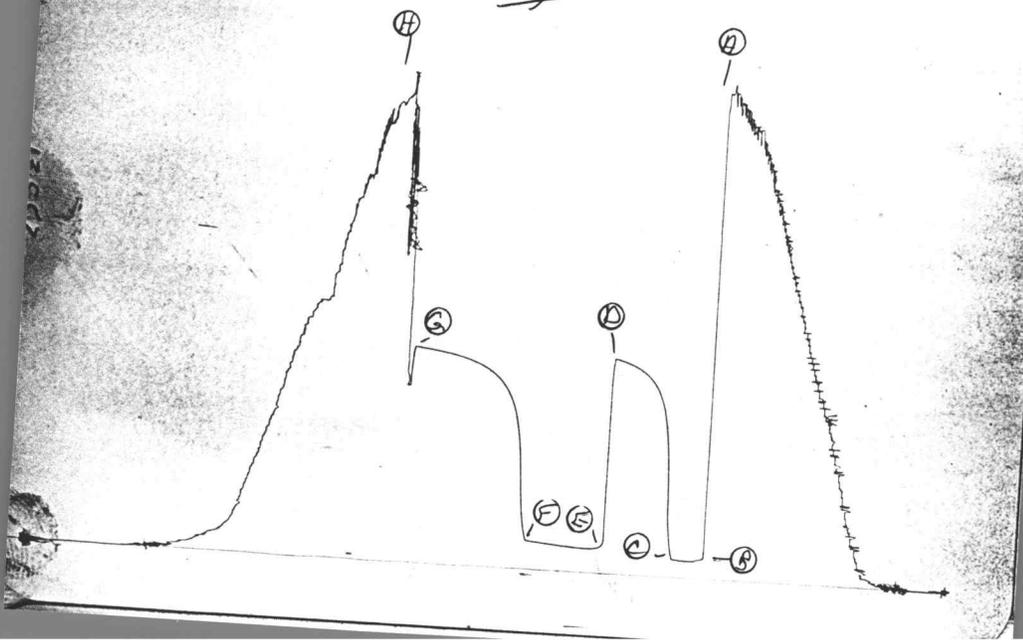


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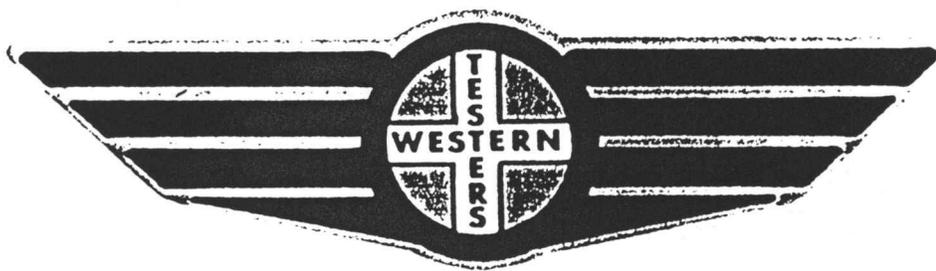
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13260

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY

MUSTANG COMPANIES, INC.

LEASE & WELL NO.

WILSON 1-7

SEC. 7

TWP. 31S

RGE. 41W

TEST NO. 1

DATE

8/5/87

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 8-5-87 TICKET : 11805  
CUSTOMER : MUSTANG COMPANIES INC. LEASE : WILSON  
WELL : #1-7 TEST: 1 GEOLOGIST : B ROMIG  
ELEVATION : 3434 KB FORMATION : MORROW  
SECTION : 7 TOWNSHIP : 31S  
RANGE : 41W COUNTY : MORTON STATE : KANSAS  
GAUGE SN# : 13552 RANGE : 4050 CLOCK : 12

