WELL 7/12-6

DST 2

INJECTION TESTING MEASUREMENTS

WELL 7/12-6 DST NO. 2 DATE: 17/7/81

SUMMARY OF INJECTION MEASUREMENTS

TIME	INJECTION RATE			INJECTION PRESSURE PSI		COMMENTS
	GAUGE TANK BWPD	TURBINE METER BPM	TURBINE METER TOTALISER BWPD	HALLIBURTON PUMP	DEAD WT. TESTER	
1208						Open APR-N (lo-torq valve closed)
1217					3542	Pressure building up at surface.
1227					3542	Put 3500 psi below lo-torq valve - open same.
1228		2.0				Commenced pumping diesel.
1231		2.0		3300	3570	
1241		1.5		3900		
1250				4300		
1305				4400	4805	
1313		1.0		4300		
1325		1.0		4300		
1335		0.5		4300	4450	
1345		0.5		4300		
1400		0.5		4300	4516	
1406		0.5		4300		Commenced pumping seawater.

WELL 7/12-6 DST NO. 2 DATE: 17/7/81

SUMMARY OF INJECTION MEASUREMENTS

TIME	INJECTION RATE			INJECTION PRESSURE PSI		COMMENTS
	GAUGE TANK BWPD	TURBINE METER BPM	TURBINE METER TOTALISER BWPD	HALLIBURTON PUMP	DEAD WT. TESTER	
1415		0.5		4300	4520	
1422		1.25		4700		
1437	1500	1.0	13.71	4950		
1452	(1.04 BPM)	1.0	(0.95 BPM)	4900		
1507	↓	1.0	↓	4800	4939	
1522	↓	1.0	↓	4600		
1537	↓	1.0	↓	4600	4740	
1552	↓	1.0	↓	4800		
1603	↓	0.5	↓	4800	4850	
1607		0.5		4800		
1622		0.5		4850		
1629		0.5		4900	4980	
1640		0.25-0.5		4400		
1649		0.0		4800		

WELL 7/12-6 DST NO. 2 DATE: 17/7/81

SUMMARY OF INJECTION MEASUREMENTS

TIME	INJECTION RATE			INJECTION PRESSURE PSI		COMMENTS
	GAUGE TANK BWPD	TURBINE METER BPM	TURBINE METER TOTALISER BWPD	HALLIBURTON PUMP	DEAD WT. TESTER	
1658		0.5		4500	4645	
1700	383	0.25	348	4600		
1715	(0.27 BPM)	0.25	(0.24 BPM)	4800	4620	
1730		0.25		4600		
1749		0.25		4800	4930	
1804		0.25		4800		
1820		0.25		4900	4948	
1834		0.25		4900		
1850		0.1-0.2		4400		
1904		0.1-0.2		4400	4469	
1926		0.1-0.2		4400	4460	
1944		0.5		4800		
1956		0.5		4800		
2010		0.5		4800	4874	

WELL 7/12-6 DST NO. 2 DATE: 17/7/81

SUMMARY OF INJECTION MEASUREMENTS

TIME	INJECTION RATE			INJECTION PRESSURE PSI		COMMENTS
	GAUGE TANK BWPD	TURBINE METER BPM	TURBINE METER TOTALISER BWPD	HALLIBURTON PUMP	DEAD WT. TESTER	
2012		0.6		5000	5050	
2023		0.8		5200		
2025		0.8		5200	5212	
2040		0.8		5200		
2042		1.0		5300		
2055		1.0		5300		
2100	2179	1.5	1931	5500	5430	
2115	(1.5 BPM)	1.5	(1.34 BPM)	5600		
2124	↓	1.5	↓	5500		
2128		1.5		5300		
2130		1.5		5300	5292	
2132		1.5		5200		
2138	↓	1.5	↓	5100		
2143		1.5		5000		

WELL 7/12-6 DST NO. 2 DATE: 17/7/81

SUMMARY OF INJECTION MEASUREMENTS

TIME	INJECTION RATE			INJECTION PRESSURE PSI		COMMENTS
	GAUGE TANK BWPD	TURBINE METER BPM	TURBINE METER TOTALISER BWPD	HALLIBURTON PUMP	DEAD WT. TESTER	
2145		1.5		5000	5000	
2147		1.5		4900		
2148	3947	2.0	2836	5000		
2153	(2.05 BPM)	2.0	(1.97 BPM)	4900		
2156	↓	2.0	↓	4800		
2157	↓	2.0	↓	4900		
2158	↓	2.0	↓	4800	4600	
2210	↓	2.0	↓	4300		
2215		2.5		4400	4350	
2230	3732	2.5	3730	4100	4100	
2240	(2.59 BPM)	2.5	(2.59 BPM)	4000		
2250	↓	2.5	↓	3800		
2300	↓	2.5	↓	3800	3750	
2310	↓	2.5	↓	3700		

WELL 7/12-6 DST NO. 2 DATE: 17/7/81

SUMMARY OF INJECTION MEASUREMENTS

TIME	INJECTION RATE			INJECTION PRESSURE PSI		COMMENTS
	GAUGE TANK BWPD	TURBINE METER BPM	TURBINE METER TOTALISER BWPD	HALLIBURTON PUMP	DEAD WT. TESTER	
2320		2.5		3700	3700	
2330		2.5		3700		
2340		2.5		3600	3550	
2350		2.5		3600		
2400	↓	2.5	↓	3550		Start adding seawater to tank.
0010	3246	2.5	3720	3500		
0020	(2.25 BPM)	2.5	(2.58 BPM)	3500		
0030		2.5		3400	3300	
0040		2.5		3400		
0050		2.5		3300	3300	
0100		2.5		3300		
0110		2.5		3300		
0120		2.5		3300		
0130	↓	2.5	↓	3250	3200	

