



WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 10-22-88  
CUSTOMER : MUSTANG COMPANIES INC.  
WELL : #7 TEST: 1  
ELEVATION : 2279 KB  
SECTION : 6  
RANGE : 20W COUNTY : ROOKS  
GAUGE SN# : 1566 RANGE : 4300  
TICKET : 14637  
LEASE : HINKHOUSE  
GEOLOGIST : B GEBHART  
FORMATION : TOR-LANS  
TOWNSHIP : 10S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 3502 TO : 3630 TOTAL DEPTH : 3630

DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3497 SIZE : 6.75  
PACKER DEPTH : 3502 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : MALLARD RIG 1  
MUD TYPE : CHEMICAL VISCOSITY : 40  
WEIGHT : 9.2 WATER LOSS (CC) : 8  
CHLORIDES (PPM) : 2500  
JARS-MAKE : - SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 300 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 3182 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 128 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-1" IN BUCKET.  
BLOW COMMENT #2 : FINAL FLOW-WEAK SURFACE BLOW  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 20 FT OF: DRILLING MUD / WITH FEW OIL SPOTS

Total Barrels Fluid = 0.09  
Total Fluid Prod Rate = 2.26 BFPD  
Indicated Wtr Rate = 0.23 BWPD

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

SET PACKER(S) :	12:50 PM	TIME STARTED OFF BOTTOM :	2:50 PM
WELL TEMPERATURE :	112		
INITIAL HYDROSTATIC PRESSURE		(A)	1733
INITIAL FLOW PERIOD MIN:	30	(B)	40 PSI TO (C) : 35
INITIAL CLOSED IN PERIOD MIN:	30	(D)	436
FINAL FLOW PERIOD MIN:	30	(E)	51 PSI TO (F) : 49
FINAL CLOSED IN PERIOD MIN:	30	(G)	413
FINAL HYDROSTATIC PRESSURE		(H)	1700

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
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COMPANY : MUSTANG COMPANIES INC.  
RIG : ROOKS-KANSAS  
FIELD : HINKHOUSE  
WELL : #7  
DATE : 10-22-88  
GAUGE NO : 1566

OPERATIONAL COMMENTS

COMPANY : MUSTANG COMPANIES INC.  
 WELL : #7  
 GAUGE # : 1566  
 DATE : 22/10/88

FIELD : HINKHOUSE  
 JOB # : 14637  
 DEPTH : 3630  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW					
2	12:50: 0	0.000	40.000	112.00	0.000
3	12:54:59	0.083	40.000	112.00	0.000
4	13: 0: 0	0.167	40.000	112.00	0.000
5	13: 5: 0	0.250	37.000	112.00	-3.000
6	13: 9:59	0.333	35.000	112.00	-2.000
7	13:15: 0	0.417	35.000	112.00	0.000
8	13:20: 0	0.500	35.000	112.00	0.000
INITIAL SHUT-IN					
9	13:23: 0	0.550	56.000	112.00	21.000
10	13:26: 0	0.600	205.000	112.00	149.000
11	13:29: 0	0.650	287.000	112.00	82.000
12	13:32: 0	0.700	343.000	112.00	56.000
13	13:35: 0	0.750	374.000	112.00	31.000
14	13:38: 0	0.800	395.000	112.00	21.000
15	13:41: 0	0.850	408.000	112.00	13.000
16	13:44: 0	0.900	421.000	112.00	13.000
17	13:47: 0	0.950	430.000	112.00	9.000
18	13:50: 0	1.000	436.000	112.00	6.000
FINAL FLOW					
19	13:51: 0	1.017	51.000	112.00	-385.000
20	13:54:59	1.083	51.000	112.00	0.000
21	14: 0: 0	1.167	51.000	112.00	0.000
22	14: 5: 0	1.250	49.000	112.00	-2.000
23	14: 9:59	1.333	49.000	112.00	0.000
24	14:15: 0	1.417	49.000	112.00	0.000
25	14:20: 0	1.500	49.000	112.00	0.000
FINAL SHUT-IN					
26	14:23: 0	1.550	95.000	112.00	46.000
27	14:26: 0	1.600	213.000	112.00	118.000
28	14:29: 0	1.650	289.000	112.00	76.000
29	14:32: 0	1.700	330.000	112.00	41.000
30	14:35: 0	1.750	356.000	112.00	26.000
31	14:38: 0	1.800	376.000	112.00	20.000
32	14:41: 0	1.850	387.000	112.00	11.000
33	14:44: 0	1.900	398.000	112.00	11.000
34	14:47: 0	1.950	406.000	112.00	8.000
35	14:50: 0	2.000	413.000	112.00	7.000

