

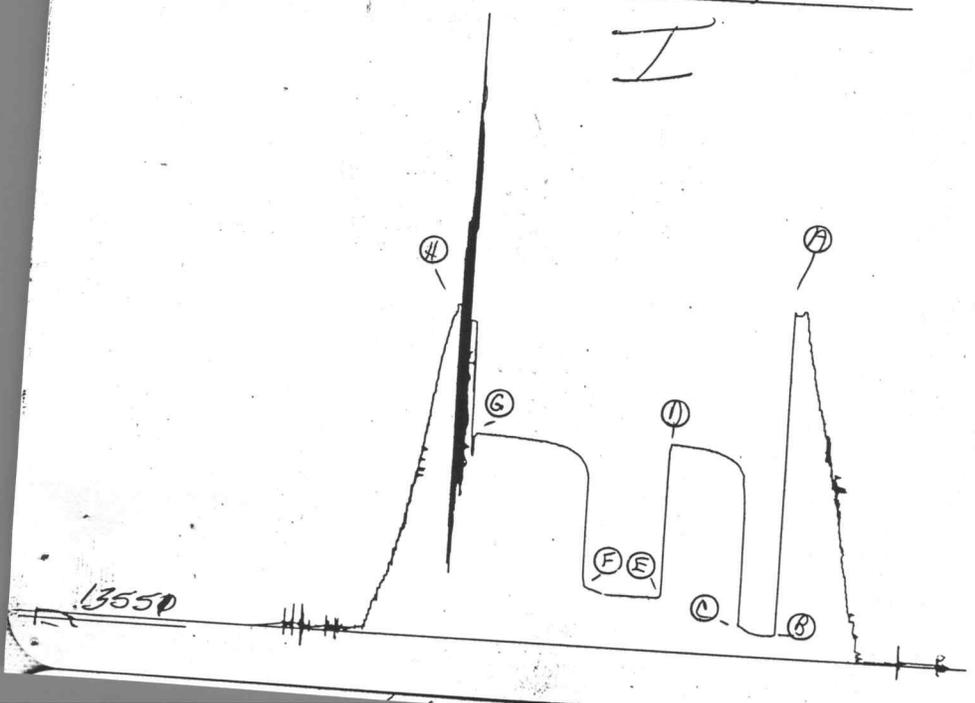
TKA 13339

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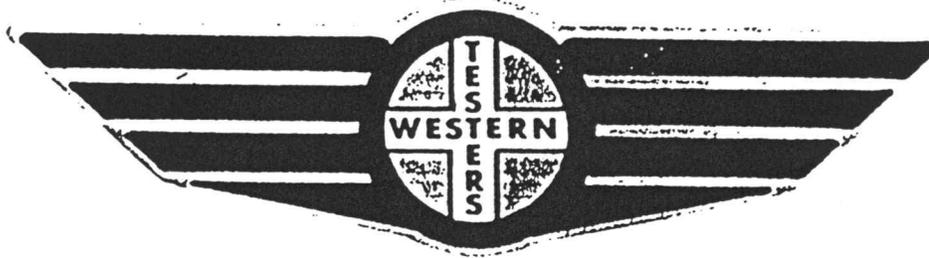


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY MURFIN DRILLING COMPANY

LEASE & WELL NO. DIAMOND BAR #1-10

SEC. 10 TWP. 3S RGE. 27W TEST NO. 1 DATE 6/30/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 6-30-87 TICKET : 13339
CUSTOMER : MURFIN DRILLING COMPANY LEASE : DIAMOND BAR
WELL : #1-10 TEST: 1 GEOLOGIST : C. SCHMALTZ
ELEVATION : 2677 GS FORMATION : -
SECTION : 10 TOWNSHIP : 3S
RANGE : 27W COUNTY : DECATUR STATE : KANSAS
GAUGE SN# : 13551 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 3526 TO : 3572 TOTAL DEPTH : 3572

DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3521 SIZE : 6.63
PACKER DEPTH : 3526 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : COMPANY TOOLS RIG #2
MUD TYPE : STARCH VISCOSITY : 41
WEIGHT : 9.4 WATER LOSS (CC) : 8
CHLORIDES (PPM) : 49000
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 486 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3020 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 46 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-BOTTOM OF BUCKET 15 MINUTES.
BLOW COMMENT #2 : FINAL FLOW-STRONG BLOW-BOTTOM OF BUCKET 40 MINUTES.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 710 FT OF: MUDDY WATER-GOOD SHOW OF OIL IN
TOP OF TOOLS.

CHLORIDES: 75000 PPM

Total Barrels Fluid = 5.53
Total Fluid Prod Rate = 93.72 BFPD
Indicated Wtr Rate = 39.60 BWPD

REMARK 1 :
REMARK 2 : SLID 5 FEET TO BOTTOM.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 7:35 PM
WELL TEMPERATURE : 113
INITIAL HYDROSTATIC PRESSURE (A) 1868
INITIAL FLOW PERIOD MIN: 30 (B) 116 PSI TO (C) : 160
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1133
FINAL FLOW PERIOD MIN: 55 (E) 285 PSI TO (F) : 316
FINAL CLOSED IN PERIOD MIN: 90 (G) 1122
FINAL HYDROSTATIC PRESSURE (H) 1815

TIME STARTED OFF BOTTOM : 11:35 PM

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MURFIN DRILLING COMPANY
RIG : DECATUR-KANSAS
FIELD : DIAMOND BAR
WELL : #1-10
DATE : 6-30-87
GAUGE NO : 13551

OPERATIONAL COMMENTS

SLID 5 FEET TO BOTTOM.