WELL 7/12-6 DST NO. 2 DATE: 18/7/81

SUMMARY OF INJECTION MEASUREMENTS

TIME	INJECTION RATE			INJECTION PRESSURE PSI		COMMENTS
	GAUGE TANK BWPD	TURBINE METER BPM	TURBINE METER TOTALISER BWPD	HALLIBURTON PUMP	DEAD WT. TESTER	
0140	3735	2.5	3676	3250		
0150	(2.59 BPM)	2.5	(2.55 BPM)	3250		
0200	↓	2.5	↓	3200	3200	
0210	↓	2.5	↓	3150		
0225	↓	2.5	↓	3200	3100	
0240	↓	2.5	↓	3200		
0255	↓	2.5	↓	3150		
0311	↓	2.5	↓	3100		
0325	↓	2.5	↓	3200	3100	
0341	↓	2.5	↓	3150		
0356	↓	2.5	↓	3150		
0412	↓	2.5	↓	3150	3000	
0425	↓	2.5	↓	3100		
0444	↓	0	↓			Pump failure due to overheating.

WELL 7/12-6 DST NO. 2 DATE: 18/7/81

SUMMARY OF INJECTION MEASUREMENTS

TIME	INJECTION RATE			INJECTION PRESSURE PSI		COMMENTS
	GAUGE TANK BWPD	TURBINE METER BPM	TURBINE METER TOTALISER BWPD	HALLIBURTON PUMP	DEAD WT. TESTER	
0449	3640	2.5	3617	3100		Commenced pumping again.
0455	(2.53 BPM)	2.5	(2.51 BPM)	3100	3037	
0511	↓	2.5	↓	3100		
0522	↓	2.5	↓	2900		
0530	↓	2.5	↓	3000	3002	
0545	↓	2.5	↓	3000	2995	
0600	↓	2.5	↓	3000	3013	
0611	↓	2.5	↓	3000		
0625	↓	2.5	↓	3000	2998	
0640	↓	2.5	↓	3000		
0655	↓	2.5	↓	3000	2994	
0710	↓	2.5	↓	3000		
0725	↓	2.5	↓	3000	2973	
0740	↓	2.5	↓	3000		

WELL 7/12-6 DST NO. 2 DATE: 18/7/81

SUMMARY OF INJECTION MEASUREMENTS

TIME	INJECTION RATE			INJECTION PRESSURE PSI		COMMENTS
	GAUGE TANK BWPD	TURBINE METER BPM	TURBINE METER TOTALISER BWPD	HALLIBURTON PUMP	DEAD WT. TESTER	
0755		2.5		3000	2960	
0810	↓	2.5	↓	3000		
0813						Shutdown to rearrange suction to eliminate possible sources of diesel or air giving emulsion at rig floor.
0822						Recommence pumping.
0825	5600	3.5	5332	3200	3185	
0830	(3.89 BPM)	3.5	(3.70 BPM)	3200		
0835	↓	3.5	↓	3200		
0850	↓	3.5	↓	3200	3145	
0901		4.0		4300	3130	
0916		4.0		3200	3080	
0918		4.0		3100		
0930		4.0		3100	3045	
0948		4.5		3200	3110	
1003		4.5		3200	3080	

WELL 7/12-6 DST NO. 2 DATE: 18/7/81

SUMMARY OF INJECTION MEASUREMENTS

TIME	INJECTION RATE			INJECTION PRESSURE PSI		COMMENTS
	GAUGE TANK BWPD	TURBINE METER BPM	TURBINE METER TOTALISER BWPD	HALLIBURTON PUMP	DEAD WT. TESTER	
1018		4.0		3000	2995	
1022		5.5		3200		
1026	9155	6.0	8946	3400		
1033	↓	6.5	↓	3400	3260	
1035	↓	6.5	↓	3500	3345	
1054	↓	6.2	↓	3400		
1110	↓	6.2	↓	3400		
1116	↓	6.2	↓	3300	3245	
1131	↓	6.0	↓	3300	3185	
1145	10124	6.0	8951	3300	3170	
1200	↓	6.0	↓	3300	3170	
1215	↓	6.0	↓	3300	3155	
1230	↓	6.0	↓	3300	3163	
1245	↓	6.0	↓	3300	3154	

WELL 7/12-6 DST NO. 2 DATE: 18/7/81

SUMMARY OF INJECTION MEASUREMENTS

TIME	INJECTION RATE			INJECTION PRESSURE PSI		COMMENTS
	GAUGE TANK BWPD	TURBINE METER BPM	TURBINE METER TOTALISER BWPD	HALLIBURTON PUMP	DEAD WT. TESTER	
1300	↓	6.0	↓	3300	3164	
1315	8448	6.0	8802	3300	3146	
1330		6.0		3300	3142	
1345		6.0		3300	3150	
1401		6.0		3300	3152	
1415		6.0		3300	3137	
1430		6.0		3300	3135	
1445		6.0		3300	3133	
1501		6.0		3300	3138	
1515		6.0		3200	3137	
1530		6.0		3200	3137	
1545	↓	6.0	↓	3200	3134	
1600	8458	6.0	8560	3200	3134	
1615	↓	6.0	↓	3200	3125	

