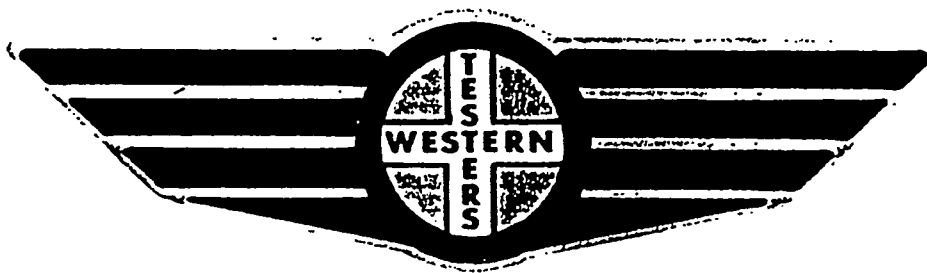


# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RINE EXPLORATION

LEASE & WELL NO. PATMON #1-3

SEC. 3 TWP. 9S RGE. 29W TEST NO. 1 DATE 12-15-87

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 12-15-87 TICKET : 13208  
CUSTOMER : RINE EXPLORATION LEASE : PATMAN  
WELL : #1-3 TEST: 1 GEOLOGIST : J. ALBERTS  
ELEVATION : 2823 GS FORMATION : L-KC  
SECTION : 3 TOWNSHIP : 9S  
RANGE : 29W COUNTY : SHERIDAN STATE : KANSAS  
GAUGE SN# : 6233 RANGE : 4000 CLOCK : 12

INTERVAL FROM : 3899 TO : 3980 TOTAL DEPTH : 3980  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3894 SIZE : 6.75  
PACKER DEPTH : 3899 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : ABERCROMBIE RIG #4  
MUD TYPE : CHEMICAL VISCOSITY : 41  
WEIGHT : 9.4 WATER LOSS (CC) : 8.8  
CHLORIDES (PPM) : 1000  
JARS-MAKE : NO SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00  
WEIGHT PIPE LENGTH : 412 FT I.D. inch : 3.20  
DRILL PIPE LENGTH : 3467 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 81 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW-INCREASING TO STRONG-8" IN WTR  
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW-2" IN WATER.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 120 FT OF: MUD  
RECOVERED : 120 FT OF: MUDDY WATER  
50% WTR-50% MUD  
CHLORIDES: 32000 PPM

Total Barrels Fluid = 2.39  
Total Fluid Prod Rate = 36.18 BFPD  
Indicated Wtr Rate = 11.76 BWPD

REMARK 1 :  
REMARK 2 :  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 1:20 AM  
WELL TEMPERATURE : 117  
INITIAL HYDROSTATIC PRESSURE (A) 1988  
INITIAL FLOW PERIOD MIN: 35 (B) 36 PSI TO (C) : 64  
INITIAL CLOSED IN PERIOD MIN: 30 (D) 1209  
FINAL FLOW PERIOD MIN: 60 (E) 96 PSI TO (F) : 132  
FINAL CLOSED IN PERIOD MIN: 60 (G) 1205  
FINAL HYDROSTATIC PRESSURE (H) 1967

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report

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COMPANY : RINE EXPLORATION  
RIG : SHERIDAN-KANSAS  
FIELD : PATMAN  
WELL : #1-3  
DATE : 12-15-87  
GAUGE NO : 6233

OPERATIONAL COMMENTS

COMPANY : RINE EXPLORATION  
 WELL : #1-3  
 GAUGE # : 6233  
 DATE : 15/12/87

FIELD : PATMAN  
 JOB # : 13208  
 DEPTH : 3980  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P_{(i-1)}$
1	1:20:0	0.000	36.000	117.00	0.000
2	1:24:59	0.083	36.000	117.00	0.000
3	1:30:0	0.167	36.000	117.00	0.000
4	1:35:0	0.250	40.000	117.00	4.000
5	1:39:59	0.333	46.000	117.00	6.000
6	1:45:0	0.417	52.000	117.00	6.000
7	1:50:0	0.500	58.000	117.00	6.000
8	1:54:59	0.583	64.000	117.00	6.000
9	1:57:59	0.633	700.000	117.00	636.000
10	2:0:59	0.683	1031.000	117.00	331.000
11	2:3:59	0.733	1135.000	117.00	104.000
12	2:6:59	0.783	1167.000	117.00	32.000
13	2:9:59	0.833	1181.000	117.00	14.000
14	2:12:59	0.883	1189.000	117.00	8.000
15	2:15:59	0.933	1196.000	117.00	7.000
16	2:18:59	0.983	1202.000	117.00	6.000
17	2:21:59	1.033	1206.000	117.00	4.000
18	2:24:59	1.083	1209.000	117.00	3.000
19	2:26:0	1.100	96.000	117.00	-1113.000
20	2:29:59	1.167	96.000	117.00	0.000
21	2:35:0	1.250	96.000	117.00	0.000
22	2:39:59	1.333	96.000	117.00	0.000
23	2:44:59	1.417	96.000	117.00	0.000
24	2:50:0	1.500	99.000	117.00	3.000
25	2:54:59	1.583	102.000	117.00	3.000
26	2:59:59	1.667	106.000	117.00	4.000
27	3:5:0	1.750	112.000	117.00	6.000
28	3:9:59	1.833	118.000	117.00	6.000
29	3:14:59	1.917	123.000	117.00	5.000
30	3:20:0	2.000	129.000	117.00	6.000
31	3:24:59	2.083	132.000	117.00	3.000
32	3:27:59	2.133	612.000	117.00	480.000
33	3:30:59	2.183	981.000	117.00	369.000
34	3:33:59	2.233	1104.000	117.00	123.000
35	3:36:59	2.283	1137.000	117.00	33.000
36	3:39:59	2.333	1153.000	117.00	16.000
37	3:42:59	2.383	1162.000	117.00	9.000
38	3:45:59	2.433	1170.000	117.00	8.000
39	3:48:59	2.483	1176.000	117.00	6.000
40	3:51:59	2.533	1181.000	117.00	5.000
41	3:54:59	2.583	1184.000	117.00	3.000
42	3:57:59	2.633	1187.000	117.00	3.000
43	4:0:59	2.683	1189.000	117.00	2.000
44	4:3:59	2.733	1194.000	117.00	5.000
45	4:6:59	2.783	1196.000	117.00	2.000
46	4:9:59	2.833	1198.000	117.00	2.000
47	4:12:59	2.883	1200.000	117.00	2.000
48	4:15:59	2.933	1202.000	117.00	2.000
49	4:18:59	2.983	1203.000	117.00	1.000
50	4:21:59	3.033	1204.000	117.00	1.000
51	4:24:59	3.083	1205.000	117.00	1.000

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