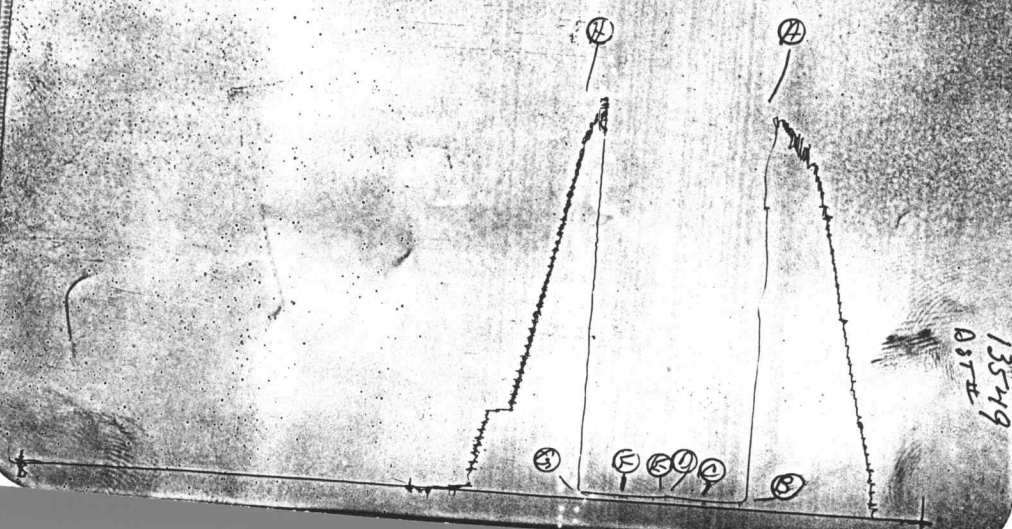


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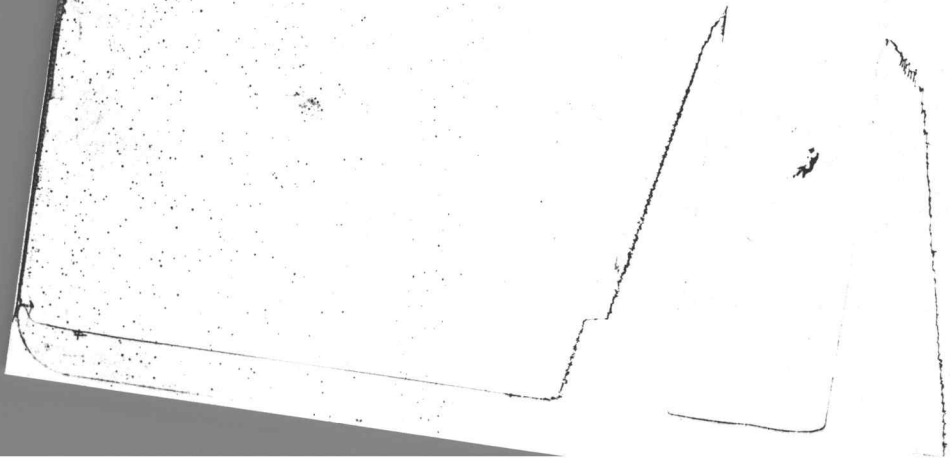


