

RELEASED

JAN 29 1999

DST REPORT

FROM CONFIDENTIAL

GENERAL INFORMATION

CONFIDENTIAL

15-109-20663

DATE : 11-26-1997  
 CUSTOMER : MULL DRILLING COMPANY INC  
 WELL : SVGA  
 ELEVATION: 2687 K.B.  
 SECTION : 25  
 RANGE : 33W  
 GAUGE SN#: 13551

TEST 1  
**ORIGINAL**

COUNTY: LOGAN  
 RANGE : 4150

TICKET : 22663  
 LEASE : McGUIRE  
 GEOLOGIST: RANDY SAY  
 FORMATION:  
 TOWNSHIP : 14  
 STATE : KS  
 CLOCK : 12 HR.

NOV  
 JAN 13  
 CONFIDENTIAL

WELL INFORMATION

PERFORATION INTERVAL FROM: 4465.00 ft TO: 4485.00 ft TVD: 4600.0 ft  
 DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
 DEPTH OF RECORDERS: 4470.0 ft 4473.0 ft  
 TEMPERATURE: 117.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH:	600.0 ft	I.D.:	3.200 in
DRILL PIPE LENGTH :	3959.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	21.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	20.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5 XH
PACKER DEPTH:	4460.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4473.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : ABERCROMBIE RIG #8  
 MUD TYPE : CHEMICAL  
 WEIGHT : 9.100 ppg  
 CHLORIDES : 3400 ppm  
 JARS-MAKE : NONE  
 DID WELL FLOW?: NO

VISCOSITY : 47.00 cp  
 WATER LOSS: 9.600 cc  
 SERIAL NUMBER:  
 REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK TO STRONG BLOW OFF BOTTOM  
 OF BUCKET IN 12 MINS.  
 FINAL FLOW PERIOD WEAK TO STRONG BLOW OFF BOTTOM

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

IN 12 MINS.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
1252.0	0.0	0.0	95.0	5.0	MUDDY WATER

RATE INFORMATION

OIL VOLUME: 0.0000 STB  
 GAS VOLUME: 0.0000 SCF  
 MUD VOLUME: 0.7557 STB  
 WATER VOLUME: 14.3575 STB  
 TOTAL FLUID : 15.1132 STB

TOTAL FLOW TIME: 60.0000 min.  
 AVERAGE OIL RATE: 0.0000 STB/D  
 AVERAGE WATER RATE: 362.7164 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2299.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	62.00	115.00
INITIAL SHUT-IN	30.00		1191.00
FINAL FLOW	45.00	209.00	366.00
FINAL SHUT-IN	90.00		1233.00

FINAL HYDROSTATIC PRESSURE: 2227.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2305.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	15.00	110.56	143.03
INITIAL SHUT-IN	30.00		1224.31
FINAL FLOW	45.00	237.55	386.38
FINAL SHUT-IN	90.00		1242.03

FINAL HYDROSTATIC PRESSURE: 2231.00

Company: MULL DRILLING COMPANY INC.  
Well: McGUIRE SVGA DST #1  
Field: TKT #22663

