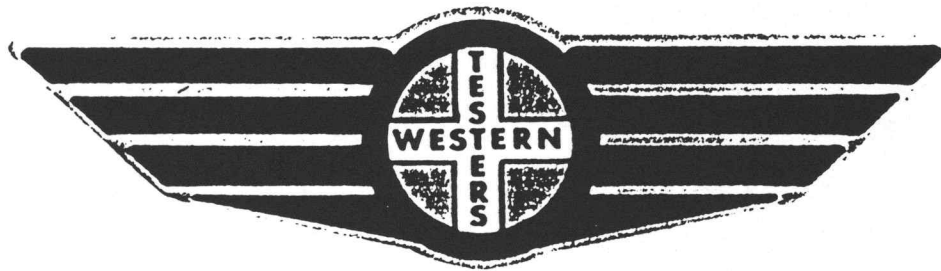


# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY BLACK PETROLEUM COMPANY LEASE & WELL NO. KRYSL #1 SEC. 5 TWP. 10S RGE. 16W TEST NO. 1 DATE 9/26/87

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 9/26/87 TICKET : 11827  
CUSTOMER : BLACK PETROLEUM COMPANY LEASE : KRYSL  
WELL : 1 TEST: 1 GEOLOGIST : DOUGLASS  
ELEVATION : 1985 KB FORMATION : TOPEKA  
SECTION : 5 TOWNSHIP : 10S  
RANGE : 16W COUNTY : ROOKS STATE : KANSAS  
GAUGE SN# : 3849 RANGE : 4200 CLOCK : 12

INTERVAL FROM : 2898 TO : 2920 TOTAL DEPTH : 2920  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 2893 SIZE : 6.75  
PACKER DEPTH : 2898 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : EMPHASIS OIL RIG 7  
MUD TYPE : STARCH VISCOSITY : 40  
WEIGHT : 9.3 WATER LOSS (CC) : 8.  
CHLORIDES (PPM) : 45000  
JARS-MAKE : SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 29 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 2849 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 22 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD FAIR BLOW IN WATER  
BLOW COMMENT #2 : INCREASING TO 5 INCHES IN 15 MINUTES-THEN  
BLOW COMMENT #3 : DYING TO 2 INCHES.  
BLOW COMMENT #4 : FINAL FLOW PERIOD NO BLOW-FLUSHED TOOL.

RECOVERED : 90 FT OF: MUD

Total Barrels Fluid = 0.99  
Total Fluid Prod Rate = 23.81 BFPD  
Indicated Wtr Rate = 2.38 BWPD

REMARK 1 :  
REMARK 2 : SLID TOOL 7 FEET TO BOTTOM  
REMARK 3 :  
REMARK 4 : CHLORIDES 45000 PPM

SET PACKER(S) : 6:10 PM

TIME STARTED OFF BOTTOM : 8:45 PM

WELL TEMPERATURE : 106

INITIAL HYDROSTATIC PRESSURE

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 45

FINAL FLOW PERIOD MIN: 30

FINAL CLOSED IN PERIOD MIN: 51

FINAL HYDROSTATIC PRESSURE

(A) 1470

(B) 66

(D) 981

(E) 68

(G) 936

(H) 1404

PSI TO (C) : 66

PSI TO (F) : 68

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report

COMPANY : BLACK PETROLEUM COMPANY  
RIG : ROOKS-KANSAS  
FIELD : KRYSL  
WELL : 1  
DATE : 9/26/87  
GAUGE NO : 3849

OPERATIONAL COMMENTS

SLID TOOL 7 FEET TO BOTTOM

CHLORIDES 45000 PPM

COMPANY : BLACK PETROLEUM COMPANY  
 WELL : 1  
 GAUGE # : 3849  
 DATE : 26/ 9/87

FIELD : KRYSL  
 JOB # : 11827  
 DEPTH : 2920  
 TEST :

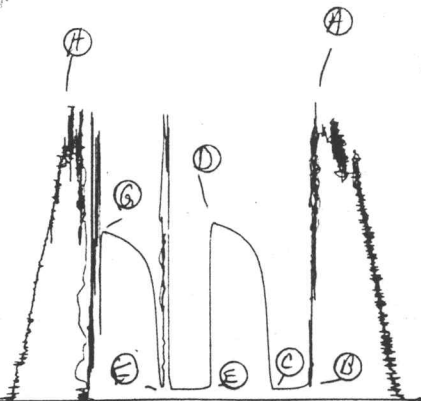
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P_{(i-1)}$
1	6:10: 0	0.000	66.000	106.00	0.000
2	6:14:59	0.083	66.000	106.00	0.000
3	6:20: 0	0.167	66.000	106.00	0.000
4	6:25: 0	0.250	66.000	106.00	0.000
5	6:29:59	0.333	66.000	106.00	0.000
6	6:35: 0	0.417	66.000	106.00	0.000
7	6:40: 0	0.500	66.000	106.00	0.000
8	6:43: 0	0.550	340.000	106.00	274.000
9	6:46: 0	0.600	621.000	106.00	281.000
10	6:49: 0	0.650	737.000	106.00	116.000
11	6:52: 0	0.700	810.000	106.00	73.000
12	6:55: 0	0.750	845.000	106.00	35.000
13	6:58: 0	0.800	876.000	106.00	31.000
14	7: 1: 0	0.850	896.000	106.00	20.000
15	7: 4: 0	0.900	918.000	106.00	22.000
16	7: 7: 0	0.950	931.000	106.00	13.000
17	7:10: 0	1.000	944.000	106.00	13.000
18	7:13: 0	1.050	954.000	106.00	10.000
19	7:16: 0	1.100	963.000	106.00	9.000
20	7:19: 0	1.150	970.000	106.00	7.000
21	7:22: 0	1.200	976.000	106.00	6.000
22	7:25: 0	1.250	981.000	106.00	5.000
23	7:26: 0	1.267	68.000	106.00	-913.000
24	7:29:59	1.333	68.000	106.00	0.000
25	7:35: 0	1.417	68.000	106.00	0.000
26	7:40: 0	1.500	68.000	106.00	0.000
27	7:44:59	1.583	68.000	106.00	0.000
28	7:50: 0	1.667	68.000	106.00	0.000
29	7:55: 0	1.750	68.000	106.00	0.000
30	7:58: 0	1.800	80.000	106.00	12.000
31	8: 1: 0	1.850	80.000	106.00	0.000
32	8: 4: 0	1.900	180.000	106.00	100.000
33	8: 7: 0	1.950	539.000	106.00	359.000
34	8:10: 0	2.000	695.000	106.00	156.000
35	8:13: 0	2.050	750.000	106.00	55.000
36	8:16: 0	2.100	802.000	106.00	52.000
37	8:19: 0	2.150	826.000	106.00	24.000
38	8:22: 0	2.200	847.000	106.00	21.000
39	8:25: 0	2.250	867.000	106.00	20.000
40	8:28: 0	2.300	882.000	106.00	15.000
41	8:31: 0	2.350	895.000	106.00	13.000
42	8:34: 0	2.400	908.000	106.00	13.000
43	8:37: 0	2.450	917.000	106.00	9.000
44	8:40: 0	2.500	927.000	106.00	10.000
45	8:43: 0	2.550	931.000	106.00	4.000
46	8:46: 0	2.600	936.000	106.00	5.000

WESTERN TESTING CO. INC.

3849

TK+ 11827

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