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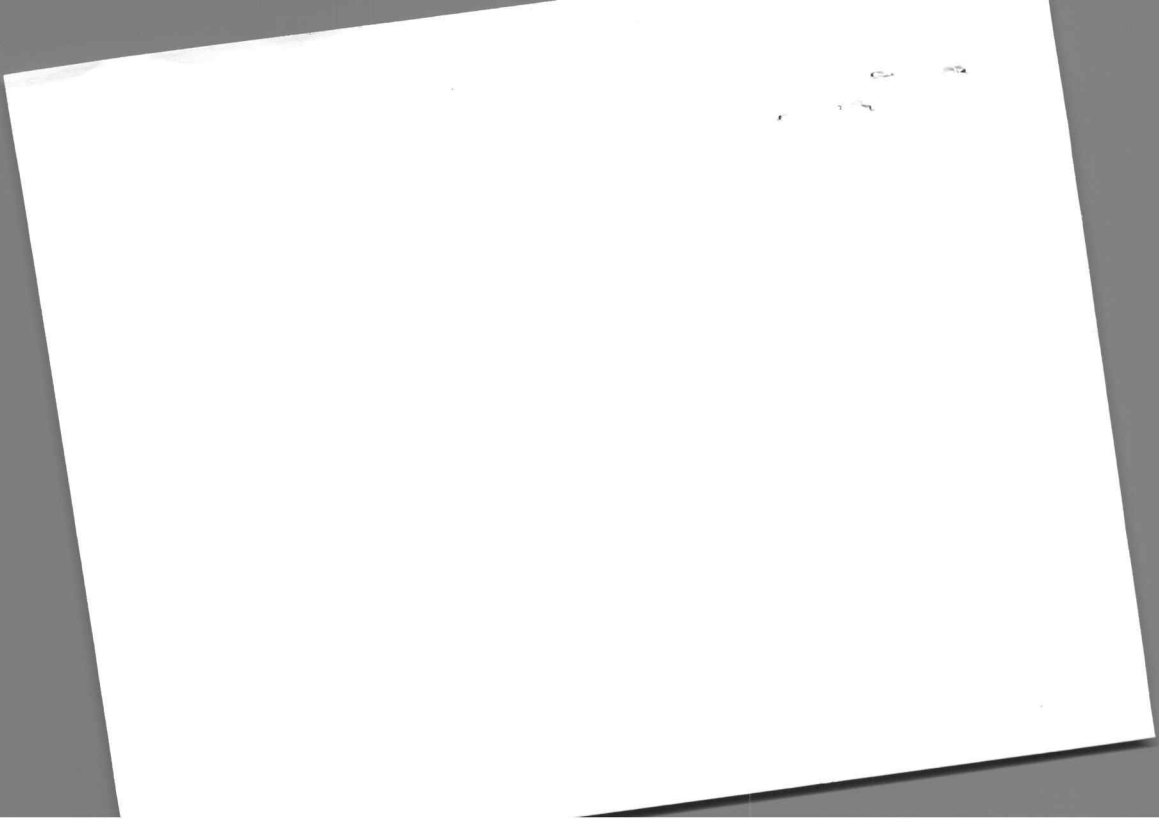


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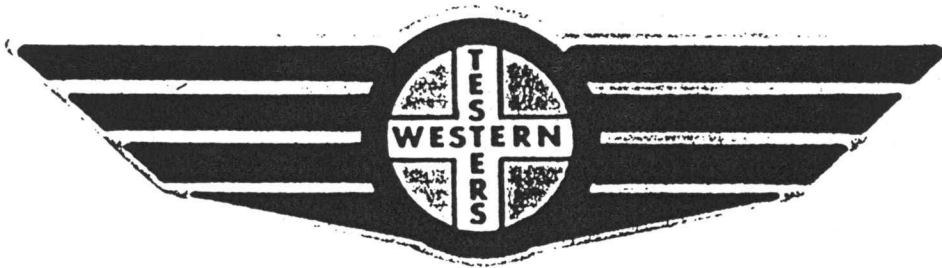
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-21-87
CUSTOMER : MUSTANG COMPANIES INC.
WELL : #3-34 TEST: 1
ELEVATION : NA
SECTION : 34
RANGE : 25W COUNTY : NESS
GAUGE SN# : 13549 RANGE : 4100
TICKET : 11752
LEASE : FEHRENBACH
GEOLOGIST : H. DIXON
FORMATION : MISSISSIPPI
TOWNSHIP : 20S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 4436 TO : 4470 TOTAL DEPTH : 4470
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4431 SIZE : 6.63
PACKER DEPTH : 4436 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MUSTANG RIG #4
MUD TYPE : CHEMICAL VISCOSITY : 47
WEIGHT : 9.1 WATER LOSS (CC) : 12.6
CHLORIDES (PPM) : NA
JARS-MAKE : - SERIAL NUMBER :
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 : 4296 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 34 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4. FH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW DEAD IN 12 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-NO BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 5 FT OF: SLIGHTLY OIL CUT MUD
5% OIL-95% MUD
FREE OIL ON TOP OF TOOL.

Total Barrels Fluid = 0.02
Total Fluid Prod Rate = 0.59 BFPD
Indicated Oil Rate = 0.03 BOPD
Indicated Wtr Rate = 0.06 BWPD

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

SET PACKER(S) : 3:00 PM
WELL TEMPERATURE : 122
INITIAL HYDROSTATIC PRESSURE (A) 2109
INITIAL FLOW PERIOD MIN: 30 (B) 32 PSI TO (C) : 32
INITIAL CLOSED IN PERIOD MIN: 30 (D) 44
FINAL FLOW PERIOD MIN: 30 (E) 30 PSI TO (F) : 30
FINAL CLOSED IN PERIOD MIN: 30 (G) 30
FINAL HYDROSTATIC PRESSURE (H) 2109

