

DST REPORT

GENERAL INFORMATION

ORIGINAL

15-187-20821

DATE	: 4/19/96	TICKET	: 21575
CUSTOMER	: HARRIS OIL & GAS COMPANY	LEASE	: NORDLING
WELL	: #1-30	TEST:	1
ELEVATION:	3222 KB	GEOLOGIST:	FRANKLIN
SECTION	: 30	FORMATION:	ST LOUIS
RANGE	: 39W	COUNTY:	STANTON
GAUGE SN#:	10242	RANGE	: 4100
		STATE	: KS
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5595.00 ft TO: 5660.00 ft TVD: 5750.0 ft
 DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
 DEPTH OF RECORDERS: 5612.0 ft 5615.0 ft
 TEMPERATURE: 131.0

DRILL COLLAR LENGTH:	538.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	5029.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	28.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	65.0 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 :	4.5XH
PACKER DEPTH:	5590.0 ft	SIZE:	6.630 in
PACKER DEPTH:	5595.0 ft	SIZE:	6.630 in
PACKER DEPTH:	5660.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. :	DUKE RIG 6	VISCOSITY :	52.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	5.600 cc
WEIGHT :	9.100 ppg	SERIAL NUMBER:	406
CHLORIDES :	3200 ppm	REVERSED OUT?:	NO
JARS-MAKE :	WTC		
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK 1/4 INCH BLOW -
 DIED IN 27 MINUTES. FINAL FLOW PERIOD NO BLOW.
 TAILPIPE 58 FT OF 6"; 32 FT OF 5.5" TOTAL 90 FT

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.0738 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0738 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2663.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	49.00	49.00
INITIAL SHUT-IN	60.00		147.00
FINAL FLOW	60.00	51.00	51.00
FINAL SHUT-IN	120.00		109.00

FINAL HYDROSTATIC PRESSURE: 2559.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2711.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	75.73	57.61
INITIAL SHUT-IN	60.00		143.04
FINAL FLOW	60.00	69.64	59.48
FINAL SHUT-IN	120.00		111.52

FINAL HYDROSTATIC PRESSURE: 2549.00

Company: HARRIS OIL & GAS COMPANY
Well: #1-30 NORDLING DST 1
Field: TKT 21575

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)

START FLOW 1				
1	0	5:21:19	0.0000	75.73
10	0	5:22:23	0.0180	74.78
19	0	5:23:28	0.0360	68.99
28	0	5:24:33	0.0540	66.10
37	0	5:25:38	0.0720	63.21
46	0	5:26:42	0.0900	61.29
55	0	5:27:47	0.1079	61.29
64	0	5:28:52	0.1259	60.34
73	0	5:29:57	0.1439	60.35
82	0	5:31: 1	0.1619	59.39
91	0	5:32: 6	0.1799	59.40
100	0	5:33:11	0.1979	58.44
109	0	5:34:16	0.2158	58.45
118	0	5:35:20	0.2338	58.45
127	0	5:36:25	0.2518	57.50
136	0	5:37:30	0.2698	57.51
145	0	5:38:35	0.2878	57.51
154	0	5:39:39	0.3058	57.52
163	0	5:40:44	0.3238	57.53
172	0	5:41:49	0.3417	57.54
181	0	5:42:54	0.3597	57.55
190	0	5:43:58	0.3777	57.56
199	0	5:45: 3	0.3957	57.56
208	0	5:46: 8	0.4137	57.57
217	0	5:47:13	0.4317	57.58
226	0	5:48:17	0.4497	57.59
235	0	5:49:22	0.4676	57.60
244	0	5:50:27	0.4856	57.60
253	0	5:51:32	0.5036	57.61
END FLOW 1				
START SHUTIN 1				
257	0	5:52: 0	0.5116	57.62
262	0	5:52:36	0.5216	57.62
271	0	5:53:41	0.5396	57.63
280	0	5:54:46	0.5576	57.64
289	0	5:55:51	0.5755	58.61
298	0	5:56:55	0.5935	58.62
307	0	5:58: 0	0.6115	59.59
316	0	5:59: 5	0.6295	60.57
325	0	6: 0:10	0.6475	60.58
334	0	6: 1:14	0.6655	61.55
343	0	6: 2:19	0.6835	62.53
352	0	6: 3:24	0.7014	63.50
361	0	6: 4:29	0.7194	64.47
370	0	6: 5:33	0.7374	66.41
379	0	6: 6:38	0.7554	67.39
388	0	6: 7:43	0.7734	68.36
397	0	6: 8:47	0.7914	69.34
406	0	6: 9:52	0.8093	70.31
415	0	6:10:57	0.8273	71.28
424	0	6:12: 2	0.8453	73.22
433	0	6:13: 6	0.8633	74.20
442	0	6:14:11	0.8813	75.17
451	0	6:15:16	0.8992	77.11

