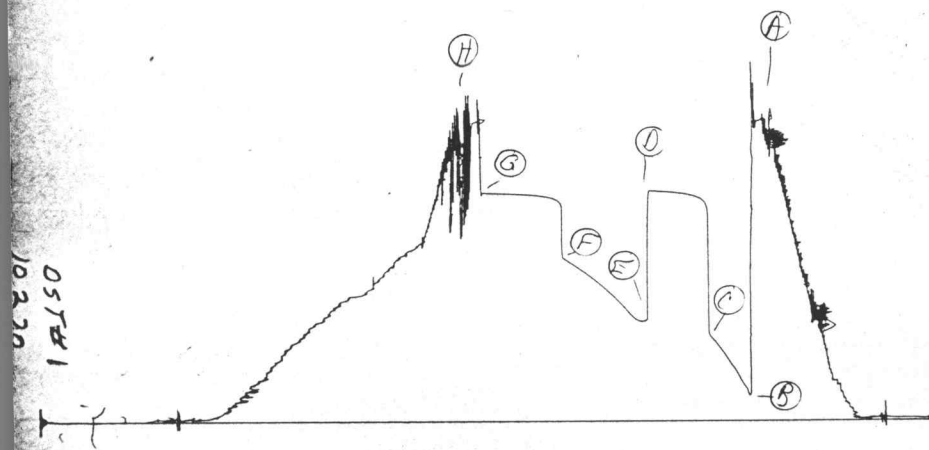


TKT 13356

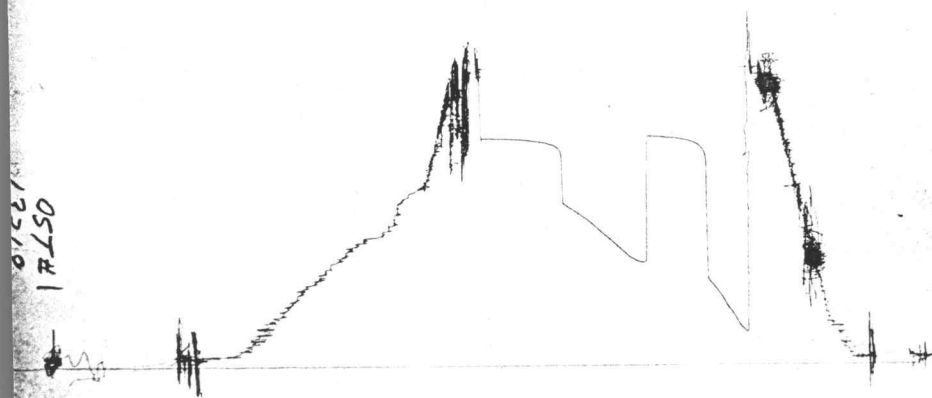
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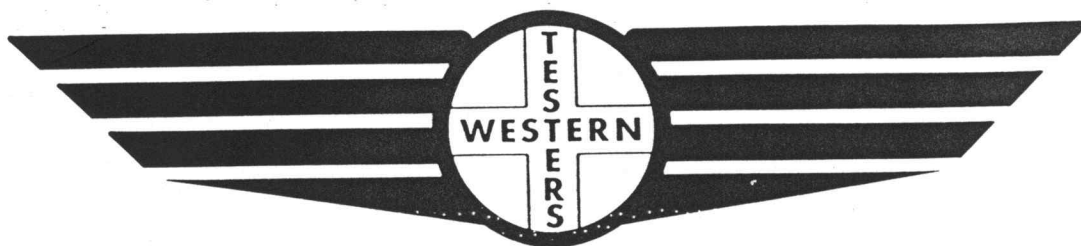
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY CARDWELL & PARKER