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MUSTANG COMPANIES INC.
RIG : NESS-KANSAS
FIELD : FEHRENBACH
WELL : #3-34
DATE : 7-21-87
GAUGE NO : 13549

OPERATIONAL COMMENTS

COMPANY : MUSTANG COMPANIES INC.
WELL : #3-34
GAUGE # : 13549
DATE : 21/ 7/87

FIELD : FEHRENBACH
JOB # : 11752
DEPTH : 4470
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P1-P(i-1)
1	3: 0: 0	0.000	32.000	122.00	0.000
2	3: 4: 59	0.083	32.000	122.00	0.000
3	3: 10: 0	0.167	32.000	122.00	0.000
4	3: 15: 0	0.250	32.000	122.00	0.000
5	3: 19: 59	0.333	32.000	122.00	0.000
6	3: 25: 0	0.417	32.000	122.00	0.000
7	3: 30: 0	0.500	32.000	122.00	0.000
8	3: 33: 0	0.550	32.000	122.00	0.000
9	3: 36: 0	0.600	32.000	122.00	0.000
10	3: 39: 0	0.650	34.000	122.00	2.000
11	3: 42: 0	0.700	35.000	122.00	1.000
12	3: 45: 0	0.750	37.000	122.00	2.000
13	3: 48: 0	0.800	39.000	122.00	2.000
14	3: 51: 0	0.850	41.000	122.00	2.000
15	3: 54: 0	0.900	42.000	122.00	1.000
16	3: 57: 0	0.950	43.000	122.00	1.000
17	4: 0: 0	1.000	44.000	122.00	1.000
18	4: 1: 0	1.017	30.000	122.00	-14.000
19	4: 4: 59	1.083	30.000	122.00	0.000
20	4: 10: 0	1.167	30.000	122.00	0.000
21	4: 15: 0	1.250	30.000	122.00	0.000
22	4: 19: 59	1.333	30.000	122.00	0.000
23	4: 25: 0	1.417	30.000	122.00	0.000
24	4: 30: 0	1.500	30.000	122.00	0.000
25	4: 33: 0	1.550	30.000	122.00	0.000
26	4: 36: 0	1.600	30.000	122.00	0.000
27	4: 39: 0	1.650	30.000	122.00	0.000
28	4: 42: 0	1.700	30.000	122.00	0.000
29	4: 45: 0	1.750	30.000	122.00	0.000
30	4: 48: 0	1.800	30.000	122.00	0.000
31	4: 51: 0	1.850	30.000	122.00	0.000
32	4: 54: 0	1.900	30.000	122.00	0.000
33	4: 57: 0	1.950	30.000	122.00	0.000
34	5: 0: 0	2.000	30.000	122.00	0.000

WESTERN TESTING CO. INC.