Company: HARRIS OIL & GAS COMPANY
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
460	0	6:16:21	0.9172	78.09
469	0	6:17:25	0.9352	80.03
478	0	6:18:30	0.9532	81.00
487	0	6:19:35	0.9712	82.94
496	0	6:20:40	0.9892	84.88
505	0	6:21:44	1.0071	86.82
514	0	6:22:49	1.0251	87.80
523	0	6:23:54	1.0431	90.70
532	0	6:24:58	1.0611	91.68
541	0	6:26: 3	1.0791	93.62
550	0	6:27: 8	1.0971	95.56
559	0	6:28:13	1.1150	98.46
568	0	6:29:17	1.1330	100.40
577	0	6:30:22	1.1510	102.34
586	0	6:31:27	1.1690	105.25
595	0	6:32:32	1.1870	107.19
604	0	6:33:36	1.2049	109.13
613	0	6:34:41	1.2229	112.04
622	0	6:35:46	1.2409	114.94
631	0	6:36:51	1.2589	116.88
640	0	6:37:55	1.2768	119.79
649	0	6:39: 0	1.2948	122.69
658	0	6:40: 5	1.3128	125.60
667	0	6:41: 9	1.3308	128.51
676	0	6:42:14	1.3488	131.41
685	0	6:43:19	1.3668	134.32
694	0	6:44:24	1.3847	138.19
703	0	6:45:28	1.4027	141.10
712	0	6:46:33	1.4207	143.04
		END SHUTIN 1		
		START FLOW 2		
715	0	6:48:14	1.4488	69.64
724	0	6:49:19	1.4668	69.65
733	0	6:50:24	1.4848	67.72
742	0	6:51:29	1.5028	65.80
751	0	6:52:33	1.5208	63.88
760	0	6:53:38	1.5387	62.92
769	0	6:54:43	1.5567	61.96
778	0	6:55:48	1.5747	61.00
787	0	6:56:52	1.5927	61.01
796	0	6:57:57	1.6107	61.02
805	0	6:59: 2	1.6287	60.06
814	0	7: 0: 7	1.6467	60.07
823	0	7: 1:11	1.6646	60.08
832	0	7: 2:16	1.6826	60.09
841	0	7: 3:21	1.7006	60.09
850	0	7: 4:26	1.7186	60.10
859	0	7: 5:30	1.7366	60.11
868	0	7: 6:35	1.7546	60.12
877	0	7: 7:40	1.7726	59.16
886	0	7: 8:45	1.7905	59.17
895	0	7: 9:49	1.8085	59.18
904	0	7:10:54	1.8265	59.19
913	0	7:11:59	1.8445	59.19
922	0	7:13: 4	1.8625	59.20

