

DST REPORT

GENERAL INFORMATION

DATE	: 10/6/97	TICKET	: 22627
CUSTOMER	: DEUTSCH OIL COMPANY	LEASE	: HAYS
WELL	: #1-22	TEST: 1	GEOLOGIST: DEUTSCH
ELEVATION	: 2054 KB	FORMATION	: CHASE GROUP
SECTION	: 22	TOWNSHIP	: 23S
RANGE	: 16W	COUNTY: PAWNEE	STATE : KS
GAUGE SN#	: 10330	RANGE : 4000	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2014.00 ft TO: 2162.00 ft TVD: 2162.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 2017.0 ft 2159.0 ft
TEMPERATURE: 98.0

DRILL COLLAR LENGTH:	180.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	1812.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	22.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	148.0 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:	2009.0 ft	SIZE:	6.630 in
PACKER DEPTH:	2014.0 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. :	MALLARD RIG 2	VISCOSITY :	38.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	26.000 cc
WEIGHT :	8.900 ppg	SERIAL NUMBER:	
CHLORIDES :	0 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 10 MINUTES. FINAL FLOW PERIOD STRONG BLOW -
BOTTOM OF BUCKET IN 18 MINUTES.

JAN 1980

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
210.0	0.0	0.1	0.0	99.9	GAS CUT THIN MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB		
GAS VOLUME:	0.0071 SCF	TOTAL FLOW TIME:	75.0000 min.
MUD VOLUME:	1.2658 STB	AVERAGE OIL RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB	AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	1.2658 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1030.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	40.00	62.00
INITIAL SHUT-IN	45.00		483.00
FINAL FLOW	45.00	78.00	81.00
FINAL SHUT-IN	60.00		396.00

FINAL HYDROSTATIC PRESSURE: 970.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1043.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	61.48	73.75
INITIAL SHUT-IN	45.00		472.26
FINAL FLOW	45.00	111.09	106.76
FINAL SHUT-IN	60.00		414.22

FINAL HYDROSTATIC PRESSURE: 987.00

Company: DEUTSCH OIL COMPANY
Well: #1-22 HAYS
Field: TKT 22627 DST 1

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

START FLOW 1				
1	0	16:46:39	0.0000	61.48
6	0	16:47:15	0.0100	61.49
11	0	16:47:51	0.0200	59.81
16	0	16:48:27	0.0300	58.97
21	0	16:49: 3	0.0400	58.99
26	0	16:49:39	0.0500	57.31
31	0	16:50:15	0.0600	56.47
36	0	16:50:51	0.0700	56.48
41	0	16:51:27	0.0800	55.65
46	0	16:52: 3	0.0900	55.66
51	0	16:52:39	0.0999	55.67
56	0	16:53:15	0.1099	55.68
61	0	16:53:51	0.1199	55.69
66	0	16:54:27	0.1299	55.71
71	0	16:55: 3	0.1399	55.72
76	0	16:55:39	0.1499	55.73
81	0	16:56:15	0.1599	55.74
86	0	16:56:51	0.1699	55.75
91	0	16:57:27	0.1799	56.61
96	0	16:58: 3	0.1899	57.47
101	0	16:58:39	0.1999	57.48
106	0	16:59:15	0.2098	57.49
111	0	16:59:51	0.2198	58.35
116	0	17: 0:27	0.2298	58.36
121	0	17: 1: 3	0.2398	59.22
126	0	17: 1:39	0.2498	59.23
131	0	17: 2:14	0.2598	60.09
136	0	17: 2:50	0.2698	60.10
141	0	17: 3:26	0.2798	60.96
146	0	17: 4: 2	0.2898	60.97
151	0	17: 4:38	0.2998	61.83
156	0	17: 5:14	0.3097	62.68
161	0	17: 5:50	0.3197	62.70
166	0	17: 6:26	0.3297	63.55
171	0	17: 7: 2	0.3397	64.41
176	0	17: 7:38	0.3497	66.12
181	0	17: 8:14	0.3596	69.51
186	0	17: 8:50	0.3696	73.75
END FLOW 1				
START SHUTIN 1				
187	0	17: 8:57	0.3716	76.29
191	0	17: 9:26	0.3795	81.38
196	0	17:10: 1	0.3895	89.85
201	0	17:10:37	0.3994	102.56
206	0	17:11:13	0.4093	116.11
211	0	17:11:48	0.4192	126.27
216	0	17:12:24	0.4291	138.13
221	0	17:13: 0	0.4391	148.30
226	0	17:13:36	0.4490	160.16
231	0	17:14:11	0.4589	171.17
236	0	17:14:47	0.4688	184.72
241	0	17:15:23	0.4787	195.73
246	0	17:15:58	0.4886	206.74
251	0	17:16:34	0.4986	216.91

Company: DEUTSCH OIL COMPANY
Well: #1-22 HAYS
Field: TKT 22627 DST 1

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
256	0	17:17:10	0.5085	227.07
261	0	17:17:46	0.5184	236.39
266	0	17:18:21	0.5284	246.56
271	0	17:18:57	0.5383	255.88
276	0	17:19:33	0.5482	265.20
281	0	17:20: 9	0.5582	273.67
286	0	17:20:44	0.5681	282.14
291	0	17:21:20	0.5780	289.77
296	0	17:21:56	0.5880	297.40
301	0	17:22:32	0.5979	303.33
306	0	17:23: 8	0.6079	310.12
311	0	17:23:43	0.6178	316.90
316	0	17:24:19	0.6278	322.83
321	0	17:24:55	0.6377	329.61
326	0	17:25:31	0.6477	335.55
331	0	17:26: 7	0.6576	340.64
336	0	17:26:43	0.6676	346.57
341	0	17:27:18	0.6776	352.50
346	0	17:27:54	0.6875	357.59
351	0	17:28:30	0.6975	362.68
356	0	17:29: 6	0.7074	365.31
361	0	17:29:42	0.7174	369.94
366	0	17:30:18	0.7274	374.55
371	0	17:30:54	0.7373	379.09
376	0	17:31:29	0.7473	383.50
381	0	17:32: 5	0.7573	387.79
386	0	17:32:41	0.7672	391.95
391	0	17:33:17	0.7772	395.97
396	0	17:33:53	0.7871	399.85
401	0	17:34:29	0.7971	403.58
406	0	17:35: 5	0.8071	407.16
411	0	17:35:41	0.8171	410.61
416	0	17:36:17	0.8270	413.94
421	0	17:36:52	0.8370	417.18
426	0	17:37:28	0.8470	420.33
431	0	17:38: 4	0.8569	423.41
436	0	17:38:40	0.8669	426.42
441	0	17:39:16	0.8769	429.38
446	0	17:39:52	0.8869	432.29
451	0	17:40:28	0.8968	435.16
456	0	17:41: 4	0.9068	437.99
461	0	17:41:40	0.9168	440.79
466	0	17:42:16	0.9268	443.56
471	0	17:42:51	0.9367	446.30
476	0	17:43:27	0.9467	449.03
481	0	17:44: 3	0.9567	451.73
486	0	17:44:39	0.9667	454.41
491	0	17:45:15	0.9766	457.08
496	0	17:45:51	0.9866	459.72
501	0	17:46:27	0.9966	462.35
506	0	17:47: 3	1.0065	464.97
511	0	17:47:39	1.0165	467.59
516	0	17:48:15	1.0265	468.84
521	0	17:48:51	1.0365	470.54
526	0	17:49:27	1.0465	472.24

Company: DEUTSCH OIL COMPANY
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Field: TKT 22627 DST 1

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
531	0	17:50: 3	1.0565	472.26
		END SHUTIN 1		
		START FLOW 2		
533	0	17:57:44	1.1847	111.09
538	0	17:58:20	1.1947	110.25
543	0	17:58:56	1.2047	109.42
548	0	17:59:32	1.2147	107.74
553	0	18: 0: 8	1.2247	106.90
558	0	18: 0:44	1.2347	106.07
563	0	18: 1:20	1.2447	105.23
568	0	18: 1:56	1.2547	104.40
573	0	18: 2:32	1.2647	103.56
578	0	18: 3: 8	1.2747	102.73
583	0	18: 3:44	1.2847	102.74
588	0	18: 4:20	1.2947	101.90
593	0	18: 4:56	1.3047	101.07
598	0	18: 5:32	1.3146	100.24
603	0	18: 6: 8	1.3247	99.40
608	0	18: 6:44	1.3346	99.41
613	0	18: 7:20	1.3446	99.42
618	0	18: 7:56	1.3546	98.59
623	0	18: 8:32	1.3646	97.76
628	0	18: 9: 8	1.3746	96.92
633	0	18: 9:44	1.3846	96.93
638	0	18:10:20	1.3946	96.10
643	0	18:10:56	1.4046	96.11
648	0	18:11:32	1.4146	96.12
653	0	18:12: 8	1.4246	96.13
658	0	18:12:44	1.4346	96.14
663	0	18:13:20	1.4446	96.16
668	0	18:13:56	1.4546	96.17
673	0	18:14:32	1.4646	96.18
678	0	18:15: 8	1.4746	96.19
683	0	18:15:44	1.4845	96.20
688	0	18:16:20	1.4945	96.21
693	0	18:16:56	1.5045	96.23
698	0	18:17:31	1.5145	96.24
703	0	18:18: 7	1.5245	96.25
708	0	18:18:43	1.5345	96.26
713	0	18:19:19	1.5445	96.27
718	0	18:19:55	1.5545	96.28
723	0	18:20:31	1.5645	96.29
728	0	18:21: 7	1.5745	96.31
733	0	18:21:43	1.5845	96.32
738	0	18:22:19	1.5944	96.33
743	0	18:22:55	1.6044	96.34
748	0	18:23:31	1.6144	96.35
753	0	18:24: 7	1.6244	96.36
758	0	18:24:43	1.6344	96.38
763	0	18:25:19	1.6444	96.39
768	0	18:25:55	1.6544	97.25
773	0	18:26:31	1.6644	97.26
778	0	18:27: 7	1.6744	97.27
783	0	18:27:43	1.6844	97.28
788	0	18:28:19	1.6944	97.29

