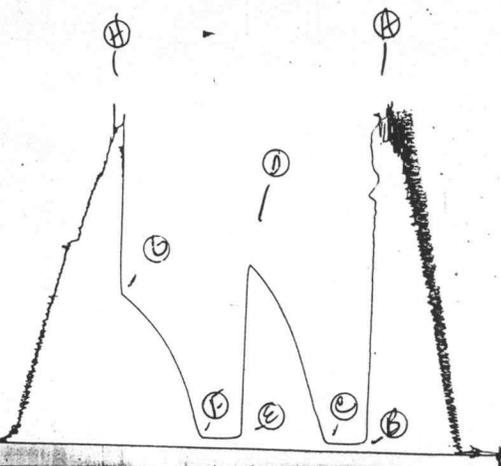


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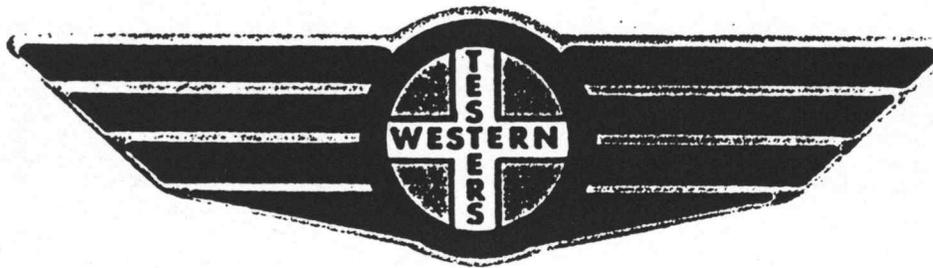
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Dist # 1
13889

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RINE EXPLORATION

LEASE & WELL NO.

COOPER #1-32

SEC. 32

TWP. 31S

RGE. 11W

TEST NO. 1

DATE

2/19/88

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 2-19-88 TICKET : 13889
CUSTOMER : RINE EXPLORATION LEASE : COOPER
WELL : #1-32 TEST: 1 GEOLOGIST : T. McELROY
ELEVATION : 1569 GL FORMATION : DOUGLAS
SECTION : 32 TOWNSHIP : 31S
RANGE : 11W COUNTY : BARBER STATE : KANSAS
GAUGE SN# : 13549 RANGE : 4100 CLOCK : 12

INTERVAL FROM : 3584 TO : 3677 TOTAL DEPTH : 3477
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3579 SIZE : 6.63
PACKER DEPTH : 3584 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : DUKE RIG 1
MUD TYPE : STARCH VISCOSITY : 32
WEIGHT : 9.4 WATER LOSS (CC) : NA
CHLORIDES (PPM) : 28000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00
WEIGHT PIPE LENGTH : 126 FT I.D. inch : 2.75
DRILL PIPE LENGTH : 3438 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 93 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-STRONG BLOW-OFF BOTTOM OF BUCKET
IN 2 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOWOFF BOTTOM OF BUCKET IN
1 MINUTE.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 80 FT OF: WATERY MUD
50% WATER-50% MUD
CHLORIDES: 22000 PPM

Total Barrels Fluid = 0.59
Total Fluid Prod Rate = 14.10 BFPD
Indicated Wtr Rate = 8.46 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 990 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 7:35 PM
WELL TEMPERATURE : 114
INITIAL HYDROSTATIC PRESSURE (A) 1792
INITIAL FLOW PERIOD MIN: 30 (B) 43 PSI TO (C) : 43
INITIAL CLOSED IN PERIOD MIN: 66 (D) 1004
FINAL FLOW PERIOD MIN: 30 (E) 57 PSI TO (F) : 57
FINAL CLOSED IN PERIOD MIN: 66 (G) 825
FINAL HYDROSTATIC PRESSURE (H) 1724
TIME STARTED OFF BOTTOM : 10:35 PM

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : RINE EXPLORATION
RIG : BARBER-KANSAS
FIELD : COOPER
WELL : #1-32
DATE : 2-19-88
GAUGE NO : 13549

OPERATIONAL COMMENTS

RECOVERED 990 FEET OF GAS ABOVE FLUID.