COMPANY : MURFIN DRILLING COMPANY
 WELL : #1-10
 GAUGE # : 13551
 DATE : 30/ 6/87

FIELD : DIAMOND BAR
 JOB # : 13339
 DEPTH : 3572
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P1-P(i-1)
1	7:35: 0	0.000	116.000	113.00	0.000
2	7:39:59	0.083	116.000	113.00	0.000
3	7:45: 0	0.167	116.000	113.00	0.000
4	7:50: 0	0.250	117.000	113.00	1.000
5	7:54:59	0.333	125.000	113.00	8.000
6	8: 0: 0	0.417	149.000	113.00	24.000
7	8: 5: 0	0.500	160.000	113.00	11.000
8	8: 8: 0	0.550	966.000	113.00	806.000
9	8:11: 0	0.600	1023.000	113.00	57.000
10	8:14: 0	0.650	1049.000	113.00	26.000
11	8:17: 0	0.700	1065.000	113.00	16.000
12	8:20: 0	0.750	1076.000	113.00	11.000
13	8:23: 0	0.800	1085.000	113.00	9.000
14	8:26: 0	0.850	1096.000	113.00	11.000
15	8:29: 0	0.900	1104.000	113.00	8.000
16	8:32: 0	0.950	1108.000	113.00	4.000
17	8:35: 0	1.000	1113.000	113.00	5.000
18	8:38: 0	1.050	1117.000	113.00	4.000
19	8:41: 0	1.100	1120.000	113.00	3.000
20	8:44: 0	1.150	1122.000	113.00	2.000
21	8:47: 0	1.200	1124.000	113.00	2.000
22	8:50: 0	1.250	1126.000	113.00	2.000
23	8:53: 0	1.300	1128.000	113.00	2.000
24	8:56: 0	1.350	1130.000	113.00	2.000
25	8:59: 0	1.400	1131.000	113.00	1.000
26	9: 2: 0	1.450	1132.000	113.00	1.000
27	9: 5: 0	1.500	1133.000	113.00	1.000
28	9: 6: 0	1.517	285.000	113.00	-848.000
29	9: 9:59	1.583	285.000	113.00	0.000
30	9:15: 0	1.667	285.000	113.00	0.000
31	9:20: 0	1.750	285.000	113.00	0.000
32	9:24:59	1.833	285.000	113.00	0.000
33	9:30: 0	1.917	285.000	113.00	0.000
34	9:35: 0	2.000	285.000	113.00	0.000
35	9:39:59	2.083	285.000	113.00	0.000
36	9:45: 0	2.167	286.000	113.00	1.000
37	9:50: 0	2.250	294.000	113.00	8.000
38	9:54:59	2.333	304.000	113.00	10.000
39	10: 0: 0	2.417	316.000	113.00	12.000
40	10: 3: 0	2.467	959.000	113.00	643.000
41	10: 6: 0	2.517	1003.000	113.00	44.000
42	10: 9: 0	2.567	1029.000	113.00	26.000
43	10:12: 0	2.617	1046.000	113.00	17.000
44	10:15: 0	2.667	1059.000	113.00	13.000
45	10:18: 0	2.717	1073.000	113.00	14.000
46	10:21: 0	2.767	1080.000	113.00	7.000
47	10:24: 0	2.817	1084.000	113.00	4.000
48	10:27: 0	2.867	1092.000	113.00	8.000
49	10:30: 0	2.917	1096.000	113.00	4.000
50	10:33: 0	2.967	1099.000	113.00	3.000
51	10:36: 0	3.017	1102.000	113.00	3.000
52	10:39: 0	3.067	1104.000	113.00	2.000

COMPANY : MURFIN DRILLING COMPANY
WELL : #1-10
GAUGE # : 13551
DATE : 30/ 6/87

FIELD : DIAMOND BAR
JOB # : 13339
DEPTH : 3572
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	10:42: 0	3.117	1105.000	113.00	1.000
54	10:45: 0	3.167	1107.000	113.00	2.000
55	10:48: 0	3.217	1108.000	113.00	1.000
56	10:51: 0	3.267	1109.000	113.00	1.000
57	10:54: 0	3.317	1110.000	113.00	1.000
58	10:57: 0	3.367	1112.000	113.00	2.000
59	11: 0: 0	3.417	1114.000	113.00	2.000
60	11: 3: 0	3.467	1115.000	113.00	1.000
61	11: 6: 0	3.517	1116.000	113.00	1.000
62	11: 9: 0	3.567	1117.000	113.00	1.000
63	11:12: 0	3.617	1118.000	113.00	1.000
64	11:15: 0	3.667	1119.000	113.00	1.000
65	11:18: 0	3.717	1120.000	113.00	1.000
66	11:21: 0	3.767	1121.000	113.00	1.000
67	11:24: 0	3.817	1122.000	113.00	1.000
68	11:27: 0	3.867	1122.000	113.00	0.000
69	11:30: 0	3.917	1122.000	113.00	0.000

WESTERN TESTING CO. INC.

TK4 13340

TK4 13340

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY MURFIN DRILLING COMPANY LEASE & WELL NO. DIAMOND BAR #1-10 SEC. 10 TWP. 3S RGE. 27W TEST NO. 2 DATE 7/1/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-1-87
CUSTOMER : MURFIN DRILLING COMPANY
WELL : #1-10 TEST: 2
ELEVATION : 2677 GS
SECTION : 10
RANGE : 27W COUNTY : DECATUR
GAUGE SN# : 13551 RANGE : 4150
TICKET : 13340
LEASE : DIAMOND BAR
GEOLOGIST : C. SCHMALTZ
FORMATION : TORONTO-KC 'A'
TOWNSHIP : 3S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3573 TO : 3627 TOTAL DEPTH : 3627
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3568 SIZE : 6.63
PACKER DEPTH : 3573 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : COMPANY TOOLS RIG #2
MUD TYPE : STARCH VISCOSITY : 41
WEIGHT : 9.0 WATER LOSS (CC) : 8.4
CHLORIDES (PPM) : 88000
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 486 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3067 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 54 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 :
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 : HOLE HAS HAD LOSS CIRCULATION PROBLEMS. PICKED UP TOOL-
HOLE WAS LOSING FLUID-LAID TOOL DOWN.