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
-----				
START FLOW 1				
1	0	0: 0:41	0.0000	110.56
6	0	0: 1:17	0.0099	100.96
11	0	0: 1:52	0.0198	95.70
16	0	0: 2:28	0.0297	93.94
21	0	0: 3: 4	0.0397	91.30
26	0	0: 3:40	0.0497	90.40
31	0	0: 4:16	0.0597	89.51
36	0	0: 4:52	0.0697	88.61
41	0	0: 5:28	0.0796	89.46
46	0	0: 6: 4	0.0897	90.30
51	0	0: 6:40	0.0997	92.02
56	0	0: 7:16	0.1097	93.74
61	0	0: 7:52	0.1197	96.32
66	0	0: 8:28	0.1297	98.91
71	0	0: 9: 4	0.1398	101.50
76	0	0: 9:40	0.1498	104.96
81	0	0:10:17	0.1598	108.42
86	0	0:10:53	0.1699	111.88
91	0	0:11:29	0.1799	115.33
96	0	0:12: 5	0.1900	118.79
101	0	0:12:41	0.2000	123.12
106	0	0:13:17	0.2100	125.71
111	0	0:13:53	0.2201	130.04
116	0	0:14:29	0.2301	133.50
121	0	0:15: 6	0.2402	138.70
126	0	0:15:42	0.2502	143.03
END FLOW 1				
START SHUTIN 1				
130	0	0:16:12	0.2586	170.01
131	0	0:16:51	0.2694	839.76
135	0	0:17:23	0.2783	902.45
139	0	0:17:53	0.2867	933.78
143	0	0:18:23	0.2951	965.12
147	0	0:18:53	0.3034	993.84
152	0	0:19:30	0.3137	1012.92
157	0	0:20: 7	0.3239	1031.98
162	0	0:20:44	0.3341	1045.83
167	0	0:21:21	0.3443	1059.68
172	0	0:21:57	0.3544	1071.80
177	0	0:22:34	0.3646	1083.05
182	0	0:23:10	0.3747	1092.56
187	0	0:23:46	0.3848	1102.08
192	0	0:24:23	0.3949	1110.73
197	0	0:24:59	0.4050	1120.24
202	0	0:25:36	0.4151	1127.16
207	0	0:26:12	0.4252	1133.20
212	0	0:26:48	0.4353	1139.25
217	0	0:27:24	0.4453	1144.43
222	0	0:28: 0	0.4554	1147.87
227	0	0:28:37	0.4654	1153.05
232	0	0:29:13	0.4755	1158.23
237	0	0:29:49	0.4855	1161.67
242	0	0:30:25	0.4956	1165.99
247	0	0:31: 1	0.5056	1169.43

WESTERN TESTING CO., INC.

Company: MULL DRILLING COMPANY INC.  
Well: McGUIRE SVGA DST #1  
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
252	0	0:31:37	0.5156	1172.01
257	0	0:32:14	0.5257	1175.45
262	0	0:32:50	0.5357	1178.03
267	0	0:33:26	0.5458	1182.34
272	0	0:34: 2	0.5558	1184.05
277	0	0:34:38	0.5658	1187.49
282	0	0:35:14	0.5758	1190.07
287	0	0:35:50	0.5859	1192.65
292	0	0:36:26	0.5959	1195.22
297	0	0:37: 2	0.6059	1197.80
302	0	0:37:38	0.6159	1200.38
307	0	0:38:14	0.6259	1202.09
312	0	0:38:51	0.6360	1203.80
317	0	0:39:27	0.6460	1206.37
322	0	0:40: 3	0.6560	1208.08
327	0	0:40:39	0.6660	1210.66
332	0	0:41:15	0.6761	1212.37
337	0	0:41:51	0.6861	1214.08
342	0	0:42:27	0.6961	1215.79
347	0	0:43: 3	0.7061	1217.50
352	0	0:43:39	0.7161	1218.34
357	0	0:44:15	0.7261	1220.05
362	0	0:44:51	0.7361	1221.76
367	0	0:45:27	0.7461	1223.47
372	0	0:46: 3	0.7561	1224.31
		END SHUTIN 1		
		START FLOW 2		
376	0	0:46:21	0.7611	237.55
378	0	0:46:35	0.7650	235.80
383	0	0:47:11	0.7750	234.03
388	0	0:47:47	0.7850	232.27
393	0	0:48:23	0.7950	232.24
398	0	0:48:59	0.8049	231.35
403	0	0:49:35	0.8149	231.32
408	0	0:50:11	0.8249	232.17
413	0	0:50:47	0.8349	232.14
418	0	0:51:23	0.8449	232.99
423	0	0:51:59	0.8549	233.83
428	0	0:52:35	0.8650	236.42
433	0	0:53:11	0.8750	239.01
438	0	0:53:47	0.8850	240.72
443	0	0:54:23	0.8950	243.31
448	0	0:54:59	0.9050	245.90
453	0	0:55:35	0.9151	249.36
458	0	0:56:12	0.9251	251.95
463	0	0:56:48	0.9352	255.41
468	0	0:57:24	0.9452	257.12
473	0	0:58: 0	0.9552	260.58
478	0	0:58:36	0.9652	264.04
483	0	0:59:12	0.9753	266.63
488	0	0:59:48	0.9853	269.21
493	0	1: 0:24	0.9953	272.67
498	0	1: 1: 0	1.0054	275.26
503	0	1: 1:36	1.0154	277.85
508	0	1: 2:13	1.0254	280.44