Company: DEUTSCH OIL COMPANY
 Well: #1-22 HAYS
 Field: TKT 22627 DST 1

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
793	0	18:28:55	1.7319	97.30
798	0	18:29:31	1.7419	97.31
803	0	18:30: 7	1.7519	97.33
808	0	18:30:43	1.7619	97.34
813	0	18:31:19	1.7719	97.35
818	0	18:31:55	1.7819	97.36
823	0	18:32:31	1.7919	97.37
828	0	18:33: 7	1.8019	97.38
833	0	18:33:43	1.8118	98.24
838	0	18:34:19	1.8218	98.25
843	0	18:34:55	1.8318	99.11
848	0	18:35:31	1.8418	100.82
853	0	18:36: 6	1.8518	103.37
858	0	18:36:42	1.8618	106.76
END FLOW 2				
START SHUTIN 2				
860	0	18:36:57	1.8657	109.30
863	0	18:37:18	1.8717	111.85
868	0	18:37:54	1.8817	117.79
873	0	18:38:30	1.8916	123.72
878	0	18:39: 6	1.9016	129.65
883	0	18:39:41	1.9115	136.44
888	0	18:40:17	1.9215	144.91
893	0	18:40:53	1.9314	152.54
898	0	18:41:29	1.9413	159.32
903	0	18:42: 5	1.9513	166.94
908	0	18:42:40	1.9612	173.73
913	0	18:43:16	1.9712	179.66
918	0	18:43:52	1.9811	185.60
923	0	18:44:28	1.9911	193.22
928	0	18:45: 4	2.0010	199.16
933	0	18:45:40	2.0110	205.09
938	0	18:46:15	2.0209	211.03
943	0	18:46:51	2.0309	216.12
948	0	18:47:27	2.0409	222.05
953	0	18:48: 3	2.0508	227.14
958	0	18:48:39	2.0608	231.38
963	0	18:49:15	2.0707	235.62
968	0	18:49:51	2.0807	239.87
973	0	18:50:26	2.0907	245.80
978	0	18:51: 2	2.1006	250.04
983	0	18:51:38	2.1106	254.29
988	0	18:52:14	2.1206	257.68
993	0	18:52:50	2.1305	261.92
998	0	18:53:26	2.1405	266.17
1003	0	18:54: 2	2.1504	270.41
1008	0	18:54:38	2.1604	274.65
1013	0	18:55:13	2.1704	278.05
1018	0	18:55:49	2.1804	282.29
1023	0	18:56:25	2.1903	285.69
1028	0	18:57: 1	2.2003	288.24
1033	0	18:57:37	2.2103	291.63
1038	0	18:58:13	2.2202	295.03
1043	0	18:58:49	2.2302	297.58
1048	0	18:59:25	2.2402	300.98

Company: DEUTSCH OIL COMPANY

Well: #1-22 HAYS

Field: TKT 22627 DST 1

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1053	0	19: 0: 1	2.2501	304.37
1058	0	19: 0:36	2.2601	306.92
1063	0	19: 1:12	2.2701	309.47
1068	0	19: 1:48	2.2801	312.02
1073	0	19: 2:24	2.2901	314.57
1078	0	19: 3: 0	2.3000	317.12
1083	0	19: 3:36	2.3100	319.67
1088	0	19: 4:12	2.3200	323.07
1093	0	19: 4:48	2.3300	325.62
1098	0	19: 5:24	2.3399	329.02
1103	0	19: 6: 0	2.3499	330.72
1108	0	19: 6:36	2.3599	333.27
1113	0	19: 7:11	2.3698	335.82
1118	0	19: 7:47	2.3798	338.37
1123	0	19: 8:23	2.3898	340.07
1128	0	19: 8:59	2.3998	341.78
1133	0	19: 9:35	2.4098	344.33
1138	0	19:10:11	2.4197	346.88
1143	0	19:10:47	2.4297	348.58
1148	0	19:11:23	2.4397	351.13
1153	0	19:11:59	2.4497	352.84
1158	0	19:12:35	2.4597	355.39
1163	0	19:13:11	2.4696	357.09
1168	0	19:13:47	2.4796	358.79
1173	0	19:14:22	2.4896	361.34
1178	0	19:14:58	2.4996	363.05
1183	0	19:15:34	2.5095	365.60
1188	0	19:16:10	2.5195	367.30
1193	0	19:16:46	2.5295	369.01
1198	0	19:17:22	2.5395	370.71
1203	0	19:17:58	2.5495	372.41
1208	0	19:18:34	2.5594	374.12
1213	0	19:19:10	2.5694	374.98
1218	0	19:19:46	2.5794	376.68
1223	0	19:20:22	2.5894	378.38
1228	0	19:20:58	2.5994	380.09
1233	0	19:21:34	2.6093	381.79
1238	0	19:22:10	2.6193	383.50
1243	0	19:22:46	2.6293	385.20
1248	0	19:23:21	2.6393	386.90
1253	0	19:23:57	2.6493	387.76
1258	0	19:24:33	2.6593	389.47
1263	0	19:25: 9	2.6692	391.17
1268	0	19:25:45	2.6792	392.87
1273	0	19:26:21	2.6892	394.58
1278	0	19:26:57	2.6992	395.44
1283	0	19:27:33	2.7092	396.29
1288	0	19:28: 9	2.7192	398.84
1293	0	19:28:45	2.7291	399.70
1298	0	19:29:21	2.7391	400.56
1303	0	19:29:57	2.7491	402.26
1308	0	19:30:33	2.7591	403.12
1313	0	19:31: 9	2.7691	403.98
1318	0	19:31:45	2.7791	405.68
1323	0	19:32:21	2.7890	406.54

WESTERN TESTING CO., INC.

Company: DEUTSCH OIL COMPANY
Well: #1-22 HAYS
Field: TKT 22627 DST 1

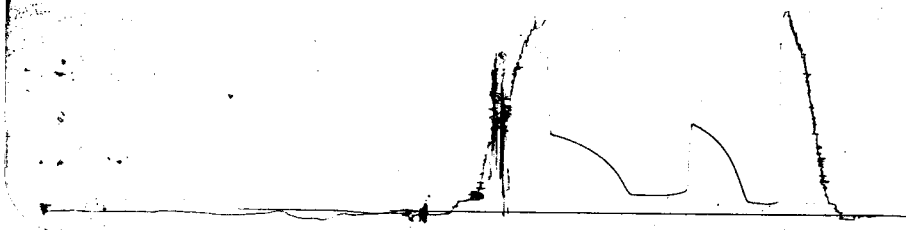
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1328	0	19:32:56	2.7990	408.24
1333	0	19:33:32	2.8090	409.10
1338	0	19:34: 8	2.8190	410.81
1343	0	19:34:44	2.8290	411.66
1348	0	19:35:20	2.8389	414.21
1353	0	19:35:56	2.8489	414.22

WESTERN TESTING CO., INC.

DST #1
ROC #10330
INSIDE

KT J627



Inside Recorder

DST #1
ROC #11018
OUTSIDE

KT J627



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 10/8/97	TICKET	: 22628
CUSTOMER	: DEUTSCH OIL COMPANY	LEASE	: HAYS
WELL	: #1-22	TEST: 2	GEOLOGIST: DEUTSCH
ELEVATION	: 2054 KB	FORMATION	: HOWARD/SEVERY
SECTION	: 22	TOWNSHIP	: 23S
RANGE	: 16W	COUNTY: PAWNEE	STATE : KS
GAUGE SN#	: 11018	RANGE : 4425	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3037.00 ft	TO:	3120.00 ft	TVD:	3120.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3040.0 ft	3117.0 ft			
TEMPERATURE:	103.0				
DRILL COLLAR LENGTH:	240.0 ft	I.D.:	2.200 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	2775.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	22.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	83.0 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:	3032.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	3037.0 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. :	MALLARD RIG 2	VISCOSITY :	42.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	13.000 cc
WEIGHT :	8.800 ppg	SERIAL NUMBER:	
CHLORIDES :	0 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - DEAD IN 10 MINUTES
FINAL FLOW PERIOD WEAK BLOW - DEAD IN 8 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
60.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.2821	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.2821	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1470.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	40.00	44.00
INITIAL SHUT-IN	30.00		960.00
FINAL FLOW	30.00	58.00	60.00
FINAL SHUT-IN	30.00		945.00

FINAL HYDROSTATIC PRESSURE: 1360.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1482.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	59.64	51.48
INITIAL SHUT-IN	30.00		953.30
FINAL FLOW	30.00	75.74	77.48
FINAL SHUT-IN	30.00		938.65

FINAL HYDROSTATIC PRESSURE: 1365.00

Company: DEUTSCH OIL COMPANY

Well: #1-22 HAYS

Field: TKT 22628 DST 2

[Wednesday: Oct. 8, 1997]

Page 1

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

		START FLOW 1		
1	0	13:30: 4	0.0000	59.64
9	0	13:31: 1	0.0160	59.70
18	0	13:32: 6	0.0340	58.84
27	0	13:33:11	0.0520	56.13
35	0	13:34:16	0.0701	52.49
44	0	13:35:21	0.0881	51.63
53	0	13:36:25	0.1061	50.77
62	0	13:37:30	0.1241	48.98
71	0	13:38:35	0.1421	49.05
80	0	13:39:40	0.1600	50.04
89	0	13:40:45	0.1780	50.10
98	0	13:41:49	0.1960	50.16
107	0	13:42:54	0.2140	50.23
116	0	13:43:59	0.2320	50.29
125	0	13:45: 3	0.2500	50.36
134	0	13:46: 8	0.2679	50.42
143	0	13:47:13	0.2859	50.49
152	0	13:48:18	0.3039	51.48
		END FLOW 1		
		START SHUTIN 1		
161	0	13:49:22	0.3217	64.49
171	0	13:50:27	0.3398	176.50
181	0	13:51:28	0.3568	356.05
191	0	13:52:31	0.3741	513.33
201	0	13:53:37	0.3927	599.98
211	0	13:54:43	0.4109	702.29
220	0	13:55:44	0.4278	766.82
229	0	13:56:46	0.4452	806.49
238	0	13:57:49	0.4625	843.40
247	0	13:58:52	0.4801	865.57
256	0	13:59:56	0.4979	879.45
265	0	14: 1: 0	0.5157	890.56
274	0	14: 2: 4	0.5336	897.99
283	0	14: 3: 9	0.5514	905.43
292	0	14: 4:13	0.5693	911.02
301	0	14: 5:18	0.5872	915.69
310	0	14: 6:22	0.6051	921.28
319	0	14: 7:27	0.6230	925.95
328	0	14: 8:31	0.6409	929.69
337	0	14: 9:36	0.6589	933.44
346	0	14:10:40	0.6768	937.19
355	0	14:11:45	0.6947	940.02
364	0	14:12:49	0.7127	942.84
373	0	14:13:54	0.7306	944.75
382	0	14:14:58	0.7485	947.58
391	0	14:16: 3	0.7665	949.48
400	0	14:17: 8	0.7844	952.31
409	0	14:18:12	0.8024	953.30
		END SHUTIN 1		
		START FLOW 2		
414	0	14:22:55	0.8810	75.74
420	0	14:23:59	0.8989	85.06
429	0	14:25: 4	0.9168	85.12
438	0	14:26: 9	0.9349	80.56

WESTERN TESTING CO., INC.