REMARK 2 :

REMARK 3 :

REMARK 4 :

SET PACKER(S) :

TIME STARTED OFF BOTTOM :

WELL TEMPERATURE : 0

INITIAL HYDROSTATIC PRESSURE (A) 0

INITIAL FLOW PERIOD MIN: 0 (B) 0 PSI TO (C) : 0

INITIAL CLOSED IN PERIOD MIN: 0 (D) 0

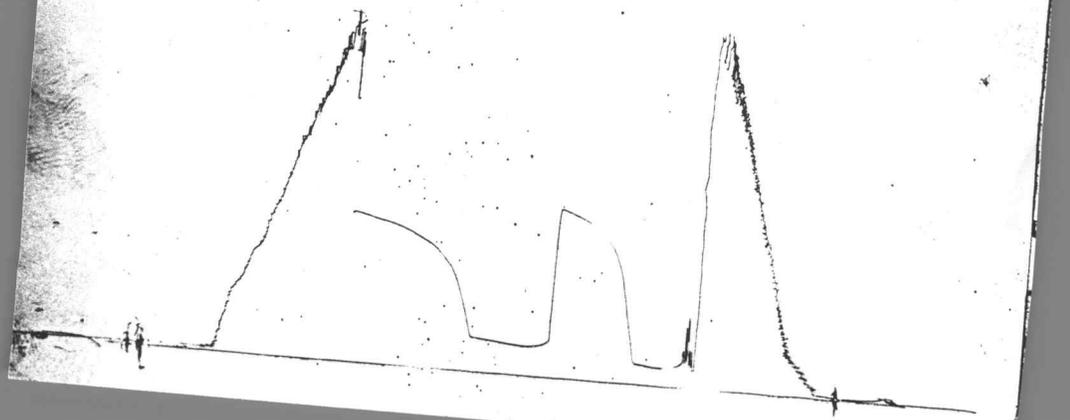
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) : 0

FINAL CLOSED IN PERIOD MIN: 0 (G) 0

FINAL HYDROSTATIC PRESSURE (H) 0

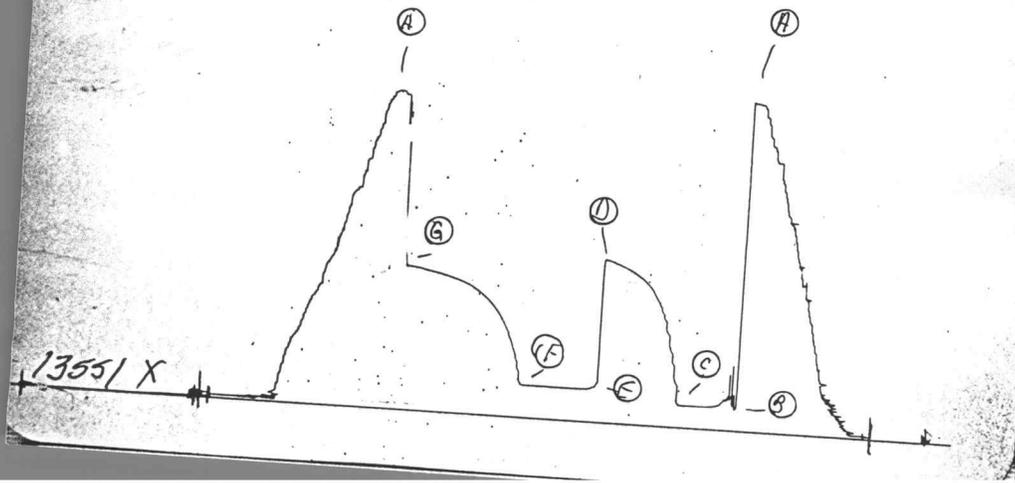
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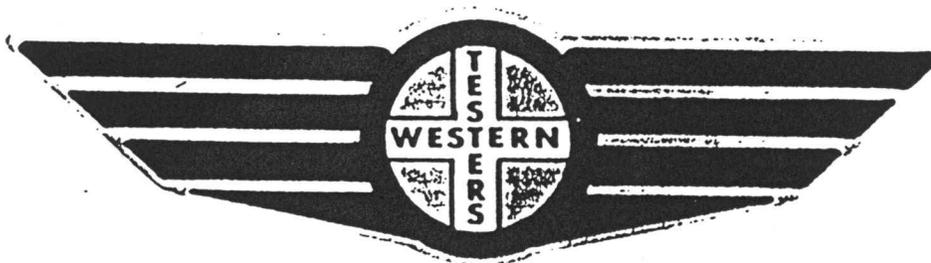


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-2-87
CUSTOMER : MURFIN DRILLING COMPANY
WELL : #1-10 TEST: 2A
ELEVATION : 2677 GS
SECTION : 10
RANGE : 27W COUNTY : DECATUR
GAUGE SN# : 13551 RANGE : 4150
TICKET : 13341
LEASE : DIAMOND BAR
GEOLOGIST : C. SCHMALTZ
FORMATION : LANSING 'B'
TOWNSHIP : 3S
STATE : KANSAS
CLOCK : 12

INTERVAL FROM : 3632 TO : 3654 TOTAL DEPTH : 3654
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3627 SIZE : 6.63
PACKER DEPTH : 3632 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : COMPANY TOOLS RIG #2
MUD TYPE : STARCH VISCOSITY : 40
WEIGHT : 9.0 WATER LOSS (CC) : 9.2
CHLORIDES (PPM) : 90000
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 486 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3126 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 22 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 BLOW-SLOW BUILD TO 8" IN BUCKET.
BLOW COMMENT #2 : FINAL FLOW-WEAK BLOW-SLOW BUILD TO 3" IN BUCKET.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 50 FT OF: OIL CUT WATERY MUD
5% OIL-10% WATER-85% MUD
RECOVERED : 300 FT OF: WATER

