

DIAMOND TESTING

P. O. Box 157

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ORIGINAL

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15-007-22222

Company TXO Production Corporation Lease and Well No. Sternberger No. A-1

Location 1601 KB Formation Mississippi Effective Pay --- Ft. Ticket No. 562

Lease 2-20-89 Sec. 8 Twp. 35S Range 13W County Barber State Kansas

Tests Approved by Gerrell Veatch Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 4,855 Ft. to 4,930 Ft. Total Depth 4,930 Ft.

Packer Depth 4,850 Ft. Size 6 3/4 In. Packer Depth --- Ft. Size --- In.

Packer Depth 4,855 Ft. Size 6 3/4 In. Packer Depth --- Ft. Size --- In.

Depth of Selective Zone Set ---

Top Recorder Depth(Inside) 4,839 ft. Recorder Number 13556 Cap. 4,425 psi

Bottom Recorder Depth(Outside) 4,927 ft. Recorder Number 13498 Cap. 3,925 psi

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

Drilling Contractor Brandt Drilling Co., Inc. Drill Collar Length 476 ft. I.D. 2 1/4 In.

Mud Type Chemical Viscosity 53 Weight Pipe Length --- I.D. 2 7/8 In.

Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 4,349 ft. I.D. 3 1/2 In.

Chlorides 5,000 P.P.M. Test Tool Length 30 ft. Tool Size 3 1/2-FH In.

Jars: Make Bowen Serial Number 1 Anchor Length 44' perf. w/31' drill pipe Size 4 1/2-FH In.

Did Well Flow No Reversed Out No Surface Choke Size 1 In. Bottom Choke Size 5/8 In.

Main Hole Size 7 7/8 In. Tool Joint Size 4 1/2-XH In.

Blow 1st Open: Strong blow. Off bottom of bucket in 40 secs. Gas to surface in 14 mins.

2nd Open: Gas to surface immediately. Guaged 146,000 CF/D after 15 mins. then lost mud. Lost packer seat.

Recovered 1,945 ft. of gassy drilling mud = 23.1922 bbls.

Recovered --- ft. of ---

Recovered --- ft. of ---

Recovered --- ft. of ---

Recovered --- ft. of ---

Remarks ---

Time Set Packer(s) 1:30 A.M. PCMCX Time Started Off Bottom 4:00 A.M. PCMCX Maximum Temperature 120°

Initial Hydrostatic Pressure (A) 2400 P.S.I.

Initial Flow Period Minutes 30 (B) 143 P.S.I. to (C) 220 P.S.I.

Initial Closed In Period Minutes 60 (D) 1803 P.S.I.

Final Flow Period Minutes 15 (E) 275 P.S.I. to (F) --- P.S.I.

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

Final Hydrostatic Pressure (H) 2400 P.S.I.

ORIGINAL

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Pressure Data

15-007-22222

Date 2-20-89Test Ticket No. 562Recorder No. 13556Capacity 4,425 psi Location 4,839 Ft.Clock No. 33709Elevation 1601 KBWell Temperature 120 °F

A Initial Hydrostatic Mud 2421 P.S.I.
 B First Initial Flow Pressure 159 P.S.I.
 C First Final Flow Pressure 234 P.S.I.
 D Initial Closed-in Pressure 1816 P.S.I.
 E Second Initial Flow Pressure 290 P.S.I.
 F Second Final Flow Pressure -- P.S.I.
 G Final Closed-in Pressure -- P.S.I.
 H Final Hydrostatic Mud 2389 P.S.I.

Open Tool Given Actual
 First Flow Pressure 30 Mins. 30 Mins.
 Initial Closed-in Pressure 60 Mins. 61 Mins.
 Second Flow Pressure -- Mins. -- Mins.
 Final Closed-in Pressure -- Mins. -- Mins.

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 30 Min

Initial Shut-In

Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 60 Min.

Second Flow Pressure

Breakdown: -- Inc.
 of -- mins. and a
 final inc. of -- Min

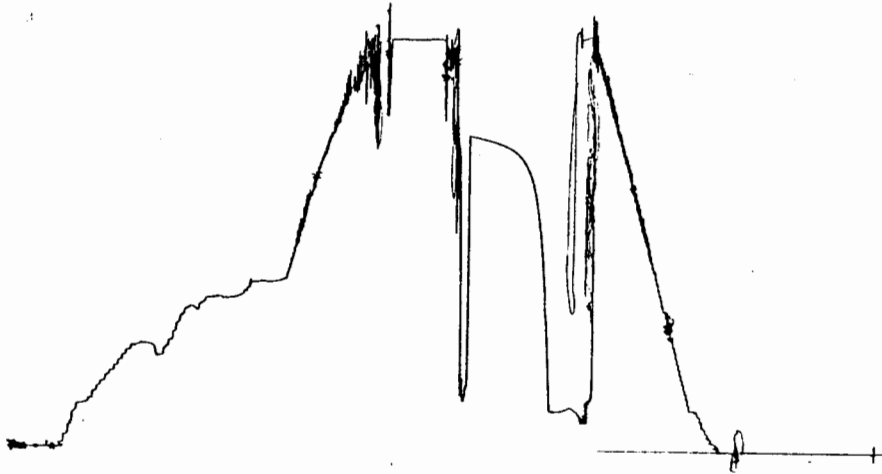
Final Shut-In

Breakdown: -- Inc.
 of -- mins. and a
 final inc. of -- Min.

Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	159	0	234				
P 2 3	159	3	695				
P 3 6	194	6	1133				
P 4 9	223	9	1337				
P 5 12	240	12	1498				
P 6 15	242	15	1578				
P 7 18	236	18	1637				
P 8 21	230	21	1670				
P 9 24	230	24	1704				
P10 27	231	27	1715				
P11 30	234	30	1739				
P12		33	1749				
P13		36	1761				
P14		39	1769				
P15		42	1776				
P16		45	1783				
P17		48	1792				
P18		51	1797				
P19		54	1804				
P20		57	1810				
		60	1814				

[illegible]

DST # 1 Inside 13556
C'OK 33709



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2400	2421	PSI
(B) First Initial Flow Pressure.....	143	159	PSI
(C) First Final Flow Pressure	220	234	PSI
(D) Initial Closed-in Pressure	1803	1816	PSI
(E) Second Initial Flow Pressure	275	290	PSI
(F) Second Final Flow Pressure.....	--	--	PSI
(G) Final Closed-in Pressure.....	--	--	PSI
(H) Final Hydrostatic Mud	2400	2389	PSI