INTERVAL FROM : 5243 TO : 5290 TOTAL DEPTH : 5290  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 5238 SIZE : 6.63  
PACKER DEPTH : 5243 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : MUSTANG RIG #2  
MUD TYPE : CHEMICAL VISCOSITY : 40  
WEIGHT : 9.1 WATER LOSS (CC) : 8.8  
CHLORIDES (PPM) : 800  
JARS-MAKE : - SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 160 FT I.D. inch : 2.25  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 5056 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 27 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 47 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 BLOW INCREASED TO STRONG.  
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW INCREASED TO STRONG.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :



WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report  
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COMPANY : MUSTANG COMPANIES INC.  
RIG : MORTON-KANSAS  
FIELD : WILSON  
WELL : #1-7  
DATE : 8-5-87  
GAUGE NO : 13552

OPERATIONAL COMMENTS

RECOVERED 310 FEET OF GAS ABOVE FLUID.

COMPANY : MUSTANG COMPANIES INC.  
 WELL : #1-7  
 GAUGE # : 13552  
 DATE : 5/ 8/87

FIELD : WILSON  
 JOB # : 11805  
 DEPTH : 5290  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	6:30: 0	0.000	103.000	126.00	0.000
2	6:34:59	0.083	101.000	126.00	-2.000
3	6:40: 0	0.167	93.000	126.00	-8.000
4	6:45: 0	0.250	93.000	126.00	0.000
5	6:49:59	0.333	95.000	126.00	2.000
6	6:55: 0	0.417	96.000	126.00	1.000
7	6:58: 0	0.467	231.000	126.00	135.000
8	7: 1: 0	0.517	609.000	126.00	378.000
9	7: 4: 0	0.567	794.000	126.00	185.000
10	7: 7: 0	0.617	910.000	126.00	116.000
11	7:10: 0	0.667	965.000	126.00	55.000
12	7:13: 0	0.717	1005.000	126.00	40.000
13	7:16: 0	0.767	1039.000	126.00	34.000
14	7:19: 0	0.817	1060.000	126.00	21.000
15	7:22: 0	0.867	1080.000	126.00	20.000
16	7:25: 0	0.917	1095.000	126.00	15.000
17	7:28: 0	0.967	1108.000	126.00	13.000
18	7:31: 0	1.017	1118.000	126.00	10.000
19	7:34: 0	1.067	1124.000	126.00	6.000
20	7:37: 0	1.117	1133.000	126.00	9.000
21	7:40: 0	1.167	1141.000	126.00	8.000
22	7:43: 0	1.217	1148.000	126.00	7.000
23	7:46: 0	1.267	1152.000	126.00	4.000
24	7:47: 0	1.283	129.000	126.00	-1023.000
25	7:51: 0	1.350	129.000	126.00	0.000
26	7:56: 0	1.433	129.000	126.00	0.000
27	8: 1: 0	1.517	129.000	126.00	0.000
28	8: 6: 0	1.600	129.000	126.00	0.000
29	8:11: 0	1.683	131.000	126.00	2.000
30	8:16: 0	1.767	133.000	126.00	2.000
31	8:21: 0	1.850	137.000	126.00	4.000
32	8:26: 0	1.933	140.000	126.00	3.000
33	8:31: 0	2.017	143.000	126.00	3.000
34	8:36: 0	2.100	146.000	126.00	3.000
35	8:41: 0	2.183	148.000	126.00	2.000
36	8:46: 0	2.267	150.000	126.00	2.000
37	8:49: 0	2.317	246.000	126.00	96.000
38	8:52: 0	2.367	475.000	126.00	229.000
39	8:55: 0	2.417	675.000	126.00	200.000
40	8:58: 0	2.467	806.000	126.00	131.000
41	9: 1: 0	2.517	872.000	126.00	66.000
42	9: 4: 0	2.567	923.000	126.00	51.000
43	9: 7: 0	2.617	959.000	126.00	36.000
44	9:10: 0	2.667	987.000	126.00	28.000
45	9:13: 0	2.717	1011.000	126.00	24.000
46	9:16: 0	2.767	1031.000	126.00	20.000
47	9:19: 0	2.817	1047.000	126.00	16.000
48	9:22: 0	2.867	1059.000	126.00	12.000
49	9:25: 0	2.917	1070.000	126.00	11.000
50	9:28: 0	2.967	1081.000	126.00	11.000
51	9:31: 0	3.017	1090.000	126.00	9.000
52	9:34: 0	3.067	1097.000	126.00	7.000

COMPANY : MUSTANG COMPANIES INC.

