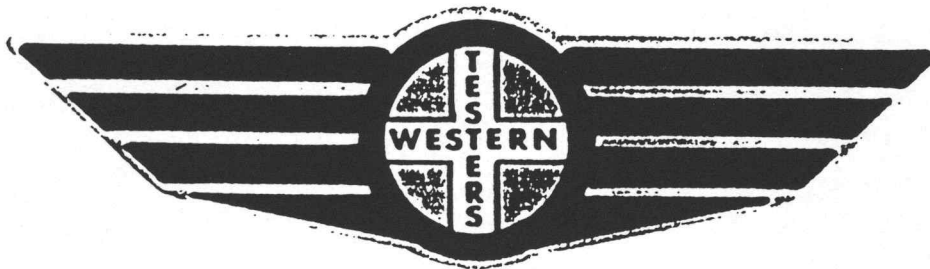


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 11-17-87 TICKET : 13075
CUSTOMER : CAMIO OIL COMPANY LEASE : HOLT
WELL : #1 TEST: 1 GEOLOGIST : J. BAKER
ELEVATION : 1289 KB FORMATION : BARTLESVILLE
SECTION : 4 TOWNSHIP : 30S
RANGE : 5E COUNTY : COWLEY STATE : KANSAS
GAUGE SN# : 10979 RANGE : 4100 CLOCK : 12

INTERVAL FROM : 2819 TO : 2834 TOTAL DEPTH : 2834

DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 2819 SIZE : 6.63
PACKER DEPTH : 2814 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : WHITE & ELLIS RIG #5
MUD TYPE : CHEMCIAL VISCOSITY : 50
WEIGHT : 9.4 WATER LOSS (CC) : 10.4
CHLORIDES (PPM) : 1200
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 240 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 2559 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 15 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 IF

BLOW COMMENT #1 : FAIR BLOW INCREASING TO STRONG AT END OF TEST.
BLOW COMMENT #2 :
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 60 FT OF: HEAVY OIL & GAS CUT MUD
(5' FREE OIL IN TOP OF SAMPLE)

RECOVERED : 210 FT OF: OIL & GAS CUT MUD

Total Barrels Fluid = 1.60
Total Fluid Prod Rate = 19.21 BFPD
Indicated Oil Rate = 8.61 BOPD
Indicated Wtr Rate = 1.22 BWPD

REMARK 1 :

REMARK 2 : RECOVERED 1530 FEET OF GAS ABOVE FLUID.

REMARK 3 : 1.6 RES. @ 48 DEG.F. CHLORIDES: 3000 PPM

REMARK 4 :

SET PACKER(S) : 11:00 AM

TIME STARTED OFF BOTTOM : 3:00 PM

WELL TEMPERATURE : 110

INITIAL HYDROSTATIC PRESSURE (A) 1424

INITIAL FLOW PERIOD MIN: 60 (B) 69 PSI TO (C) : 106

INITIAL CLOSED IN PERIOD MIN: 60 (D) 1009

FINAL FLOW PERIOD MIN: 60 (E) 104 PSI TO (F) : 125

FINAL CLOSED IN PERIOD MIN: 60 (G) 938

FINAL HYDROSTATIC PRESSURE (H) 1379

FLUID SAMPLE GRINDOUT

STAND #1 80% oil-10% mud
#2 50% oil-50% mud
#3 20% oil-80% mud
#4 15% oil-85% mud
#5 10% oil-90% mud

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : CAMIO OIL COMPANY
RIG : COWLEY-KANSAS
FIELD : HOLT
WELL : #1
DATE : 11-17-87
GAUGE NO : 10979