RA 11753

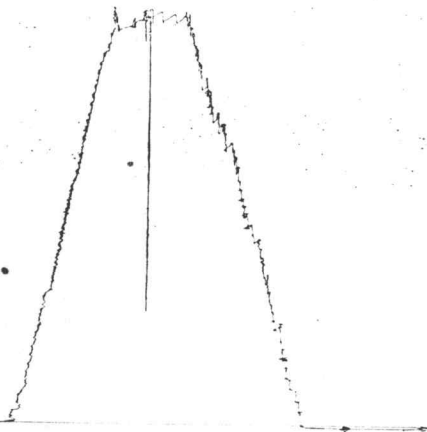
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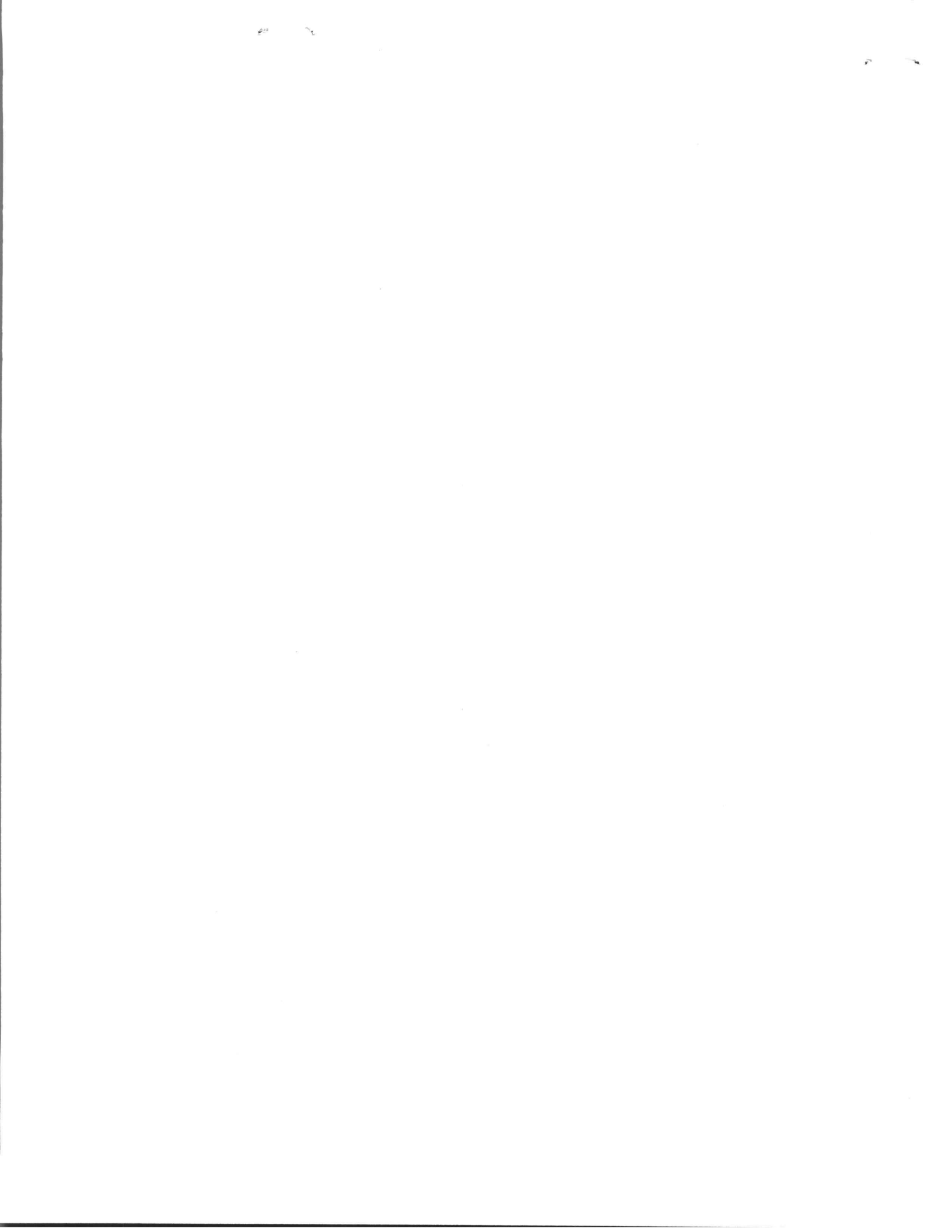
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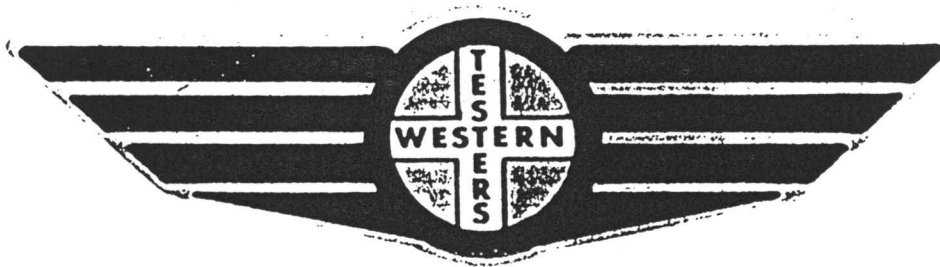
RA 11753

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY MUSTANG COMPANIES, INC. LEASE & WELL NO. FEHRENBACH 3-34 SEC. 34 TWP. 20S RGE. 25W TEST NO. 1 DATE 7/22/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-22-87
 CUSTOMER : MUSTANG COMPANIES INC.
 WELL : #3-34 TEST: 2
 ELEVATION : NA
 SECTION : 34
 RANGE : 25W COUNTY : NESS
 GAUGE SN# : 13549 RANGE : 4100
 TICKET : 11753
 LEASE : FEHRENBACH
 GEOLOGIST : H. DIXON
 FORMATION : -
 TOWNSHIP : 20S
 STATE : KANSAS
 CLOCK : 12

