



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

Company Ruffin Oil Company Lease & Well No. Ruffin #1
Elevation 1309 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 11151
Date 2/19/81 Sec. 30 Twp. 27S Range 1E County Sedgwick State Kansas
Test Approved by E. McNeil Western Representative Norman Allen

Formation Test No. 1 Interval Tested from 3827 ft. to 3330 ft. Total Depth 3330 ft.
Packer Depth 3287 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3282 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3293 ft. Recorder Number 1562 Cap. 3900
Bottom Recorder Depth (Outside) 3296 ft. Recorder Number 1563 Cap. 4200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Gabbert-Jones Drilling Rig #8 Drill Collar Length 150 I. D. 2 1/4 in.
Mud Type chemical Viscosity 46 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss 8.0 cc. Drill Pipe Length 3010 I. D. 3.8 in.
Chlorides 5,000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 407 Anchor Length 43 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

Blow: Strong blow throughout test.

Recovered 1280 ft. of salt water .14 Resistivity @ 60°F
Recovered - ft. of 98,000 ppm chlorides
Recovered - ft. of -
Recovered - ft. of -
Recovered - ft. of -

Remarks: _____

Time Set Packer(s) 3:45 ~~A.M.~~ P.M. Time Started Off Bottom 5:45 ~~A.M.~~ P.M. Maximum Temperature 116°
Initial Hydrostatic Pressure (A) 1700 P.S.I.
Initial Flow Period Minutes 30 (B) 141 P.S.I. to (C) 420 P.S.I.
Initial Closed In Period Minutes 27 (D) 1134 P.S.I.
Final Flow Period Minutes 30 (E) 475 P.S.I. to (F) 670 P.S.I.
Final Closed In Period Minutes 30 (G) 1134 P.S.I.
Final Hydrostatic Pressure (H) 1700 P.S.I.

WESTERN TESTING CO., INC.

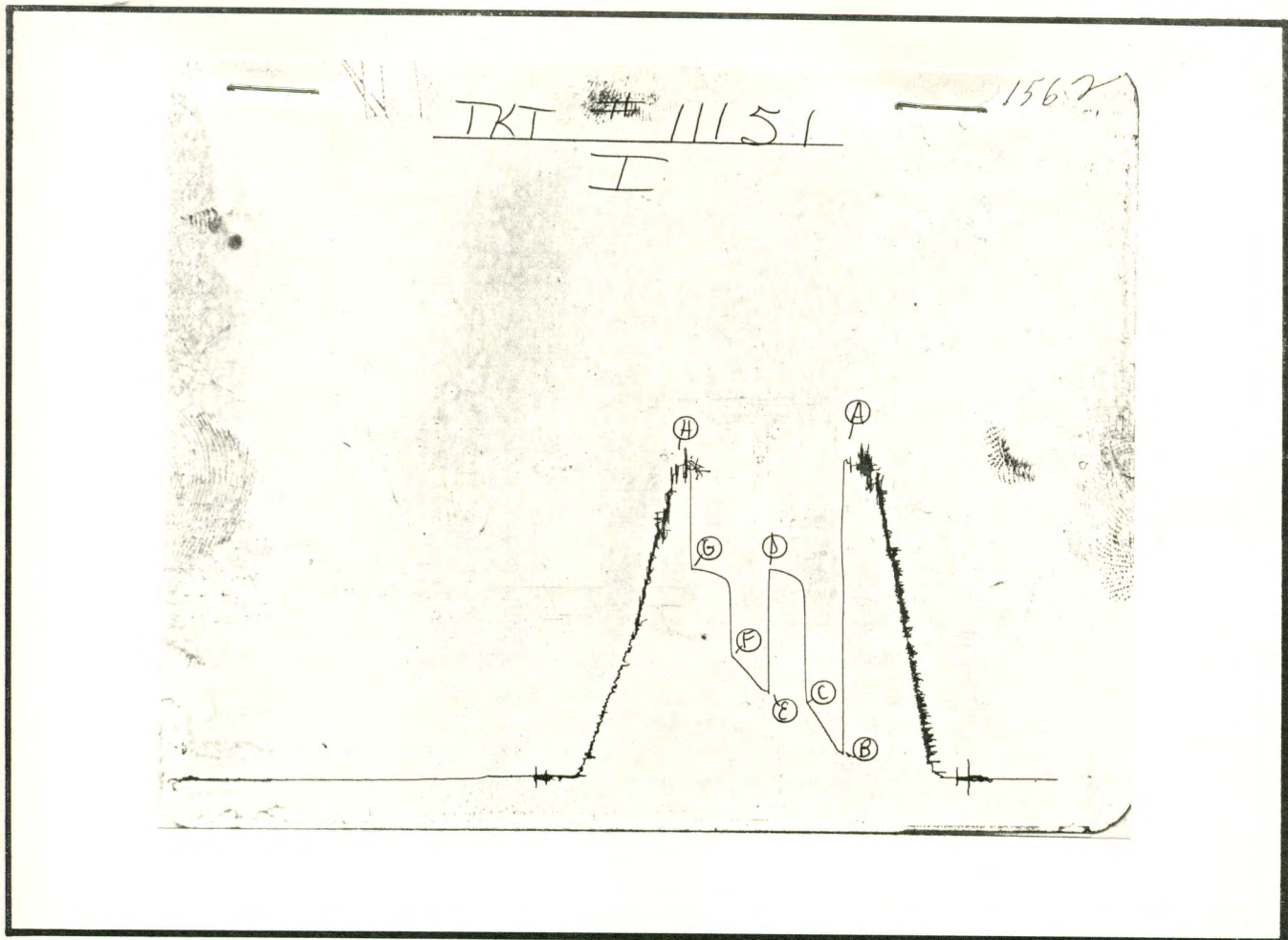
Pressure Data

Date 2/19/81 Recorder No. 1562 Capacity 3900 Test Ticket No. 11151
 Clock No. - Elevation 1309 Kelly Bushing Location 3293 Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1700 P.S.I.	Open Tool	3:45P	M
B First Initial Flow Pressure	141 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	420 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	1134 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	475 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	670 P.S.I.			
G Final Closed-in Pressure	1134 P.S.I.			
H Final Hydrostatic Mud	1700 P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	141	0	420	0	475	0	670	0
P 2	171	5	1043	3	485	5	1067	3
P 3	228	10	1075	6	523	10	1086	6
P 4	282	15	1091	9	566	15	1098	9
P 5	333	20	1103	12	606	20	1106	12
P 6	382	25	1111	15	644	25	1115	15
P 7	420	30	1121	18	670	30	1121	18
P 8			1127	21			1126	21
P 9			1129	24			1129	24
P10			1134	27			1132	27
P11							1134	30
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1700	1700	PSI
(B) First Initial Flow Pressure	140	141	PSI
(C) First Final Flow Pressure	420	420	PSI
(D) Initial Closed-in Pressure	1125	1134	PSI
(E) Second Initial Flow Pressure	480	475	PSI
(F) Second Final Flow Pressure	670	670	PSI
(G) Final Closed-in Pressure	1125	1134	PSI
(H) Final Hydrostatic Mud	1700	1700	PSI

SE SE SW