Company: MULL DRILLING COMPANY INC.  
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
513	0	1: 2:49	1.0354	282.15
518	0	1: 3:25	1.0454	284.74
523	0	1: 4: 1	1.0555	287.33
528	0	1: 4:37	1.0655	289.92
533	0	1: 5:13	1.0755	292.50
538	0	1: 5:49	1.0855	294.22
543	0	1: 6:25	1.0956	295.94
548	0	1: 7: 1	1.1056	298.53
553	0	1: 7:37	1.1156	300.24
558	0	1: 8:13	1.1256	302.83
563	0	1: 8:49	1.1357	305.42
568	0	1: 9:26	1.1457	308.01
573	0	1:10: 2	1.1557	310.59
578	0	1:10:38	1.1657	313.18
583	0	1:11:14	1.1757	314.90
588	0	1:11:50	1.1858	317.49
593	0	1:12:26	1.1958	320.07
598	0	1:13: 2	1.2058	322.66
603	0	1:13:38	1.2158	324.38
608	0	1:14:14	1.2259	326.97
613	0	1:14:50	1.2359	328.68
618	0	1:15:26	1.2459	330.40
623	0	1:16: 2	1.2559	333.86
628	0	1:16:38	1.2659	335.57
633	0	1:17:15	1.2760	338.16
638	0	1:17:51	1.2860	340.75
643	0	1:18:27	1.2960	343.34
648	0	1:19: 3	1.3060	345.05
653	0	1:19:39	1.3161	347.64
658	0	1:20:15	1.3261	349.36
663	0	1:20:51	1.3361	351.95
668	0	1:21:27	1.3461	353.66
673	0	1:22: 3	1.3561	355.38
678	0	1:22:39	1.3662	357.97
683	0	1:23:15	1.3762	359.69
688	0	1:23:51	1.3862	362.27
693	0	1:24:27	1.3962	363.99
698	0	1:25: 4	1.4062	365.71
703	0	1:25:40	1.4162	368.29
708	0	1:26:16	1.4263	370.88
713	0	1:26:52	1.4363	372.60
718	0	1:27:28	1.4463	375.19
723	0	1:28: 4	1.4563	376.90
728	0	1:28:40	1.4664	379.49
733	0	1:29:16	1.4764	381.21
738	0	1:29:52	1.4864	382.92
743	0	1:30:28	1.4964	386.38
		END FLOW 2		
		START SHUTIN 2		
748	0	1:31:26	1.5124	840.12
752	0	1:31:57	1.5211	893.23
756	0	1:32:27	1.5295	920.21
761	0	1:33: 5	1.5399	951.54
766	0	1:33:42	1.5502	976.77
771	0	1:34:19	1.5604	994.16