LEASE & WELL NO. #1 HARRIS

SEC. 18 TWP. 29S. RGE. 13W TEST NO. 1 DATE 2/17/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 2-17-86
CUSTOMER : CARDWELL & PARKER
WELL : #1 TEST: 1
ELEVATION : NA
SECTION : 18
RANGE : 13W COUNTY : PRATT
GAUGE SN# : 10270 RANGE : 4150
TICKET : 13356
LEASE : HARRIS
GEOLOGIST : T. McLEOD
FORMATION : HOWARD
TOWNSHIP : 29S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3315 TO : 3350 TOTAL DEPTH : 3350
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3310 SIZE : 6.63
PACKER DEPTH : 3315 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BRANDT DRILLING RIG #2
MUD TYPE : PREMIX VISCOSITY : 32
WEIGHT : 9.3 WATER LOSS (CC) : 7.2
CHLORIDES (PPM) : 38000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : GAS REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 430 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2863 FT I.D. inch : 3.80
TEST TOOL LENGTH : 22 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 35 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 THROUGHOUT-BOTTOM OF
BUCKET IN 1 MINUTE.
BLOW COMMENT #2 : FINAL FLOW-GAS TO SURFACE -TOO WEAK TO GAUGE.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 150 FT OF: SLIGHTLY MUD CUT OIL
81% OIL-5% GAS-10% WTR-4% MUD
RECOVERED : 300 FT OF: CLEAN OIL
RECOVERED : 1380 FT OF: WATER

Total Barrels Fluid = 21.66
Total Fluid Prod Rate = 346.54 BFPD
Indicated Oil Rate = 79.91 BOPD
Indicated Wtr Rate = 265.11 BWPD
Corrected Oil Rate = 375.96 BOPD
Corrected Wtr Rate = 1247.26 BWPD

REMARK 1 :
REMARK 2 : CHLORIDES: 118000 PPM
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 5:25 PM

TIME STARTED OFF BOTTOM : 8:40 PM

WELL TEMPERATURE : 104

INITIAL HYDROSTATIC PRESSURE

(A) 1622

INITIAL FLOW PERIOD MIN: 30

(B) 127 PSI TO (C) : 456

INITIAL CLOSED IN PERIOD MIN: 45

(D) 1242

FINAL FLOW PERIOD MIN: 60

(E) 532 PSI TO (F) : 871

FINAL CLOSED IN PERIOD MIN: 60

(G) 1234

FINAL HYDROSTATIC PRESSURE

(H) 1622

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

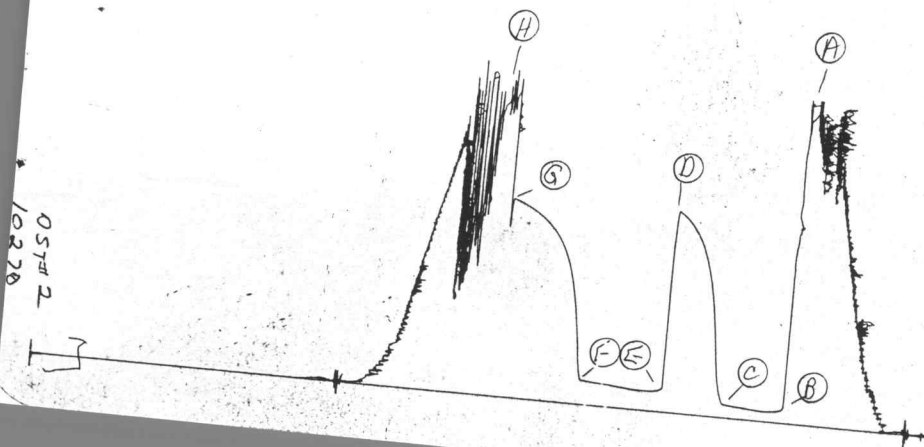
COMPANY : CARDWELL & PARKER
RIG : PRATT-KANSAS
FIELD : HARRIS
WELL : #1
DATE : 2-17-86
GAUGE NO : 10270

