

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	10-12-88	TICKET	:	14606
CUSTOMER	:	RANGE OIL COMPANY INC.	LEASE	:	WOLF
WELL	:	#1	TEST:	:	1
ELEVATION	:	1338 KB	GEOLOGIST	:	R OLSEN
SECTION	:	8	FORMATION	:	MISSISSIPPI
RANGE	:	3E	TOWNSHIP	:	26S
Gauge SN#	:	13552	STATE	:	KANSAS
		COUNTY :	RANGE :		CLOCK :
			4050		12

INTERVAL FROM	:	2774	TO	:	2793	TOTAL DEPTH	:	2793
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	2769	SIZE	:	6.63			
PACKER DEPTH	:	2774	SIZE	:	6.63			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	RANGE RIG 2			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	44
WEIGHT	:	10.0	WATER LOSS (CC)	:	11.2
CHLORIDES (PPM)	:	2900			
JARS-MAKE	:	-	SERIAL NUMBER	:	
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	120	FT	I.D. inch	:	2.25
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	2633	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	21	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	19	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 FH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW INCREASED TO FAIR.
BLOW COMMENT #2 : FINAL FLOW-FAIR BLOW INCREASED TO STRONG.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 80 FT OF: CLEAN GASSY OIL (46 GRAVITY)
RECOVERED : 70 FT OF: OIL & GAS CUT MUD
(25% OIL) (10% GAS)

Total Barrels Fluid = 1.01
Total Fluid Prod Rate = 16.17 BFPD
Indicated Oil Rate = 10.51 BOPD
Indicated Wtr Rate = 0.49 BWPD
Corrected Oil Rate = 5.94 BOPD
Corrected Wtr Rate = 0.27 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 240 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 3:35 PM TIME STARTED OFF BOTTOM : 6:35 PM
WELL TEMPERATURE : 105
INITIAL HYDROSTATIC PRESSURE (A) 1528
INITIAL FLOW PERIOD MIN: 30 (B) 85 PSI TO (C) : 85
INITIAL CLOSED IN PERIOD MIN: 30 (D) 644
FINAL FLOW PERIOD MIN: 60 (E) 104 PSI TO (F) : 104
FINAL CLOSED IN PERIOD MIN: 57 (G) 637
FINAL HYDROSTATIC PRESSURE (H) 1487

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RANGE OIL COMPANY INC.
RIG : BUTLER-KANSAS
FIELD : WOLF
WELL : #1
DATE : 10-12-88
GAUGE NO : 13552

OPERATIONAL COMMENTS

RECOVERED 240 FEET OF GAS ABOVE FLUID.

COMPANY : RANGE OIL COMPANY INC.
 WELL : #1
 GAUGE # : 13552
 DATE : 12/10/88

FIELD : WOLF
 JOB # : 14606
 DEPTH : 2793
 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	3:35: 0	0.000	85.000	105.00	0.000
3	3:39:59	0.083	85.000	105.00	0.000
4	3:45: 0	0.167	85.000	105.00	0.000
5	3:50: 0	0.250	85.000	105.00	0.000
6	3:54:59	0.333	85.000	105.00	0.000
7	4: 0: 0	0.417	85.000	105.00	0.000
8	4: 5: 0	0.500	85.000	105.00	0.000
INITIAL SHUT-IN					
9	4: 8: 0	0.550	117.000	105.00	32.000
10	4:11: 0	0.600	264.000	105.00	147.000
11	4:14: 0	0.650	434.000	105.00	170.000
12	4:17: 0	0.700	518.000	105.00	84.000
13	4:20: 0	0.750	562.000	105.00	44.000
14	4:23: 0	0.800	590.000	105.00	28.000
15	4:26: 0	0.850	610.000	105.00	20.000
16	4:29: 0	0.900	623.000	105.00	13.000
17	4:32: 0	0.950	635.000	105.00	12.000
18	4:35: 0	1.000	644.000	105.00	9.000
FINAL FLOW					
19	4:36: 0	1.017	104.000	105.00	-540.000
20	4:39:59	1.083	104.000	105.00	0.000
21	4:45: 0	1.167	104.000	105.00	0.000
22	4:50: 0	1.250	104.000	105.00	0.000
23	4:54:59	1.333	104.000	105.00	0.000
24	5: 0: 0	1.417	104.000	105.00	0.000
25	5: 5: 0	1.500	104.000	105.00	0.000
26	5: 9:59	1.583	104.000	105.00	0.000
27	5:15: 0	1.667	104.000	105.00	0.000
28	5:20: 0	1.750	104.000	105.00	0.000
29	5:24:59	1.833	104.000	105.00	0.000
30	5:30: 0	1.917	104.000	105.00	0.000
31	5:35: 0	2.000	104.000	105.00	0.000
FINAL SHUT-IN					
32	5:38: 0	2.050	132.000	105.00	28.000
33	5:41: 0	2.100	245.000	105.00	113.000
34	5:44: 0	2.150	369.000	105.00	124.000
35	5:47: 0	2.200	449.000	105.00	80.000
36	5:50: 0	2.250	497.000	105.00	48.000
37	5:53: 0	2.300	524.000	105.00	27.000
38	5:56: 0	2.350	544.000	105.00	20.000
39	5:59: 0	2.400	562.000	105.00	18.000
40	6: 2: 0	2.450	574.000	105.00	12.000
41	6: 5: 0	2.500	587.000	105.00	13.000
42	6: 8: 0	2.550	596.000	105.00	9.000
43	6:11: 0	2.600	604.000	105.00	8.000
44	6:14: 0	2.650	612.000	105.00	8.000
45	6:17: 0	2.700	618.000	105.00	6.000
46	6:20: 0	2.750	622.000	105.00	4.000
47	6:23: 0	2.800	627.000	105.00	5.000
48	6:26: 0	2.850	631.000	105.00	4.000

COMPANY : RANGE OIL COMPANY INC.

WELL : #1

GAUGE # : 13552

DATE : 12/10/88

FIELD : WOLF

JOB # : 14606

DEPTH : 2793

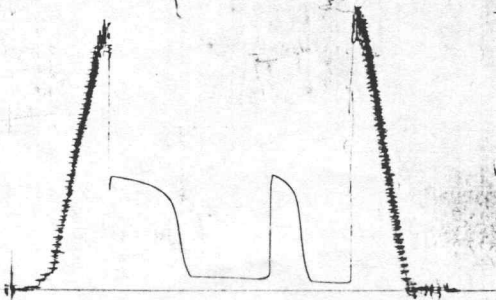
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	6:29: 0	2.900	635.000	105.00	4.000
50	6:32: 0	2.950	637.000	105.00	2.000

WESTERN TESTING CO. INC.

2K # 14606

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St #14606

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