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
776	0	1:34:55	1.5706	1005.44
781	0	1:35:32	1.5807	1015.82
786	0	1:36: 8	1.5908	1027.07
791	0	1:36:45	1.6010	1037.45
796	0	1:37:21	1.6111	1046.10
801	0	1:37:57	1.6212	1053.88
806	0	1:38:34	1.6313	1062.53
811	0	1:39:10	1.6414	1070.31
816	0	1:39:46	1.6515	1078.09
821	0	1:40:23	1.6616	1085.87
826	0	1:40:59	1.6716	1091.92
831	0	1:41:35	1.6817	1097.97
836	0	1:42:11	1.6918	1103.15
841	0	1:42:48	1.7018	1109.19
846	0	1:43:24	1.7119	1114.37
851	0	1:44: 0	1.7220	1118.68
856	0	1:44:36	1.7320	1122.99
861	0	1:45:12	1.7421	1128.17
866	0	1:45:49	1.7521	1131.62
871	0	1:46:25	1.7621	1135.93
876	0	1:47: 1	1.7722	1138.51
881	0	1:47:37	1.7822	1141.95
886	0	1:48:13	1.7923	1145.39
891	0	1:48:49	1.8023	1147.97
896	0	1:49:25	1.8123	1150.55
901	0	1:50: 1	1.8223	1153.12
906	0	1:50:38	1.8324	1156.57
911	0	1:51:14	1.8424	1159.15
916	0	1:51:50	1.8524	1160.86
921	0	1:52:26	1.8624	1164.30
926	0	1:53: 2	1.8724	1166.01
931	0	1:53:38	1.8825	1168.59
936	0	1:54:14	1.8925	1170.30
941	0	1:54:50	1.9025	1172.87
946	0	1:55:26	1.9125	1173.72
951	0	1:56: 2	1.9225	1175.42
956	0	1:56:38	1.9326	1178.00
961	0	1:57:14	1.9426	1179.71
966	0	1:57:50	1.9526	1181.42
971	0	1:58:26	1.9626	1183.13
976	0	1:59: 3	1.9726	1184.84
981	0	1:59:38	1.9826	1184.82
986	0	2: 0:15	1.9926	1186.52
991	0	2: 0:51	2.0026	1188.23
996	0	2: 1:27	2.0127	1189.94
1001	0	2: 2: 3	2.0227	1191.65
1006	0	2: 2:39	2.0327	1192.50
1011	0	2: 3:15	2.0427	1193.34
1016	0	2: 3:51	2.0527	1195.05
1021	0	2: 4:27	2.0627	1196.76
1026	0	2: 5: 3	2.0727	1197.60
1031	0	2: 5:39	2.0827	1198.44
1036	0	2: 6:15	2.0927	1199.28
1041	0	2: 6:51	2.1027	1200.99
1046	0	2: 7:27	2.1127	1201.84

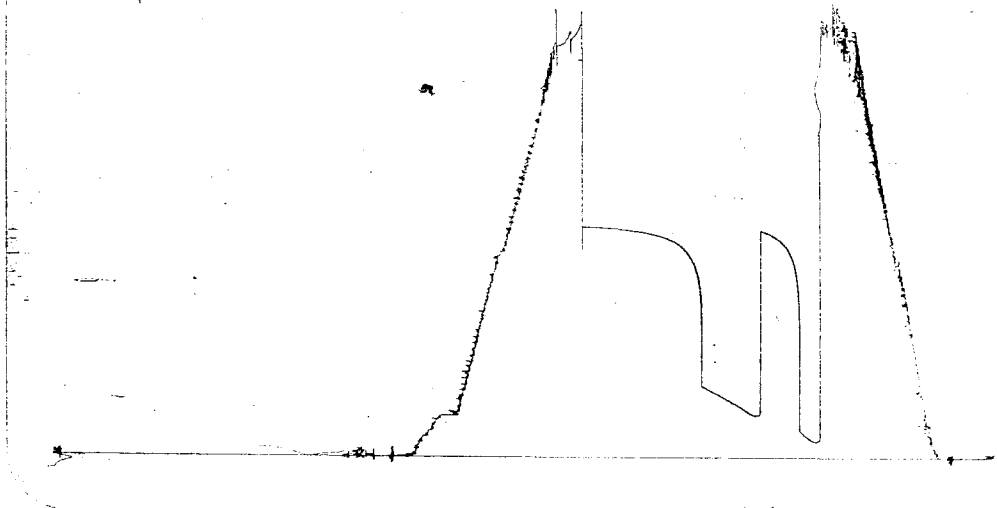
Company: MULL DRILLING COMPANY INC.  
Well: McGUIRE SVGA DST #1  
Field: TKT #22663