COMPANY : RINE EXPLORATION
 WELL : #1-32
 GAUGE # : 13549
 DATE : 19/ 2/88

FIELD : COOPER
 JOB # : 13889
 DEPTH : 3477
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	7:35:0	0.000	43.000	114.00	0.000
2	7:39:59	0.083	43.000	114.00	0.000
3	7:45:0	0.167	43.000	114.00	0.000
4	7:50:0	0.250	43.000	114.00	0.000
5	7:54:59	0.333	43.000	114.00	0.000
6	8:0:0	0.417	43.000	114.00	0.000
7	8:5:0	0.500	43.000	114.00	0.000
8	8:8:0	0.550	76.000	114.00	33.000
9	8:11:0	0.600	142.000	114.00	66.000
10	8:14:0	0.650	194.000	114.00	52.000
11	8:17:0	0.700	253.000	114.00	59.000
12	8:20:0	0.750	317.000	114.00	64.000
13	8:23:0	0.800	377.000	114.00	60.000
14	8:26:0	0.850	445.000	114.00	68.000
15	8:29:0	0.900	502.000	114.00	57.000
16	8:32:0	0.950	557.000	114.00	55.000
17	8:35:0	1.000	613.000	114.00	56.000
18	8:38:0	1.050	667.000	114.00	54.000
19	8:41:0	1.100	710.000	114.00	43.000
20	8:44:0	1.150	748.000	114.00	38.000
21	8:47:0	1.200	788.000	114.00	40.000
22	8:50:0	1.250	826.000	114.00	38.000
23	8:53:0	1.300	857.000	114.00	31.000
24	8:56:0	1.350	887.000	114.00	30.000
25	8:59:0	1.400	917.000	114.00	30.000
26	9:2:0	1.450	942.000	114.00	25.000
27	9:5:0	1.500	966.000	114.00	24.000
28	9:8:0	1.550	989.000	114.00	23.000
29	9:11:0	1.600	1004.000	114.00	15.000
30	9:12:0	1.617	57.000	114.00	-947.000
31	9:15:59	1.683	57.000	114.00	0.000
32	9:21:0	1.767	57.000	114.00	0.000
33	9:26:0	1.850	57.000	114.00	0.000
34	9:30:59	1.933	57.000	114.00	0.000
35	9:36:0	2.017	57.000	114.00	0.000
36	9:41:0	2.100	57.000	114.00	0.000
37	9:43:59	2.150	83.000	114.00	26.000
38	9:46:59	2.200	147.000	114.00	64.000
39	9:50:0	2.250	217.000	114.00	70.000
40	9:53:0	2.300	271.000	114.00	54.000
41	9:56:0	2.350	338.000	114.00	67.000
42	9:58:59	2.400	384.000	114.00	46.000
43	10:1:59	2.450	429.000	114.00	45.000
44	10:5:0	2.500	475.000	114.00	46.000
45	10:8:0	2.550	511.000	114.00	36.000
46	10:11:0	2.600	545.000	114.00	34.000
47	10:13:59	2.650	576.000	114.00	31.000
48	10:16:59	2.700	605.000	114.00	29.000
49	10:20:0	2.750	636.000	114.00	31.000
50	10:23:0	2.800	659.000	114.00	23.000
51	10:26:0	2.850	682.000	114.00	23.000
52	10:28:59	2.900	707.000	114.00	25.000

COMPANY : RINE*EXPLORATION
WELL : #1-32
GAUGE # : 13549
DATE : 19/ 2/88

FIELD : COOPER
JOB # : 13889
DEPTH : 3477
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	10:31:59	2.950	727.000	114.00	20.000
54	10:35: 0	3.000	749.000	114.00	22.000
55	10:38: 0	3.050	768.000	114.00	19.000
56	10:41: 0	3.100	789.000	114.00	21.000
57	10:43:59	3.150	804.000	114.00	15.000
58	10:46:59	3.200	825.000	114.00	21.000

WESTERN TESTING CO. INC.