INTERVAL FROM : 4437 TO : 4482 TOTAL DEPTH : 4482
 DEPTH OF SELECTIVE ZONE :
 PACKER DEPTH : 4432 SIZE : 6.63
 PACKER DEPTH : 4437 SIZE : 6.63
 PACKER DEPTH : SIZE :
 PACKER DEPTH : SIZE :

DRILLING CON. : MUSTANG RIG #4
 MUD TYPE : CHEMICAL VISCOSITY : 47
 WEIGHT : 9.1 WATER LOSS (CC) : 12.0
 CHLORIDES (PPM) :
 JARS-MAKE : - SERIAL NUMBER :
 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 : 4297 FT I.D. inch : 3.80
 TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
 ANCHOR LENGTH : 45 FT ANCHOR SIZE : 5.50
 SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
 MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.FH

BLOW COMMENT #1 :
 BLOW COMMENT #2 :
 BLOW COMMENT #3 :
 BLOW COMMENT #4 :

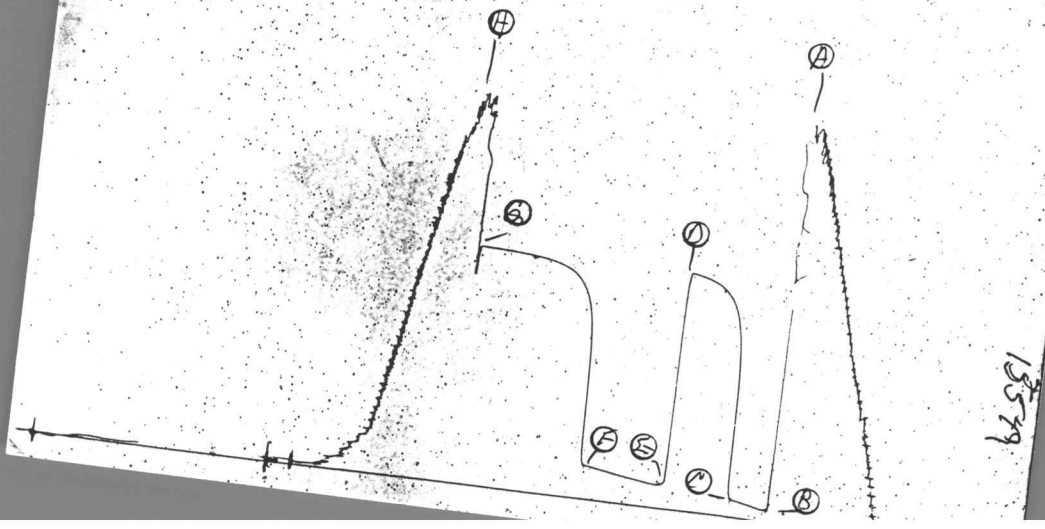
RECOVERED : 0 FT OF:

Total Barrels Fluid = 0.00
Total Fluid Prod Rate = 0.00 BFPD

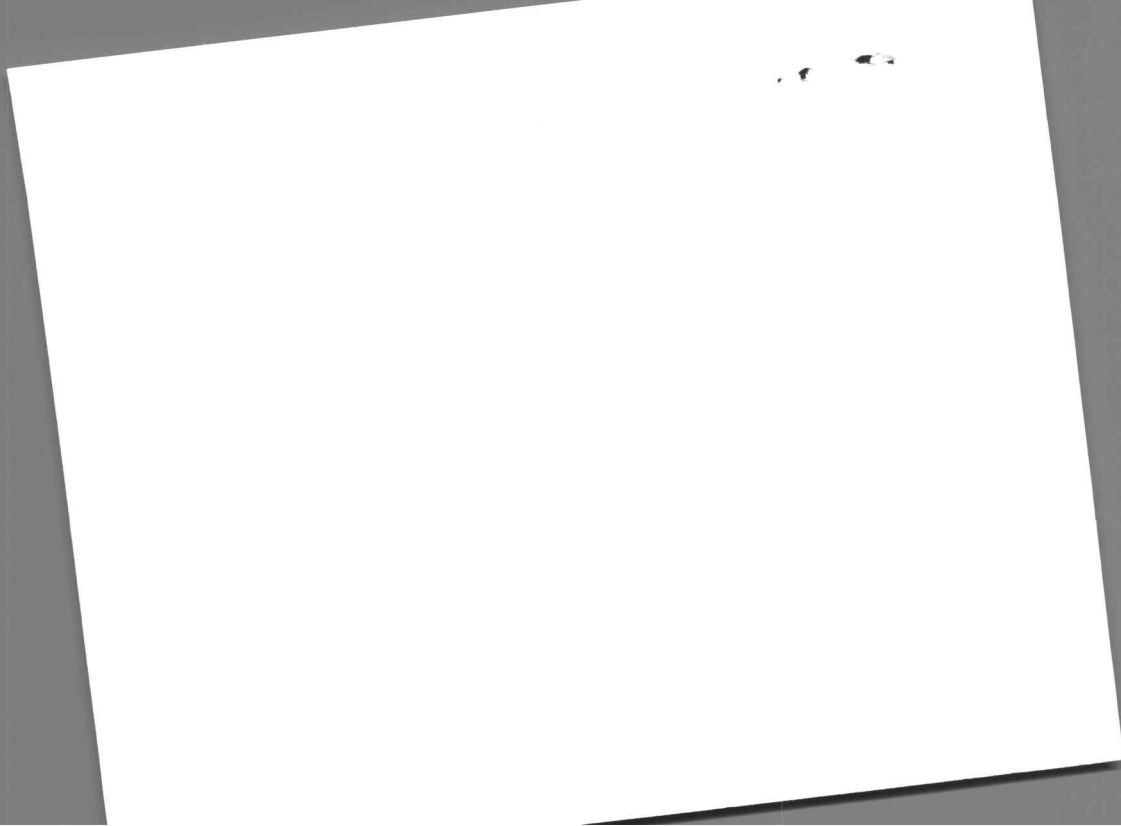
REMARK 1 : MISRUN: NO PACKER SEAT.
REMARK 2 :
REMARK 3 :
REMARK 4 :

