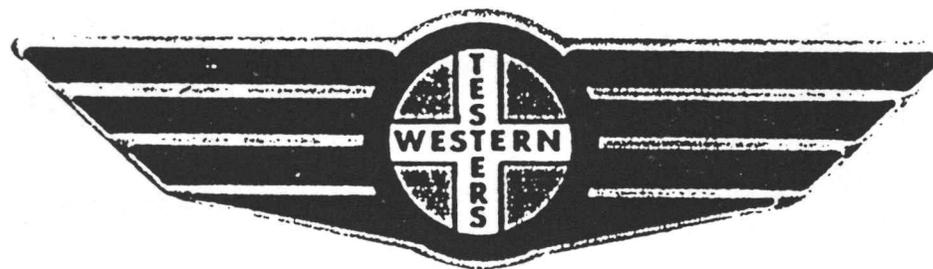


# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RANGE OIL COMPANY INC. LEASE & WELL NO. SALTER "A" #2 SEC. 33 TWP. 26 SRGE. 6E TEST NO. 1 DATE 9/5/88

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 9-5-88 TICKET : 14027  
CUSTOMER : RANGE OIL COMPANY INC. LEASE : SALTER "A"  
WELL : #2 TEST: 1 GEOLOGIST : R OLSEN  
ELEVATION : 1415 KB FORMATION : MISS-DOLOMITE  
SECTION : 33 TOWNSHIP : 26S  
RANGE : 6E COUNTY : BUTLER STATE : KANSAS  
GAUGE SN# : 10979 RANGE : 4100 CLOCK : 12

INTERVAL FROM : 2776 TO : 2785 TOTAL DEPTH : 2485

DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 2771 SIZE : 6.63  
PACKER DEPTH : 2776 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : RANGE RIG 1  
MUD TYPE : CHEMICAL VISCOSITY : 44  
WEIGHT : 9.9 WATER LOSS (CC) : 11.2  
CHLORIDES (PPM) : 1700  
JARS-MAKE : - SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 180 FT I.D. inch : 2.25  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 2576 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 9 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 : WEAK BLOW THROUGHOUT TEST.  
BLOW COMMENT #2 :  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 1 FT OF: FREE OIL (38 GRAVITY CORRECTED)  
RECOVERED : 75 FT OF: SLIGHTLY MUDDY SALT WATER /SLT SHOW OF OIL  
OIL LESS THAN 2%  
.36 RESISTIVITY @ 78 DEG.F.  
CHLORIDES: 53000 PPM

Total Barrels Fluid = 0.37  
Total Fluid Prod Rate = 5.98 BFPD  
Indicated Oil Rate = 0.24 BOPD  
Indicated Wtr Rate = 3.54 BWPD  
Corrected Oil Rate = 6.09 BOPD  
Corrected Wtr Rate = 91.42 BWPD

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

SET PACKER(S) : 3:00 AM                      TIME STARTED OFF BOTTOM : 6:00 AM  
WELL TEMPERATURE : 104  
INITIAL HYDROSTATIC PRESSURE                      (A) 1467  
INITIAL FLOW PERIOD                      MIN: 30                      (B) 17                      PSI TO (C) : 18  
INITIAL CLOSED IN PERIOD                      MIN: 33                      (D) 674  
FINAL FLOW PERIOD                      MIN: 60                      (E) 39                      PSI TO (F) : 45  
FINAL CLOSED IN PERIOD                      MIN: 63                      (G) 667  
FINAL HYDROSTATIC PRESSURE                      (H) 1452

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
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COMPANY : RANGE OIL COMPANY INC.  
RIG : BUTLER-KANSAS  
FIELD : SALTER "A"  
WELL : #2  
DATE : 9-5-88  
GAUGE NO : 10979