CHLORIDES: 75000 PPM

Total Barrels Fluid = 1.72
Total Fluid Prod Rate = 24.78 BFPD
Indicated Oil Rate = 0.18 BOPD
Indicated Wtr Rate = 21.95 BWPD

REMARK 1 :
REMARK 2 : LOST CIRCULATION MATERIAL IS 11 POUNDS.
REMARK 3 :
REMARK 4 :

SET PACKER(S) : 7:50 PM
WELL TEMPERATURE : 115
INITIAL HYDROSTATIC PRESSURE (A) 1784
INITIAL FLOW PERIOD MIN: 45 (B) 113 PSI TO (C) : 113
INITIAL CLOSED IN PERIOD MIN: 60 (D) 887
FINAL FLOW PERIOD MIN: 55 (E) 168 PSI TO (F) : 168
FINAL CLOSED IN PERIOD MIN: 90 (G) 786
FINAL HYDROSTATIC PRESSURE (H) 1729
TIME STARTED OFF BOTTOM : 12:05 AM

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MURFIN DRILLING COMPANY
RIG : DECATUR-KANSAS
FIELD : DIAMOND BAR
WELL : #1-10
DATE : 7-2-87
GAUGE NO : 13551

OPERATIONAL COMMENTS

LOST CIRCULATION MATERIAL IS 11 POUNDS.

COMPANY : MURFIN DRILLING COMPANY
 WELL : #1-10
 GAUGE # : 13551
 DATE : 2/ 7/87

FIELD : DIAMOND BAR
 JOB # : 13341
 DEPTH : 3654
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	7:50:0	0.000	113.000	115.00	0.000
2	7:54:59	0.083	113.000	115.00	0.000
3	8:0:0	0.167	113.000	115.00	0.000
4	8:5:0	0.250	113.000	115.00	0.000
5	8:9:59	0.333	113.000	115.00	0.000
6	8:15:0	0.417	113.000	115.00	0.000
7	8:20:0	0.500	113.000	115.00	0.000
8	8:24:59	0.583	113.000	115.00	0.000
9	8:30:0	0.667	113.000	115.00	0.000
10	8:35:0	0.750	113.000	115.00	0.000
11	8:38:0	0.800	226.000	115.00	113.000
12	8:41:0	0.850	333.000	115.00	107.000
13	8:44:0	0.900	409.000	115.00	76.000
14	8:47:0	0.950	503.000	115.00	94.000
15	8:50:0	1.000	581.000	115.00	78.000
16	8:53:0	1.050	641.000	115.00	60.000
17	8:56:0	1.100	681.000	115.00	40.000
18	8:59:0	1.150	722.000	115.00	41.000
19	9:2:0	1.200	751.000	115.00	29.000
20	9:5:0	1.250	773.000	115.00	22.000
21	9:8:0	1.300	791.000	115.00	18.000
22	9:11:0	1.350	808.000	115.00	17.000
23	9:14:0	1.400	822.000	115.00	14.000
24	9:17:0	1.450	834.000	115.00	12.000
25	9:20:0	1.500	844.000	115.00	10.000
26	9:23:0	1.550	856.000	115.00	12.000
27	9:26:0	1.600	864.000	115.00	8.000
28	9:29:0	1.650	871.000	115.00	7.000
29	9:32:0	1.700	880.000	115.00	9.000
30	9:35:0	1.750	887.000	115.00	7.000
31	9:36:0	1.767	168.000	115.00	-719.000
32	9:39:59	1.833	168.000	115.00	0.000
33	9:45:0	1.917	168.000	115.00	0.000
34	9:50:0	2.000	168.000	115.00	0.000
35	9:54:59	2.083	168.000	115.00	0.000
36	10:0:0	2.167	168.000	115.00	0.000
37	10:5:0	2.250	168.000	115.00	0.000
38	10:9:59	2.333	168.000	115.00	0.000
39	10:15:0	2.417	168.000	115.00	0.000
40	10:20:0	2.500	168.000	115.00	0.000
41	10:24:59	2.583	168.000	115.00	0.000
42	10:30:0	2.667	168.000	115.00	0.000
43	10:33:0	2.717	253.000	115.00	85.000
44	10:36:0	2.767	338.000	115.00,	85.000
45	10:39:0	2.817	400.000	115.00	62.000
46	10:42:0	2.867	455.000	115.00	55.000
47	10:45:0	2.917	496.000	115.00	41.000
48	10:48:0	2.967	536.000	115.00	40.000
49	10:51:0	3.017	567.000	115.00	31.000
50	10:54:0	3.067	592.000	115.00	25.000
51	10:57:0	3.117	618.000	115.00	26.000
52	11:0:0	3.167	636.000	115.00	18.000