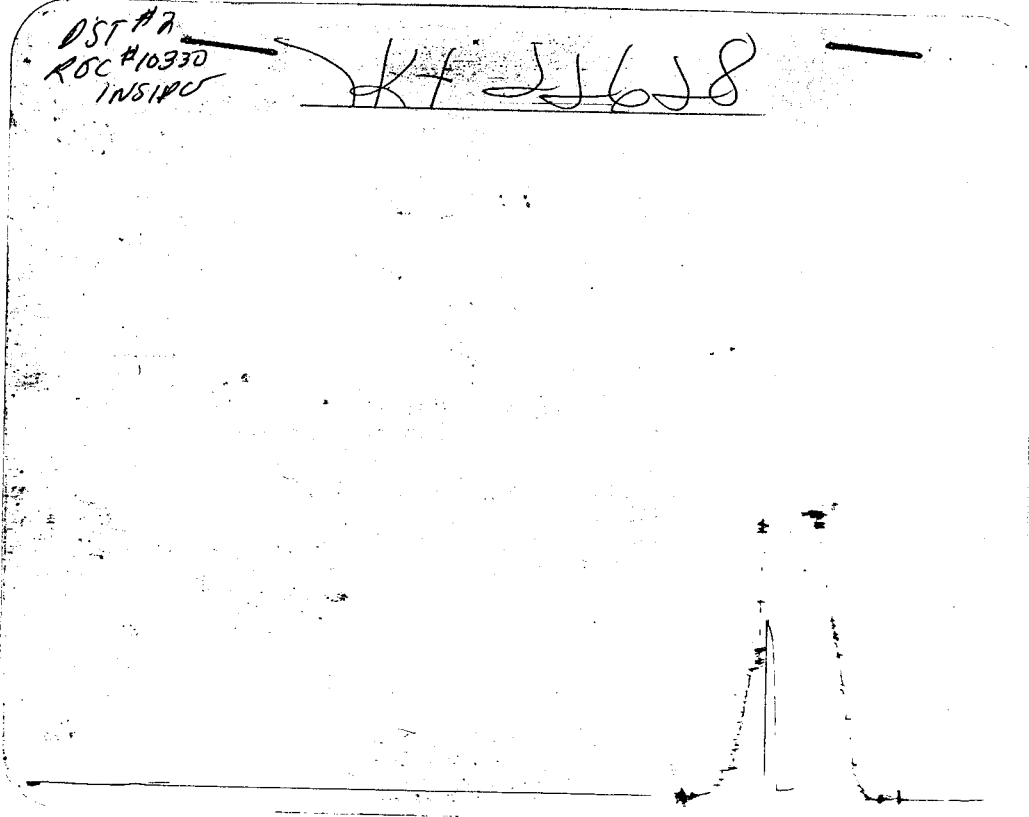
Company: DEUTSCH OIL COMPANY
Well: #1-22 HAYS
Field: TKT 22628 DST 2

[Wednesday: Oct. 8, 1997]
Page 2

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
447	0	14:27:14	0.9530	76.92
456	0	14:28:19	0.9710	76.06
465	0	14:29:24	0.9890	74.28
474	0	14:30:29	1.0070	74.34
483	0	14:31:33	1.0249	74.41
492	0	14:32:38	1.0429	73.55
501	0	14:33:43	1.0609	73.61
510	0	14:34:48	1.0789	73.67
519	0	14:35:52	1.0969	72.81
528	0	14:36:57	1.1149	72.88
537	0	14:38: 2	1.1329	72.94
546	0	14:39: 7	1.1509	73.01
555	0	14:40:11	1.1688	73.07
564	0	14:41:16	1.1868	73.13
573	0	14:42:21	1.2048	74.12
582	0	14:43:26	1.2228	74.19
591	0	14:44:30	1.2408	74.25
600	0	14:45:35	1.2587	74.32
609	0	14:46:40	1.2767	74.38
618	0	14:47:45	1.2947	74.44
627	0	14:48:49	1.3127	74.51
636	0	14:49:54	1.3307	74.57
645	0	14:50:59	1.3487	74.64
654	0	14:52: 3	1.3666	77.48
		END FLOW 2		
		START SHUTIN 2		
663	0	14:53: 7	1.3843	93.27
672	0	14:54: 7	1.4010	171.04
681	0	14:55:10	1.4184	207.19
690	0	14:56:12	1.4356	252.58
699	0	14:57:14	1.4528	300.75
709	0	14:58:17	1.4704	444.22
719	0	14:59:21	1.4883	571.64
729	0	15: 0:27	1.5066	670.26
739	0	15: 1:34	1.5252	753.23
748	0	15: 2:37	1.5425	791.97
757	0	15: 3:40	1.5600	823.35
766	0	15: 4:43	1.5777	838.43
775	0	15: 5:47	1.5955	853.02
784	0	15: 6:51	1.6133	864.71
793	0	15: 7:55	1.6311	874.80
802	0	15: 9: 0	1.6489	883.67
811	0	15:10: 4	1.6668	891.48
820	0	15:11: 8	1.6846	898.32
829	0	15:12:13	1.7025	904.29
838	0	15:13:17	1.7204	909.61
847	0	15:14:22	1.7383	914.47
856	0	15:15:26	1.7562	918.96
865	0	15:16:31	1.7741	923.17
874	0	15:17:35	1.7921	927.18
883	0	15:18:40	1.8100	931.14
892	0	15:19:44	1.8279	934.84
901	0	15:20:49	1.8459	936.74
910	0	15:21:53	1.8638	938.65

DST #7
ROC #10330
INSIDE

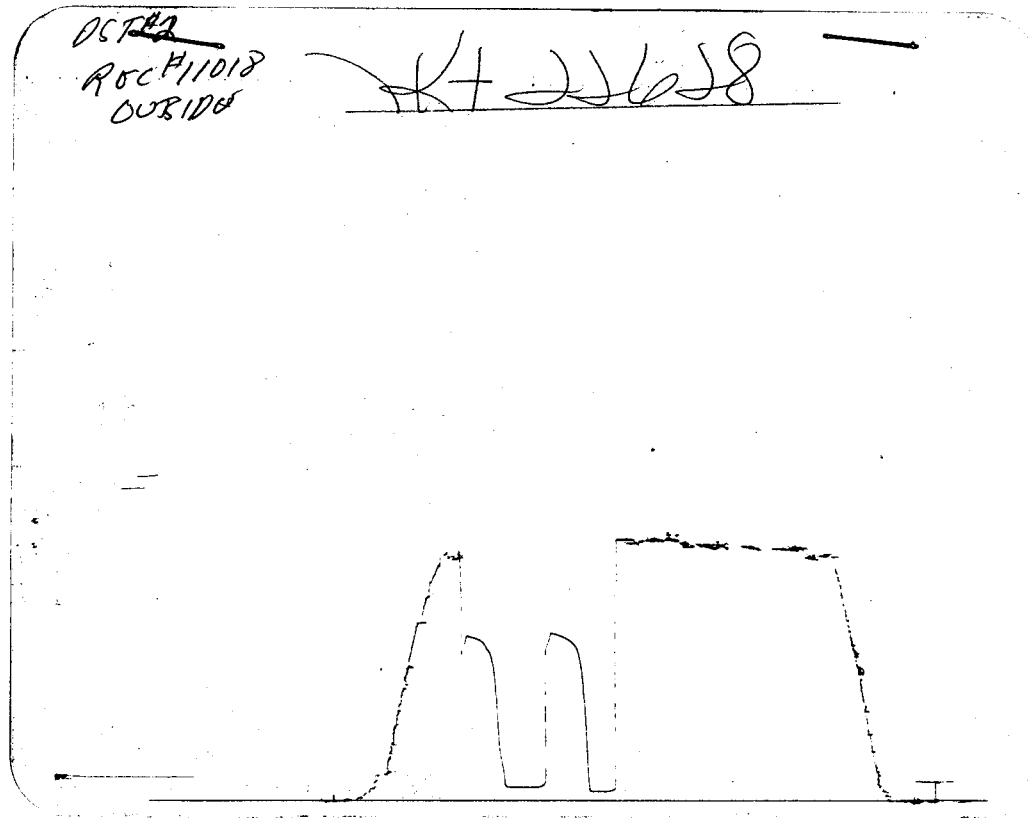
KT 22658



Inside Recorder

DST #2
ROC #11018
OUTSIDE

KT 22658



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 10/9/97	TICKET	: 22629
CUSTOMER	: DEUTSCH OIL COMPANY	LEASE	: HAYS
WELL	: #1-22	TEST:	3
ELEVATION:	2054 KB	GEOLOGIST:	DEUTSCH
SECTION	: 22	FORMATION:	L KANSAS CITY A & B
RANGE	: 16W	TOWNSHIP	: 23S
GAUGE SN#:	11018	STATE	: KS
	COUNTY: PAWNEE	CLOCK	: 12
	RANGE : 4425		

WELL INFORMATION

PERFORATION INTERVAL FROM: 3635.00 ft TO: 3690.00 ft TVD: 3690.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3638.0 ft 3687.0 ft
TEMPERATURE: 112.0

DRILL COLLAR LENGTH:	240.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3373.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	22.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	55.0 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:	3630.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3635.0 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. :	MALLARD RIG 2	VISCOSITY :	43.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.600 cc
WEIGHT :	9.300 ppg		
CHLORIDES :	10000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 1 MINUTE. FINAL FLOW PERIOD STRONG BLOW -
BOTTOM OF BUCKET IN 1 MINUTE - GAS TO SURFACE IN