WELL 7/12-6 DST NO. 2 DATE: 18/7/81

SUMMARY OF INJECTION MEASUREMENTS

TIME	INJECTION RATE			INJECTION PRESSURE PSI		COMMENTS
	GAUGE TANK BWPD	TURBINE METER BPM	TURBINE METER TOTALISER BWPD	HALLIBURTON PUMP	DEAD WT. TESTER	
1630		6.0		3200	3113	
1647		6.0		3200	3107	
1700		6.0		3200	3100	
1715		6.0		3200	3095	
1730		6.0		3200	3080	
1745		5.75		3200	3062	
1800		5.75		3200		

WELL 7/12-6 DST NO. 2 DATE: 17-7-81

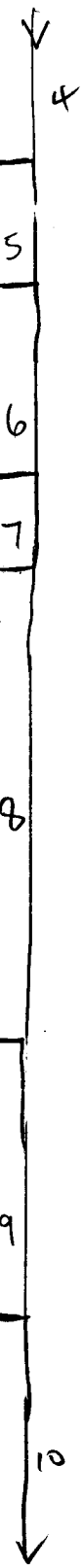
HALLIBURTON MEASUREMENTS

TIME			PRESSURE psi	TURBINE METER			
HR.	MIN.	SEC.		FLOWRATE BPM	VOLUME TOTALISER US GAL	CHANGE IN VOLUME FROM PREVIOUS MEASUREMENT, BBL	
12	31	09	3300	2	220	5.24	
12	41		3900	1.5	1070	20.24	
12	50		4300				
13	05		4400				
13	15	18	4300	1.0			1. diesel
13	25		4300	1.0			
13	35		4300	0.5			
13	45	27	4300	0.5			
14	00	25	4300	0.5	2190	26.67	
14	06		4300	0.5	0	0	
14	15	10	4300	0.5			
14	22	10	4700	1.25	370	8.81	
14	37	12	4950	1.0	1070	16.67	
14	52	39	4900	1.0	1690	14.76	2. s/w
15	07	50	4800	1.0	2310	14.76	
15	22	31	4600	1.0	2900	14.05	
15	37	21	4600	1.0	3500	14.29	
15	52	41	~~4600~~ 4800	1.0	~~3500~~ 4110	14.~~29~~ 52	
16	03	30	4800	0.5	4450	8.10	
16	07	50	4800	0.5	4550	2.38	
16	22	20	4850	0.5	4820	6.43	3 S/W.
16	29	47	4900	0.5	4930	2.76	
16	40	30	4400	0.25-0.5	5000	1.52	
16	49	20	4800	0.0	5150	3.57	
16	57	55	4500	0.5	5220	1.67	
17	00	20	4600	0.25	5250	0.71	
17	15	11	4800	0.25	5390	3.33	4
17	30	06	4600	0.25	5470	1.90	
17	48	47	4800	0.25	5680	5.00	
18	04	36	4800	0.25	5840	3.81	
18	19	40	4900	0.25	6030	4.52	
18	34	29	4900	0.25	6210	4.29	

WELL 7/12-6 DST NO. DATE: 17-7-81

HALLIBURTON MEASUREMENTS

TIME			PRESSURE psi	TURBINE METER		
HR.	MIN.	SEC.		FLOWRATE BPM	VOLUME TOTALISER US GAL	CHANGE IN VOLUME FROM PREVIOUS MEASUREMENT, BBL
18	49	30	4400	0.1-0.2	6320	2.62
19	04	15	4400	0.1-0.2	6410	2.14
19	25	50	4400	0.1-0.2	6550	3.33
19	40	30	4800	0.5	6680	3.10
19	55	50	4800	0.5	6920	5.71
20	10		4800	0.5	7140	5.24
20	12		5000	0.6	7270	3.10
20	23		5200	0.8	7460	4.52
20	25		5200	0.8	7520	1.43
20	40		5200	0.8	8010	11.67
20	42		5300	1.0	8100	2.14
20	55		5300	1.0	8560	10.95
21	00		5500	1.5	8870	7.38
21	15		5600	1.5	9650	18.57
21	24		5500	1.5	10230	13.81
21	28		5300	1.5	10560	7.86
21	30		5300	1.5	10680	2.86
21	32		5200	1.5	10820	3.33
21	38		5100	1.5	11010	4.52
21	43		5000	1.5	11520	12.14
21	45		5000	1.5	11640	2.86
21	47		4900	1.5	11820	4.29
21	48		5000	2.0	11910	2.14
21	53		4900	2.0	12280	8.81
21	56		4800	2.0	12450	4.05
21	57		4900	2.0	12570	2.86
21	58		4800	2.0	12670	2.38
22	10		4300	2.0	13730	25.24
22	15		4400	2.5	14220	11.67
22	30		4100	2.5	15670	34.52
22	40		4000	2.5	16700	24.52
22	50		3800	2.5	17800	26.19



WELL 7/12-6 DST NO. DATE: 17-7-81

HALLIBURTON MEASUREMENTS

TIME			PRESSURE psi	TURBINE METER		
HR.	MIN.	SEC.		FLOWRATE BPM	VOLUME TOTALISER US GAL	CHANGE IN VOLUME FROM PREVIOUS MEASUREMENT, BBL
23	00		3800	2.5	18890	25.95
23	10		3700	2.5	19920	24.52
23	20		3700	2.5	21310	33.10
23	30		3600	2.5	22060	17.86
23	40		3600	2.5	23270	28.81
23	50		3570	2.5	24000	17.38
24	00		3500	2.5	25460	34.76

