

TLSTINJ.WR1
8-6-87

TWIN LAKES (SAN ANDRES) WATERFLOOD UNIT
TABLE OF PROPOSED INJECTION WELLS
C-108 III-A

TWIN LAKES (SAN ANDRES) UNIT NEW UNIT NO.															FORMER LEASE & WELL NO.		UNIT LETTER	WELL TYPE OIL-O GAS-G	DATE DRILLED	LOCATION FOOTAGE	TD (PRTD)	HOLE SIZE	CASING SIZE	WT.	CASING DEPTH	CMT SX	TOC ON CSG	BOND LOG (C) (B) TEMP SURV (TS)	PROPOSED TBG/PKR DEPTH +/-	PROPOSED INJECTION INTERVAL
SECTION 25 T85 R28E																														
TLSAU # 9	O'BRIEN F #3	M	O	10-11-79	330' FSL 990' FWL	2763 (2762)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	120' 2763'	75 SX 125 SX	SURFACE 1966'	(C)	2452'	2527-2586'															
TLSAU # 2	O'BRIEN F #4	K	O	3-4-80	1650' FSL 2310' FWL	2770 (2758)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	120' 2770'	75 SX 125 SX	SURFACE 1973'	(C)	2477'	2552-2645'															
TLSAU # 11	HARLOW O'BRIEN FEE 25 #1	O	O	5-21-79	330' FSL 1650' FEL	2750 (2705)	11" 7 7/8"	8 5/8" 5 1/2"	20# 15.5#	122' 2734'	65 SX 125 SX	SURFACE 1620'	(C)	2502'	2577-2638'															
TLSAU # 4	HARLOW O'BRIEN FEE 25 #3	I	O	7-28-79	1650' FSL 330' FEL	2825 (2809)	11" 7 7/8"	8 5/8" 5 1/2"	20# 15.5#	121' 2818'	75 SX 125 SX	SURFACE 1975'	(C)	2524'	2599-2700'															
SECTION 30 T85 R29E																														
TLSAU # 13	O'BRIEN K #1	M	O	4-22-79	330' FSL 330' FWL	2733 (2723)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	28# 9.5#	120' 2733'	75 SX 225 SX	SURFACE 1502'	(C)	2548'	2623-2728'															
TLSAU # 6	O'BRIEN K #3	K	O	11-3-79	1650' FSL 1650' FWL	2870 (2856)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	121' 2870'	75 SX 125 SX	SURFACE 2073'	(C)	2566'	2641-2744'															
TLSAU # 15	INJECTOR TO BE DRILLED	O	INTJ	NA	330' FSL 3050' FWL	2829	12 1/2" 7 7/8"	8 5/8" 5 1/2"	24# 15.5#	120' 2829'	100 SX 800 SX	SURFACE SURFACE		2584'	2659-2769'															



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SECTION 36 T8S R28E																													
TLSAU # 34	STATE CH COMM. #1	L	G	10-10-67	1980' FSL 660' FWL	2617 (2600)	11 1/4"	8 5/8"	24# 9.5#	406' 2616'	400 SX 200 SX	SURFACE 1890'	(TS)	2452'	2527-2627'														
TLSAU # 25	STATE CH COMM #2	E	O	3-6-75	1850' FNL 990' FWL	2595 (2593)	12 1/2"	8 5/8"	24# 11.6#	82' 2595'	50 SX 200 SX	SURFACE 1252'	(C)	2426'	2501-2600'														
TLSAU # 46	CITGO A STATE #1	O	O	3-11-74	330' FSL 2310' FEL	2638 (2636)	12 1/4"	8 5/8"	24# 9.5#	40' 2638'	2 YDS 200 SX	SURFACE 1286'	(C)	2496'	2571-2677'														
TLSAU # 35	CITGO A STATE #3	K	O	8-7-67	1980' FSL 1980' FWL	2615 (2608)	12 1/2"	8 5/8"	24# 9.5#	450' 2615'	100 SX 100 CU FT	SURFACE 1891'	(C)	2473'	2548-2650'														
TLSAU # 17	CITGO A STATE #5	C	O	1-26-68	990' FNL 1650' FWL	2602 (2600)	11"	8 5/8"	23# 9.5#	320' 2602'	125 SX 100 CU FT	SURFACE 1878'	(C)	2473'	2548-2646'														
TLSAU # 19	CITGO A STATE #7	A	O	4-9-79	990' FNL 990' FEL	2750 (2730)	12 1/2"	8 5/8"	28# 9.5#	40' 2750'	2 YDS 225 SX	SURFACE 1372'	(C)	2528'	2603-2705'														
TLSAU # 27	CITGO STATE #4	G	O	9-9-78	2310' FNL 2310' FEL	2694 (2684)	12 1/2"	8 5/8"	28# 9.5#	40' 2694'	2 YDS 200 SX	SURFACE 1438'	(C)	2493'	2568-2668'														
TLSAU # 38	CITGO STATE #5	I	O	12-5-78	1650' FSL 990' FEL	2730 (2719)	12 1/2"	8 5/8"	28# 9.5#	38' 2730'	2 YDS 200 SX	SURFACE 1395'	(C)	2523'	2598-2700'														

