Company W. L. Kirkman, Inc. Lease & Well No. Heuszel #1

Elevation 1071 Kelly Bushing Formation Hoover Effective Pay -- Ft. Ticket No. 2598

Date 6/19/79 Sec. 11 Twp. 35S Range 1E County Sumner State Kansas

Test Approved by A. G. Siemens Western Representative Norman Allen

Formation Test No. 1 Interval Tested from 2192 ft. to 2215 ft. Total Depth 2215 ft.

Packer Depth 2192 ft. Size 5½OD in. Packer Depth - ft. Size - in.

Packer Depth 2187 ft. Size 5½OD in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2208 ft. Recorder Number 1564 Cap. 3150

Bottom Recorder Depth (Outside) 2211 ft. Recorder Number 1562 Cap. 3150

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

Drilling Contractor B. & N. Drilling Co. #12 Drill Collar Length 110 I. D. 2 in.

Mud Type chemical Viscosity 60 Weight Pipe Length - I. D. - in.

Weight 9.8 Water Loss 13.2 cc. Drill Pipe Length 2062 I. D. 2.7 in.

Chlorides 3,400 P.P.M. Test Tool Length 43 ft. Tool Size 4½OD in.

Jars: Make -- Serial Number -- Anchor Length 23 ft. Size 4½OD in.

Did Well Flow? No 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 3½IF in.

Blow: Strong ten minutes.

Recovered 990 ft. of salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:30 ~~A.M.~~ P.M. Time Started Off Bottom 8:10 ~~A.M.~~ P.M. Maximum Temperature 99

Initial Hydrostatic Pressure ..... (A) 1153 P.S.I.

Initial Flow Period ..... Minutes 10 (B) 358 P.S.I. to (C) 550 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 623 P.S.I.

Final Flow Period ..... Minutes (E) -- P.S.I. to (F) -- P.S.I.

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

Final Hydrostatic Pressure ..... (H) 1140 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/19/79 Test Ticket No. 2598

Recorder No. 1564 Capacity 3150 Location 2208 Ft.

Clock No. -- Elevation 1071 Kelly Bushing Well Temperature 99 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1153 P.S.I.		Open Tool	7:30P M	
B	First Initial Flow Pressure	358 P.S.I.		First Flow Pressure	10 Mins.	10 Mins.
C	First Final Flow Pressure	550 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	623 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	1140 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 2 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	358
P 2 5	444
P 3 10	550
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	550
3	608
6	614
9	617
12	620
15	622
18	623
21	623
24	623
27	623
30	623

Second Flow Pressure
Breakdown: 0 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.

Final Shut-In
Breakdown: 0 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.

Tkt # 2598
I