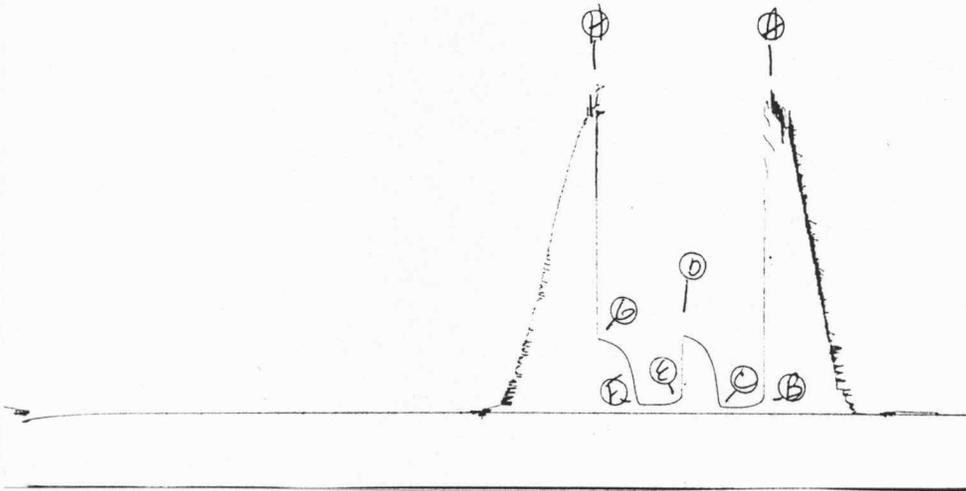
WESTERN TESTING CO. INC.

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MUSTANG  
DST 1

TKT # 14637

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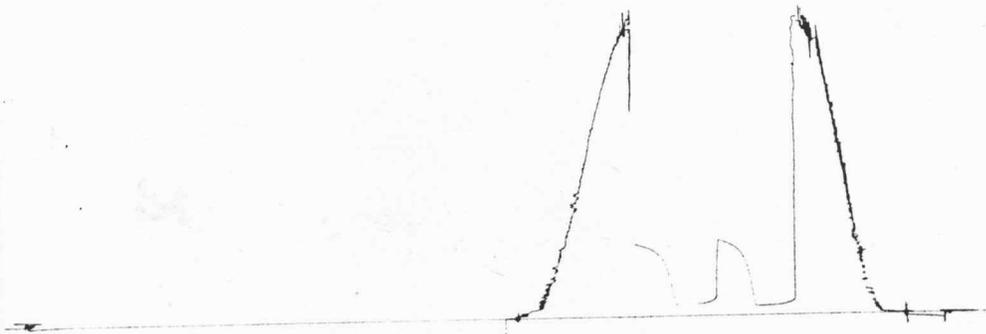
Inside Recorder

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MUSTANG  
DST 1

TKT # 14637

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Outside Recorder

# FORMATION

# TEST

# REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY MUSTANG COMPANIES INC.

LEASE & WELL NO. \_\_\_\_\_

HINKHOUSE #7 \_\_\_\_\_

SEC. 6 \_\_\_\_\_

TWP. 10S RGE. 20W \_\_\_\_\_

TEST NO. \_\_\_\_\_

DATE: 10/23

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 10-23-88  
CUSTOMER : MUSTANG COMPANIES INC.  
WELL : #7 TEST: 2  
ELEVATION : 2279 KB  
SECTION : 6  
RANGE : 20W COUNTY : ROOKS  
GAUGE SN# : 1566 RANGE : 4300  
TICKET : 14638  
LEASE : HINKHOUSE  
GEOLOGIST : B GEBHART  
FORMATION : LANSING  
TOWNSHIP : 10S  
STATE : KANSAS  
CLOCK : 12