SET PACKER(S) :		TIME STARTED OFF BOTTOM :	
WELL TEMPERATURE :	0		
INITIAL HYDROSTATIC PRESSURE		(A)	2123
INITIAL FLOW PERIOD MIN:	0	(B)	0 PSI TO (C) : 0
INITIAL CLOSED IN PERIOD MIN:	0	(D)	0
FINAL FLOW PERIOD MIN:	0	(E)	0 PSI TO (F) : 0
FINAL CLOSED IN PERIOD MIN:	0	(G)	0
FINAL HYDROSTATIC PRESSURE		(H)	2097

TKT 11754
7



13529

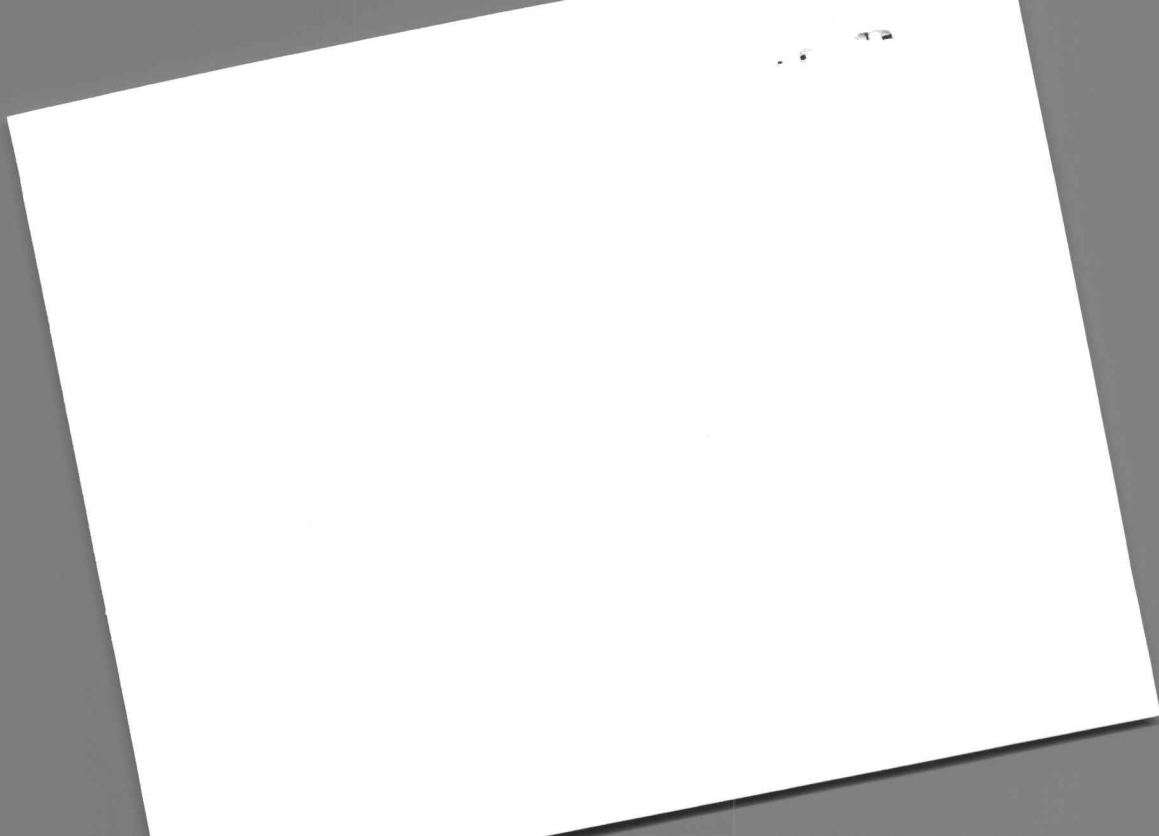


KT 11754

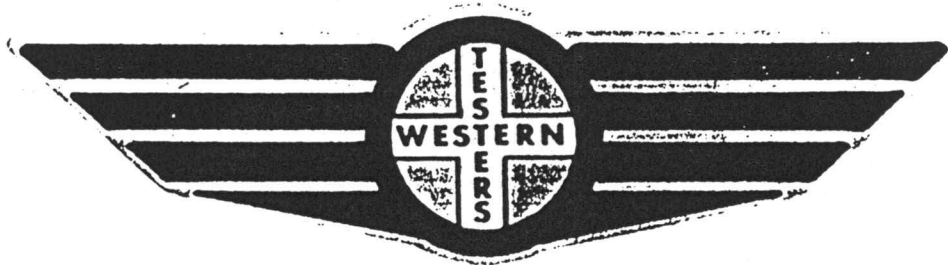
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1553
05/22



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY MUSTANG COMPANIES, INC. LEASE & WELL NO. FEHRENBACH 3-34 SEC. 34 TWP. 20S RGE. 25W TEST NO. 3 DATE 7/22/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-22-87
CUSTOMER : MUSTANG COMPANIES INC.
WELL : #3-34 TEST: 3
ELEVATION : NA
SECTION : 34
RANGE : 25W COUNTY : NESS
GAUGE SN# : 13549 RANGE : 4100
TICKET : 11754
LEASE : FEHRENBACH
GEOLOGIST : H. DIXON
FORMATION : MISSISSIPPI
TOWNSHIP : 20S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 4429 TO : 4482 TOTAL DEPTH : 4482
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4424 SIZE : 6.63
PACKER DEPTH : 4429 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : MUSTANG RIG #4
MUD TYPE : CHEMICAL VISCOSITY : 42
WEIGHT : 9.1 WATER LOSS (CC) : 12.8
CHLORIDES (PPM) : 3600