WELL : #1-7

GAUGE # : 13552

DATE : 5/ 8/87

FIELD : WILSON

JOB # : 11805

DEPTH : 5290

TEST :

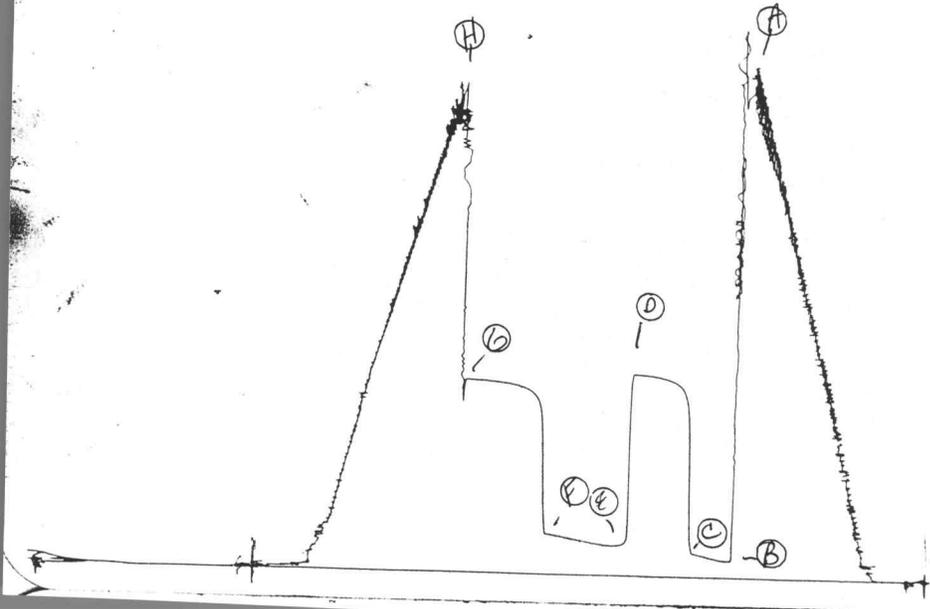
DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	9:37: 0	3.117	1105.000	126.00	8.000
54	9:40: 0	3.167	1112.000	126.00	7.000
55	9:43: 0	3.217	1117.000	126.00	5.000
56	9:46: 0	3.267	1120.000	126.00	3.000
57	9:49: 0	3.317	1125.000	126.00	5.000
58	9:52: 0	3.367	1131.000	126.00	6.000
59	9:55: 0	3.417	1135.000	126.00	4.000
60	9:58: 0	3.467	1139.000	126.00	4.000
61	10: 1: 0	3.517	1142.000	126.00	3.000
62	10: 4: 0	3.567	1144.000	126.00	2.000
63	10: 7: 0	3.617	1148.000	126.00	4.000
64	10:10: 0	3.667	1150.000	126.00	2.000
65	10:13: 0	3.717	1152.000	126.00	2.000
66	10:16: 0	3.767	1154.000	126.00	2.000
67	10:19: 0	3.817	1156.000	126.00	2.000

WESTERN TESTING CO. INC.

