263 P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C First Final Flow Pressure	480 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D Initial Closed-in Pressure	1004 P.S.I.	Second Flow Pressure	-- Mins.	-- Mins.
E Second Initial Flow Pressure	-- P.S.I.	Final Closed-in Pressure	-- Mins.	-- Mins.
F Second Final Flow Pressure	-- P.S.I.			
G Final Closed-in Pressure	-- P.S.I.			
H Final Hydrostatic Mud	2326 P.S.I.			

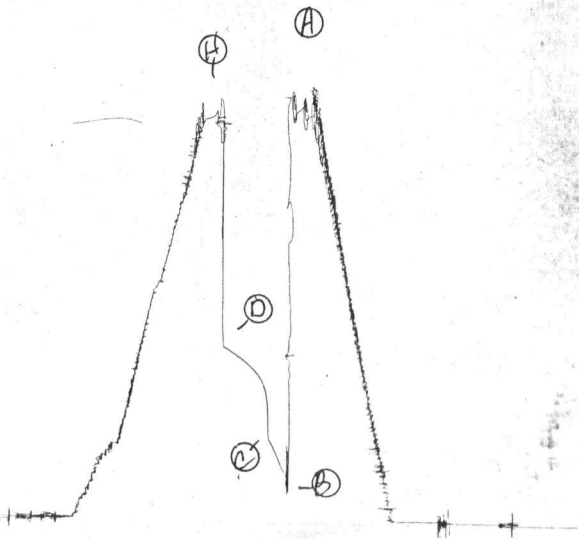
PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
	Breakdown: <u>3</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>0</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>0</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes	Press.	Point Minutes
P 1 <u>0</u>	263	0	480	
P 2 <u>5</u>	323	3	770	
P 3 <u>10</u>	408	6	827	
P 4 <u>15</u>	480	9	860	
P 5		12	885	
P 6		15	906	
P 7		18	928	
P 8		21	945	
P 9		24	958	
P10		27	978	
P11		30	991	
P12		33	1004	
P13				
P14				
P15				
P16				
P17				
P18				
P19				
P20				

2774

Site # 9872

I



1558

JK # 9872

Below Straddle