INTERVAL FROM : 3664 TO : 3750 TOTAL DEPTH : 3750

DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3659 SIZE : 6.75  
PACKER DEPTH : 3664 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : MALLARD RIG 1  
MUD TYPE : CHEMICAL VISCOSITY : 40  
WEIGHT : 9.2 WATER LOSS (CC) : 8  
CHLORIDES (PPM) : 2500  
JARS-MAKE : - SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 300 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 3344 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 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-DEAD 10 MINUTES.  
BLOW COMMENT #2 : FINAL FLOW-NO BLOW.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 10 FT OF: MUD /WITH FEW OIL SPOTS  
GOOD SHOW OF OIL IN TOOL

Total Barrels Fluid = 0.05  
Total Fluid Prod Rate = 1.13 BFPD  
Indicated Wtr Rate = 0.11 BWPD

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

SET PACKER(S) : 8:50 AM TIME STARTED OFF BOTTOM : 10:50 AM  
WELL TEMPERATURE : 113  
INITIAL HYDROSTATIC PRESSURE (A) 1870  
INITIAL FLOW PERIOD MIN: 30 (B) 38 PSI TO (C) : 22  
INITIAL CLOSED IN PERIOD MIN: 30 (D) 192  
FINAL FLOW PERIOD MIN: 30 (E) 36 PSI TO (F) : 25  
FINAL CLOSED IN PERIOD MIN: 30 (G) 138  
FINAL HYDROSTATIC PRESSURE (H) 1793

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report

COMPANY : MUSTANG COMPANIES INC.  
RIG : ROOKS-KANSAS  
FIELD : HINKHOUSE  
WELL : #7  
DATE : 10-23-88  
GAUGE NO : 1566

OPERATIONAL COMMENTS

COMPANY : MUSTANG COMPANIES INC.  
 WELL : #7  
 GAUGE # : 1566  
 DATE : 23/10/88

FIELD : HINKHOUSE  
 JOB # : 14638  
 DEPTH : 3750  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW					
2	8:50: 0	0.000	38.000	113.00	0.000
3	8:54:59	0.083	38.000	113.00	0.000
4	9: 0: 0	0.167	38.000	113.00	0.000
5	9: 5: 0	0.250	30.000	113.00	-8.000
6	9: 9:59	0.333	25.000	113.00	-5.000
7	9:15: 0	0.417	22.000	113.00	-3.000
8	9:20: 0	0.500	22.000	113.00	0.000
INITIAL SHUT-IN					
9	9:23: 0	0.550	23.000	113.00	1.000
10	9:26: 0	0.600	30.000	113.00	7.000
11	9:29: 0	0.650	44.000	113.00	14.000
12	9:32: 0	0.700	73.000	113.00	29.000
13	9:35: 0	0.750	103.000	113.00	30.000
14	9:38: 0	0.800	127.000	113.00	24.000
15	9:41: 0	0.850	149.000	113.00	22.000
16	9:44: 0	0.900	165.000	113.00	16.000
17	9:47: 0	0.950	179.000	113.00	14.000
18	9:50: 0	1.000	192.000	113.00	13.000
FINAL FLOW					
19	9:51: 0	1.017	36.000	113.00	-156.000
20	9:54:59	1.083	36.000	113.00	0.000
21	10: 0: 0	1.167	36.000	113.00	0.000
22	10: 5: 0	1.250	30.000	113.00	-6.000
23	10: 9:59	1.333	28.000	113.00	-2.000
24	10:15: 0	1.417	26.000	113.00	-2.000
25	10:20: 0	1.500	25.000	113.00	-1.000
FINAL SHUT-IN					
26	10:23: 0	1.550	26.000	113.00	1.000
27	10:26: 0	1.600	30.000	113.00	4.000
28	10:29: 0	1.650	36.000	113.00	6.000
29	10:32: 0	1.700	47.000	113.00	11.000
30	10:35: 0	1.750	60.000	113.00	13.000
31	10:38: 0	1.800	77.000	113.00	17.000
32	10:41: 0	1.850	94.000	113.00	17.000
33	10:44: 0	1.900	111.000	113.00	17.000
34	10:47: 0	1.950	129.000	113.00	18.000
35	10:50: 0	2.000	138.000	113.00	9.000