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HALLIBURTON MEASUREMENTS

TIME			PRESSURE psi	TURBINE METER		
HR.	MIN.	SEC.		FLOWRATE BPM	VOLUME TOTALISER US GAL	CHANGE IN VOLUME FROM PREVIOUS MEASUREMENT, BBL
00	10		3500	2.5	26000	12.86
00	20		3400	2.5	27470	35.00
00	30		3400	2.5	28490	24.29
00	40		3400	2.5	29540	25.00
00	50		3300	2.5	30640	26.19
01	00		3300	2.5	31760	26.67
01	10		3300	2.5	32600	20.00
01	20		3300	2.5	33660	25.24
01	30		3250	2.5	34680	24.29
01	40		3250	2.5	35800	26.67
01	50		3250	2.5	36960	27.62
02	00		3200	2.5	38010	25.00
02	10		3150	2.5	39040	24.52
02	25	10	3200	2.5	40660	38.57
02	40	20	3200	2.5	42240	37.62
02	55	05	3150	2.5	43710	35.00
03	10	55	3100	2.5	45470	41.90
03	25	02	3200	2.5	46910	34.29
03	40	57	3150	2.5	48700	42.62
03	55	35	3150	2.5	50330	38.81
04	12	27	3150	2.5	52150	43.33
04	25	16	3100	2.5	53490	31.90
04	44		-	0.0	-	
04	49		3100	2.5	55610	50.48
04	55		3100	2.5	56280	15.95
05	10	56	3100	2.5	5800	40.95
05	21	42	3000	2.5	59190	28.33
05	22		2900	2.5	59300	2.62
05	30	20	3000	2.5	60100	19.05
05	45	10	3000	2.5	61670	37.38
06	00	11	3000	2.5	63220	39.90
06	10	34	3000	2.5	64290	25.48

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WELL 7/12-6 DST NO. DATE: 18-7-81

HALLIBURTON MEASUREMENTS

TIME			PRESSURE psi	TURBINE METER		
HR.	MIN.	SEC.		FLOWRATE BPM	VOLUME TOTALISER US GAL	CHANGE IN VOLUME FROM PREVIOUS MEASUREMENT, BBL
06	25		3000	2.5	65820	36.43
06	40		3000	2.5	67380	37.14
06	55	15	3000	2.5	68970	37.86
07	10	03	3000	2.5	70510	36.67
07	25	07	3000	2.5	72080	37.38
07	40	12	3000	2.5	73650	37.38
07	55	07	3000	2.5	75200	36.90
08	10	13	3000	2.5	76770	37.38
08	13	Shutdown to rearrange pumps, bringing pump rate and pressure higher.				
08	22	Restart				
08	25	32	3200	3.5	77550	18.57
08	30	02	3200	3.5	78240	16.43
08	35	03	3200	3.5	79030	18.81
08	50	01	3200	3.5	81360	55.48
09	01	25	3200	4.0	83220	44.29
09	15	37	3200	4.0	85680	58.57
09	18		3100	4.0	86350	15.95
09	30	08	3100	4.0	88260	45.48
09	48		3200	4.5	91750	83.10
10	03	10	3200	4.5	94770	71.90
10	17	57	3000	4.0	97420	63.10
10	18	06	3200	5	97760	8.10
10	27	11	3200	5.5	98630	20.71
10	26	12	3400	6.0	99580	22.67
10	33	10	3400	6.5	101410	43.57
10	35	20	3500	6.5	102010	14.29
10	54	18	3400	6.2	107420	128.81
11	10	15	3400	6.2	111670	101.19
11	15	38	3300	6.2	113200	36.43
11	30	45	3300	6.0	116540	79.52
11	45	12	3300	6.0	120750	100.24

12 13 14 15 16 17 18

WELL 7/12-6 DST NO. 2 DATE: 17-7-81

GAUGE TANK MEASUREMENTS

TIME			TANK NO.		VOLUMES, BBL		COMMENTS
HR.	MIN.	SEC.	1 cm	2 cm	FROM CURRENT TANK	TOTAL VOL.	
12	28	00	185				
12	43	00	81		27.5	27.5	
12	51	00	40	185	10.8	38.3	Switch over from tank 1 to
12	58	00		155	7.9	46.2	tank 2.
13	13	00		97	15.3	61.5	
13	28	00		63	9.0	70.5	
13	43	00		35	7.4	77.9	
13	52	40	40	15	5.3	83.2	Switch back to tank 1.
13	58	00	30		2.6	85.8	
14	06	00	15		4.0	89.8	Swich to water tank 1 = left tank.
14	06	00	180				First water level reading.
14	21	00	149		8.2	97.9	
14	36	00	109		10.6	108.5	
14	47	25	40	180	18.2	126.7	Switch over to tank 2.
14	51	00		167	3.4	130.2	
15	06	00		112	14.5	144.7	
15	21	00		63	12.9	157.6	
15	28	00	184	40	6.1	163.7	Switch over to tank 1.
15	36	00	151		8.7	172.4	
15	51	00	97		14.3	186.6	
16	06	00	57		10.6	197.2	
16	15	00	40	185	4.5	201.7	Switch to tank 2.
16	21	00		174	2.9	204.6	
16	36	00		158	4.2	208.8	
16	51			138.5	3.4	208.8	
17	06			125.5	3.4	212.2	
17	21			115.5	2.6	214.9	
17	36			102.5	3.4	218.3	
17	51			96.0	4.4	222.7	
18	06			70	4.2	226.9	
18	21			52	4.8	231.6	
18	31		184	40	3.2	234.8	Switch to 1.