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1051	0	2: 8: 3	2.1227	1201.81
1056	0	2: 8:39	2.1327	1203.52
1061	0	2: 9:15	2.1427	1204.36
1066	0	2: 9:51	2.1528	1205.21
1071	0	2:10:27	2.1628	1206.05
1076	0	2:11: 3	2.1727	1206.89
1081	0	2:11:39	2.1828	1207.73
1086	0	2:12:15	2.1928	1208.57
1091	0	2:12:51	2.2028	1209.42
1096	0	2:13:27	2.2128	1210.26
1101	0	2:14: 3	2.2228	1211.10
1106	0	2:14:39	2.2328	1211.94
1111	0	2:15:15	2.2428	1212.79
1116	0	2:15:51	2.2528	1212.76
1121	0	2:16:27	2.2628	1213.60
1126	0	2:17: 3	2.2728	1214.45
1131	0	2:17:39	2.2828	1215.29
1136	0	2:18:15	2.2928	1215.26
1141	0	2:18:51	2.3028	1216.97
1146	0	2:19:27	2.3128	1216.95
1151	0	2:20: 3	2.3228	1217.79
1156	0	2:20:39	2.3328	1217.77
1161	0	2:21:15	2.3428	1218.61
1166	0	2:21:51	2.3528	1218.58
1171	0	2:22:27	2.3628	1219.42
1176	0	2:23: 3	2.3728	1219.40
1181	0	2:23:39	2.3828	1220.24
1186	0	2:24:15	2.3928	1221.08
1191	0	2:24:51	2.4028	1221.93
1196	0	2:25:27	2.4128	1221.90
1201	0	2:26: 3	2.4228	1223.61
1206	0	2:26:39	2.4328	1223.59
1211	0	2:27:15	2.4428	1224.43
1216	0	2:27:51	2.4528	1225.27
1221	0	2:28:27	2.4628	1225.25
1226	0	2:29: 3	2.4728	1226.09
1231	0	2:29:39	2.4828	1226.93
1236	0	2:30:15	2.4928	1226.91
1241	0	2:30:51	2.5028	1227.75
1246	0	2:31:27	2.5128	1228.59
1251	0	2:32: 3	2.5227	1228.57
1256	0	2:32:39	2.5328	1229.41
1261	0	2:33:15	2.5428	1229.38
1266	0	2:33:51	2.5527	1229.36
1271	0	2:34:27	2.5628	1231.07
1276	0	2:35: 3	2.5728	1231.91
1281	0	2:35:39	2.5828	1232.75
1286	0	2:36:15	2.5928	1232.73
1291	0	2:36:51	2.6027	1232.70
1296	0	2:37:27	2.6128	1233.54
1301	0	2:38: 3	2.6227	1233.52
1306	0	2:38:39	2.6327	1233.49
1311	0	2:39:15	2.6427	1234.34
1316	0	2:39:51	2.6527	1235.18
1321	0	2:40:27	2.6627	1235.15