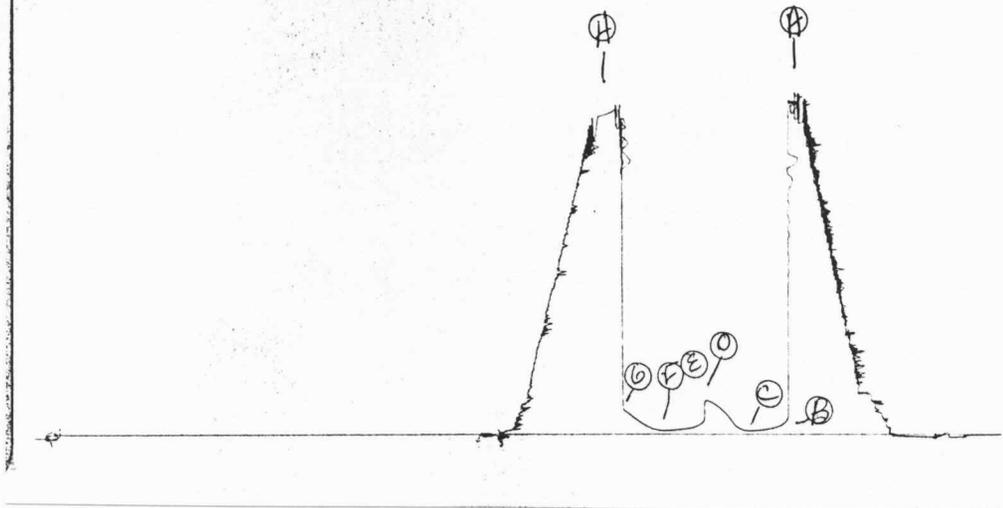
WESTERN TESTING CO. INC.

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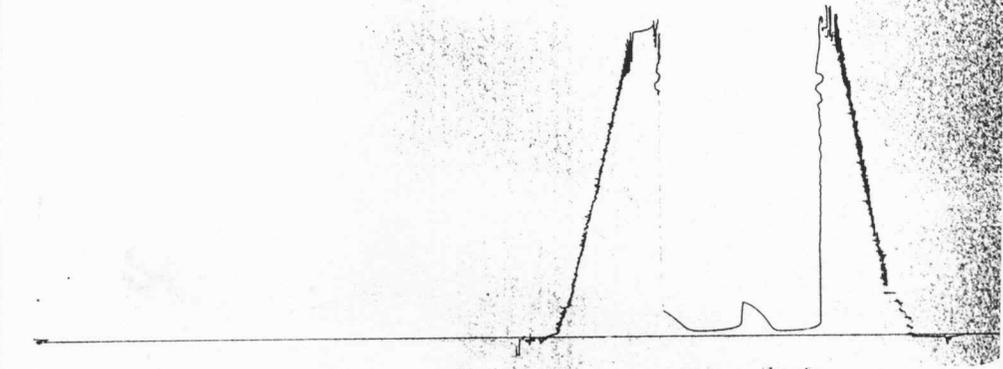
Inside Recorder

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MUSTANG  
DST 2

TKT # 14638

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Outside Recorder

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 10-24-88 TICKET : 14639  
CUSTOMER : MUSTANG COMPANIES INC. LEASE : HINKHOUSE  
WELL : #7 TEST: 3 GEOLOGIST : B GEBHART  
ELEVATION : 2279 FORMATION : ARBUCKLE  
SECTION : 6 TOWNSHIP : 10S  
RANGE : 20W COUNTY : ROOKS STATE : KANSAS  
GAUGE SN# : 1566 RANGE : 4300 CLOCK : 12

INTERVAL FROM : 3857 TO : 3865 TOTAL DEPTH : 3865  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3852 SIZE : 6.75  
PACKER DEPTH : 3857 SIZE : 6.75  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : MALLARD RIG 1  
MUD TYPE : CHEMICAL VISCOSITY : 44  
WEIGHT : 9.3 WATER LOSS (CC) : 9.6  
CHLORIDES (PPM) : 3100  
JARS-MAKE : - SERIAL NUMBER :  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 300 FT I.D. inch : 2.20  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 3537 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 8 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-FAIR-3" IN BUCKET.  
BLOW COMMENT #2 : FINAL FLOW-WEAK SURFACE BLOW.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 80 FT OF: DRILLING MUD / WITH SCUM OF OIL