WELL 7/12-6 DST NO. DATE: 18-7-81

HALLIBURTON MEASUREMENTS

TIME			PRESSURE psi	TURBINE METER		
HR.	MIN.	SEC.		FLOWRATE BPM	VOLUME TOTALISER US GAL	CHANGE IN VOLUME FROM PREVIOUS MEASUREMENT, BBL
12	00	20	3300	6.0	124760	95.48
12	15	19	3300	6.0	128670	93.10
12	30	13	3300	6.0	132550	92.38
12	45	03	3300	6.0	136420	92.14
13	00	02	3300	6.0	140330	93.10
13	15	05	3300	6.0	144230	92.86
13	30	04	3300	6.0	148080	91.67
13	45	26	3300	6.0	151270	75.95
14	00	43	3300	6.0	155920	110.71
14	15	05	3300	6.0	159620	88.10
14	30	00	3300	6.0	163660	96.19
14	45	00	3300	6.0	167230	85.00
15	00	33	3300	6.0	171270	96.19
15	15	00	3200	6.0	174880	85.95
15	30	03	3200	6.0	178800	93.33
15	45	23	3200	6.0	182740	93.81
16	00	00	3200	6.0	186400	87.14
16	15	09	3200	6.0	190430	95.95
16	30	27	3200	6.0	194180	89.29
16	47	26	3200	6.0	198440	101.43
17	00	00	3200	6.0	201560	74.29
17	15	00	3200	6.0	205350	90.24
17	30	19	3200	6.0	209190	91.43
17	45	00	3200	5.75	212860	87.38
18	00	00	3200	5.75	216360	83.33

18

20

19

WELL 7/12-6 DST NO. 2 DATE: 17-7-81

GAUGE TANK MEASUREMENTS

TIME			TANK NO.		VOLUMES, BBL		COMMENTS
HR.	MIN.	SEC.	1 cm	2 cm	FROM CURRENT TANK	TOTAL VOL.	
12 12	28 43	00 00	185 81		27.5	27.5	
12 12	51 58	00 00	40	185 155	10.8 7.9	38.3 46.2	Switch over from tank 1 to tank 2.
13 13	13 28	00 00		97 63	15.3 9.0	61.5 70.5	
13 13	43 52	00 40	40	35 15	7.4 5.3	77.9 83.2	Switch back to tank 1.
13 14	58 06	00 00	30 15		2.6 4.0	85.8 89.8	Swich to water tank 1 = left tank.
14 14	06 21	00 00	180 149		8.2	97.9	First water level reading.
14 14	36 47	00 25	109 40	180	10.6 18.2	108.5 126.7	Switch over to tank 2.
14 15	51 06	00 00		167 112	3.4 14.5	130.2 144,7	
15 15	21 28	00 00	184	63 40	12.9 6.1	157.6 163.7	Switch over to tank 1.
15 15	36 51	00 00	151 97		8.7 14.3	172.4 186.6	
16 16	06 15	00 00	57 40	185	10.6 4.5	197.2 201.7	Switch to tank 2.
16 16	21 36	00 00		174 158	2.9 4.2	204.6 208.8	
16 17	51 06			138.5 125.5	3.4 3.4	208.8 212.2	
17 17	21 36			115.5 102.5	2.6 3.4	214.9 218.3	
17 18	51 06			96.0 70	4.4 4.2	222.7 226.9	
18 18	21 31		184	52 40	4.8 3.2	231.6 234.8	Switch to 1.

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GAUGE TANK MEASUREMENTS

TIME			TANK NO.		VOLUMES, BBL		COMMENTS
HR.	MIN.	SEC.	1 cm	2 cm	FROM CURRENT TANK	TOTAL VOL.	
18 18	56 51		178 166		1.6 3.2	236.4 239.6	
19 19	06 21		154 142		3.2 3.2	242.7 245.9	
19 19	36 51		130 132	52	3.2	249.1	
20 20	06 21		111 81.5				
20 20	35 36		40	184 181	38.0 0.79	272.8 273.6	Switch to 2.
20 21	51 06			128 62	14.0 17.4	287.6 305.0	
21 21	10 21		177 112	40	5.8 17.2	310.0 328.0	Switch to 1.
21 21	34 36		40	184 171	19.0 3.4	347.0 350.4	Switch to 2.
21 21	51 55		184	74 40	25.6 9.0	376.0 385.0	2 1
22 22	06 14		102 40	180	21.6 16.4	406.7 423.0	1 2
22 22	21 28		163	111 40	18.2 18.7	441.3 460.0	2 1
22 22	36 41		86 40	150	20.3 12.1	480.3 492.5	1 2
22 22	51 52		139	42 40	28.5 0.5	521.0 521.5	2 1
23 23	02 06		40	135 96	26.1 10.3	547.6 557.9	1 2
23 23	11 21		126 40	40 119	14.8 22.7	572.7 595.4	2 1 1 2
23 23	28 36		120 43	40	20.9 20.3	616.3 636.6	2 1