OPERATIONAL COMMENTS

COMPANY : RANGE OIL COMPANY INC.  
WELL : #2  
GAUGE # : 10979  
DATE : 5/ 9/88

FIELD : SALTER "A"  
JOB # : 14027  
DEPTH : 2485  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW					
2	3: 0: 0	0.000	17.000	104.00	0.000
3	3: 4: 59	0.083	17.000	104.00	0.000
4	3:10: 0	0.167	17.000	104.00	0.000
5	3:15: 0	0.250	18.000	104.00	1.000
6	3:19:59	0.333	18.000	104.00	0.000
7	3:25: 0	0.417	18.000	104.00	0.000
8	3:30: 0	0.500	18.000	104.00	0.000
INITIAL SHUT-IN					
9	3:33: 0	0.550	116.000	104.00	98.000
10	3:36: 0	0.600	336.000	104.00	220.000
11	3:39: 0	0.650	506.000	104.00	170.000
12	3:42: 0	0.700	568.000	104.00	62.000
13	3:45: 0	0.750	600.000	104.00	32.000
14	3:48: 0	0.800	622.000	104.00	22.000
15	3:51: 0	0.850	637.000	104.00	15.000
16	3:54: 0	0.900	650.000	104.00	13.000
17	3:57: 0	0.950	659.000	104.00	9.000
18	4: 0: 0	1.000	668.000	104.00	9.000
19	4: 2: 59	1.050	674.000	104.00	6.000
FINAL FLOW * SLIGHT PLUGGING					
20	4: 4: 0	1.067	39.000	104.00	-635.000
21	4: 7: 59	1.133	39.000	104.00	0.000
22	4:13: 0	1.217	39.000	104.00	0.000
23	4:18: 0	1.300	39.000	104.00	0.000
24	4:22:59	1.383	39.000	104.00	0.000
25	4:28: 0	1.467	40.000	104.00	1.000
26	4:33: 0	1.550	41.000	104.00	1.000
27	4:37:59	1.633	42.000	104.00	1.000
28	4:43: 0	1.717	43.000	104.00	1.000
29	4:48: 0	1.800	44.000	104.00	1.000
30	4:52:59	1.883	45.000	104.00	1.000
31	4:58: 0	1.967	45.000	104.00	0.000
32	5: 3: 0	2.050	45.000	104.00	0.000
FINAL SHUT-IN					
33	5: 5: 59	2.100	121.000	104.00	76.000
34	5: 8: 59	2.150	313.000	104.00	192.000
35	5:12: 0	2.200	443.000	104.00	130.000
36	5:15: 0	2.250	504.000	104.00	61.000
37	5:18: 0	2.300	541.000	104.00	37.000
38	5:21: 0	2.350	564.000	104.00	23.000
39	5:23:59	2.400	585.000	104.00	21.000
40	5:27: 0	2.450	597.000	104.00	12.000
41	5:30: 0	2.500	607.000	104.00	10.000
42	5:33: 0	2.550	616.000	104.00	9.000
43	5:36: 0	2.600	623.000	104.00	7.000
44	5:39: 0	2.650	630.000	104.00	7.000
45	5:41:59	2.700	636.000	104.00	6.000
46	5:45: 0	2.750	642.000	104.00	6.000
47	5:48: 0	2.800	645.000	104.00	3.000
48	5:51: 0	2.850	649.000	104.00	4.000

COMPANY : RANGE OIL COMPANY INC.  
WELL : #2  
GAUGE # : 10979  
DATE : 5/ 9/88

FIELD : SALTER "A"  
JOB # : 14027  
DEPTH : 2485  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	5:54: 0	2.900	652.000	104.00	3.000
50	5:56:59	2.950	656.000	104.00	4.000
51	6: 0: 0	3.000	659.000	104.00	3.000
52	6: 3: 0	3.050	663.000	104.00	4.000
53	6: 6: 0	3.100	667.000	104.00	4.000

WESTERN TESTING CO. INC.

Site # 14027

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DST # 1

14027

JK # 14027

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