COMPANY : MURFIN DRILLING COMPANY
WELL : #1-10
GAUGE # : 13551
DATE : 2/ 7/87

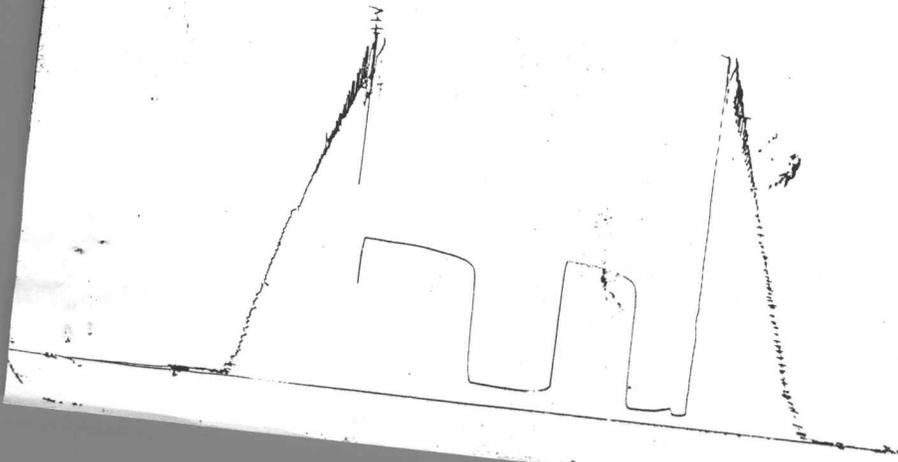
FIELD : DIAMOND BAR
JOB # : 13341
DEPTH : 3654
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
53	11: 3: 0	3.217	655.000	115.00	19.000
54	11: 6: 0	3.267	672.000	115.00	17.000
55	11: 9: 0	3.317	683.000	115.00	11.000
56	11:12: 0	3.367	698.000	115.00	15.000
57	11:15: 0	3.417	707.000	115.00	9.000
58	11:18: 0	3.467	714.000	115.00	7.000
59	11:21: 0	3.517	724.000	115.00	10.000
60	11:24: 0	3.567	731.000	115.00	7.000
61	11:27: 0	3.617	737.000	115.00	6.000
62	11:30: 0	3.667	743.000	115.00	6.000
63	11:33: 0	3.717	749.000	115.00	6.000
64	11:36: 0	3.767	754.000	115.00	5.000
65	11:39: 0	3.817	758.000	115.00	4.000
66	11:42: 0	3.867	764.000	115.00	6.000
67	11:45: 0	3.917	767.000	115.00	3.000
68	11:48: 0	3.967	773.000	115.00	6.000
69	11:51: 0	4.017	777.000	115.00	4.000
70	11:54: 0	4.067	780.000	115.00	3.000
71	11:57: 0	4.117	784.000	115.00	4.000
72	12: 0: 0	4.167	786.000	115.00	2.000

WESTERN TESTING CO. INC.

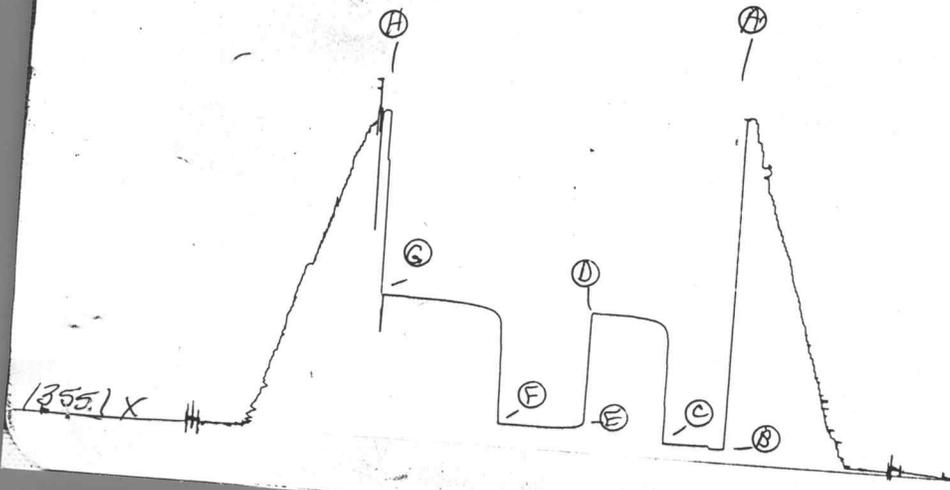
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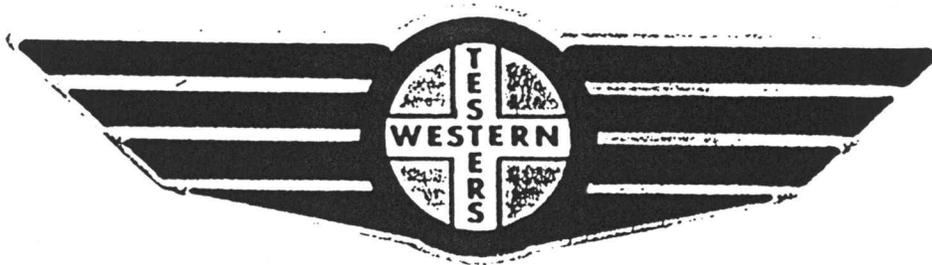


TK4 1334

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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 : 7-3-87 TICKET : 13342
CUSTOMER : MURFIN DRILLING COMPANY LEASE : DIAMOND BAR
WELL : #1-10 TEST: 3 GEOLOGIST : C. SCHMALTZ
ELEVATION : 2677 GS FORMATION : LANSING 'D'
SECTION : 10 TOWNSHIP : 3S
RANGE : 27W COUNTY : DECATUR STATE : KANSAS
GAUGE SN# : 13551 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 3648 TO : 3665 TOTAL DEPTH : 3665
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3643 SIZE : 6.63
PACKER DEPTH : 3648 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : COMPANY TOOLS RIG #2
MUD TYPE : STARCH VISCOSITY : 40
WEIGHT : 9.0 WATER LOSS (CC) : 9.2
CHLORIDES (PPM) : 90000
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 486 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3142 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 17 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-VERY WEAK SLOW BUILDING BLOW-
2" IN BUCKET.
BLOW COMMENT #2 : FINAL FLOW-WEAK VERY SLOW BUILDING BLOW.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 180 FT OF: MUDDY WATER

CHLORIDES: 64000 PPM

Total Barrels Fluid = 0.89
Total Fluid Prod Rate = 12.14 BFPD
Indicated Wtr Rate = 6.07 BWPD