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
931	0	7:14: 8	1.8805	59.21
940	0	7:15:13	1.8985	59.22
949	0	7:16:18	1.9164	59.23
958	0	7:17:22	1.9344	59.24
967	0	7:18:27	1.9524	59.24
976	0	7:19:32	1.9704	60.22
985	0	7:20:37	1.9884	60.23
994	0	7:21:41	2.0064	60.23
1003	0	7:22:46	2.0243	59.28
1012	0	7:23:51	2.0423	60.25
1021	0	7:24:56	2.0603	60.26
1030	0	7:26: 0	2.0783	60.27
1039	0	7:27: 5	2.0963	60.28
1048	0	7:28:10	2.1143	60.28
1057	0	7:29:15	2.1323	59.33
1066	0	7:30:19	2.1502	59.34
1075	0	7:31:24	2.1682	59.34
1084	0	7:32:29	2.1862	59.35
1093	0	7:33:34	2.2042	59.36
1102	0	7:34:38	2.2222	59.37
1111	0	7:35:43	2.2402	59.38
1120	0	7:36:48	2.2581	59.38
1129	0	7:37:53	2.2761	59.39
1138	0	7:38:57	2.2941	59.40
1147	0	7:40: 2	2.3121	59.41
1156	0	7:41: 7	2.3301	59.42
1165	0	7:42:12	2.3481	59.43
1174	0	7:43:16	2.3661	59.43
1183	0	7:44:21	2.3840	59.44
1192	0	7:45:26	2.4020	59.45
1201	0	7:46:31	2.4200	59.46
1210	0	7:47:35	2.4380	59.47
1219	0	7:48:40	2.4560	59.48
		END FLOW 2		
		START SHUTIN 2		
1222	0	7:49: 2	2.4620	59.48
1228	0	7:49:45	2.4740	59.48
1237	0	7:50:50	2.4920	59.49
1246	0	7:51:54	2.5099	60.47
1255	0	7:52:59	2.5279	60.47
1264	0	7:54: 4	2.5459	60.48
1273	0	7:55: 9	2.5639	60.49
1282	0	7:56:13	2.5819	60.50
1291	0	7:57:18	2.5999	60.51
1300	0	7:58:23	2.6178	60.52
1309	0	7:59:28	2.6358	61.49
1318	0	8: 0:32	2.6538	61.50
1327	0	8: 1:37	2.6718	61.51
1336	0	8: 2:42	2.6898	62.48
1345	0	8: 3:47	2.7078	62.49
1354	0	8: 4:51	2.7258	62.50
1363	0	8: 5:56	2.7437	63.47
1372	0	8: 7: 1	2.7617	63.48
1381	0	8: 8: 6	2.7797	64.45
1390	0	8: 9:10	2.7977	64.46

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1399	0	8:10:15	2.8157	64.47
1408	0	8:11:20	2.8337	65.44
1417	0	8:12:24	2.8516	65.45
1426	0	8:13:29	2.8696	66.43
1435	0	8:14:34	2.8876	66.44
1444	0	8:15:39	2.9056	66.44
1453	0	8:16:43	2.9236	66.45
1462	0	8:17:48	2.9416	67.43
1471	0	8:18:53	2.9595	67.43
1480	0	8:19:58	2.9775	68.41
1489	0	8:21: 2	2.9955	68.42
1498	0	8:22: 7	3.0135	69.39
1507	0	8:23:12	3.0315	69.40
1516	0	8:24:17	3.0495	69.41
1525	0	8:25:21	3.0675	70.38
1534	0	8:26:26	3.0854	70.39
1543	0	8:27:31	3.1034	70.40
1552	0	8:28:36	3.1214	70.41
1561	0	8:29:40	3.1394	71.38
1570	0	8:30:45	3.1574	71.39
1579	0	8:31:50	3.1754	72.36
1588	0	8:32:55	3.1933	72.37
1597	0	8:33:59	3.2113	72.38
1606	0	8:35: 4	3.2293	72.39
1615	0	8:36: 9	3.2473	74.33
1624	0	8:37:14	3.2653	74.34
1633	0	8:38:18	3.2833	74.34
1642	0	8:39:23	3.3012	75.32
1651	0	8:40:28	3.3192	76.29
1660	0	8:41:33	3.3372	76.30
1669	0	8:42:37	3.3552	76.31
1678	0	8:43:42	3.3732	77.28
1687	0	8:44:47	3.3912	78.26
1696	0	8:45:52	3.4092	78.27
1705	0	8:46:56	3.4271	79.24
1714	0	8:48: 1	3.4451	80.21
1723	0	8:49: 6	3.4631	80.22
1732	0	8:50:11	3.4811	80.23
1741	0	8:51:15	3.4991	81.21
1750	0	8:52:20	3.5171	82.18
1759	0	8:53:25	3.5350	82.19
1768	0	8:54:29	3.5530	84.13
1777	0	8:55:34	3.5710	84.14
1786	0	8:56:39	3.5890	84.14
1795	0	8:57:44	3.6070	85.12
1804	0	8:58:48	3.6250	86.09
1813	0	8:59:53	3.6429	86.10
1822	0	9: 0:58	3.6609	86.11
1831	0	9: 2: 3	3.6789	86.12
1840	0	9: 3: 7	3.6969	87.09
1849	0	9: 4:12	3.7149	88.07
1858	0	9: 5:17	3.7329	88.07
1867	0	9: 6:22	3.7508	89.05
1876	0	9: 7:26	3.7688	89.06
1885	0	9: 8:31	3.7868	90.03