Lot # 11768

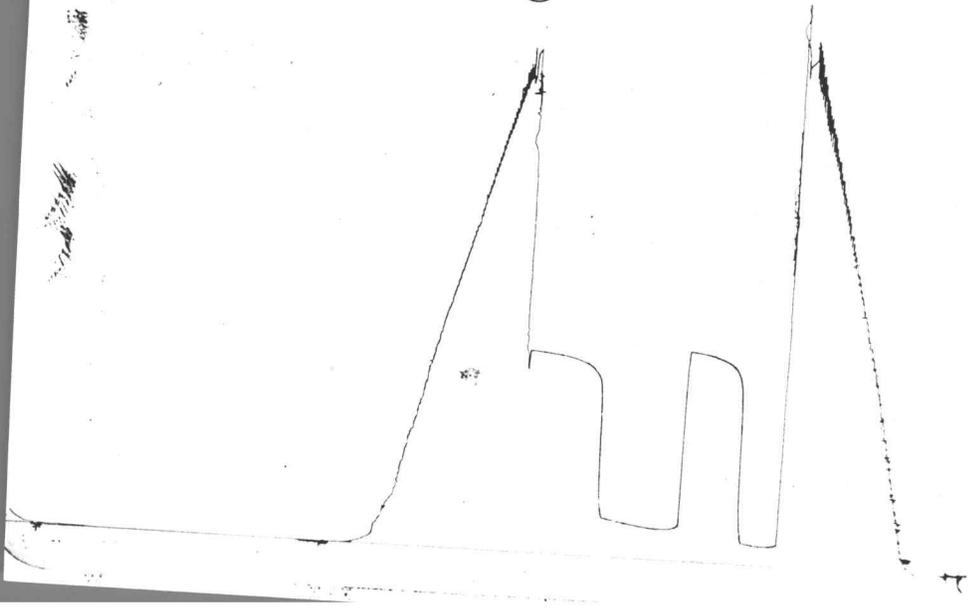
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13549  
DST#



Kt # 11768  
0

13553  
OST#



# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 8-7-87 TICKET : 11768  
CUSTOMER : MUSTANG COMPANIES INC. LEASE : WILSON  
WELL : 1-7 TEST: 2 GEOLOGIST : B. ROMIG  
ELEVATION : - FORMATION : -  
SECTION : 7 TOWNSHIP : 31S  
RANGE : 41W COUNTY : MORTON STATE : KANSAS  
GAUGE SN# : 13549 RANGE : 4100 CLOCK : 12

INTERVAL FROM : 5324 TO : 5410 TOTAL DEPTH : 5410

DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 5319 SIZE : 6.63  
PACKER DEPTH : 5324 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : MUSTANG RIG #2  
MUD TYPE : CHEMICAL VISCOSITY : 52  
WEIGHT : 9.1 WATER LOSS (CC) : 10  
CHLORIDES (PPM) : 800  
JARS-MAKE : WTC SERIAL NUMBER : 411  
DID WELL FLOW ? : REVERSED OUT ? :

DRILL COLLAR LENGTH : 120 FT I.D. inch : 2.25  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 5176 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 28 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 86 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 BLOW-BUILDING TO 8" IN WATER.  
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW-BUILDING TO 5" IN WATER.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 70 FT OF: WATER CUT MUD  
10% WATER-90% MUD  
RECOVERED : 380 FT OF: MUDDY WATER  
5% MUD-95% WATER

CHLORIDES: 42000 PPM

Total Barrels Fluid = 5.22  
Total Fluid Prod Rate = 83.50 BFPD  
Indicated Wtr Rate = 68.66 BWPD

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

SET PACKER(S) : 8:30 AM  
WELL TEMPERATURE : 141  
INITIAL HYDROSTATIC PRESSURE (A) 2608  
INITIAL FLOW PERIOD MIN: 30 (B) 94 PSI TO (C) : 131  
INITIAL CLOSED IN PERIOD MIN: 45 (D) 1092  
FINAL FLOW PERIOD MIN: 60 (E) 169 PSI TO (F) : 222  
FINAL CLOSED IN PERIOD MIN: 60 (G) 1047  
FINAL HYDROSTATIC PRESSURE (H) 2553  
TIME STARTED OFF BOTTOM : 11:45 AM

