

Company Murfin Drilling Company Lease & Well No. Cline-Mills #1-25  
 Elevation 1812 Ground Level Formation Indian Cave Effective Pay ---- Ft. Ticket No. 5390  
 Date 7/20/80 Sec. 25 Twp 33S Range 15W County Barber State Kansas  
 Test Approved by D. F. Moore Western Representative Jeff Piotrowski

Formation Test No. 1 Interval Tested from 3048 ft. to 3120 ft. Total Depth 3120 ft.  
 Packer Depth 3043 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3048 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3051 ft. Recorder Number 5673 Cap. 5400  
 Bottom Recorder Depth (Outside) 3054 ft. Recorder Number 1565 Cap. 4900  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Venture Drilling Rig #1 Drill Collar Length 120 I. D. 2.2 in.  
 Mud Type premix Viscosity 30 Weight Pipe Length - I. D. - in.  
 Weight 9.4 Water Loss No cc. Drill Pipe Length 2959 I. D. 3.2 in.  
 Chlorides 59,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.  
 Jars: Make -- Serial Number - Anchor Length DC 31-21 ft. Size 5 1/2 OD 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 4 1/2 FH in.

Blow: Weak on initial flow. No blow on final flow.

Recovered 65 ft. of drilling mud  
 Recovered - ft. of -  
 Remarks: -

Time Set Packer(s) 1:10 ~~A.M.~~ P.M. Time Started Off Bottom 3:10 ~~A.M.~~ P.M. Maximum Temperature 123°  
 Initial Hydrostatic Pressure ..... (A) 1538 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 79 P.S.I. to (C) 76 P.S.I.  
 Initial Closed In Period ..... Minutes 27 (D) 150 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 87 P.S.I. to (F) 74 P.S.I.  
 Final Closed In Period ..... Minutes 27 (G) 112 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1514 P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 7-20-80 Test Ticket No. 5390  
 Recorder No. 5673 Capacity 5400 Location 3051 Ft.  
 Clock No. -- Elevation 1812 Ground Level Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1538 P.S.I.	Open Tool	1:10 A.M.	
B First Initial Flow Pressure	79 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	76 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	150 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	87 P.S.I.	Final Closed-in Pressure	30 Mins.	27 Mins.
F Second Final Flow Pressure	74 P.S.I.			
G Final Closed-in Pressure	112 P.S.I.			
H Final Hydrostatic Mud	1514 P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	79	0	76	0	87	0	74
P 2	76	3	82	5	77	3	74
P 3	76	6	93	10	74	6	82
P 4	76	9	98	15	74	9	86
P 5	76	12	109	20	74	12	89
P 6	76	15	116	25	74	15	93
P 7	76	18	126	30	74	18	96
P 8		21	137			21	100
P 9		24	145			24	107
P10		27	150			27	112
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

5673  
DST #1

TKT #5390  
I