OPERATIONAL COMMENTS

CHLORIDES: 118000 PPM

TKT 13357

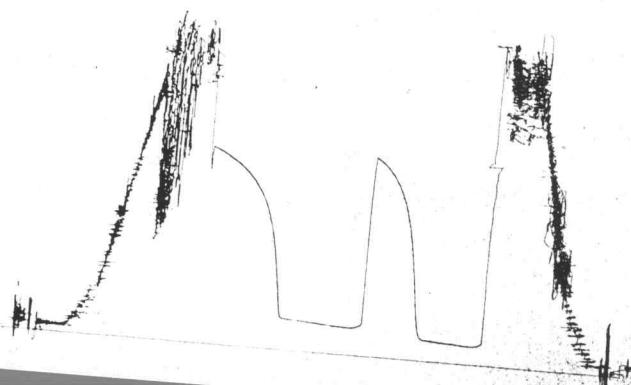
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TKT 13257

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OSTH 2
13268



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY CARDWELL & PARKER LEASE & WELL NO. #1 HARRIS SEC. 18 TWP. 29S. RGE. 13W TEST NO. 2 DATE 2/18/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 2-18-87
CUSTOMER : CARDWELL & PARKER
WELL : #1 TEST: 2
ELEVATION : -
SECTION : 18
RANGE : 13W COUNTY : PRATT
GAUGE SN# : 10270 RANGE : 4150
TICKET : 13357
LEASE : HARRIS
GEOLOGIST : T. McLEOD
FORMATION : TOPEKA
TOWNSHIP : 29S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3390 TO : 3433 TOTAL DEPTH : 3433
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3385 SIZE : 6.63
PACKER DEPTH : 3390 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : BRANDT DRILLING RIG #2
MUD TYPE : PREMIX VISCOSITY : 32
WEIGHT : 9.3 WATER LOSS (CC) : NA
CHLORIDES (PPM) : 38000
JARS-MAKE : - SERIAL NUMBER :
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 430 FT I.D. inch : 2.20
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2938 FT I.D. inch : 3.80
TEST TOOL LENGTH : 22 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 43 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 1" BLOW BUILDING TO A GOOD 8" BLOW.
BLOW COMMENT #2 : FINAL FLOW-WEAK 1/2" BLOW BUILDING TO A FAIR 3" BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 125 FT OF: SLIGHTLY OIL & GAS CUT MUD
5% OIL-14% GAS-6% WTR-75% MUD
RECOVERED : 120 FT OF: SLIGHTLY OIL & GAS CUT MUD
1% OIL-24% GAS-27% WTR-48% MUD

Total Barrels Fluid = 1.15
Total Fluid Prod Rate = 15.80 BFPD
Indicated Oil Rate = 0.48 BOPD
Indicated Wtr Rate = 11.41 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 175 FEET OF GAS ABOVE FLUID.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 10:50 AM TIME STARTED OFF BOTTOM : 2:20 PM
WELL TEMPERATURE : 106
INITIAL HYDROSTATIC PRESSURE (A) 1698
INITIAL FLOW PERIOD MIN: 45 (B) 55 PSI TO (C) : 72
INITIAL CLOSED IN PERIOD MIN: 45 (D) 1100
FINAL FLOW PERIOD MIN: 60 (E) 108 PSI TO (F) : 133
FINAL CLOSED IN PERIOD MIN: 60 (G) 1089
FINAL HYDROSTATIC PRESSURE (H) 1668

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : CARDWELL & PARKER
RIG : PRATT-KANSAS
FIELD : HARRIS
WELL : #1
DATE : 2-18-87
GAUGE NO : 10270

OPERATIONAL COMMENTS

RECOVERED 175 FEET OF GAS ABOVE FLUID.