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

SET PACKER(S) : 1:35 PM

TIME STARTED OFF BOTTOM : 5:50 PM

WELL TEMPERATURE : 110

INITIAL HYDROSTATIC PRESSURE

(A) 1871

INITIAL FLOW PERIOD MIN: 45

(B) 54 PSI TO (C) : 65

INITIAL CLOSED IN PERIOD MIN: 60

(D) 757

FINAL FLOW PERIOD MIN: 60

(E) 113 PSI TO (F) : 113

FINAL CLOSED IN PERIOD MIN: 93

(G) 776

FINAL HYDROSTATIC PRESSURE

(H) 1779

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MURFIN DRILLING COMPANY
RIG : DECATUR-KANSAS
FIELD : DIAMOND BAR
WELL : #1-10
DATE : 7-3-87
GAUGE NO : 13551

OPERATIONAL COMMENTS

COMPANY : MURFIN DRILLING COMPANY
 WELL : #1-10
 GAUGE # : 13551
 DATE : 3/ 7/87

FIELD : DIAMOND BAR
 JOB # : 13342
 DEPTH : 3665
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P _i -P _(i-1)
1	1:35:0	0.000	54.000	110.00	0.000
2	1:39:59	0.083	54.000	110.00	0.000
3	1:45:0	0.167	54.000	110.00	0.000
4	1:50:0	0.250	65.000	110.00	11.000
5	1:54:59	0.333	65.000	110.00	0.000
6	2:0:0	0.417	65.000	110.00	0.000
7	2:5:0	0.500	65.000	110.00	0.000
8	2:9:59	0.583	65.000	110.00	0.000
9	2:15:0	0.667	65.000	110.00	0.000
10	2:20:0	0.750	65.000	110.00	0.000
11	2:23:0	0.800	657.000	110.00	592.000
12	2:26:0	0.850	709.000	110.00	52.000
13	2:29:0	0.900	728.000	110.00	19.000
14	2:32:0	0.950	735.000	110.00	7.000
15	2:35:0	1.000	741.000	110.00	6.000
16	2:38:0	1.050	745.000	110.00	4.000
17	2:41:0	1.100	749.000	110.00	4.000
18	2:44:0	1.150	751.000	110.00	2.000
19	2:47:0	1.200	753.000	110.00	2.000
20	2:50:0	1.250	755.000	110.00	2.000
21	2:53:0	1.300	756.000	110.00	1.000
22	2:56:0	1.350	757.000	110.00	1.000
23	2:59:0	1.400	757.000	110.00	0.000
24	3:2:0	1.450	757.000	110.00	0.000
25	3:5:0	1.500	757.000	110.00	0.000
26	3:8:0	1.550	757.000	110.00	0.000
27	3:11:0	1.600	757.000	110.00	0.000
28	3:14:0	1.650	757.000	110.00	0.000
29	3:17:0	1.700	757.000	110.00	0.000
30	3:20:0	1.750	757.000	110.00	0.000
31	3:21:0	1.767	113.000	110.00	0.000
32	3:24:59	1.833	113.000	110.00	-644.000
33	3:30:0	1.917	113.000	110.00	0.000
34	3:35:0	2.000	113.000	110.00	0.000
35	3:39:59	2.083	113.000	110.00	0.000
36	3:45:0	2.167	113.000	110.00	0.000
37	3:50:0	2.250	113.000	110.00	0.000
38	3:54:59	2.333	113.000	110.00	0.000
39	4:0:0	2.417	113.000	110.00	0.000
40	4:5:0	2.500	113.000	110.00	0.000
41	4:9:59	2.583	113.000	110.00	0.000
42	4:15:0	2.667	113.000	110.00	0.000
43	4:20:0	2.750	113.000	110.00	0.000
44	4:23:0	2.800	523.000	110.00	410.000
45	4:26:0	2.850	692.000	110.00	169.000
46	4:29:0	2.900	720.000	110.00	28.000
47	4:32:0	2.950	732.000	110.00	12.000
48	4:35:0	3.000	741.000	110.00	9.000
49	4:38:0	3.050	746.000	110.00	5.000
50	4:41:0	3.100	750.000	110.00	4.000
51	4:44:0	3.150	753.000	110.00	3.000
52	4:47:0	3.200	756.000	110.00	3.000