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

35 MINUTES. GAS TOO SMALL TO MEASURE.
GAS BURNED.
HIT BRIDGES AT BOTTOM OF HOLE.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	0.0	30.0	0.0	70.0	GAS CUT MUD
60.0	20.0	25.0	5.0	50.0	HVY GAS & OIL C/WTRY MUD
120.0	35.0	25.0	15.0	25.0	HVY OIL & WTR C/GASSY MUD
180.0	0.0	0.0	100.0	0.0	GASSY WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 65000 PPM

RATE INFORMATION

OIL VOLUME:	0.5616 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	3.4675 SCF	AVERAGE OIL RATE:	17.5179 STB/D
MUD VOLUME:	0.9963 STB	AVERAGE WATER RATE:	19.6049 STB/D
WATER VOLUME:	1.0569 STB		
TOTAL FLUID :	2.6147 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1750.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	20.00	24.00
INITIAL SHUT-IN	45.00		814.00
FINAL FLOW	60.00	46.00	88.00
FINAL SHUT-IN	90.00		864.00

FINAL HYDROSTATIC PRESSURE: 1720.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1751.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	21.40	27.46
INITIAL SHUT-IN	45.00		800.82
FINAL FLOW	60.00	46.48	83.29
FINAL SHUT-IN	90.00		870.55
FINAL HYDROSTATIC PRESSURE:	1706.00		

Company: DEUTSCH OIL COMPANY
Well: #1-22 HAYS
Field: TKT 22629 DST 3

[Thursday: Oct. 9, 1997]
Page 1

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

START FLOW 1				
1	0	18: 0:23	0.0000	21.40
3	0	18: 0:37	0.0040	21.37
8	0	18: 1:13	0.0140	21.31
13	0	18: 1:49	0.0240	20.32
18	0	18: 2:25	0.0339	19.33
23	0	18: 3: 1	0.0439	18.34
28	0	18: 3:37	0.0539	18.28
33	0	18: 4:12	0.0638	17.29
38	0	18: 4:48	0.0738	17.23
43	0	18: 5:24	0.0838	17.17
48	0	18: 6: 0	0.0938	17.10
53	0	18: 6:36	0.1038	16.11
58	0	18: 7:12	0.1138	16.05
63	0	18: 7:48	0.1238	15.99
68	0	18: 8:24	0.1337	15.92
73	0	18: 9: 0	0.1437	15.86
78	0	18: 9:36	0.1537	15.80
83	0	18:10:12	0.1637	15.73
88	0	18:10:48	0.1737	15.67
93	0	18:11:24	0.1837	15.61
98	0	18:12: 0	0.1937	15.54
103	0	18:12:36	0.2037	15.48
108	0	18:13:12	0.2137	15.42
113	0	18:13:48	0.2237	15.36
118	0	18:14:24	0.2336	15.29
123	0	18:15: 0	0.2436	15.23
128	0	18:15:36	0.2536	15.17
133	0	18:16:12	0.2636	15.10
138	0	18:16:48	0.2736	15.04
143	0	18:17:24	0.2836	14.98
148	0	18:18: 0	0.2936	14.91
153	0	18:18:36	0.3036	14.85
158	0	18:19:12	0.3136	14.79
163	0	18:19:47	0.3236	14.72
168	0	18:20:23	0.3336	14.66
173	0	18:20:59	0.3435	14.60
178	0	18:21:35	0.3535	14.53
183	0	18:22:11	0.3636	15.40
188	0	18:22:47	0.3735	15.33
193	0	18:23:23	0.3835	15.27
198	0	18:23:59	0.3935	15.21
203	0	18:24:35	0.4035	15.14
208	0	18:25:11	0.4135	15.08
213	0	18:25:47	0.4235	15.02
218	0	18:26:23	0.4335	14.95
223	0	18:26:59	0.4435	14.89
228	0	18:27:35	0.4535	15.75
233	0	18:28:11	0.4635	15.69
238	0	18:28:47	0.4735	15.63
243	0	18:29:23	0.4835	15.56
248	0	18:30: 0	0.4936	21.05
253	0	18:30:36	0.5038	27.46
END FLOW 1				
START SHUTIN 1				
258	0	18:31:13	0.5141	35.72

Company: DEUTSCH OIL COMPANY

Well: #1-22 HAYS

Field: TKT 22629 DST 3

[Thursday: Oct. 9, 1997]

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
262	0	18:31:43	0.5224	48.63
267	0	18:32:21	0.5328	63.36
271	0	18:32:51	0.5412	77.19
275	0	18:33:22	0.5498	94.71
280	0	18:33:59	0.5602	109.08
284	0	18:34:29	0.5685	121.24
288	0	18:34:59	0.5769	133.40
292	0	18:35:30	0.5852	145.57
296	0	18:36: 0	0.5936	157.74
300	0	18:36:30	0.6019	169.92
304	0	18:37: 0	0.6103	182.11
308	0	18:37:30	0.6186	194.30
312	0	18:38: 0	0.6270	206.51
316	0	18:38:30	0.6354	218.72
320	0	18:39: 0	0.6437	230.94
324	0	18:39:30	0.6521	243.18
328	0	18:40: 0	0.6604	255.45
332	0	18:40:30	0.6688	267.75
336	0	18:41: 0	0.6771	280.09
340	0	18:41:30	0.6855	292.49
344	0	18:42: 1	0.6939	304.96
348	0	18:42:31	0.7022	317.48
352	0	18:43: 1	0.7106	330.08
356	0	18:43:31	0.7190	342.75
360	0	18:44: 1	0.7273	355.49
364	0	18:44:31	0.7357	368.32
368	0	18:45: 1	0.7441	381.22
372	0	18:45:32	0.7525	394.19
376	0	18:46: 2	0.7608	407.21
380	0	18:46:32	0.7692	420.24
384	0	18:47: 2	0.7776	433.24
388	0	18:47:32	0.7860	446.17
392	0	18:48: 2	0.7943	459.01
396	0	18:48:32	0.8027	471.74
400	0	18:49: 2	0.8111	484.31
404	0	18:49:33	0.8194	496.71
408	0	18:50: 3	0.8278	508.89
412	0	18:50:33	0.8361	520.84
416	0	18:51: 3	0.8445	532.56
421	0	18:51:40	0.8549	546.86
426	0	18:52:18	0.8653	560.73
431	0	18:52:55	0.8757	574.15
436	0	18:53:32	0.8861	587.06
441	0	18:54:10	0.8964	599.47
446	0	18:54:47	0.9068	611.42
451	0	18:55:24	0.9171	622.97
456	0	18:56: 1	0.9274	634.14
461	0	18:56:39	0.9377	644.97
466	0	18:57:16	0.9480	655.50
471	0	18:57:53	0.9583	665.74
476	0	18:58:30	0.9686	675.72
481	0	18:59: 7	0.9789	685.47
486	0	18:59:44	0.9892	695.00
491	0	19: 0:21	0.9995	704.34
496	0	19: 0:58	1.0097	713.54

WESTERN TESTING CO., INC.

Company: DEUTSCH OIL COMPANY
Well: #1-22 HAYS
Field: TKT 22629 DST 3

[Thursday: Oct. 9, 1997]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
501	0	19: 1:35	1.0200	722.69
506	0	19: 2:12	1.0303	731.84
511	0	19: 2:48	1.0405	739.14
516	0	19: 3:25	1.0506	744.61
521	0	19: 4: 1	1.0608	750.07
526	0	19: 4:38	1.0709	753.69
531	0	19: 5:14	1.0810	759.15
536	0	19: 5:51	1.0912	763.69
541	0	19: 6:27	1.1013	768.24
546	0	19: 7: 4	1.1114	772.78
551	0	19: 7:40	1.1215	777.32
556	0	19: 8:17	1.1316	780.94
561	0	19: 8:53	1.1417	784.56
566	0	19: 9:29	1.1518	788.18
571	0	19:10: 6	1.1619	790.88
576	0	19:10:42	1.1720	795.42
581	0	19:11:18	1.1821	799.05
586	0	19:11:54	1.1922	800.82
		END SHUTIN 1		
		START FLOW 2		
589	0	19:18:22	1.2998	46.48
594	0	19:18:58	1.3098	46.42
599	0	19:19:34	1.3198	46.36
604	0	19:20:10	1.3297	45.37
609	0	19:20:46	1.3397	45.31
614	0	19:21:22	1.3497	45.24
619	0	19:21:58	1.3597	45.18
624	0	19:22:34	1.3697	45.12
629	0	19:23: 9	1.3797	45.05
634	0	19:23:45	1.3897	44.99
639	0	19:24:21	1.3997	44.93
644	0	19:24:57	1.4097	44.86
649	0	19:25:33	1.4197	44.80
654	0	19:26: 9	1.4296	44.74
659	0	19:26:45	1.4396	44.67
664	0	19:27:21	1.4496	44.61
669	0	19:27:57	1.4596	45.47
674	0	19:28:33	1.4696	45.41
679	0	19:29: 9	1.4796	45.35
684	0	19:29:45	1.4896	45.28
689	0	19:30:21	1.4996	45.22
694	0	19:30:57	1.5096	46.08
699	0	19:31:33	1.5196	46.02
704	0	19:32: 9	1.5296	46.88
709	0	19:32:45	1.5396	46.82
714	0	19:33:21	1.5496	46.76
719	0	19:33:57	1.5596	47.62
724	0	19:34:33	1.5696	47.55
729	0	19:35: 9	1.5796	47.49
734	0	19:35:45	1.5896	48.35
739	0	19:36:21	1.5996	48.29
744	0	19:36:57	1.6096	48.23
749	0	19:37:33	1.6196	49.09
754	0	19:38: 9	1.6296	49.95
759	0	19:38:45	1.6396	49.89