WESTERN TESTING CO. INC.  
WICHITA - KANSAS

Pressure Transient Report  
-----

COMPANY : MUSTANG COMPANIES INC.  
RIG : MORTON-KANSAS  
FIELD : WILSON  
WELL : 1-7  
DATE : 8-7-87  
GAUGE NO : 13549

OPERATIONAL COMMENTS

COMPANY : MUSTANG COMPANIES INC.  
 WELL : 1-7  
 GAUGE # : 13549  
 DATE : 7/ 8/87

FIELD : WILSON  
 JOB # : 11768  
 DEPTH : 5410  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	8:30: 0	0.000	94.000	141.00	0.000
2	8:34:59	0.083	94.000	141.00	0.000
3	8:40: 0	0.167	98.000	141.00	4.000
4	8:45: 0	0.250	105.000	141.00	7.000
5	8:49:59	0.333	115.000	141.00	10.000
6	8:55: 0	0.417	123.000	141.00	8.000
7	9: 0: 0	0.500	131.000	141.00	8.000
8	9: 3: 0	0.550	643.000	141.00	512.000
9	9: 6: 0	0.600	966.000	141.00	323.000
10	9: 9: 0	0.650	1016.000	141.00	50.000
11	9:12: 0	0.700	1040.000	141.00	24.000
12	9:15: 0	0.750	1053.000	141.00	13.000
13	9:18: 0	0.800	1060.000	141.00	7.000
14	9:21: 0	0.850	1068.000	141.00	8.000
15	9:24: 0	0.900	1073.000	141.00	5.000
16	9:27: 0	0.950	1080.000	141.00	7.000
17	9:30: 0	1.000	1082.000	141.00	2.000
18	9:33: 0	1.050	1084.000	141.00	2.000
19	9:36: 0	1.100	1086.000	141.00	2.000
20	9:39: 0	1.150	1088.000	141.00	2.000
21	9:42: 0	1.200	1090.000	141.00	2.000
22	9:45: 0	1.250	1092.000	141.00	2.000
23	9:46: 0	1.267	169.000	141.00	-923.000
24	9:49:59	1.333	169.000	141.00	0.000
25	9:55: 0	1.417	169.000	141.00	0.000
26	10: 0: 0	1.500	170.000	141.00	1.000
27	10: 4:59	1.583	172.000	141.00	2.000
28	10:10: 0	1.667	176.000	141.00	4.000
29	10:15: 0	1.750	184.000	141.00	8.000
30	10:19:59	1.833	190.000	141.00	6.000
31	10:25: 0	1.917	197.000	141.00	7.000
32	10:30: 0	2.000	204.000	141.00	7.000
33	10:34:59	2.083	210.000	141.00	6.000
34	10:40: 0	2.167	217.000	141.00	7.000
35	10:45: 0	2.250	222.000	141.00	5.000
36	10:48: 0	2.300	589.000	141.00	367.000
37	10:51: 0	2.350	923.000	141.00	334.000
38	10:54: 0	2.400	965.000	141.00	42.000
39	10:57: 0	2.450	986.000	141.00	21.000
40	11: 0: 0	2.500	999.000	141.00	13.000
41	11: 3: 0	2.550	1010.000	141.00	11.000
42	11: 6: 0	2.600	1014.000	141.00	4.000
43	11: 9: 0	2.650	1020.000	141.00	6.000
44	11:12: 0	2.700	1026.000	141.00	6.000
45	11:15: 0	2.750	1029.000	141.00	3.000
46	11:18: 0	2.800	1032.000	141.00	3.000
47	11:21: 0	2.850	1035.000	141.00	3.000
48	11:24: 0	2.900	1037.000	141.00	2.000
49	11:27: 0	2.950	1039.000	141.00	2.000
50	11:30: 0	3.000	1042.000	141.00	3.000
51	11:33: 0	3.050	1043.000	141.00	1.000
52	11:36: 0	3.100	1044.000	141.00	1.000

COMPANY : MUSTANG\* COMPANIES INC.  
WELL : 1-7  
GAUGE # : 13549  
DATE : 7/ 8/87

FIELD : WILSON  
JOB # : 11768  
DEPTH : 5410  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	11:39: 0	3.150	1045.000	141.00	1.000
54	11:42: 0	3.200	1046.000	141.00	1.000
55	11:45: 0	3.250	1047.000	141.00	1.000

WESTERN TESTING CO. INC.