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GAUGE TANK MEASUREMENTS

TIME			TANK NO.		VOLUMES, BBL		COMMENTS
HR.	MIN.	SEC.	1 cm	2 cm	FROM CURRENT TANK	TOTAL VOL.	
23	37		40	115	0.8	637.4	1 2
23	44		112	40	19.8	657.2	2 1
23	51		45		17.7	674.9	
23	52		40	115	1.3	676.2	1 2
23	59		111	40	19.8	696.0	2 1

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GAUGE TANK MEASUREMENTS

TIME			TANK NO.		VOLUMES, BBL		COMMENTS
HR.	MIN.	SEC.	1 cm	2 cm	FROM CURRENT TANK	TOTAL VOL.	
00	06		43		18.0	714.0	
00	07		40	141	0.8	714.8	1 2
00	17		180	40	26.7	741.4	2 1
00	21		151		7.7	749.1	
00	32		40	183			1 2
00	36			144	10.3	759.4	
00	46		185	40	27.5	786.9	2 1
00	51		139		12.1	799.0	
01	01		40	184	26.1	825.1	1 2
01	06			132	13.7	838.8	
01	15		184	40	24.3	863.1	2 1
01	21		126		15.3	878.4	
01	29		40	180	22.7	901.1	1 2
01	36			117	16.6	917.7	
01	43		185	40	20.3	938.0	2 1
01	51		113		19.0	957.0	
01	58		40	185	19.3	976.3	1 2
02	06			112	19.3	995.6	
02	13		183	40	19.0	1014.6	2 1
02	21		105		20.6	1035.2	
02	27		40	183	17.2	1052.4	1 2
02	36			99	22.2	1074.6	
02	42		183	40	15.6	1090.2	2 1
02	51		95		23.2	1113.4	
02	57		40	185	14.5	1127.9	1 2
03	06			93	24.3	1152.2	
03	11		170	40	14.0	1166.2	2 1
03	21		75		25.1	1191.3	
03	24		40	164	9.2	1200.5	1 2
03	36		158	42	32.2	1232.7	2 1
03	46	30	40	168	12.7	1245.4	1 2
03	51			129	10.3	1255.7	

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GAUGE TANK MEASUREMENTS

TIME			TANK NO.		VOLUMES, BBL		COMMENTS
HR.	MIN.	SEC.	1 cm	2 cm	FROM CURRENT TANK	TOTAL VOL.	
03 04	59 06		185 115	40	23.5 18.5	1279.2 1297.7	2 1
04 04	14 21		40	165 89	20.1	1317.8	1 2
04 04	25 36		156 50	40	13.0 28.0	1330.8 1358.8	2 1
04 04	38 41		40	152 112	29.6 10.7	1388.4 1399.1	1 2
04 04	46 51			107 57	1.3 12.7	1400.4 1413.1	
04 05	53 06		80 43	40	5.0 36.2	1418.1 1454.3	2 1
05 05	07 18		40 140	164 40	0.8 32.7	1455.1 1487.8	1 2 2 1
05 05	21 28	30	111 40	132	7.7 18.7	1495.5 1514.2	1 2
05 05	36 38		160	59 40	19.3 5.0	1533.5 1538.5	2 1
05 05	50 51		40	180 176	31.7 1.0	1570.2 1571.2	1 2
06 06	06 21		184 40	40 184	36.0 32.7	1607.2 1639.9	2 1 1 2
06 06	36 51		184 40	40 184	38.0 38.0	1677.9 1715.9	2 1 1 2
07 07	06 21		184 40	40 184	38.0 38.0	1753.9 1791.9	2 1 1 2
07 07	36 51		184 40	40 184	38.0 38.0	1829.9 1867.9	2 1 1 2
08 08	06 14		184 110	40	38.0 19.5	1805.9 1925.4	2 1 Stopping
08 08	21 23		110 110		- -		Starting

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GAUGE TANK MEASUREMENTS

TIME			TANK NO.		VOLUMES, BBL		COMMENTS
HR.	MIN.	SEC.	1 cm	2 cm	FROM CURRENT TANK	TOTAL VOL.	
08 08	28 36		40	184 67	18.5 30.9	1943.9 1974.8	
08 08	38 46		161 40	40 143	7.1 32.0	1981.9 2013.9	2 1 1 2
08 08	51 54		 132	77 40	17.4 9.7	2031.3 2041.0	2 1
09 09	00 06		40	145 55	24.3 25.0	2065.3 2090.3	1 2
09 09	07 16		178 40	40 185	4.0 33.7	2094.3 2128.0	2 1 1 2
09 09	21 25		 185	98	23.2 23.0	2151.2 2174.2	2 1
09 09	35 36		40	185 171	38.3 3.7	2212.5 2216.2	1 2
09 09	43 51		185 42	40	34.6 37.8	2250.8 2288.6	2 1
09 09	51 56		40 130	144 40	0.5 32.7	2289.1 2321.8	1 2 2 1
10 10	02 06		40 100	114 40	27.7 19.5	2349.5 2369.0	1 2 2 1
10 10	09 12		40 83	91 40	15.8 13.5	2384.8 2398.3	1 2 2 1
10 10	15 17		40 110	86 40	11.4 12.1	2409.7 2421.8	1 2 2 1
10 10	21 21		47 40	 123	16.6 1.8	2438.4 2440.2	1 2
10 10	25 29		141 40	40 145	21.9 32.0	2462.1 2494.1	2 1 1 2
10 10	34 36		151 112	40	27.7 11.3	2521.8 2532.1	2 1
10 10	38 42		40 138	144 40	19.0 32.7	2551.1 2583.7	1 2 2 1