Company: DEUTSCH OIL COMPANY
Well: #1-22 HAYS
Field: TKT 22629 DST 3

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
764	0	19:39:21	1.6497	50.75
769	0	19:39:57	1.6596	50.69
774	0	19:40:33	1.6696	50.62
779	0	19:41: 9	1.6797	51.48
784	0	19:41:45	1.6896	51.42
789	0	19:42:21	1.6997	52.28
794	0	19:42:57	1.7097	52.22
799	0	19:43:33	1.7196	52.16
804	0	19:44: 9	1.7296	52.09
809	0	19:44:45	1.7397	52.96
814	0	19:45:21	1.7496	52.89
819	0	19:45:57	1.7597	53.75
824	0	19:46:33	1.7697	54.62
829	0	19:47: 9	1.7797	54.55
834	0	19:47:45	1.7897	55.41
839	0	19:48:21	1.7997	55.35
844	0	19:48:58	1.8097	56.21
849	0	19:49:33	1.8197	56.15
854	0	19:50:10	1.8297	57.01
859	0	19:50:46	1.8397	56.95
864	0	19:51:22	1.8497	57.81
869	0	19:51:58	1.8597	57.75
874	0	19:52:34	1.8697	57.68
879	0	19:53:10	1.8797	58.55
884	0	19:53:46	1.8897	58.48
889	0	19:54:22	1.8997	59.34
894	0	19:54:58	1.9097	59.28
899	0	19:55:34	1.9197	60.14
904	0	19:56:10	1.9298	61.01
909	0	19:56:46	1.9397	60.94
914	0	19:57:22	1.9498	61.80
919	0	19:57:58	1.9598	61.74
924	0	19:58:34	1.9698	62.60
929	0	19:59:10	1.9798	62.54
934	0	19:59:46	1.9898	63.40
939	0	20: 0:22	1.9998	64.26
944	0	20: 0:58	2.0098	65.13
949	0	20: 1:34	2.0198	65.99
954	0	20: 2:10	2.0298	65.92
959	0	20: 2:46	2.0398	66.79
964	0	20: 3:22	2.0498	66.72
969	0	20: 3:58	2.0598	67.58
974	0	20: 4:34	2.0699	68.45
979	0	20: 5:10	2.0798	68.38
984	0	20: 5:46	2.0899	69.24
989	0	20: 6:22	2.0999	70.11
994	0	20: 6:58	2.1099	70.04
999	0	20: 7:34	2.1199	70.91
1004	0	20: 8:10	2.1299	70.84
1009	0	20: 8:46	2.1399	71.70
1014	0	20: 9:22	2.1499	72.57
1019	0	20: 9:58	2.1599	72.50
1024	0	20:10:34	2.1699	73.36
1029	0	20:11:10	2.1799	74.23
1034	0	20:11:46	2.1899	74.16

Company: DEUTSCH OIL COMPANY
Well: #1-22 HAYS
Field: TKT 22629 DST 3

[Thursday: Oct. 9, 1997]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1039	0	20:12:22	2.2000	75.03
1044	0	20:12:59	2.2102	83.29
		END FLOW 2		
		START SHUTIN 2		
1047	0	20:13:22	2.2165	92.50
1049	0	20:13:37	2.2207	99.88
1054	0	20:14:14	2.2310	109.99
1058	0	20:14:45	2.2396	132.14
1062	0	20:15:16	2.2480	146.89
1066	0	20:15:47	2.2568	171.82
1070	0	20:16:19	2.2657	204.14
1074	0	20:16:50	2.2743	225.37
1078	0	20:17:21	2.2830	246.60
1082	0	20:17:53	2.2917	273.37
1086	0	20:18:25	2.3005	300.15
1090	0	20:18:55	2.3091	318.60
1094	0	20:19:25	2.3175	331.50
1098	0	20:19:56	2.3260	349.03
1102	0	20:20:27	2.3346	370.25
1106	0	20:20:57	2.3430	384.08
1110	0	20:21:28	2.3514	399.75
1115	0	20:22: 5	2.3618	411.72
1120	0	20:22:42	2.3721	422.75
1124	0	20:23:12	2.3805	434.73
1128	0	20:23:42	2.3888	447.63
1133	0	20:24:20	2.3992	459.59
1138	0	20:24:57	2.4095	470.63
1142	0	20:25:27	2.4179	483.53
1147	0	20:26: 4	2.4283	497.34
1152	0	20:26:42	2.4386	508.34
1157	0	20:27:18	2.4488	516.57
1162	0	20:27:55	2.4590	524.79
1167	0	20:28:32	2.4694	536.70
1172	0	20:29:10	2.4797	547.69
1177	0	20:29:47	2.4900	558.68
1182	0	20:30:24	2.5003	568.75
1187	0	20:31: 1	2.5106	578.82
1192	0	20:31:38	2.5208	586.12
1197	0	20:32:15	2.5311	595.27
1202	0	20:32:52	2.5414	605.34
1207	0	20:33:28	2.5516	613.56
1212	0	20:34: 5	2.5618	620.87
1217	0	20:34:42	2.5721	629.09
1222	0	20:35:19	2.5822	635.48
1227	0	20:35:55	2.5925	642.78
1232	0	20:36:32	2.6027	651.93
1237	0	20:37: 9	2.6128	655.73
1242	0	20:37:45	2.6229	659.54
1247	0	20:38:22	2.6330	663.34
1252	0	20:38:58	2.6431	667.15
1257	0	20:39:34	2.6532	670.94
1262	0	20:40:11	2.6634	674.71
1267	0	20:40:47	2.6734	678.45
1272	0	20:41:23	2.6836	682.15
1277	0	20:42: 0	2.6937	685.83

Company: DEUTSCH OIL COMPANY
Well: #1-22 HAYS
Field: TKT 22629 DST 3

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1282	0	20:42:36	2.7038	689.46
1287	0	20:43:13	2.7139	693.07
1292	0	20:43:49	2.7240	696.63
1297	0	20:44:25	2.7341	700.15
1302	0	20:45: 2	2.7441	703.64
1307	0	20:45:38	2.7542	707.08
1312	0	20:46:14	2.7643	710.48
1317	0	20:46:51	2.7744	713.83
1322	0	20:47:27	2.7845	717.14
1327	0	20:48: 3	2.7946	720.40
1332	0	20:48:40	2.8047	723.61
1337	0	20:49:16	2.8148	726.77
1342	0	20:49:52	2.8249	729.88
1347	0	20:50:28	2.8349	732.93
1352	0	20:51: 5	2.8450	735.94
1357	0	20:51:41	2.8551	738.90
1362	0	20:52:17	2.8652	741.81
1367	0	20:52:54	2.8753	744.68
1372	0	20:53:30	2.8853	747.51
1377	0	20:54: 6	2.8954	750.29
1382	0	20:54:42	2.9055	753.03
1387	0	20:55:19	2.9156	755.73
1392	0	20:55:55	2.9256	758.38
1397	0	20:56:31	2.9357	761.00
1402	0	20:57: 7	2.9458	763.58
1407	0	20:57:44	2.9558	766.12
1412	0	20:58:20	2.9659	768.63
1417	0	20:58:56	2.9760	771.09
1422	0	20:59:32	2.9860	773.52
1427	0	21: 0: 9	2.9961	775.92
1432	0	21: 0:45	3.0062	778.28
1437	0	21: 1:21	3.0162	780.60
1442	0	21: 1:57	3.0263	782.89
1447	0	21: 2:34	3.0364	785.14
1452	0	21: 3:10	3.0464	787.37
1457	0	21: 3:46	3.0565	789.55
1462	0	21: 4:22	3.0665	791.71
1467	0	21: 4:58	3.0766	793.83
1472	0	21: 5:35	3.0866	795.92
1477	0	21: 6:11	3.0967	797.98
1482	0	21: 6:47	3.1067	800.02
1487	0	21: 7:23	3.1168	802.03
1492	0	21: 7:59	3.1268	804.02
1497	0	21: 8:35	3.1369	805.99
1502	0	21: 9:12	3.1469	807.93
1507	0	21: 9:48	3.1570	809.86
1512	0	21:10:24	3.1670	811.76
1517	0	21:11: 0	3.1771	813.64
1522	0	21:11:36	3.1871	815.51
1527	0	21:12:13	3.1972	817.36
1532	0	21:12:49	3.2072	819.20
1537	0	21:13:25	3.2173	821.01
1542	0	21:14: 1	3.2273	822.82
1547	0	21:14:37	3.2374	824.61
1552	0	21:15:13	3.2474	826.38

WESTERN TESTING CO., INC.

Company: DEUTSCH OIL COMPANY
Well: #1-22 HAYS
Field: TKT 22629 DST 3

[Thursday: Oct. 9, 1997]
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1557	0	21:15:50	3.2575	828.15
1562	0	21:16:26	3.2675	829.91
1567	0	21:17: 2	3.2775	831.66
1572	0	21:17:38	3.2876	833.41
1577	0	21:18:14	3.2976	835.16
1582	0	21:18:50	3.3077	836.91
1587	0	21:19:26	3.3177	838.66
1592	0	21:20: 3	3.3278	842.65
1597	0	21:20:39	3.3379	843.50
1602	0	21:21:15	3.3479	844.36
1607	0	21:21:51	3.3579	846.14
1612	0	21:22:27	3.3679	847.00
1617	0	21:23: 3	3.3780	848.78
1622	0	21:23:39	3.3880	849.64
1627	0	21:24:16	3.3981	851.42
1632	0	21:24:52	3.4081	853.20
1637	0	21:25:28	3.4181	854.05
1642	0	21:26: 4	3.4281	855.83
1647	0	21:26:40	3.4382	856.69
1652	0	21:27:16	3.4482	858.47
1657	0	21:27:52	3.4582	859.33
1662	0	21:28:28	3.4683	860.19
1667	0	21:29: 4	3.4783	861.04
1672	0	21:29:41	3.4883	862.82
1677	0	21:30:17	3.4983	863.68
1682	0	21:30:53	3.5084	864.54
1687	0	21:31:29	3.5184	865.40
1692	0	21:32: 5	3.5284	866.26
1697	0	21:32:41	3.5384	867.11
1702	0	21:33:17	3.5484	867.97
1707	0	21:33:53	3.5584	868.83
1712	0	21:34:29	3.5685	869.69
1717	0	21:35: 5	3.5785	870.55

WESTERN TESTING CO., INC.