Company: HARRIS OIL & GAS COMPANY
Well: #1-30 NORDLING DST 1
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1894	0	9: 9:36	3.8048	90.04
1903	0	9:10:41	3.8228	91.98
1912	0	9:11:45	3.8408	91.99
1921	0	9:12:50	3.8587	92.96
1930	0	9:13:55	3.8767	92.97
1939	0	9:15: 0	3.8947	92.98
1948	0	9:16: 4	3.9127	93.95
1957	0	9:17: 9	3.9307	93.96
1966	0	9:18:14	3.9487	94.93
1975	0	9:19:19	3.9667	95.91
1984	0	9:20:23	3.9846	95.92
1993	0	9:21:28	4.0026	96.89
2002	0	9:22:33	4.0206	97.87
2011	0	9:23:38	4.0386	98.84
2020	0	9:24:42	4.0566	99.81
2029	0	9:25:47	4.0746	99.82
2038	0	9:26:52	4.0925	101.76
2047	0	9:27:56	4.1105	101.77
2056	0	9:29: 1	4.1285	102.74
2065	0	9:30: 6	4.1465	103.72
2074	0	9:31:11	4.1645	104.69
2083	0	9:32:15	4.1825	105.67
2092	0	9:33:20	4.2004	106.64
2101	0	9:34:25	4.2184	106.65
2110	0	9:35:30	4.2364	107.62
2119	0	9:36:34	4.2544	108.60
2128	0	9:37:39	4.2724	109.57
2137	0	9:38:44	4.2904	109.58
2146	0	9:39:49	4.3083	111.52

WESTERN TESTING CO., INC.



WESTERN TESTING CO., INC.
FORMATION TESTING
TICKET

No. 21575

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 3222 Kt Ba Formation St. Louis Eff. Pay Ft.

District Hugoton Date 4-19-96 Customer Order No.

COMPANY NAME Harris Oil & Gas Co.

ADDRESS 1125 17th St Suite 2290 Denver Colo. 80202

LEASE AND WELL NO. Wardling 1-30 COUNTY Stanton STATE KS. Sec. 30 Twp. 29S Rge. 39W

Mail Invoice To Harris Oil & Gas Co. Name No. Copies Requested Reg

Mail Charts To #1-30 Wardling Address No. Copies Requested

Formation Test No. 1 Interval Tested From 5595 ft. to 5660 ft. Total Depth 5750 ft.

Packer Depth 5590 ft. Size 6 5/8 in. Packer Depth 5660 ft. Size 6 5/8 in.