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SECTION 31 T8S R29E																									
TTLSAU # 30		O'BRIEN I #2		E	0	10-2-79	2310' FNL 330' FWL	2860 (2850)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	128' 2860'	75 SX 150 SX	SURFACE 1894'	(C)	2573'	2648-2748'								
TTLSAU # 21		O'BRIEN I #4		C	0	2-16-80	990' FNL 1650' FWL	2907 (2895)	10 3/4" 7 7/8"	8 5/8" 4 1/2"	23# 9.5#	120' 2907'	75 SX 125 SX	SURFACE 2060'	(C)	2594'	2669-2772'								
TTLSAU # 40		O'BRIEN I #6		K	0	7-7-80	1650' FSL 1650' FWL	2900 (2896)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	121' 2900'	125 SX 125 SX	SURFACE 2053'	(C)	2609'	2684-2785'								
TTLSAU # 48		O'BRIEN I #7		M	0	5-21-80	570' FSL 330' FWL	2799 (2776)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	119.5' 2799'	75 SX 125 SX	SURFACE 1954'	(C)	2573'	2648-2748'								
TTLSAU # 32		O'BRIEN J #3		G	0	10-17-80	2310' FNL 2310' FEL	2861 (2846)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	80' 2861'	75 SX 200 SX	SURFACE 1630'	(C)	2623'	2698-2801'								
TTLSAU # 50		O'BRIEN J #4		O	0	11-1-80	560' FSL 2310' FEL	2888 (2876)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	80' 2888'	5 YDS 200 SX	SURFACE 1657'	(C)	2660'	2735-2836'								
TTLSAU # 42		O'BRIEN J #5		I	0	10-25-80	1650' FSL 990' FEL	2951 (2936)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	132' 2951'	75 SX 175 SX	SURFACE 1720'	(C)	2671'	2746-2845'								
TTLSAU # 23		O'BRIEN J #9		A	0	5-18-81	990' FEL 990' FWL	2950	12 1/4" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	120' 2943'	75 SX 200 SX	SURFACE 1598'	(C)	2638'	2713-2814'								
SECTION 32 T8S R29E																									
TTLSAU # 43		O'BRIEN N #1		L	0	12-30-80	1650' FSL 430' FWL	3000 (2985)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	125' 3000'	75 SX 175 SX	SURFACE 1913'	(C)	2717'	2792-2892'								
TTLSAU # 52		O'BRIEN N #2-Y		M	0	5-5-81	540' FSL 480' FWL	2950 (2886)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	24# 9.5#	130' 2924'	125 SX 200 SX	SURFACE 1598'	(C)	2718'	2793-2894'								