Company: DEUTSCH OIL COMPANY

Well: #1-22 HAYS

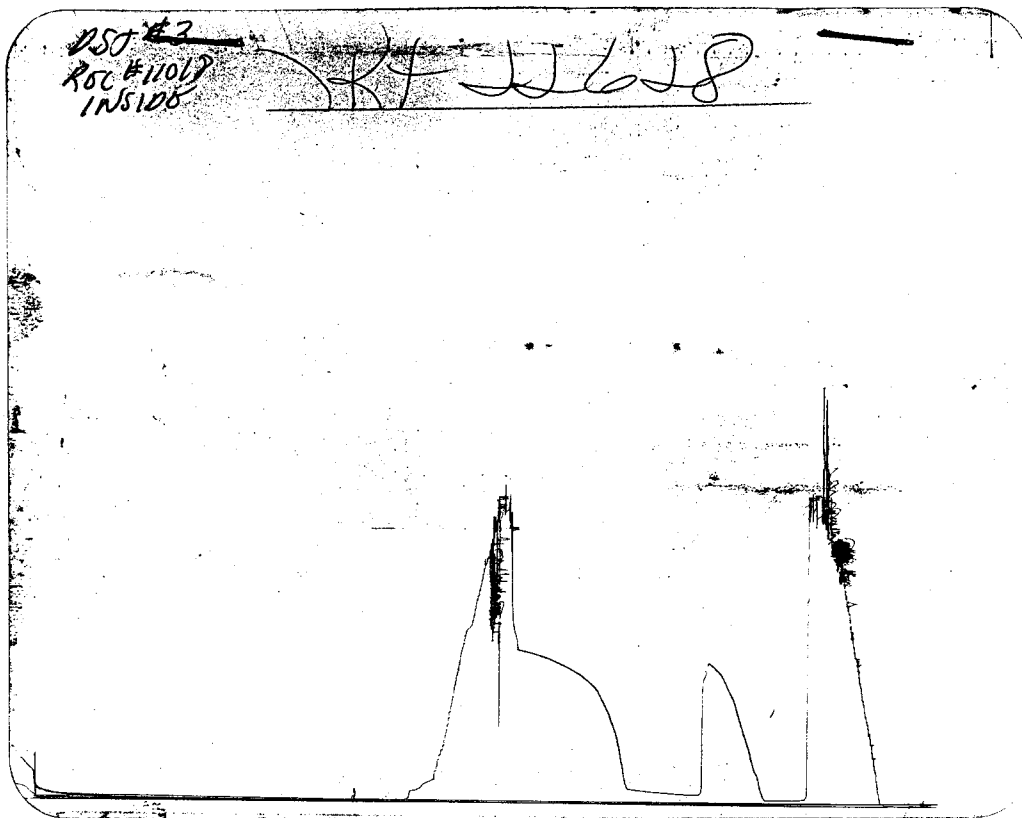
Field: TKT 22629 DST 3

[Thursday: Oct. 9, 1997]

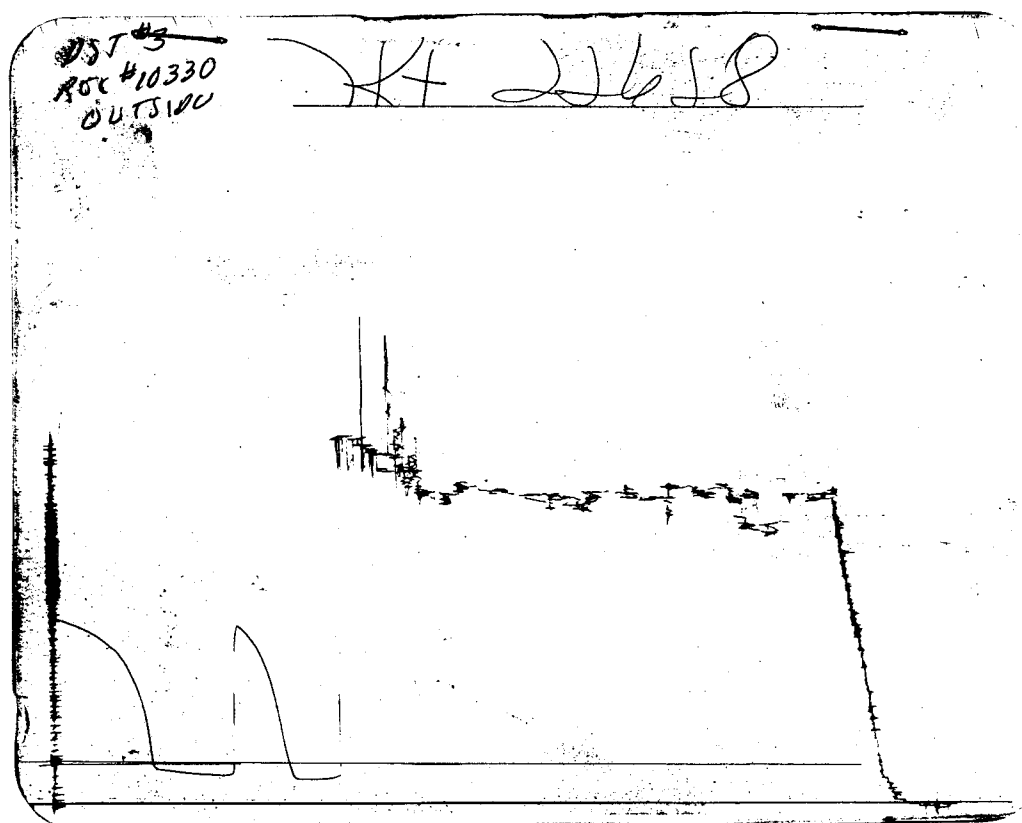
Page 7

REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1557	0	21:15:50	3.2575	828.15
1562	0	21:16:26	3.2675	829.91
1567	0	21:17: 2	3.2775	831.66
1572	0	21:17:38	3.2876	833.41
1577	0	21:18:14	3.2976	835.16
1582	0	21:18:50	3.3077	836.91
1587	0	21:19:26	3.3177	838.66
1592	0	21:20: 3	3.3278	842.65
1597	0	21:20:39	3.3379	843.50
1602	0	21:21:15	3.3479	844.36
1607	0	21:21:51	3.3579	846.14
1612	0	21:22:27	3.3679	847.00
1617	0	21:23: 3	3.3780	848.78
1622	0	21:23:39	3.3880	849.64
1627	0	21:24:16	3.3981	851.42
1632	0	21:24:52	3.4081	853.20
1637	0	21:25:28	3.4181	854.05
1642	0	21:26: 4	3.4281	855.83
1647	0	21:26:40	3.4382	856.69
1652	0	21:27:16	3.4482	858.47
1657	0	21:27:52	3.4582	859.33
1662	0	21:28:28	3.4683	860.19
1667	0	21:29: 4	3.4783	861.04
1672	0	21:29:41	3.4883	862.82
1677	0	21:30:17	3.4983	863.68
1682	0	21:30:53	3.5084	864.54
1687	0	21:31:29	3.5184	865.40
1692	0	21:32: 5	3.5284	866.26
1697	0	21:32:41	3.5384	867.11
1702	0	21:33:17	3.5484	867.97
1707	0	21:33:53	3.5584	868.83
1712	0	21:34:29	3.5685	869.69
1717	0	21:35: 5	3.5785	870.55

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder

DST REPORT

GENERAL INFORMATION

DATE	: 10/1197	TICKET	: 22630
CUSTOMER	: DEUTSCH OIL COMPANY	LEASE	: HAYS
WELL	: #1-22	TEST:	4
ELEVATION	: 2054 KB	GEOLOGIST	: DEUTSCH
SECTION	: 22	FORMATION	: ARBUCKLE
RANGE	: 16W	COUNTY	: PAWNEE
GAUGE SN#	: 11018	STATE	: KS
		RANGE	: 4425
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4014.00 ft TO: 4049.00 ft TVD: 4049.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS
DEPTH OF RECORDERS: 4017.0 ft 4046.0 ft
TEMPERATURE: 114.0

DRILL COLLAR LENGTH:	240.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3752.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	22.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	35.0 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:	4009.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4014.0 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. :	MALLARD RIG 2	VISCOSITY :	53.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	12.000 cc
WEIGHT :	9.400 ppg	SERIAL NUMBER:	
CHLORIDES :	13000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - GAS TO SURFACE
IN 1 MINUTE- MUD MIST TO SURFACE IN 15 MINUTES.
FINAL FLOW PERIOD GAS TO SURFACE THROUGHOUT WITH A

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

MIST. SEE GAS SHEET ATTACHED.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
100.0	0.0	10.0	0.0	90.0	GASSY DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.2640 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.4231 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.4231 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1960.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	765.00	790.00
INITIAL SHUT-IN	60.00		1262.00
FINAL FLOW	30.00	854.00	860.00
FINAL SHUT-IN	60.00		1266.00

FINAL HYDROSTATIC PRESSURE: 1880.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2030.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	842.89	786.45
INITIAL SHUT-IN	60.00		1265.90
FINAL FLOW	30.00	859.61	857.70
FINAL SHUT-IN	60.00		1265.73

FINAL HYDROSTATIC PRESSURE: 1897.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE	: 10/1197	TICKET	: 22630
CUSTOMER	: DEUTSCH OIL COMPANY	LEASE	: HAYS
WELL	: #1-22	TEST: 4	GEOLOGIST: DEUTSCH
ELEVATION	: 2054 KB	FORMATION	: ARBUCKLE
SECTION	: 22	TOWNSHIP	: 23S
RANGE	: 16W	COUNTY: PAWNEE	STATE : KS
GAUGE SN#	: 11018	RANGE : 4425	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.500	20 PSIG	1949000 SCF/D
20 MIN	MERLA	1.500	40 PSIG	3155000 SCF/D
30 MIN	MERLA	1.500	44 PSIG	3394000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.500	44 PSIG	3394000 SCF/D
20 MIN	MERLA	1.500	50 PSIG	3752000 SCF/D
30 MIN	MERLA	1.500	50 PSIG	3752000 SCF/D

Company: DEUTSCH OIL COMPANY

Well: #1-22 HAYS

Field: TKT 22630 DST 4

[Saturday: Oct. 11, 1997]

