Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company White & Ellis Drilling, Inc. Lease & Well No. #1 Herdman

Elevation - Formation Cherokee Sand Effective Pay - Ft. Ticket No. 11962

Date 6/5/81 Sec. 36 Twp. 16S Range 21W County Ness State Kansas

Test Approved by Paul D Koontz Western Representative Dan Delaney

Formation Test No. 1 Interval Tested from 4044 ft. to 4054 ft. Total Depth 4054 ft.

Packer Depth 4044 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4039 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4046 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 4049 ft. Recorder Number 6077 Cap. 4700

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor White & Ellis Rig #8 Drill Collar Length 360 I. D. 2.2 in.

Mud Type Starch Viscosity 43 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 18.4 cc. Drill Pipe Length 3655 I. D. 3.8 in.

Chlorides 47,000 P.P.M. Test Tool Length 29 ft. Tool Size 4½ in.

Jars: Make WTC Serial Number 417 Anchor Length 10 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size ½ in. Bottom Choke Size ½ in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Fair blow increasing to strong on initial flow period. STrong blow throughout final flow period.

Recovered 570 ft. of salt water Chlorides 65,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:05 A.M. ~~P.M.~~ Time Started Off Bottom 9:05 A.M. P.M. Maximum Temperature 119

Initial Hydrostatic Pressure ..... (A) 2109 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 115 P.S.I. to (C) 232 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 896 P.S.I.

Final Flow Period ..... Minutes 30 (E) 239 P.S.I. to (F) 303 P.S.I.

Final Closed In Period ..... Minutes 27 (G) 887 P.S.I.

Final Hydrostatic Pressure ..... (H) 2097 P.S.I.

WTC-

WESTERN TESTING CO., INC.

Pressure Data

Date 6/5/81 Test Ticket No. 11962

Recorder No. 6234 Capacity 4500 Location 4046 Ft.

Clock No. - Elevation - Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2109 P.S.I.	Open Tool	7:05A M	
B First Initial Flow Pressure	115 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	232 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	896 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	239 P.S.I.	Final Closed-in Pressure	30 Mins.	27 Mins.
F Second Final Flow Pressure	303 P.S.I.			
G Final Closed-in Pressure	887 P.S.I.			
H Final Hydrostatic Mud	2097 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: 6 Inc.	Breakdown: 10 Inc.	Breakdown: 6 Inc.	Breakdown: 9 Inc.
of 5 mins. and a	of 3 mins. and a	of 5 mins. and a	of 3 mins. and a
final inc. of 0 Min.	final inc. of 0 Min.	final inc. of 0 Min.	final inc. of 0 Min.

Point	Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	115	0	232	0	239	0	303
P 2	5	122	3	784	5	242	3	791
P 3	10	156	6	829	10	248	6	829
P 4	15	186	9	851	15	261	9	849
P 5	20	200	12	867	20	278	12	860
P 6	25	218	15	878	25	289	15	867
P 7	30	232	18	885	30	303	18	874
P 8			21	891			21	878
P 9			24	896			24	883
P10			27	896			27	887
P11			30	896				
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TKT # 11962