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SECTION 1 T9S R28E																										
TL3AU # 54		O'BRIEN C #2		D	0	8-14-50	660' FNL 660' FSL	7346 (2675)	17" 12" 9"	13 3/8" 9 5/8" 7"	54.5# 36# 23#	675' 3400' 2726- 7346'	800 SX 1600 SX 1065 SX	SURFACE 490' 2970'	(TS) (C)	2459'	2534-2636'									
SECTION 6 T9S R29E																										
TL3AU # 74		O'BRIEN C #3		K	0	1-8-73	1980' FSL 1980' FEL	7316 (2718)	11" 7 7/8"	8 5/8" 2 7/8"	24# 6.5#	1957' 2718'	700 SX 250 SX	SURFACE 1800'	(C)	2483'	2558-2661'									
TL3AU # 55		O'BRIEN C #6		C	0	2-21-74	672' FNL 2285' FWL	2617 (2615)	12 1/4" 7 7/8"	8 5/8" 4 1/2"	24# 9.5#	40' 2617'	2 YDS 200 SX	SURFACE 1900'	(C)	2480'	2555-2660'									
TL3AU # 66		O'BRIEN E #1		G	0	2-8-78	1650' FNL 2310' FEL	2615	11" 7 7/8"	8 5/8" 4 1/2"	24# 9.0#	42' 2575'	20 SX 200 SX	SURFACE 1263'	(C)	2503'	2578-2680'									
TL3AU # 86		O'BRIEN E #4		P	0	10-28-80	990' FSL 990' FEL	2800 (2734)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	80' 2800'	5 YDS 175 SX	SURFACE 1713'	(C)	2526'	2601-2700'									
TL3AU # 76		O'BRIEN E #5		I	0	9-20-81	2310' FSL 990' FEL	2735 (2721)	12 1/4" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	130' 2735'	75 SX 200 SX	SURFACE 1383'	(C)	2533'	2608-2702'									
TL3AU # 57		O'BRIEN E #7		A	0	9-29-81	330' FNL 990' FEL	2770	12 1/4" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	129' 2770'	75 SX 200 SX	SURFACE 1418'	(C)	2526'	2601-2703'									
SECTION 6 T9S R29E																										
TL3AU # 59		O'BRIEN L #1		C	0	11-7-80	330' FNL 1750' FWL	2867 (2860)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	120' 2867'	75 SX 175 SX	SURFACE 1780'	(C)	2613'	2688-2789'									
TL3AU # 61		O'BRIEN L #3		A	0	4-12-81	330' FNL 990' FEL	2960 (2930)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	120' 2950'	75 SX 200 SX	SURFACE 1608'	(C)	2666'	2741-2839'									
TL3AU # 70		O'BRIEN L #4		G	0	5-11-81	1650' FNL 2310' FEL	2850 (2838)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	130' 2838'	75 SX 200 SX	SURFACE 1498'	(C)	2616'	2691-2789'									
TL3AU # 78		O'BRIEN L #9		K	0	6-27-81	2310' FSL 1650' FWL	2825	12 1/4" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	128' 2825'	75 SX 200 SX	SURFACE 1473'	(C)	2595'	2670-2764'									
TL3AU # 68		O'BRIEN L #10		E	0	7-9-81	1650' FNL 330' FWL	2831 (2818)	12 1/4" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	130' 2831'	75 SX 200 SX	SURFACE 1672'	(C)	2585'	2660-2758'									
TL3AU # 81		O'BRIEN FF #2		I	0	6-19-81	2310' FSL 990' FEL	2880	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	125' 2880'	75 SX 200 SX	SURFACE 1528'	(C)	2623'	2698-2794'									
TL3AU # 88		O'BRIEN FF #4		O	0	7-10-81	990' FSL 2310' FEL	2815	12 1/4" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	130' 2815'	75 SX 200 SX	SURFACE 1463'	(C)	2596'	2671-2764'									

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SECTION 5 T9S R29E																														
TLSAU # 73		O'BRIEN L #7		E	O	6-4-81	1650' ENL 330' FWL	2900 (2891)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	125' 2900'	75 SX 200 SX	SURFACE 1797'	(C)	2689'	2764-2867'													
TLSAU # 90		O'BRIEN FF #6		M	O	8-3-81	990' FSL 330' FWL	2880 (2863)	12 1/4" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	123' 2880'	75 SX 200 SX	SURFACE 1528'	(C)	2661'	2736-2833'													
TLSAU # 63		INJECTOR TO BE DRILLED		C	INJ	NA	330' ENL 1600' FWL	2961	12 1/4" 7 7/8"	8 5/8" 5 1/2"	24# 15.5#	120' 2961'	100 SX 800 SX	SURFACE SURFACE		2729'	2804-2901'													
TLSAU # 83		INJECTOR TO BE DRILLED		K	INJ	NA	2400' FSL 1700' FWL	2941	12 1/4" 7 7/8"	8 5/8" 5 1/2"	24# 15.5#	120' 2941'	100 SX 800 SX	SURFACE SURFACE		2713'	2788-2881'													
SECTION 12 T9S R28E																														
TLSAU # 91		O'BRIEN D #2		B	O	10-10-80	330' ENL 2310' FEL	2810 (2795)	12 1/2" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	51' 2810'	75 SX 200 SX	SURFACE 1579'	(C)	2501'	2576-2675'													
TLSAU # 105		O'BRIEN D #6		H	O	11-27-83	2310' ENL 330' FEL	2726 (2713)	17 1/2" 12 1/4"	13 3/8" 8 5/8"	61# 24#	127' 745'	150 SX 125 SX + 16 YDS	SURFACE SURFACE		2501'	2576-2674'													
TLSAU # 109		O'BRIEN DB #3		J	O	9-28-82	1650' FSL 1650' FWL	2745 (2734)	12 1/4" 7 7/8"	8 5/8" 4 1/2"	24# 10.5#	115' 2745'	110 SX 225 SX	SURFACE 1443'	(C)	2541'	2616-2713'													