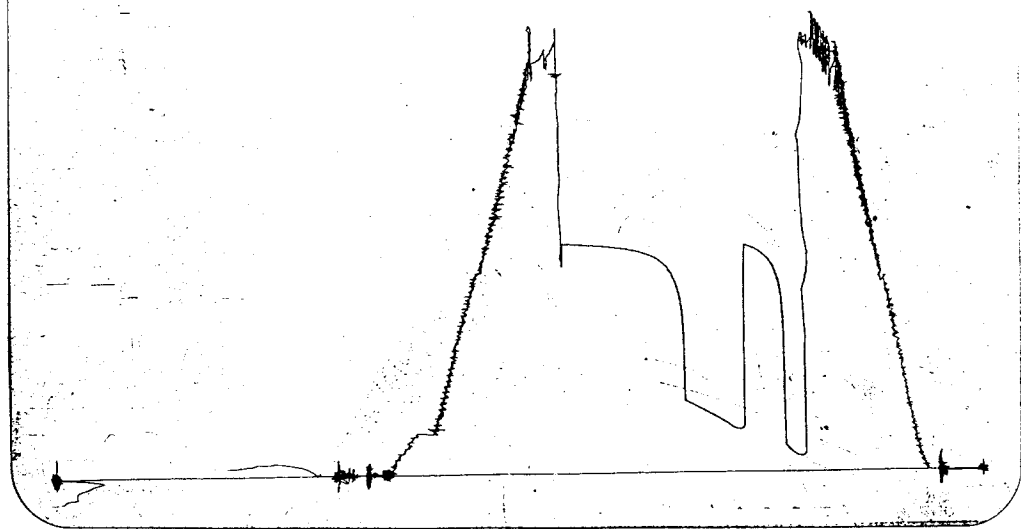
WESTERN TESTING CO., INC.