OPERATIONAL COMMENTS

RECOVERED 1530 FEET OF GAS ABOVE FLUID.
1.6 RES. @ 48 DEG.F. CHLORIDES: 3000 PPM

COMPANY : CAMIO OIL COMPANY
WELL : #1
GAUGE # : 10979
DATE : 17/11/87

FIELD : HOLT
JOB # : 13075
DEPTH : 2834
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	11: 0: 0	0.000	69.000	110.00	0.000
2	11: 4: 59	0.083	69.000	110.00	0.000
3	11:10: 0	0.167	69.000	110.00	0.000
4	11:15: 0	0.250	73.000	110.00	4.000
5	11:19:59	0.333	76.000	110.00	3.000
6	11:25: 0	0.417	80.000	110.00	4.000
7	11:30: 0	0.500	85.000	110.00	5.000
8	11:34:59	0.583	88.000	110.00	3.000
9	11:40: 0	0.667	92.000	110.00	4.000
10	11:45: 0	0.750	95.000	110.00	3.000
11	11:49:59	0.833	99.000	110.00	4.000
12	11:55: 0	0.917	104.000	110.00	5.000
13	12: 0: 0	1.000	106.000	110.00	2.000
14	12: 2: 59	1.050	130.000	110.00	24.000
15	12: 6: 0	1.100	213.000	110.00	83.000
16	12: 9: 0	1.150	326.000	110.00	113.000
17	12:12: 0	1.200	494.000	110.00	168.000
18	12:15: 0	1.250	618.000	110.00	124.000
19	12:18: 0	1.300	721.000	110.00	103.000
20	12:21: 0	1.350	786.000	110.00	65.000
21	12:24: 0	1.400	831.000	110.00	45.000
22	12:27: 0	1.450	861.000	110.00	30.000
23	12:30: 0	1.500	890.000	110.00	29.000
24	12:33: 0	1.550	915.000	110.00	25.000
25	12:36: 0	1.600	933.000	110.00	18.000
26	12:39: 0	1.650	952.000	110.00	19.000
27	12:42: 0	1.700	962.000	110.00	10.000
28	12:45: 0	1.750	972.000	110.00	10.000
29	12:48: 0	1.800	982.000	110.00	10.000
30	12:51: 0	1.850	990.000	110.00	8.000
31	12:54: 0	1.900	997.000	110.00	7.000
32	12:57: 0	1.950	1004.000	110.00	7.000
33	13: 0: 0	2.000	1009.000	110.00	5.000
34	13: 1: 0	2.017	104.000	110.00	-905.000
35	13: 4: 59	2.083	104.000	110.00	0.000
36	13:10: 0	2.167	105.000	110.00	1.000
37	13:15: 0	2.250	109.000	110.00	4.000
38	13:19:59	2.333	112.000	110.00	3.000
39	13:25: 0	2.417	114.000	110.00	2.000
40	13:30: 0	2.500	115.000	110.00	1.000
41	13:34:59	2.583	116.000	110.00	1.000
42	13:40: 0	2.667	117.000	110.00	1.000
43	13:45: 0	2.750	118.000	110.00	1.000
44	13:49:59	2.833	121.000	110.00	3.000
45	13:55: 0	2.917	123.000	110.00	2.000
46	14: 0: 0	3.000	125.000	110.00	2.000
47	14: 3: 0	3.050	154.000	110.00	29.000
48	14: 6: 0	3.100	228.000	110.00	74.000
49	14: 9: 0	3.150	334.000	110.00	106.000
50	14:12: 0	3.200	431.000	110.00	97.000
51	14:15: 0	3.250	521.000	110.00	90.000
52	14:18: 0	3.300	601.000	110.00	80.000

COMPANY : CAMIO OIL COMPANY
WELL : #1
GAUGE # : 10979
DATE : 17/11/87

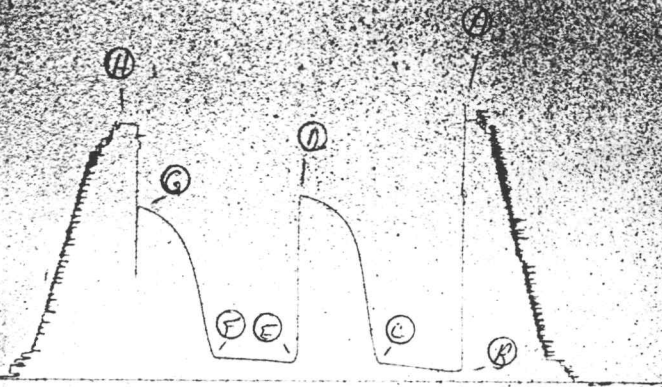
FIELD : HOLT
JOB # : 13075
DEPTH : 2834
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P1-P(1-1)
53	14:21: 0	3.350	669.000	110.00	68.000
54	14:24: 0	3.400	728.000	110.00	59.000
55	14:27: 0	3.450	761.000	110.00	33.000
56	14:30: 0	3.500	794.000	110.00	33.000
57	14:33: 0	3.550	821.000	110.00	27.000
58	14:36: 0	3.600	844.000	110.00	23.000
59	14:39: 0	3.650	859.000	110.00	15.000
60	14:42: 0	3.700	879.000	110.00	20.000
61	14:45: 0	3.750	892.000	110.00	13.000
62	14:48: 0	3.800	905.000	110.00	13.000
63	14:51: 0	3.850	912.000	110.00	7.000
64	14:54: 0	3.900	922.000	110.00	10.000
65	14:57: 0	3.950	932.000	110.00	10.000
66	15: 0: 0	4.000	938.000	110.00	6.000

WESTERN TESTING CO. INC.

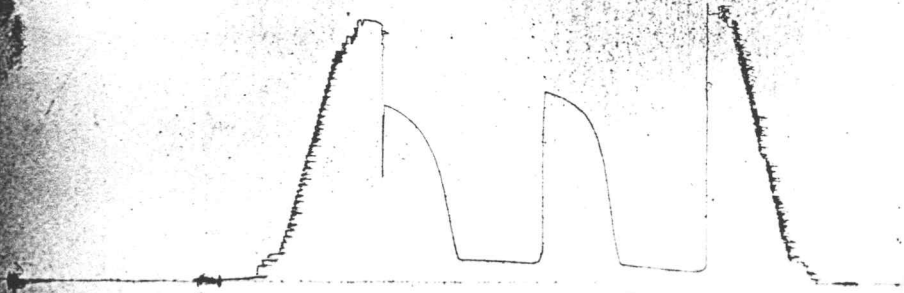
KT 13075

I



TKA 13975

0



13265 05T 1 13075