COMPANY : MURFIN DRILLING COMPANY
WELL : #1-10
GAUGE # : 13551
DATE : 3/ 7/87

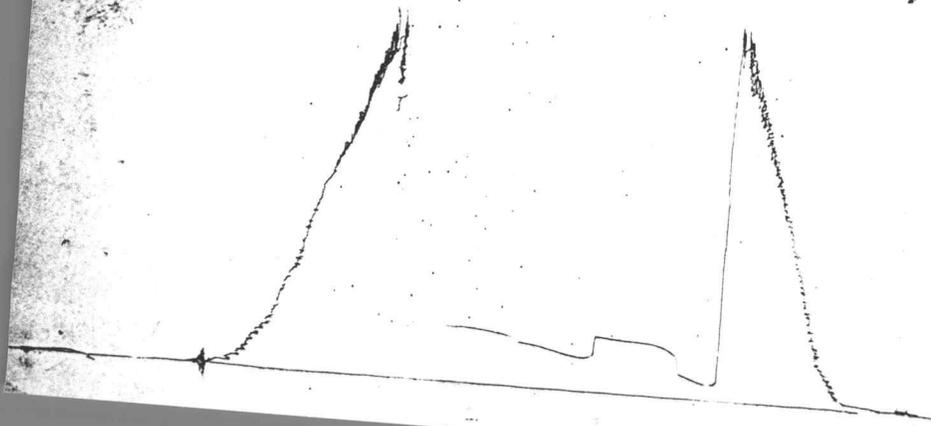
FIELD : DIAMOND BAR
JOB # : 13342
DEPTH : 3665
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P P _i -P _(i-1)
53	4:50: 0	3.250	759.000	110.00	3.000
54	4:53: 0	3.300	762.000	110.00	3.000
55	4:56: 0	3.350	765.000	110.00	3.000
56	4:59: 0	3.400	766.000	110.00	1.000
57	5: 2: 0	3.450	767.000	110.00	1.000
58	5: 5: 0	3.500	768.000	110.00	1.000
59	5: 8: 0	3.550	769.000	110.00	1.000
60	5:11: 0	3.600	770.000	110.00	1.000
61	5:14: 0	3.650	771.000	110.00	1.000
62	5:17: 0	3.700	771.000	110.00	0.000
63	5:20: 0	3.750	771.000	110.00	0.000
64	5:23: 0	3.800	771.000	110.00	0.000
65	5:26: 0	3.850	772.000	110.00	1.000
66	5:29: 0	3.900	773.000	110.00	1.000
67	5:32: 0	3.950	774.000	110.00	1.000
68	5:35: 0	4.000	775.000	110.00	1.000
69	5:38: 0	4.050	776.000	110.00	1.000
70	5:41: 0	4.100	776.000	110.00	0.000
71	5:44: 0	4.150	776.000	110.00	0.000
72	5:47: 0	4.200	776.000	110.00	0.000
73	5:50: 0	4.250	776.000	110.00	0.000
74	5:53: 0	4.300	776.000	110.00	0.000

WESTERN TESTING CO. INC.

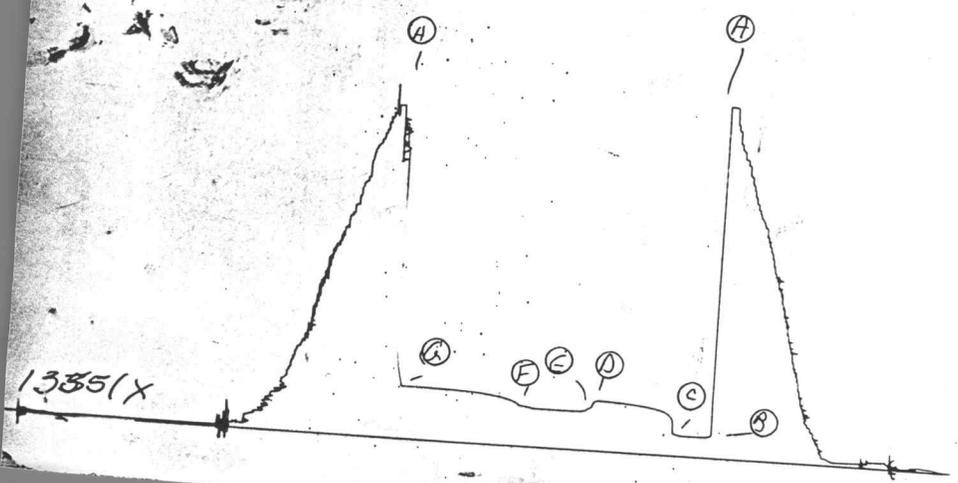
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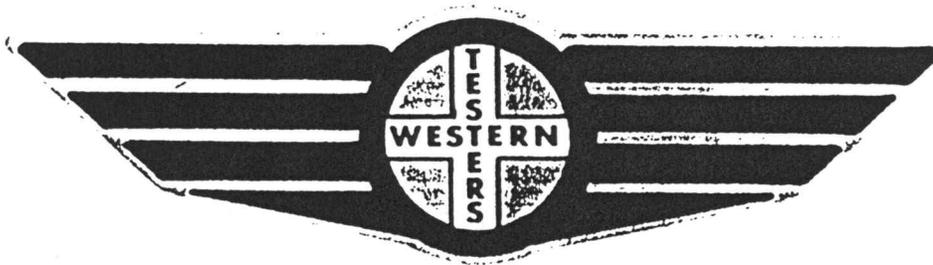


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY MURFIN DRILLING COMPANY LEASE & WELL NO. DIAMOND BAR #1-10 SEC. 10 TWP. 3S RGE. 27W TEST NO. 4 DATE 7/4/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 7-4-87 TICKET : 13343
CUSTOMER : MURFIN DRILLING COMPANY LEASE : DIAMOND BAR
WELL : #1-10 TEST: 4 GEOLOGIST : C. SCHMALTZ
ELEVATION : 2677 GS FORMATION : LANSING 'H'
SECTION : 10 TOWNSHIP : 3S
RANGE : 27W COUNTY : DECATUR STATE : KANSAS
GAUGE SN# : 13551 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 3712 TO : 3740 TOTAL DEPTH : 3740
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 3707 SIZE : 6.63
PACKER DEPTH : 3712 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : COMPANY TOOLS RIG #2
MUD TYPE : STARCH VISCOSITY : 49
WEIGHT : 8.8 WATER LOSS (CC) : 9.2
CHLORIDES (PPM) : 40000
JARS-MAKE : - SERIAL NUMBER : -
DID WELL FLOW ? : - REVERSED OUT ? : -

DRILL COLLAR LENGTH : 486 FT I.D. inch : 2.25
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 3206 FT I.D. inch : 3.80
TEST TOOL LENGTH : 20 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 28 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 BLOW-BUILDING TO 10" IN BUCKET.
BLOW COMMENT #2 : FINAL FLOW-FAIR BLOW-BUILDING TO 6" IN BUCKET.
BLOW COMMENT #3 :
BLOW COMMENT #4 :

RECOVERED : 450 FT OF: WATER-SCUM OF OIL

CHLORIDES: 66000 PPM

Total Barrels Fluid = 2.21
Total Fluid Prod Rate = 35.41 BFPD
Indicated Wtr Rate = 35.41 BWPD