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GAUGE TANK MEASUREMENTS

TIME			TANK NO.		VOLUMES, BBL		COMMENTS
HR.	MIN.	SEC.	1 cm	2 cm	FROM CURRENT TANK	TOTAL VOL.	
10	46		40	130	25.9	2609.6	1 2
10	50		125	40	23.8	2633.4	2 1
10	51		120		1.3	2634.7	
10	54		40	120	21.1	2655.8	1 2
10	57		118	40	21.1	2676.9	2 1
11	00		40	117	20.6	2697.5	1 2
11	04		115	40	20.3	2717.8	2 1
11	06		65		13.2	2731.0	
11	07		40	113	6.6	2737.6	1 2
11	10		111	40	19.3	2756.9	2 1
11	13		40	111	18.7	2775.6	1 2
11	16		109	40	18.7	2794.3	2 1
11	19		40	108	18.2	2812.5	1 2
11	21			77	8.2	2820.7	
11	22		112	40	9.8	2830.5	2 1
11	25		40	115	18.7	2849.2	1 2
11	29		119	40	19.8	2869.0	2 å
11	32		40	119	20.9	2889.8	1 2
11	35		119	40	20.9	2910.8	2 1
11	36		102		4.5	2915.3	
11	39		40	120	16.4	2931.7	1 2
11	42		122	40	21.1	2952.8	2 1
11	46		40	124	21.6	2974.4	1 2
11	50		124	40	22.2	2996.6	2 1
11	51		112		3.2	2999.8	
11	54		40	123	19.0	3018.8	1 2
11	58		124	40	22.0	3040.8	2 1
12	01		40	128	22.2	3063.0	1 2
12	05	3½0	134	40	21.6	2084.6	2 1
12	09	30	40	134	32.7	3150.0	1 2
12	13	30	139	40	23.2	3173.2	2 1
12	18		40	142	26.1	3199.3	1 2

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GAUGE TANK MEASUREMENTS

TIME			TANK NO.		VOLUMES, BBL		COMMENTS
HR.	MIN.	SEC.	1 cm	2 cm	FROM CURRENT TANK	TOTAL VOL.	
12	22		142	40	27.0	3226.3	2 1
12	27		40	153	27.0	3253.3	1 2
12	32		155	40	29.8	3283.1	2 1
12	36	30	40	157	30.3	3313.4	1 2
12	42		161	40	30.9	3344.3	2 1
12	47		40	165	31.9	3376.2	1 2
12	52		170	40	33.0	3409.2	2 1
12	57	40	40	174	34.3	3443.5	1 2
13	03	40	176	140	9.0	3452.5	2 1
13	09	30	40	182	36.0	3488.5	1 2
13	15	40	184	40	37.5	3526.0	2 1
13	22		40	171	38.0	3564.0	1 2
13	27	30	176	38	35.1	3599.1	2 1
13	33	30	40	178	35.9	3635.0	1 2
13	39	30	184	40	36.4	3671.4	2 1
13	45		140	186	38.0	3709.4	1 2
13	51	30	184	46	37.0	3746.4	2 1
13	57		40	167	28.0	3784.4	1 2
14	03		153	40	33.5	3817.9	2 1
14	01		40	148	29.8	3847.7	1 2
14	12	30	146	40	28.5	3876.2	2 1
14	17		40	149	27.9	3904.1	1 2
14	22		156	40	28.7	2932.8	2 1
14	27		40	160	28.0	3960.8	1 2
14	32		166	40	31.7	3992.5	2 1
14	37	30	40	176	33.3	4025.8	1 2
14	43	30	182	40	36.0	4061.8	2 1
14	49	30	116	185	17.4	4079.2	1 2
14	56		172	40	38.3	4117.5	2 1
15	01		40	139	34.8	4152.3	1 2
15	06		115	40	26.1	4178.4	2 1
15	09		40	113	19.8	4198.2	1 2

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GAUGE TANK MEASUREMENTS

TIME			TANK NO.		VOLUMES, BBL		COMMENTS
HR.	MIN.	SEC.	1 cm	2 cm	FROM CURRENT TANK	TOTAL VOL.	
15	12		122	40	19.3	4217.5	2 1
15	16		40	120	21.6	4239.1	1 2
15	20		125	40	21.1	4260.2	2 1
15	24		40	130	22.4	4282.6	1 2
15	28		141	40	23.7	4306.3	2 1
15	33		40	145	26.7	4333.0	1 2
15	38		155	40	27.7	4360.7	2 1
15	43		40	160	27.7	4388.4	1 2
15	49		169	40	31.7	4420.1	2 1
15	55		40	180	34.0	4454.1	1 2
16	01		181	40	37.0	4491.1	2 1
16	07		40	184	37.2	4528.3	1 2
16	13		176	40	38.0	4566.3	2 1
16	19		40	184	36.0	4602.3	1 2
16	26		184	40	38.0	4640.3	2 1
16	32		40	184	38.0	4678.3	1 2
16	39		180	40	38.0	4716.3	2 1
16	45		40	180	37.0	4753.3	1 2
16	51		180	40	37.0	4790.3	2 1
16	58		40	183	37.0	4827.3	1 2
17	04		184	40	37.8	4865.1	2 1
17	10		40	184	38.0	4903.1	1 2
17	17		184	40	38.8	4941.1	2 1
17	23		40	184	38.0	4979.1	1 2
17	30		184	40	38.0	5017.1	2 1
17	36		40	178	38.0	5055.1	1 2
17	42		184	40	36.4	5091.5	2 1
17	49		40	184	38.0	5129.5	1 2
17	55		184	40	28.0	5167.5	2 1
18	00		87	162	25.6	5193.1	Stop