13551  
DST 1



Inside Recorder

13266  
DST 1



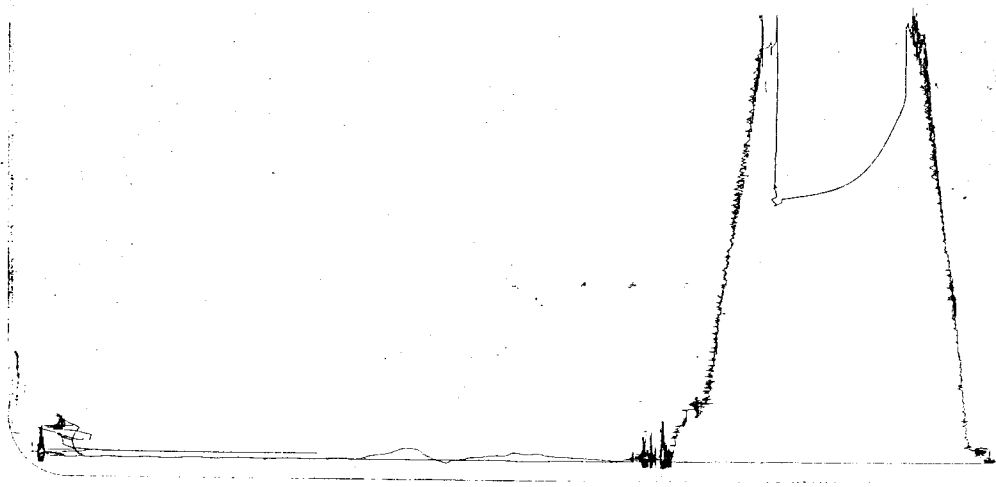
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Well: McGUIRE SVGA DST #1  
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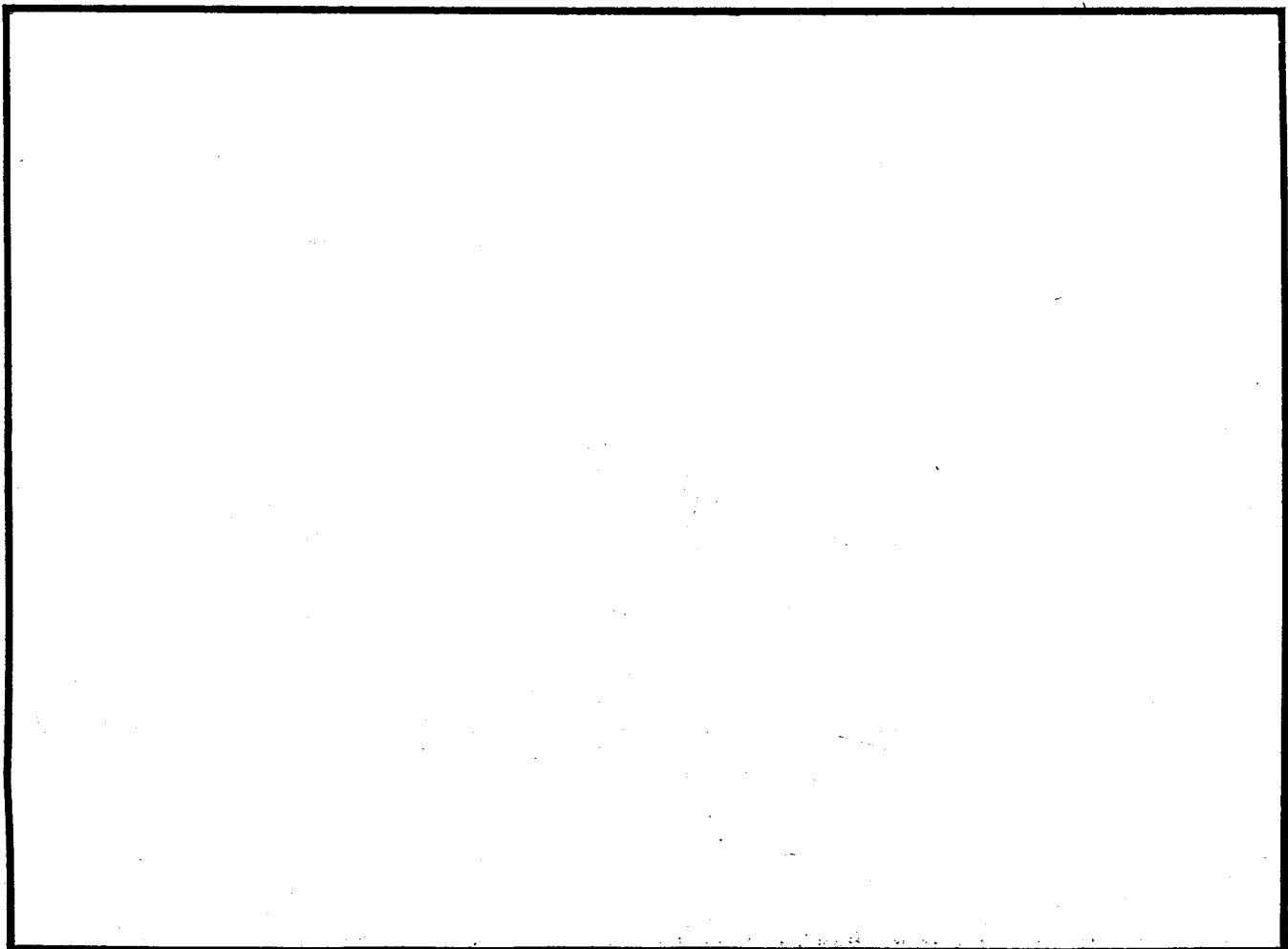
REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1326	0	2:41:3	2.6727	1235.13
1331	0	2:41:39	2.6827	1235.97
1336	0	2:42:15	2.6927	1235.95
1341	0	2:42:51	2.7027	1236.79
1346	0	2:43:27	2.7127	1236.76
1351	0	2:44:3	2.7227	1236.74
1356	0	2:44:39	2.7327	1236.71
1361	0	2:45:15	2.7427	1237.56
1366	0	2:45:51	2.7527	1237.53
1371	0	2:46:27	2.7627	1237.51
1376	0	2:47:3	2.7727	1237.48
1381	0	2:47:39	2.7827	1237.46
1386	0	2:48:15	2.7926	1237.43
1391	0	2:48:51	2.8027	1238.27
1396	0	2:49:27	2.8126	1238.25
1401	0	2:50:3	2.8226	1239.09
1406	0	2:50:39	2.8326	1239.07
1411	0	2:51:15	2.8426	1239.04
1416	0	2:51:51	2.8526	1239.02
1421	0	2:52:27	2.8626	1238.99
1426	0	2:53:2	2.8726	1238.97
1431	0	2:53:38	2.8826	1238.94
1436	0	2:54:14	2.8926	1239.78
1441	0	2:54:50	2.9026	1240.62
1446	0	2:55:26	2.9126	1240.60
1451	0	2:56:2	2.9226	1240.57
1456	0	2:56:38	2.9326	1241.42
1461	0	2:57:14	2.9426	1241.39
1466	0	2:57:50	2.9526	1241.37
1471	0	2:58:26	2.9626	1241.34
1476	0	2:59:2	2.9726	1241.32
1481	0	2:59:38	2.9825	1241.29
1486	0	3:0:14	2.9925	1241.27
1491	0	3:0:50	3.0025	1241.24
1496	0	3:1:26	3.0125	1241.22
1501	0	3:2:2	3.0225	1242.06
1506	0	3:2:38	3.0325	1242.03