JARS-MAKE : - SERIAL NUMBER :
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 : 4289 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 53 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4. FH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW BUILDING TO 8 INCHES.
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW BUILDING TO 4 INCHES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 20 FT OF: OIL GRAVITY 37

RECOVERED : 370 FT OF: MUD CUT WATER
20% MUD-80% WATER

CHLORIDES: 15000 PPM

Total Barrels Fluid = 4.38
Total Fluid Prod Rate = 70.04 BFPD
Indicated Oil Rate = 3.59 BOPD
Indicated Wtr Rate = 53.16 BWPD
Corrected Oil Rate = 60.25 BOPD
Corrected Wtr Rate = 891.72 BWPD

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

SET PACKER(S) : 11:15 AM

TIME STARTED OFF BOTTOM : 3:00 PM

WELL TEMPERATURE : 128

INITIAL HYDROSTATIC PRESSURE

(A) 2143

INITIAL FLOW PERIOD MIN: 30

(B) 63 PSI TO (C) : 100

INITIAL CLOSED IN PERIOD MIN: 51

(D) 1291

FINAL FLOW PERIOD MIN: 60

(E) 130 PSI TO (F) : 185

FINAL CLOSED IN PERIOD MIN: 96

(G) 1292

FINAL HYDROSTATIC PRESSURE

(H) 2109

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MUSTANG COMPANIES INC.
RIG : NESS-KANSAS
FIELD : FEHRENBACH
WELL : #3-34
DATE : 7-22-87
GAUGE NO : 13549