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
START FLOW 1				
1	0	4:31:33	0.0000	842.89
6	0	4:32: 9	0.0100	842.84
11	0	4:32:45	0.0200	842.80
16	0	4:33:20	0.0299	837.22
21	0	4:33:56	0.0397	832.57
26	0	4:34:31	0.0495	819.63
31	0	4:35: 5	0.0590	796.56
36	0	4:35:41	0.0688	790.99
41	0	4:36:16	0.0787	785.42
46	0	4:36:52	0.0886	783.53
51	0	4:37:28	0.0986	782.57
56	0	4:38: 4	0.1086	781.60
61	0	4:38:40	0.1186	780.63
66	0	4:39:16	0.1286	780.59
71	0	4:39:52	0.1385	779.62
76	0	4:40:28	0.1485	779.57
81	0	4:41: 4	0.1585	779.53
86	0	4:41:40	0.1685	780.40
91	0	4:42:16	0.1785	780.36
96	0	4:42:52	0.1885	780.31
101	0	4:43:28	0.1986	783.03
106	0	4:44: 4	0.2086	785.75
111	0	4:44:40	0.2186	785.70
116	0	4:45:16	0.2286	785.66
121	0	4:45:52	0.2386	785.61
126	0	4:46:28	0.2486	785.57
131	0	4:47: 4	0.2586	785.52
136	0	4:47:40	0.2686	785.48
141	0	4:48:16	0.2785	785.43
146	0	4:48:52	0.2885	785.38
151	0	4:49:28	0.2985	785.34
156	0	4:50: 4	0.3085	785.29
161	0	4:50:40	0.3185	785.25
166	0	4:51:16	0.3285	785.20
171	0	4:51:52	0.3385	786.08
176	0	4:52:28	0.3485	786.03
181	0	4:53: 4	0.3585	785.99
186	0	4:53:40	0.3685	785.94
191	0	4:54:15	0.3785	785.90
196	0	4:54:51	0.3885	785.85
201	0	4:55:27	0.3985	785.81
206	0	4:56: 3	0.4085	785.76
211	0	4:56:39	0.4184	785.71
216	0	4:57:15	0.4284	785.67
221	0	4:57:51	0.4384	785.62
226	0	4:58:27	0.4484	786.50
231	0	4:59: 3	0.4584	786.45
END FLOW 1				
START SHUTIN 1				
234	0	4:59:56	0.4732	1195.41
239	0	5: 0:34	0.4835	1209.12
244	0	5: 1:10	0.4936	1214.58
249	0	5: 1:46	0.5037	1220.95
254	0	5: 2:23	0.5138	1224.58

WESTERN TESTING CO., INC.

Company: DEUTSCH OIL COMPANY

Well: #1-22 HAYS

Field: TKT 22630 DST 4

[Saturday: Oct. 11, 1997

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
259	0	5: 2:59	0.5239	1228.20
264	0	5: 3:35	0.5339	1230.90
269	0	5: 4:11	0.5440	1233.61
274	0	5: 4:47	0.5540	1236.32
279	0	5: 5:24	0.5640	1238.10
284	0	5: 6: 0	0.5741	1241.73
289	0	5: 6:36	0.5841	1243.51
294	0	5: 7:12	0.5942	1245.30
299	0	5: 7:48	0.6042	1246.18
304	0	5: 8:24	0.6142	1247.96
309	0	5: 9: 0	0.6242	1248.84
314	0	5: 9:36	0.6343	1250.62
319	0	5:10:12	0.6443	1251.50
324	0	5:10:48	0.6543	1252.37
329	0	5:11:24	0.6643	1253.24
334	0	5:12: 0	0.6743	1254.11
339	0	5:12:37	0.6843	1254.98
344	0	5:13:13	0.6943	1255.85
349	0	5:13:49	0.7043	1256.73
354	0	5:14:25	0.7143	1256.68
359	0	5:15: 1	0.7243	1257.55
364	0	5:15:37	0.7344	1258.42
369	0	5:16:13	0.7443	1258.38
374	0	5:16:49	0.7544	1259.25
379	0	5:17:25	0.7644	1260.12
384	0	5:18: 1	0.7744	1260.08
389	0	5:18:37	0.7844	1260.95
394	0	5:19:13	0.7944	1260.90
399	0	5:19:49	0.8044	1261.77
404	0	5:20:25	0.8144	1261.73
409	0	5:21: 1	0.8244	1262.60
414	0	5:21:37	0.8344	1262.56
419	0	5:22:13	0.8444	1262.51
424	0	5:22:49	0.8543	1262.47
429	0	5:23:25	0.8643	1262.42
434	0	5:24: 1	0.8743	1262.37
439	0	5:24:37	0.8843	1263.25
444	0	5:25:13	0.8943	1264.12
449	0	5:25:49	0.9043	1264.07
454	0	5:26:25	0.9143	1264.03
459	0	5:27: 1	0.9243	1263.98
464	0	5:27:37	0.9343	1263.94
469	0	5:28:12	0.9443	1263.89
474	0	5:28:48	0.9543	1263.85
479	0	5:29:24	0.9643	1264.72
484	0	5:30: 0	0.9743	1264.67
489	0	5:30:36	0.9843	1264.63
494	0	5:31:12	0.9943	1264.58
499	0	5:31:48	1.0043	1264.54
504	0	5:32:24	1.0143	1264.49
509	0	5:33: 0	1.0243	1264.45
514	0	5:33:36	1.0343	1264.40
519	0	5:34:12	1.0443	1265.27
524	0	5:34:48	1.0543	1265.23
529	0	5:35:24	1.0642	1265.18

WESTERN TESTING CO., INC.

Company: DEUTSCH OIL COMPANY

Well: #1-22 HAYS

Field: TKT 22630 DST 4

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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
534	0	5:36: 0	1.0742	1265.14
539	0	5:36:36	1.0842	1265.09
544	0	5:37:12	1.0942	1265.05
549	0	5:37:48	1.1042	1265.00
554	0	5:38:24	1.1142	1264.96
559	0	5:39: 0	1.1242	1265.83
564	0	5:39:36	1.1342	1265.78
569	0	5:40:12	1.1442	1265.74
574	0	5:40:48	1.1542	1265.69
579	0	5:41:24	1.1642	1265.65
584	0	5:42: 0	1.1742	1265.60
589	0	5:42:36	1.1842	1265.56
594	0	5:43:12	1.1941	1265.51
599	0	5:43:48	1.2041	1265.47
604	0	5:44:24	1.2141	1265.42
609	0	5:45: 0	1.2241	1265.37
614	0	5:45:36	1.2341	1265.33
619	0	5:46:12	1.2441	1265.28
624	0	5:46:48	1.2541	1265.24
629	0	5:47:24	1.2641	1265.19
634	0	5:48: 0	1.2741	1265.15
639	0	5:48:36	1.2841	1265.10
644	0	5:49:12	1.2941	1265.06
649	0	5:49:48	1.3040	1265.01
654	0	5:50:23	1.3140	1264.97
659	0	5:50:59	1.3240	1264.92
664	0	5:51:35	1.3340	1265.79
669	0	5:52:11	1.3440	1265.75
674	0	5:52:47	1.3540	1265.70
679	0	5:53:23	1.3640	1265.66
684	0	5:53:59	1.3740	1265.61
689	0	5:54:35	1.3840	1265.57
694	0	5:55:11	1.3940	1265.52
699	0	5:55:47	1.4040	1265.48
704	0	5:56:23	1.4140	1265.43
709	0	5:56:59	1.4240	1265.39
714	0	5:57:35	1.4340	1265.34
719	0	5:58:11	1.4439	1265.30
724	0	5:58:47	1.4539	1265.25
729	0	5:59:23	1.4639	1265.20
734	0	5:59:59	1.4739	1265.16
739	0	6: 0:35	1.4839	1266.03
744	0	6: 1:11	1.4939	1265.99
749	0	6: 1:47	1.5039	1265.94
754	0	6: 2:23	1.5139	1265.90
END SHUTIN 1				
START FLOW 2				
759	0	6: 6:47	1.5871	859.61
764	0	6: 7:23	1.5971	859.56
769	0	6: 7:58	1.6071	859.52
774	0	6: 8:34	1.6170	857.63
779	0	6: 9:10	1.6270	856.66
784	0	6: 9:46	1.6370	855.70
789	0	6:10:22	1.6470	855.65
794	0	6:10:58	1.6570	855.61

WESTERN TESTING CO., INC.

Company: DEUTSCH OIL COMPANY
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
799	0	6:11:34	1.6670	855.56
804	0	6:12:10	1.6769	855.52
809	0	6:12:46	1.6869	855.47
814	0	6:13:22	1.6969	855.43
819	0	6:13:58	1.7069	855.38
824	0	6:14:34	1.7169	855.33
829	0	6:15:10	1.7269	855.29
834	0	6:15:46	1.7369	855.24
839	0	6:16:22	1.7469	856.12
844	0	6:16:58	1.7569	856.07
849	0	6:17:34	1.7669	856.03
854	0	6:18:10	1.7769	855.98
859	0	6:18:46	1.7869	855.94
864	0	6:19:22	1.7969	855.89
869	0	6:19:58	1.8069	855.85
874	0	6:20:34	1.8168	855.80
879	0	6:21:10	1.8268	855.75
884	0	6:21:46	1.8368	855.71
889	0	6:22:22	1.8468	855.66
894	0	6:22:57	1.8568	855.62
899	0	6:23:34	1.8668	856.49
904	0	6:24: 9	1.8768	856.45
909	0	6:24:45	1.8868	856.40
914	0	6:25:21	1.8968	856.36
919	0	6:25:57	1.9068	856.31
924	0	6:26:33	1.9168	856.27
929	0	6:27: 9	1.9268	856.22
934	0	6:27:45	1.9368	856.18
939	0	6:28:21	1.9467	856.13
944	0	6:28:57	1.9567	856.08
949	0	6:29:33	1.9667	856.04
954	0	6:30: 9	1.9767	855.99
959	0	6:30:45	1.9867	856.87
964	0	6:31:21	1.9967	856.82
969	0	6:31:57	2.0067	857.70
END FLOW 2				
START SHUTIN 2				
971	0	6:32:13	2.0110	870.58
973	0	6:32:29	2.0157	900.95
976	0	6:33:11	2.0272	1160.86
980	0	6:33:42	2.0357	1184.66
985	0	6:34:19	2.0460	1197.46
990	0	6:34:55	2.0561	1203.83
995	0	6:35:31	2.0662	1208.37
1000	0	6:36: 8	2.0763	1212.91
1005	0	6:36:44	2.0864	1217.45
1010	0	6:37:20	2.0965	1221.99
1015	0	6:37:57	2.1066	1225.61
1020	0	6:38:33	2.1166	1228.32
1025	0	6:39: 9	2.1267	1231.02
1030	0	6:39:45	2.1367	1233.73
1035	0	6:40:21	2.1468	1236.43
1040	0	6:40:57	2.1568	1238.22
1045	0	6:41:34	2.1668	1240.01
1050	0	6:42:10	2.1769	1241.80

WESTERN TESTING CO., INC.