Total Barrels Fluid = 0.38  
Total Fluid Prod Rate = 6.02 BFPD  
Indicated Wtr Rate = 0.60 BWPD

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

SET PACKER(S) :	3:40 AM	TIME STARTED OFF BOTTOM :	6:40 AM
WELL TEMPERATURE :	114		
INITIAL HYDROSTATIC PRESSURE		(A)	1993
INITIAL FLOW PERIOD MIN:	30	(B)	48 PSI TO (C) : 40
INITIAL CLOSED IN PERIOD MIN:	45	(D)	95
FINAL FLOW PERIOD MIN:	60	(E)	51 PSI TO (F) : 57
FINAL CLOSED IN PERIOD MIN:	48	(G)	97
FINAL HYDROSTATIC PRESSURE		(H)	1980

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report

COMPANY : MUSTANG COMPANIES INC.  
RIG : ROOKS-KANSAS  
FIELD : HINKHOUSE  
WELL : #7  
DATE : 10-24-88  
GAUGE NO : 1566

OPERATIONAL COMMENTS

COMPANY : MUSTANG COMPANIES INC.  
 WELL : #7  
 GAUGE # : 1566  
 DATE : 24/10/88

FIELD : HINKHOUSE  
 JOB # : 14639  
 DEPTH : 3865  
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW					
2	3:40: 0	0.000	48.000	114.00	0.000
3	3:44:59	0.083	48.000	114.00	0.000
4	3:50: 0	0.167	48.000	114.00	0.000
5	3:55: 0	0.250	43.000	114.00	-5.000
6	3:59:59	0.333	42.000	114.00	-1.000
7	4: 5: 0	0.417	41.000	114.00	-1.000
8	4:10: 0	0.500	40.000	114.00	-1.000
INITIAL SHUT-IN					
9	4:13: 0	0.550	56.000	114.00	16.000
10	4:16: 0	0.600	71.000	114.00	15.000
11	4:19: 0	0.650	79.000	114.00	8.000
12	4:22: 0	0.700	86.000	114.00	7.000
13	4:25: 0	0.750	89.000	114.00	3.000
14	4:28: 0	0.800	91.000	114.00	2.000
15	4:31: 0	0.850	92.000	114.00	1.000
16	4:34: 0	0.900	93.000	114.00	1.000
17	4:37: 0	0.950	94.000	114.00	1.000
18	4:40: 0	1.000	95.000	114.00	1.000
19	4:43: 0	1.050	95.000	114.00	0.000
20	4:46: 0	1.100	95.000	114.00	0.000
21	4:49: 0	1.150	95.000	114.00	0.000
22	4:52: 0	1.200	95.000	114.00	0.000
23	4:55: 0	1.250	95.000	114.00	0.000
FINAL FLOW					
24	4:56: 0	1.267	51.000	114.00	-44.000
25	4:59:59	1.333	51.000	114.00	0.000
26	5: 5: 0	1.417	51.000	114.00	0.000
27	5:10: 0	1.500	51.000	114.00	0.000
28	5:14:59	1.583	51.000	114.00	0.000
29	5:20: 0	1.667	51.000	114.00	0.000
30	5:25: 0	1.750	51.000	114.00	0.000
31	5:29:59	1.833	52.000	114.00	1.000
32	5:35: 0	1.917	53.000	114.00	1.000
33	5:40: 0	2.000	54.000	114.00	1.000
34	5:44:59	2.083	55.000	114.00	1.000
35	5:50: 0	2.167	56.000	114.00	1.000
36	5:55: 0	2.250	57.000	114.00	1.000
FINAL SHUT-IN					
37	5:58: 0	2.300	73.000	114.00	16.000
38	6: 1: 0	2.350	83.000	114.00	10.000
39	6: 4: 0	2.400	88.000	114.00	5.000
40	6: 7: 0	2.450	94.000	114.00	6.000
41	6:10: 0	2.500	95.000	114.00	1.000
42	6:13: 0	2.550	95.000	114.00	0.000
43	6:16: 0	2.600	96.000	114.00	1.000
44	6:19: 0	2.650	96.000	114.00	0.000
45	6:22: 0	2.700	97.000	114.00	1.000
46	6:25: 0	2.750	97.000	114.00	0.000
47	6:28: 0	2.800	97.000	114.00	0.000
48	6:31: 0	2.850	97.000	114.00	0.000