WESTERN TESTING CO., INC.

13268  
DST



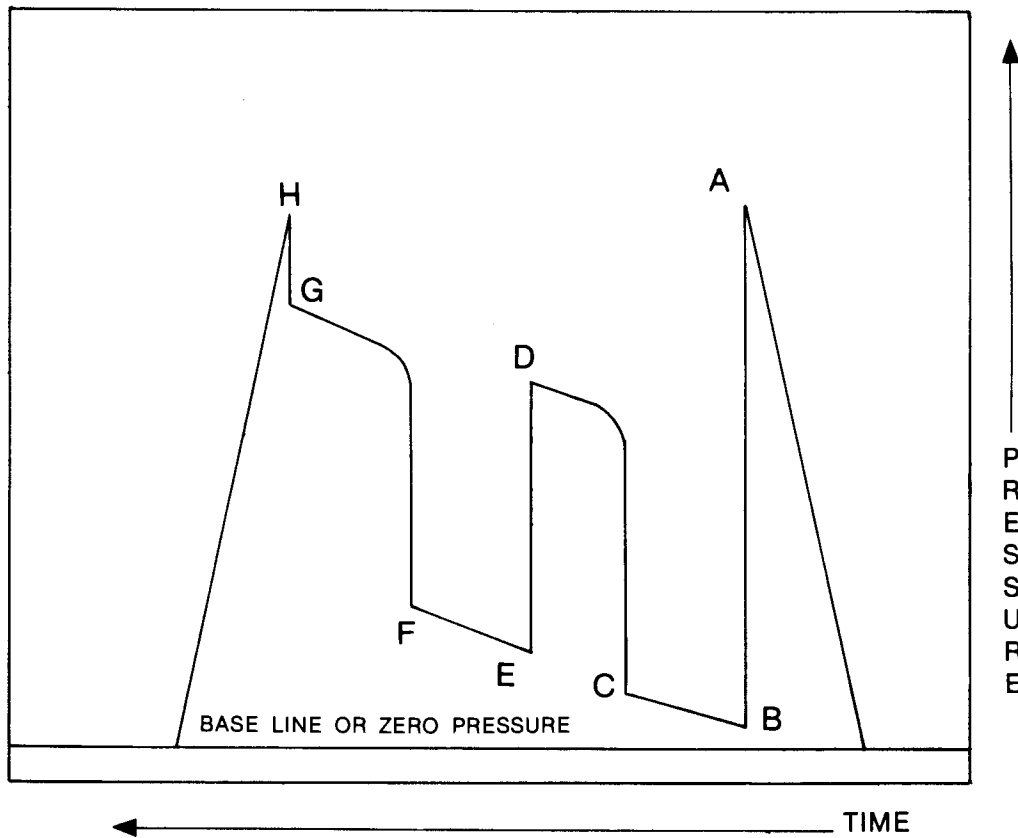
Inside Recorder



### COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

### AK-1 Recorders



- |                         |                         |
|-------------------------|-------------------------|
| A - Initial Hydrostatic | E - Second Initial Flow |
| B - First Initial Flow  | F - Second Final Flow   |
| C - First Final Flow    | G - Final Shut-In       |
| D - Initial Shut-In     | H - Final Hydrostatic   |