Packer Depth 5595 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 5612 ft. Recorder Number 10242 Cap. 4100

Bottom Recorder Depth (Outside) 5615 ft. Recorder Number 13759 Cap. 3900

Below Straddle Recorder Depth 5684 ft. Recorder Number 13630 Cap. 4625

Drilling Contractor Duke Rig Co. Drill Collar Length 538 I. D. 2 1/4 in.

Mud Type Chem. Viscosity 52 Weight Pipe Length I. D. in.

Weight 9.1 Water Loss 5.6 cc. Drill Pipe Length 5029 I. D. 3.8 in.

Chlorides 3.200 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.

Bars: Make W.T.C. Serial Number 406 Anchor Length (29+36) 65 ft. Size 6" 5 1/2" in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 XH. in.

Blow: Very weak 1/4" dia 27 min. into I.F.P. No Blow F.F.P.

Recovered 15 ft. of Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of Total Fluid Rec. 15'

Chlorides P.P.M. Sample Jars used Remarks Tail Pipe = 58' of 6" 32' of 5 1/2" Total = 90'

Time On Location 1:15 A.M. P.M. Time Pick Up Tool 3:30 A.M. P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 5:20 A.M. P.M. Time Started Off Bottom 9:50 A.M. P.M. Maximum Temperature 131°F

Initial Hydrostatic Pressure (A) 2663 P.S.I. 2711

Initial Flow Period Minutes 30 (B) 49 P.S.I. to (C) 49 P.S.I.

Initial Closed In Period Minutes 60 (D) 147 P.S.I.

Final Flow Period Minutes 60 (E) 51 P.S.I. to (F) 51 P.S.I.

Final Closed In Period Minutes 120 (G) 109 P.S.I.

Final Hydrostatic Pressure (H) 2559 P.S.I. 2549

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.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Harold Frank Signature of Customer or his authorized representative