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

SET PACKER(S) : 10:55 AM

TIME STARTED OFF BOTTOM : 2:55 PM

WELL TEMPERATURE : 112

INITIAL HYDROSTATIC PRESSURE

(A) 1895

INITIAL FLOW PERIOD MIN: 30

(B) 86 PSI TO (C) : 92

INITIAL CLOSED IN PERIOD MIN: 60

(D) 247

FINAL FLOW PERIOD MIN: 60

(E) 195 PSI TO (F) : 192

FINAL CLOSED IN PERIOD MIN: 90

(G) 259

FINAL HYDROSTATIC PRESSURE

(H) 1817

WESTERN TESTING CO. INC.
WICHITA - KANSAS

Pressure Transient Report

COMPANY : MURFIN DRILLING COMPANY
RIG : DECATUR-KANSAS
FIELD : DIAMOND BAR
WELL : #1-10
DATE : 7-4-87
GAUGE NO : 13551

OPERATIONAL COMMENTS

COMPANY : MURFIN DRILLING COMPANY
 WELL : #1-10
 GAUGE # : 13551
 DATE : 4/ 7/87

FIELD : DIAMOND BAR
 JOB # : 13343
 DEPTH : 3740
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	10:55: 0	0.000	86.000	112.00	0.000
2	10:59:59	0.083	86.000	112.00	0.000
3	11: 5: 0	0.167	86.000	112.00	0.000
4	11:10: 0	0.250	86.000	112.00	0.000
5	11:14:59	0.333	86.000	112.00	0.000
6	11:20: 0	0.417	87.000	112.00	1.000
7	11:25: 0	0.500	92.000	112.00	5.000
8	11:28: 0	0.550	187.000	112.00	95.000
9	11:31: 0	0.600	204.000	112.00	17.000
10	11:34: 0	0.650	213.000	112.00	9.000
11	11:37: 0	0.700	219.000	112.00	6.000
12	11:40: 0	0.750	224.000	112.00	5.000
13	11:43: 0	0.800	228.000	112.00	4.000
14	11:46: 0	0.850	231.000	112.00	3.000
15	11:49: 0	0.900	233.000	112.00	2.000
16	11:52: 0	0.950	235.000	112.00	2.000
17	11:55: 0	1.000	237.000	112.00	2.000
18	11:58: 0	1.050	239.000	112.00	2.000
19	12: 1: 0	1.100	241.000	112.00	2.000
20	12: 4: 0	1.150	243.000	112.00	2.000
21	12: 7: 0	1.200	244.000	112.00	1.000
22	12:10: 0	1.250	245.000	112.00	1.000
23	12:13: 0	1.300	246.000	112.00	1.000
24	12:16: 0	1.350	247.000	112.00	1.000
25	12:19: 0	1.400	247.000	112.00	0.000
26	12:22: 0	1.450	247.000	112.00	0.000
27	12:25: 0	1.500	247.000	112.00	0.000
28	12:26: 0	1.517	185.000	112.00	-62.000
29	12:29:59	1.583	185.000	112.00	0.000
30	12:35: 0	1.667	185.000	112.00	0.000
31	12:40: 0	1.750	185.000	112.00	0.000
32	12:44:59	1.833	185.000	112.00	0.000
33	12:50: 0	1.917	185.000	112.00	0.000
34	12:55: 0	2.000	185.000	112.00	0.000
35	12:59:59	2.083	185.000	112.00	0.000
36	13: 5: 0	2.167	185.000	112.00	0.000
37	13:10: 0	2.250	186.000	112.00	1.000
38	13:14:59	2.333	188.000	112.00	2.000
39	13:20: 0	2.417	190.000	112.00	2.000
40	13:25: 0	2.500	192.000	112.00	2.000
41	13:28: 0	2.550	209.000	112.00	17.000
42	13:31: 0	2.600	219.000	112.00	10.000
43	13:34: 0	2.650	226.000	112.00	7.000
44	13:37: 0	2.700	229.000	112.00	3.000
45	13:40: 0	2.750	234.000	112.00	5.000
46	13:43: 0	2.800	237.000	112.00	3.000
47	13:46: 0	2.850	241.000	112.00	4.000
48	13:49: 0	2.900	243.000	112.00	2.000
49	13:52: 0	2.950	246.000	112.00	3.000
50	13:55: 0	3.000	248.000	112.00	2.000
51	13:58: 0	3.050	249.000	112.00	1.000
52	14: 1: 0	3.100	250.000	112.00	1.000

COMPANY :- MURFIN DRILLING COMPANY
WELL : #1-10
GAUGE # : 13551
DATE : 4/ 7/87

FIELD : DIAMOND BAR
JOB # : 13343
DEPTH : 3740
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: 4: 0	3.150	251.000	112.00	1.000
54	14: 7: 0	3.200	252.000	112.00	1.000
55	14:10: 0	3.250	253.000	112.00	1.000
56	14:13: 0	3.300	254.000	112.00	1.000
57	14:16: 0	3.350	255.000	112.00	1.000
58	14:19: 0	3.400	256.000	112.00	1.000
59	14:22: 0	3.450	257.000	112.00	1.000
60	14:25: 0	3.500	258.000	112.00	1.000
61	14:28: 0	3.550	259.000	112.00	1.000
62	14:31: 0	3.600	259.000	112.00	0.000
63	14:34: 0	3.650	259.000	112.00	0.000
64	14:37: 0	3.700	259.000	112.00	0.000
65	14:40: 0	3.750	259.000	112.00	0.000
66	14:43: 0	3.800	259.000	112.00	0.000
67	14:46: 0	3.850	259.000	112.00	0.000
68	14:49: 0	3.900	259.000	112.00	0.000
69	14:52: 0	3.950	259.000	112.00	0.000
70	14:55: 0	4.000	259.000	112.00	0.000

WESTERN TESTING CO. INC.