COMPANY : CARDWELL & PARKER
WELL : #1
GAUGE # : 10270
DATE : 18/ 2/87

FIELD : HARRIS
JOB # : 13357
DEPTH : 3433
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	10:50: 0	0.000	55.000	106.00	0.000
2	10:54:59	0.083	55.000	106.00	0.000
3	11: 0: 0	0.167	55.000	106.00	0.000
4	11: 5: 0	0.250	55.000	106.00	0.000
5	11: 9:59	0.333	58.000	106.00	3.000
6	11:15: 0	0.417	62.000	106.00	4.000
7	11:20: 0	0.500	65.000	106.00	3.000
8	11:24:59	0.583	67.000	106.00	2.000
9	11:30: 0	0.667	70.000	106.00	3.000
10	11:35: 0	0.750	72.000	106.00	2.000
11	11:38: 0	0.800	122.000	106.00	50.000
12	11:41: 0	0.850	245.000	106.00	123.000
13	11:44: 0	0.900	428.000	106.00	183.000
14	11:47: 0	0.950	606.000	106.00	178.000
15	11:50: 0	1.000	729.000	106.00	123.000
16	11:53: 0	1.050	810.000	106.00	81.000
17	11:56: 0	1.100	880.000	106.00	70.000
18	11:59: 0	1.150	934.000	106.00	54.000
19	12: 2: 0	1.200	974.000	106.00	40.000
20	12: 5: 0	1.250	1007.000	106.00	33.000
21	12: 8: 0	1.300	1038.000	106.00	31.000
22	12:11: 0	1.350	1061.000	106.00	23.000
23	12:14: 0	1.400	1078.000	106.00	17.000
24	12:17: 0	1.450	1093.000	106.00	15.000
25	12:20: 0	1.500	1100.000	106.00	7.000
26	12:21: 0	1.517	108.000	106.00	-992.000
27	12:24:59	1.583	108.000	106.00	0.000
28	12:30: 0	1.667	108.000	106.00	0.000
29	12:35: 0	1.750	108.000	106.00	0.000
30	12:39:59	1.833	108.000	106.00	0.000
31	12:45: 0	1.917	110.000	106.00	2.000
32	12:50: 0	2.000	115.000	106.00	5.000
33	12:54:59	2.083	118.000	106.00	3.000
34	13: 0: 0	2.167	121.000	106.00	3.000
35	13: 5: 0	2.250	125.000	106.00	4.000
36	13: 9:59	2.333	128.000	106.00	3.000
37	13:15: 0	2.417	131.000	106.00	3.000
38	13:20: 0	2.500	133.000	106.00	2.000
39	13:23: 0	2.550	287.000	106.00	154.000
40	13:26: 0	2.600	470.000	106.00	183.000
41	13:29: 0	2.650	607.000	106.00	137.000
42	13:32: 0	2.700	702.000	106.00	95.000
43	13:35: 0	2.750	776.000	106.00	74.000
44	13:38: 0	2.800	827.000	106.00	51.000
45	13:41: 0	2.850	873.000	106.00	46.000
46	13:44: 0	2.900	908.000	106.00	35.000
47	13:47: 0	2.950	936.000	106.00	28.000
48	13:50: 0	3.000	959.000	106.00	23.000
49	13:53: 0	3.050	981.000	106.00	22.000
50	13:56: 0	3.100	999.000	106.00	18.000
51	13:59: 0	3.150	1014.000	106.00	15.000
52	14: 2: 0	3.200	1029.000	106.00	15.000

COMPANY : CARDWELL & PARKER
WELL : #1
GAUGE # : 10270
DATE : 18/ 2/87

FIELD : HARRIS
JOB # : 13357
DEPTH : 3433
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	14: 5: 0	3.250	1041.000	106.00	12.000
54	14: 8: 0	3.300	1053.000	106.00	12.000
55	14:11: 0	3.350	1063.000	106.00	10.000
56	14:14: 0	3.400	1072.000	106.00	9.000
57	14:17: 0	3.450	1081.000	106.00	9.000
58	14:20: 0	3.500	1089.000	106.00	8.000

WESTERN TESTING CO. INC.