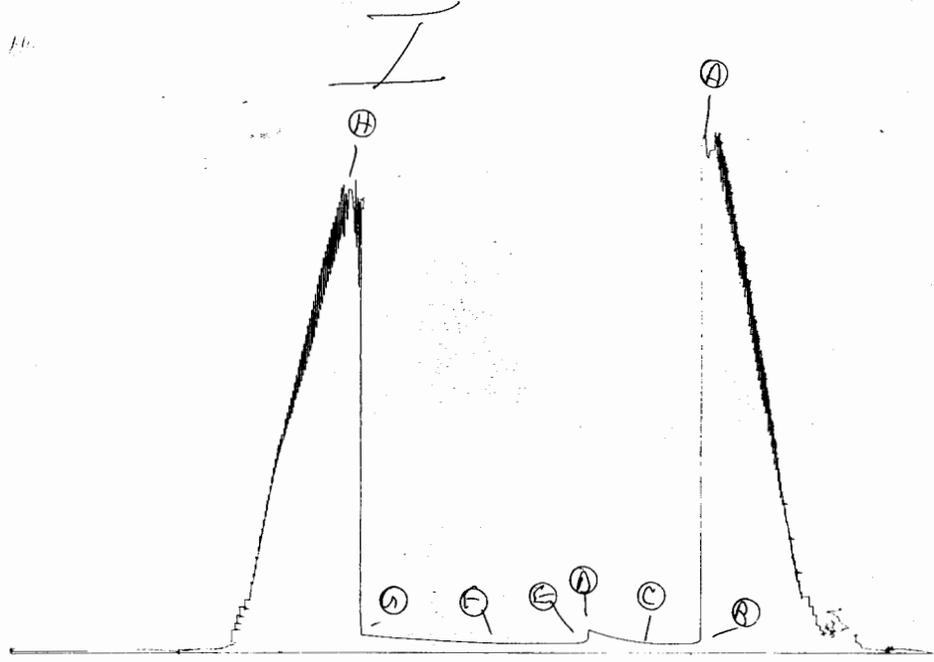
Western Representative Jimmy J. Sabga

FIELD INVOICE

- Open Hole Test \$
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$

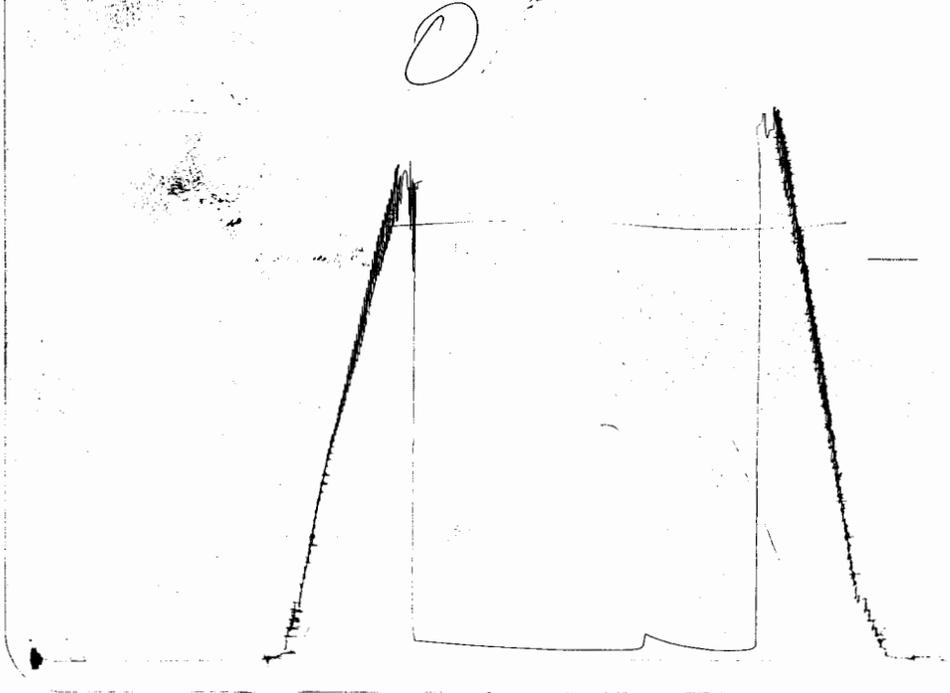
7 35

KT 21575 #10242 DST1



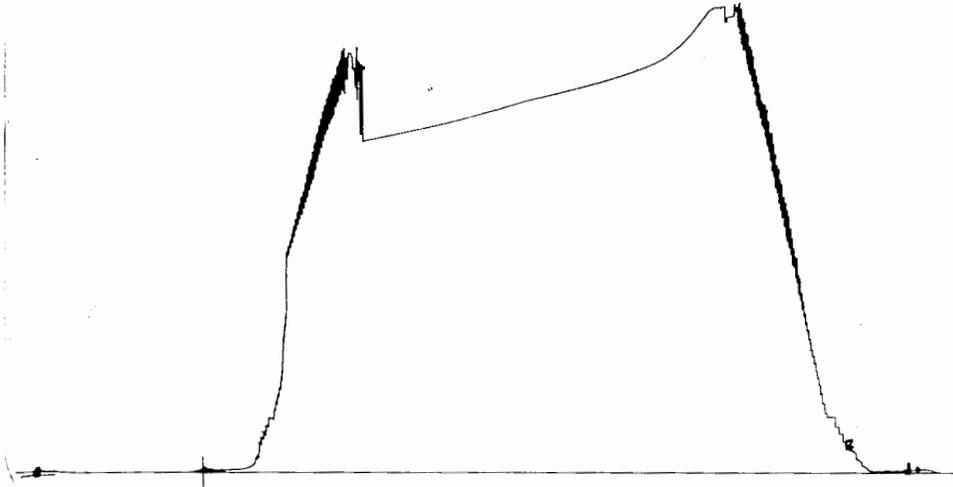
Inside Recorder

KT 21575 13759 DST1



Outside Recorder

KT 21575 13630 DST1
Below Straddle



Inside Recorder

Outside Recorder