WELL 7/12-6 DST NO. 2 DATE: 17-7-81

RIGFLOOR MEASUREMENTS

TIME			PRESSURE psi		TEMP. °F	COMMENTS
HR.	MIN.	SEC.	DWT	GAUGE		
12	17					Open APR-N valve.
12	20		3542			
12	30		3570	3500		
12	45		4210	4200	62	
13	00		4805	4800	64	
13	15		4752	4700	64	
13	30		4450	4400	65	
13	45		4469	4400	66	
14	00		4516	4500	67	
14	15		4520	4500	60	
14	30		5060	5000	58	
14	45		5050	5000	60	
15	00		4939	4900	58	
15	15		4825	4800	58	
15	30		4740	4700	58	
15	45		4560	4600	58	
16	00		4850	4800	58	
16	15		4895	4800	58	
16	30		4980	4900	58	
16	45		4573	4600	60	
17	00		4645	4600	60	
17	15		4840	4800	58	
17	30		4620	4600	59	
17	45		4905	4800	58	
18	00		4930	4900	58	
18	15		4907	4900	58	
18	30		4948	4900	58	
18	45		4425	4200	58	
19	00		4469	4500	58	
19	15		4495	4500	58	
19	30		4460	4500	58	
19	45		4859	4800	58	

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RIGFLOOR MEASUREMENTS

TIME			PRESSURE psi		TEMP. °F	COMMENTS
HR.	MIN.	SEC.	DWT	GAUGE		
20	00		4874	4800	58	
20	15		5050	5000	58	
20	30		5212	5200	58	
20	45		5298	5300	58	
21	00		5430	5450	58	
21	15		5581	5600	57	
21	30		5292	5300	57	
21	45		4992	5000	56	
22	00		4635	4600	56	
22	15		4345	4350	56	
22	30		4107	4100	57	
22	45		3904	3900	57	
23	00		3745	3750	57	
23	15		3677	3700	57	
23	30		3602	3600	57	
23	45		3552	3550	57	
00	00		3497	3500	57	

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RIGFLOOR MEASUREMENTS

TIME			PRESSURE psi		TEMP. °F	COMMENTS
HR.	MIN.	SEC.	DWT	GAUGE		
00	15		3430	3450	56	
00	30		3370	3300	56	
00	45		3335	3300	56	
01	00		3289	3300	56	
01	15		3263	3300	56	
01	30		3220	3200	56	
01	45		3185	3200	56	
02	00		3170	3200	56	
02	15		3150	3200	56	
02	30		3132	3100	56	
02	45		3108	3100	56	
03	00		3091	3100	56	Foxburgh pen unblocked/refilled.
03	15		3078	3100	56	
03	30		3093	3100	55	
03	45		3075	3100	55	
04	00		3059	3100	54	
04	15		3020	3000	54	
04	30		3025	3000	54	
04	45		2009	2000	55	Pumps stopped for 5 min.
05	00		3037	3000	55	
05	15		3022	3000	55	
05	30		3002	3000	54	
05	45		2995	3000	54	
06	00		3013	3000	55	
06	15		3006	3000	55	
06	30		2998	3000	55	
06	45		2987	3000	55	
07	00		2994	3000	55	
07	15		2983	3000	56	
07	30		2973	3000	56	
07	45		2965	2950	56	
08	00		2960	2950	56	

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RIGFLOOR MEASUREMENTS

TIME			PRESSURE psi		TEMP. °F	COMMENTS
HR.	MIN.	SEC.	DWT	GAUGE		
08	15		2000	2000	56	Stopped pumps.
08	30		3185	3200	56	
08	45		3145	3150	56	
09	00		3130	3100	56	
09	15		3080	3100	56	
09	30		3045	3000	56	
09	45		3110	3100	56	
10	00		3080	3000	56	
10	15		2995	3000	56	
10	30		3260	3200	56	
10	45		3345	3300	56	
11	00		3260	3200	56	
11	15		3245	3200	56	
11	30		3185	3200	56	
11	45		3170	3200	56	
12	00		3170	3200	56	
12	15		3155	3100	56	
12	30		3163	3100	56	
12	45		3154	3100	56	
13	00		3164	3100	56	
13	15		3146	3100	56	
13	30	3142	~~3150~~	3100	56	
13	45		3150	3100	56	
14	00		3152	3100	56	
14	15		3137	3100	56	
14	30		3135	3100	56	
14	45		3133	3100	56	
15	00		3138	3100	56	
15	15		3137	3100	56	
15	30		3137	3100	56	
15	45		3134	3100	56	
16	00		3134	3100	56	

WELL 7/12-6 DST NO. 2 DATE: 18-7-81

RIGFLOOR MEASUREMENTS

TIME			PRESSURE psi		TEMP. °F	COMMENTS
HR.	MIN.	SEC.	DWT	GAUGE		
16	15		3125	3100	56	
16	30		3113	3100	56	
16	45		3107	3100	56	
17	00		3100	3100	56	
17	15		3095	3100	56	
17	30		3080	3100	56	
17	45		3062	3050	56	
18	00		1960	~~9950~~	56	Close APR-N valve.
				2050		