COMPANY : MUSTANG COMPANIES INC.  
WELL : #7  
GAUGE # : 1566  
DATE : 24/10/88

FIELD : HINKHOUSE  
JOB # : 14639  
DEPTH : 3865  
TEST :

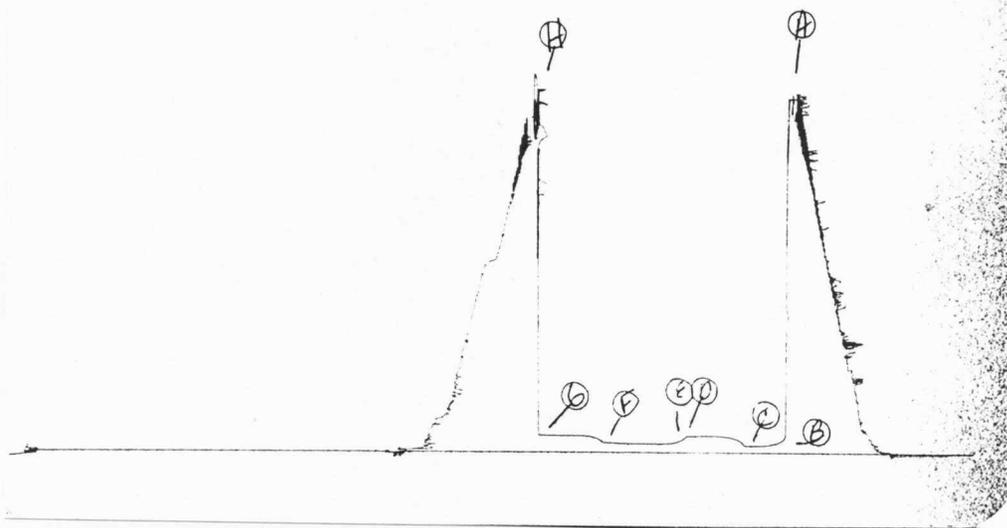
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49	6:34: 0	2.900	97.000	114.00	0.000
50	6:37: 0	2.950	97.000	114.00	0.000
51	6:40: 0	3.000	97.000	114.00	0.000
52	6:43: 0	3.050	97.000	114.00	0.000

WESTERN TESTING CO. INC.

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MUSTANG  
DST 3

TKT # 14639  
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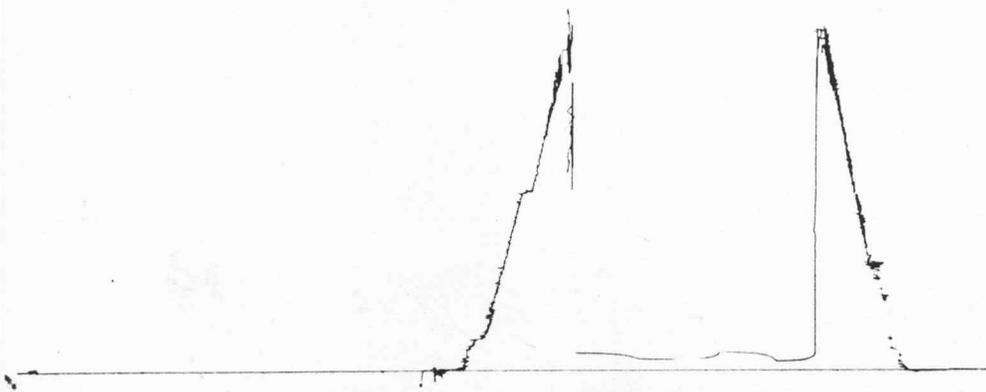


Inside Recorder

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MUSTANG  
DST 3

TKT # 14639  
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