WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company A. Scott Ritchie Lease & Well No. Paul #1

Elevation 1317 Kelly Bushings Formation Mississippian Effective Pay Ft. Ticket No. 17696

Date 9-18-72 Sec. 26 Twp. 25S Range 3E County Butler State Kansas

Test Approved by Paul D. Koontz Western Representative Norman Allen

Formation Test No. 1 O.K. X Misrun Interval Tested From 2706' to 2742' Total Depth 2742'

Size Main Hole 7 7/8" Rat Hole Conv. B.T. X Damaged Yes X No Conv. X B.T. Damaged Yes X No

Packer Depth 2700 Ft. Size 6 3/4" Packer Depth 2706 Ft. Size 6 3/4"

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 36 Ft. Size 5 1/2" O.D.

RECORDERS Depth 2735 Ft. Clock No. 10412 Depth 2738 Ft. Clock No. 8474

Top Make Kuster Cap 4150 No. 2606 Inside Outside Bottom Make Kuster Cap 3150 No. 1565 Inside Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap No. Inside Outside Bottom Make Cap No. Inside Outside

Time Set Packer 7:43 P. M

Tool Open I.F.P. From 7:45 M. to 8:00P. M. Hr. 15 Min. From (B) 66 P.S.I. To (C) 60 P.S.I.

Tool Closed I.C.I.P. From 8:00 M. to 8:45P. M. Hr. 45 Min. (D) 678 P.S.I.

Tool Open F.F.P. From 8:45 M. to 11:45P. M. Hr. 180 Min. From (E) 60 P.S.I. To (F) 139 P.S.I.

Tool Closed F.C.I.P. From 11:45 M. to 12:45A. M. Hr. 60 Min. (G) 668 P.S.I.

Initial Hydrostatic Pressure (A) 1393 P.S.I. Final Hydrostatic Pressure (H) 1375 P.S.I.

SURFACE INFORMATION	Size Choke 3/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Weak thru out test Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 90 feet gas in pipe (30 feet oil & gas cut mud)
(180 feet heavy oil & gas cut mud) (60feet slightly muddy salt water)

Reversed Out Yes X No Mud Type Chem. Viscosity 41 Weight 9.7 Water Loss 16 cc. Maximum Temp. 112 °F

Type Circ. Sub. Pin Safety Joint No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where?

Length Drill Pipe 1722 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 810 ft. I.D. Weight Pipe 3.25 in. Length Drill Collars 210 ft.

I.D. Drill Collars 2 1/4 in. Length D.S.T. Tool 56 ft.

Remarks Fluid samples ground out 30 feet oil & gas cut mud = 10% oil 35% water 55% mud
180 feet heavy oil & gas cut mud = 20% oil 30% water 50%mud
60 feet slightly muddy salt water = 85% salt water 15% mud

WESTERN TESTING CO., INC.
Pressure Data

Date 9-18-72 Test Ticket No. 17696

Recorder No. 2606 Capacity 4150 Location 2735 Ft.

Clock No. 10412 Elevation 1317 Kelly Bushings Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1393 P.S.I.	Open Tool	7:43 P. M	
B First Initial Flow Pressure	66 P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C First Final Flow Pressure	60 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	678 P.S.I.	Second Flow Pressure	180 Mins.	175 Mins.
E Second Initial Flow Pressure	60 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	139 P.S.I.			
G Final Closed-in Pressure	668 P.S.I.			
H Final Hydrostatic Mud	1375 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	66
P 2 5	64
P 3 10	58
15	60
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: 15 Inc. of 3 mins. and a final inc. of 0 Min.

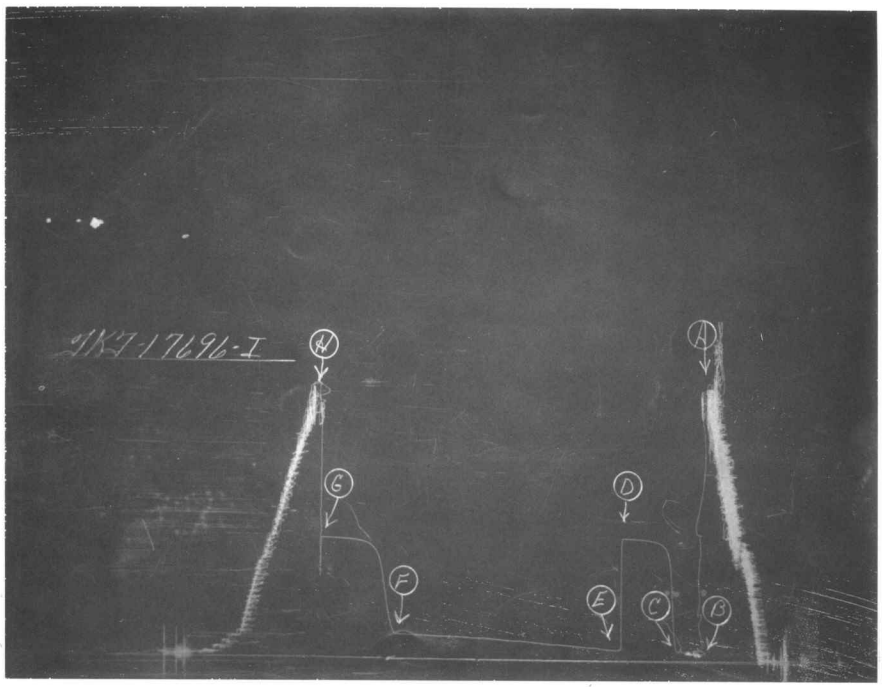
Point Minutes	Press.
0	60
3	147
6	512
9	611
12	638
15	653
18	659
21	665
24	667
27	669
30	671
33	673
36	675
39	677
42	678
45	678

Second Flow Pressure
Breakdown: 35 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	60
5	60
10	62
15	66
20	70
25	74
30	76
35	81
40	83
45	87
50	87
55	89
60	93
65	97
70	101
75	104
80	104
85	108
90	110
95	112
100	116
105	118
110	120
115	120
120	124
125	125
130	126
135	126
140	128
145	128
150 165	132135
155 170	133137
160 175	135139

Final Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	139
3	187
6	287
9	424
12	541
15	593
18	620
21	636
24	644
27	649
30	653
33	655
36	659
39	661
42	662
45	663
48	664
51	665
54	666
57	667
60	668



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1390	1393	PSI
(B)	First Initial Flow Pressure	60	66	PSI
(C)	First Final Flow Pressure	60	60	PSI
(D)	Initial Closed-in Pressure	685	678	PSI
(E)	Second Initial Flow Pressure	70	60	PSI
(F)	Second Final Flow Pressure	153	139	PSI
(G)	Final Closed-in Pressure	675	668	PSI
(H)	Final Hydrostatic Mud	1370	1375	PSI

COMPANY A. Scott Ritchie LEASE AND WELL NO. Paul #1 SEC. 26 TWP. 25S RGE. 3E TEST NO. 1 DATE 9-18-72