Company: DEUTSCH OIL COMPANY
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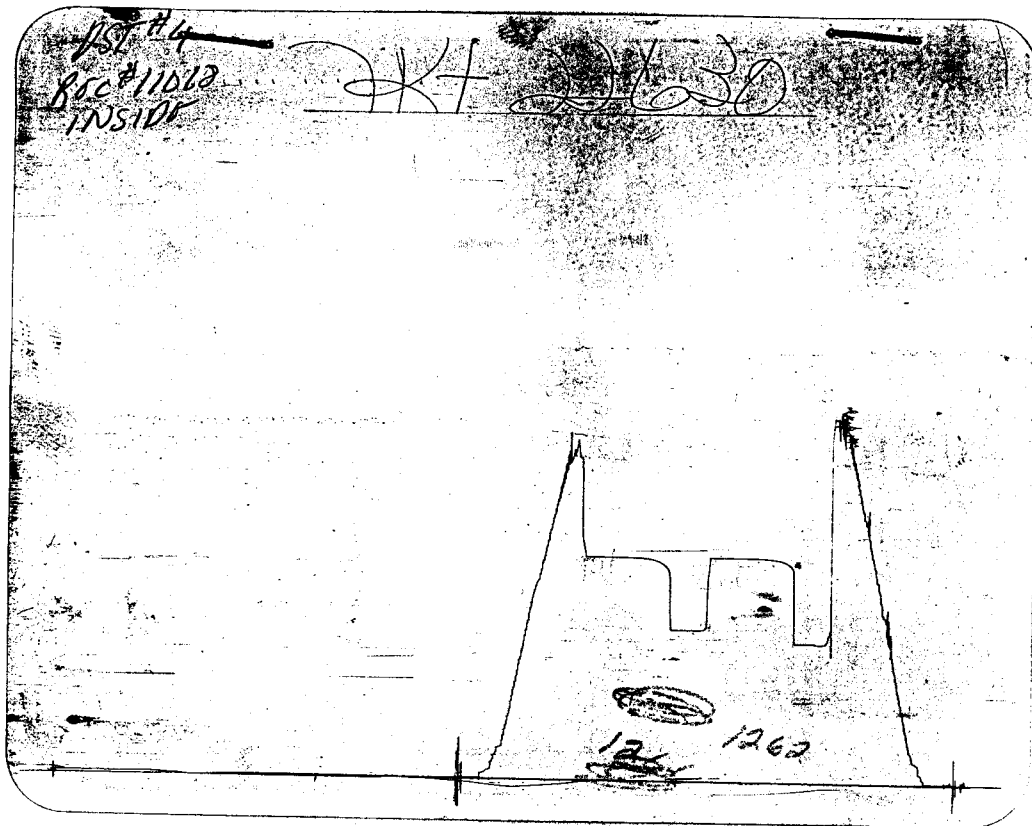
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1055	0	6:42:46	2.1869	1243.59
1060	0	6:43:22	2.1969	1245.38
1065	0	6:43:58	2.2070	1247.16
1070	0	6:44:34	2.2170	1248.04
1075	0	6:45:10	2.2270	1248.91
1080	0	6:45:46	2.2370	1250.70
1085	0	6:46:22	2.2470	1252.48
1090	0	6:46:58	2.2570	1252.44
1095	0	6:47:34	2.2670	1253.31
1100	0	6:48:10	2.2771	1254.18
1105	0	6:48:46	2.2871	1255.97
1110	0	6:49:23	2.2971	1256.84
1115	0	6:49:58	2.3071	1256.80
1120	0	6:50:35	2.3171	1257.67
1125	0	6:51:10	2.3271	1257.62
1130	0	6:51:47	2.3371	1258.50
1135	0	6:52:22	2.3471	1258.45
1140	0	6:52:58	2.3571	1258.41
1145	0	6:53:34	2.3671	1259.28
1150	0	6:54:11	2.3771	1260.15
1155	0	6:54:47	2.3871	1260.10
1160	0	6:55:23	2.3971	1260.98
1165	0	6:55:59	2.4071	1260.93
1170	0	6:56:34	2.4171	1260.88
1175	0	6:57:10	2.4271	1260.84
1180	0	6:57:46	2.4371	1261.71
1185	0	6:58:22	2.4471	1261.67
1190	0	6:58:58	2.4571	1261.62
1195	0	6:59:34	2.4671	1261.58
1200	0	7: 0:10	2.4771	1261.53
1205	0	7: 0:46	2.4871	1261.48
1210	0	7: 1:22	2.4971	1262.36
1215	0	7: 1:58	2.5071	1262.31
1220	0	7: 2:34	2.5170	1262.27
1225	0	7: 3:10	2.5270	1262.22
1230	0	7: 3:46	2.5370	1263.09
1235	0	7: 4:22	2.5470	1263.05
1240	0	7: 4:58	2.5570	1263.00
1245	0	7: 5:34	2.5670	1262.96
1250	0	7: 6:10	2.5770	1262.91
1255	0	7: 6:46	2.5870	1262.87
1260	0	7: 7:22	2.5970	1262.82
1265	0	7: 7:58	2.6070	1262.77
1270	0	7: 8:34	2.6170	1262.73
1275	0	7: 9:10	2.6270	1262.68
1280	0	7: 9:46	2.6370	1262.64
1285	0	7:10:22	2.6470	1263.51
1290	0	7:10:58	2.6570	1263.47
1295	0	7:11:34	2.6669	1263.42
1300	0	7:12:10	2.6769	1263.37
1305	0	7:12:46	2.6869	1263.33
1310	0	7:13:22	2.6969	1263.28
1315	0	7:13:58	2.7069	1263.24
1320	0	7:14:34	2.7169	1263.19
1325	0	7:15:10	2.7269	1263.15

Company: DEUTSCH OIL COMPANY
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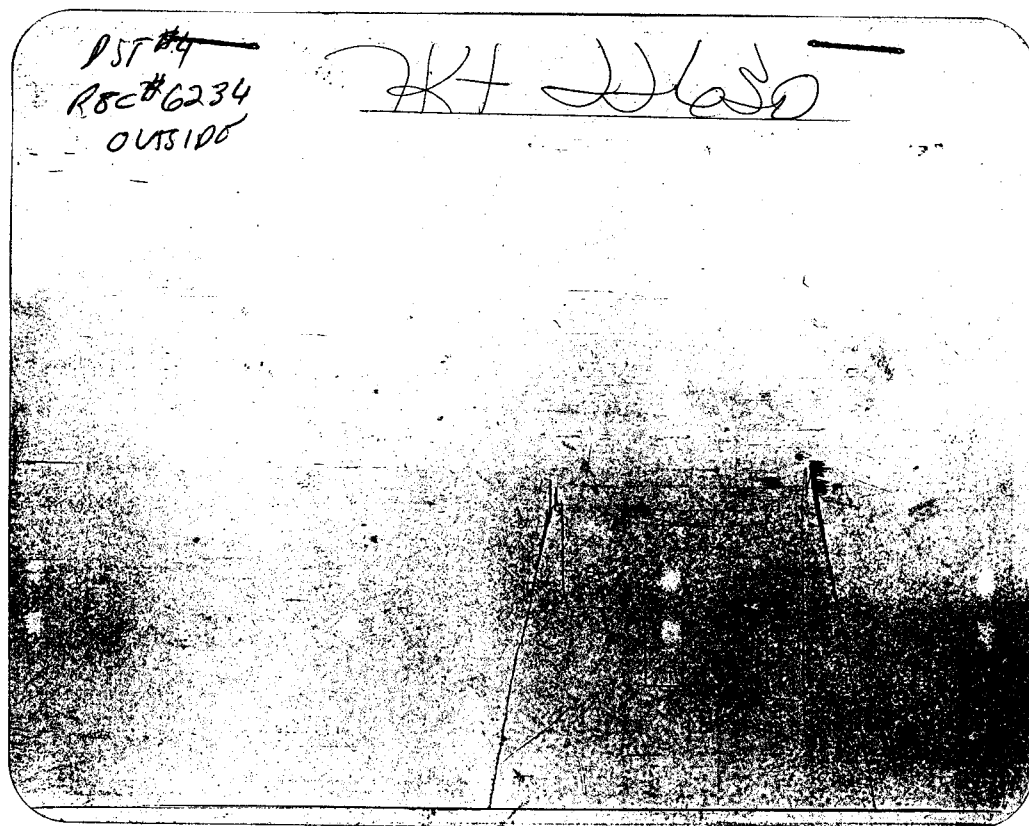
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REC #	DAY	REAL TIME	DT (HRS)	BHP (PSIA)
1330	0	7:15:46	2.7627	1263.10
1335	0	7:16:22	2.7727	1263.97
1340	0	7:16:58	2.7827	1263.93
1345	0	7:17:34	2.7927	1263.88
1350	0	7:18:10	2.8027	1263.84
1355	0	7:18:46	2.8127	1263.79
1360	0	7:19:22	2.8227	1263.75
1365	0	7:19:58	2.8327	1263.70
1370	0	7:20:34	2.8426	1263.66
1375	0	7:21:10	2.8526	1263.61
1380	0	7:21:46	2.8626	1263.57
1385	0	7:22:22	2.8726	1264.44
1390	0	7:22:58	2.8826	1264.39
1395	0	7:23:33	2.8926	1264.35
1400	0	7:24: 9	2.9026	1264.30
1405	0	7:24:45	2.9126	1264.26
1410	0	7:25:21	2.9226	1265.13
1415	0	7:25:57	2.9326	1265.08
1420	0	7:26:33	2.9426	1265.04
1425	0	7:27: 9	2.9526	1264.99
1430	0	7:27:45	2.9626	1264.95
1435	0	7:28:21	2.9726	1264.90
1440	0	7:28:57	2.9826	1264.86
1445	0	7:29:33	2.9926	1265.19
1450	0	7:30: 9	3.0026	1265.23
1455	0	7:30:45	3.0126	1265.28
1460	0	7:31:21	3.0226	1265.32
1465	0	7:31:57	3.0326	1265.37
1470	0	7:32:33	3.0425	1265.41
1475	0	7:33: 9	3.0525	1265.46
1480	0	7:33:45	3.0625	1265.50
1485	0	7:34:21	3.0725	1265.55
1490	0	7:34:57	3.0825	1265.59
1495	0	7:35:33	3.0925	1265.64
1500	0	7:36: 9	3.1025	1265.68
1505	0	7:36:45	3.1125	1265.73

WESTERN TESTING CO., INC.



Inside Recorder



Outside Recorder