OPERATIONAL COMMENTS

COMPANY : MUSTANG COMPANIES INC.
 WELL : #3-34
 GAUGE # : 13549
 DATE : 22/ 7/87

FIELD : FEHRENBACH
 JOB # : 11754
 DEPTH : 4482
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	11:15:0	0.000	63.000	128.00	0.000
2	11:19:59	0.083	63.000	128.00	0.000
3	11:25:0	0.167	71.000	128.00	8.000
4	11:30:0	0.250	81.000	128.00	10.000
5	11:34:59	0.333	89.000	128.00	8.000
6	11:40:0	0.417	96.000	128.00	7.000
7	11:45:0	0.500	100.000	128.00	4.000
8	11:48:0	0.550	626.000	128.00	526.000
9	11:51:0	0.600	920.000	128.00	294.000
10	11:54:0	0.650	1029.000	128.00	109.000
11	11:57:0	0.700	1100.000	128.00	71.000
12	12:0:0	0.750	1150.000	128.00	50.000
13	12:3:0	0.800	1183.000	128.00	33.000
14	12:6:0	0.850	1211.000	128.00	28.000
15	12:9:0	0.900	1227.000	128.00	16.000
16	12:12:0	0.950	1244.000	128.00	17.000
17	12:15:0	1.000	1253.000	128.00	9.000
18	12:18:0	1.050	1263.000	128.00	10.000
19	12:21:0	1.100	1270.000	128.00	7.000
20	12:24:0	1.150	1278.000	128.00	8.000
21	12:27:0	1.200	1281.000	128.00	3.000
22	12:30:0	1.250	1285.000	128.00	4.000
23	12:33:0	1.300	1289.000	128.00	4.000
24	12:36:0	1.350	1291.000	128.00	2.000
25	12:37:0	1.367	130.000	128.00	-1161.000
26	12:40:59	1.433	130.000	128.00	0.000
27	12:46:0	1.517	130.000	128.00	0.000
28	12:51:0	1.600	135.000	128.00	5.000
29	12:55:59	1.683	140.000	128.00	5.000
30	13:1:0	1.767	145.000	128.00	5.000
31	13:6:0	1.850	150.000	128.00	5.000
32	13:10:59	1.933	156.000	128.00	6.000
33	13:16:0	2.017	162.000	128.00	6.000
34	13:21:0	2.100	169.000	128.00	7.000
35	13:25:59	2.183	174.000	128.00	5.000
36	13:31:0	2.267	179.000	128.00	5.000
37	13:36:0	2.350	185.000	128.00	6.000
38	13:38:59	2.400	582.000	128.00	397.000
39	13:41:59	2.450	907.000	128.00	325.000
40	13:45:0	2.500	1031.000	128.00	124.000
41	13:48:0	2.550	1096.000	128.00	65.000
42	13:51:0	2.600	1138.000	128.00	42.000
43	13:53:59	2.650	1171.000	128.00	33.000
44	13:56:59	2.700	1197.000	128.00	26.000
45	14:0:0	2.750	1214.000	128.00	17.000
46	14:3:0	2.800	1226.000	128.00	12.000
47	14:6:0	2.850	1237.000	128.00	11.000
48	14:8:59	2.900	1245.000	128.00	8.000
49	14:11:59	2.950	1252.000	128.00	7.000
50	14:15:0	3.000	1260.000	128.00	8.000
51	14:18:0	3.050	1264.000	128.00	4.000
52	14:21:0	3.100	1268.000	128.00	4.000

COMPANY : MUSTANG COMPANIES INC.
WELL : #3-34
GAUGE # : 13549
DATE : 22/ 7/87

FIELD : FEHRENBACH
JOB # : 11754
DEPTH : 4482
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P1-P(i-1)
53	14:23:59	3.150	1272.000	128.00	4.000
54	14:26:59	3.200	1275.000	128.00	3.000
55	14:30:0	3.250	1278.000	128.00	3.000
56	14:33:0	3.300	1280.000	128.00	2.000
57	14:36:0	3.350	1281.000	128.00	1.000
58	14:38:59	3.400	1282.000	128.00	1.000
59	14:41:59	3.450	1283.000	128.00	1.000
60	14:45:0	3.500	1284.000	128.00	1.000
61	14:48:0	3.550	1285.000	128.00	1.000
62	14:51:0	3.600	1286.000	128.00	1.000
63	14:53:59	3.650	1287.000	128.00	1.000
64	14:56:59	3.700	1288.000	128.00	1.000
65	15:0:0	3.750	1289.000	128.00	1.000
66	15:3:0	3.800	1290.000	128.00	1.000
67	15:6:0	3.850	1291.000	128.00	1.000
68	15:8:59	3.900	1292.000	128.00	1.000
69	15:11:59	3.950	1292.000	128.00	0.000

WESTERN TESTING CO. INC.