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SECTION 7 T9S R29E																										
TLSAU # 103		MOONSHINE 7 #2		G	O	8-19-81	2310' FSL 1650' FNL	2840 (2811)	12 1/4" 7 7/8"	8 5/8" 4 1/2"	24# 10.5#	306' 2821'	180 SX 1100 SX	SURFACE 890'		(C)	2576'	2651-2748'								
TLSAU # 107		MOONSHINE 7 #3		K	O	9-1-81	2310' FSL 1650' FWL	2840 (2800)	12 1/4" 7 7/8"	8 5/8" 4 1/2"	24# 10.5#	309' 2840'	150 SX 900 SX	SURFACE 980'		(C)	2566'	2641-2741'								
TLSAU # 100		MOONSHINE 7 #4		E	O	9-2-81	1650' FNL 330' FWL	2780 (2745)	12 1/4" 7 7/8"	8 5/8" 4 1/2"	24# 10.5#	331' 2770'	150 SX 900 SX	SURFACE 910'		(C)	2520'	2595-2691'								
TLSAU # 95		MOONSHINE 7 #6		A	O	9-5-81	330' FNL 990' FEL	2840	12 1/4" 7 7/8"	8 5/8" 4 1/2"	24# 10.5#	330' 2840'	150 SX 800 SX	SURFACE 1390'		(C)	2605'	2680-2781'								
TLSAU # 111		MOONSHINE 7 #11		M	O	3-16-82	990' FSL 330' FWL	2781	12 1/4" 7 7/8"	8 5/8" 4 1/2"	24# 10.5#	173' 2781'	150 SX 900 SX	SURFACE 921'		(C)	2557'	2632-2730'								
TLSAU # 93		MOONSHINE 7 #12		C	O	6-3-82	330' FNL 1650' FWL	2780 (2750)	12 1/4" 7 7/8"	8 5/8" 4 1/2"	24# 10.5#	176' 2757'	150 SX 1000 SX	SURFACE 307'		(C)	2557'	2632-2733'								
TLSAU # 113		MOONSHINE 7 #13		O	O	5-20-82	990' FSL 2310' FEL	2793 (2751)	12 1/4" 7 7/8"	8 5/8" 4 1/2"	24# 10.5#	148' 2783'	150 SX 1000 SX	SURFACE 1512'		(B)	2622'	2697-2782'								
SECTION 8 T9S R29E																										
TLSAU # 97		O'BRIEN GG #2		C	O	8-31-81	1650' FWL 330' FNL	2930	12 1/4" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	130' 2910'	75 SX 200 SX	SURFACE 1578'		(C)	2729'	2804-2902'								
TLSAU # 104		O'BRIEN GG #3		E	O	9-11-81	1650' FNL 330' FWL	2870 (2863)	12 1/4" 7 7/8"	8 5/8" 4 1/2"	20# 9.5#	125' 2863'	75 SX 200 SX	SURFACE 1518'		(C)	2642'	2717-2824'								
SECTION 18 T9S R29E																										
TLSAU # 119		MOONSHINE 18 #2		F	O	6-8-82	1650' FNL 1650' FWL	2900 (2837)	12 1/4" 7 7/8"	8 5/8" 4 1/2"	24# 10.5#	170' 2860'	125 SX 1000 SX	SURFACE 410'		(C)	2635'	2710-2809'								
TLSAU # 116		MOONSHINE 18 #4		D	O	12-12-82	330' FNL 330' FWL	2742 (2727)	12 1/4" 7 7/8"	8 5/8" 5 1/2"	24# 15.5#	213' 2742'	165 SX 800 SX	SURFACE 782'		(C)	2607'	2682-2765'								
TLSAU # 118		MOONSHINE 18 #5		B	O	12-20-82	330' FNL 2310' FEL	2805 (2790)	12 1/4" 7 7/8"	8 5/8" 5 1/2"	24# 15.5#	241' 2805'	150 SX 575 SX	SURFACE 1394'		(B)	2673'	2748-2829'								