

INJECTION WELL DETAIL
TWO TUBING STRINGS IN ALL DUAL WELLS
WEST PEARL QUEEN UNIT
LEA COUNTY, NEW MEXICO

SECTION I
CASING AND CEMENT

INJECTION WELL	UNIT	DESIG-NATION	SIZE (INCHES)	DEPTH (FEET)	CEMENT (SACKS)	CEMENT (FEET)	SURFACE CASING				PRODUCTION CASING				ADDITIONAL CEMENTED INTERVALS #
							TOP	SIZE (INCHES)	DEPTH (FEET)	CEMENT (SACKS)	CEMENT (FEET)	TOP	CEMENT (FEET)	*	
HANON ST. E-8182	NO. 3	28- 4	8-5/8	327	300	Surface		4-1/2	4991	350	3423	E			
	NO. 4	28- 6	8-5/8	326	300	Surface		4-1/2	4961	350	3393	E			
CABOT ST. NEW MEX. "G"	NO. 5	28-10	8-5/8	304	300	Surface		5-1/2	4931	200	3753	E			
	NO. 1	28-12	8-5/8	313	300	Surface		5-1/2	4904	300	3180	E			
	NO. 4	28-14	8-5/8	302	300	Surface		5-1/2	4919	200	3920	E			
	NO. 7	28-16	8-5/8	305	300	Surface		4-1/2	4932	200	4036	E			
INMAN SUPERIOR-FED.	NO. 2	29- 2	8-5/8	328	265	Surface		4-1/2	5049	240	2980	E			
SHELL ST. "PK"	NO. 2	29- 4	8-5/8	96	85	Surface		5-1/2	5145	200	3967	E			
CACTUS PARKS	NO. 1	29- 6	13-3/8	100	80	Surface		7	4932	150	3061	E			
SKEELY HOBBS "J" ST.	NO. 1	29- 8	13-3/8	88	80	Surface		5-1/4	4920	300	3153	E			
GULF LEA ST. "IH"	NO. 1	29-10	8-5/8	308	300	Surface		4-1/2	5009	2050	795	S			1914-1864
	NO. 4	29-12	8-5/8	144	100	Surface		4-1/2	4974	250	4078	E			
CACTUS GULF ST.	NO. 4	29-14	13-3/8	100	50	Surface		5-1/2	4965	350	3026	E			
	NO. 2	29-16	13-3/8	90	80	Surface		5-1/2	4939	300	3277	E			
GULF LEA ST. "AP"	NO. 3	30- 8	8-5/8	143	100	Surface		4-1/2	5075	250	3597	E			1875-1825
	NO. 1	30-16	8-5/8	137	100	Surface		4-1/2	4981	250	4085	E			1924-1874
CACTUS AZTEC ST.	NO. 2	31- 2	13-3/8	107	100	Surface		7	4832	125	3273	E			
	NO. 6	31- 6	13-3/8	108	90	Surface		7	4714	150	2843	E			
	NO. 4	31- 8	13-3/8	102	100	Surface		7	4874	150	3003	E			
	NO. 7	31-10	13-3/8	105	100	Surface		5-1/2	4714	150	3300	E			
GULF LEA ST. "AQ"	NO. 2	32- 2	8-5/8	108	60	Surface		4-1/2	4959	250	4063	E			1895-1845
	NO. 4	32- 4	8-5/8	101	100	Surface		4-1/2	4948	250	4052	E			1935-1885
	NO. 5	32- 6	8-5/8	130	100	Surface		4-1/2	4936	250	4040	E			1920-1870
	NO. 7	32- 8	8-5/8	145	100	Surface		4-1/2	4979	250	4081	E			1909-1859
PHILLIPS NEW MEX. "C"	NO. 1	32-10	8-5/8	144	145	Surface		5-1/2	5060	300	3293	E			
GULF LEA ST. "BG"	NO. 3	33- 2	8-5/8	327	300	Surface		4-1/2	4932	1850	465	S			
	NO. 1	33- 4	8-5/8	349	300	Surface		4-1/2	4969	1800	415	S			
	NO. 6	33- 6	8-5/8	146	100	Surface		4-1/2	4965	250	3487	E			1882-1833
	NO. 8	33- 8	8-5/8	141	100	Surface		4-1/2	5005	250	3527	E			1896-1846
GULF LEA ST. "AR"	NO. 4	33-10	8-5/8	140	100	Surface		4-1/2	5011	250	3533	E			1865-1815

* E - Estimated
Two-stage cementing tool set at lower depth and 50 sacks cement spotted at top of salt and anhydrite section.
S - Temperature Survey

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WEST PEARL, QUEEN UNIT
LEA COUNTY, NEW MEXICO

SECTION II
TUBING, PACKERS AND PERFORATIONS

INJECTION WELL	UNIT DESIG- NATION	GROSS PERF. AND/OR OPEN HOLE INTERVALS	UPPER INJECTION INTERVAL		PACKER TYPE	DEPTH	GROSS PERF. AND/OR OPEN HOLE INTERVALS	LOWER INJECTION INTERVAL		PACKER TYPE	DEPTH
			TUBING SIZE (OD)	DEPTH				TUBING SIZE (OD)	DEPTH		
HANON ST. E-8182	NO.3 NO.4	4762-4772 4700-4710	1.660 1.660	4700 4650	RD W/HH RD W/HH	4700 4650	4880-4910 4814-4895	1.660 1.660	4850 4750	Permanent Permanent	4850 4750
CABOT ST. NEW MEX. "G"	NO.5 NO.1 NO.4 NO.7	4710-4720 4733-4747 4774-4786 4726-4735	2.063 2.063 2.063 1.660	4650 4700 4725 4675	RD W/HH RD W/HH RD W/HH RD W/HH	4650 4700 4725 4675	4826-4910 4850-4946 4854-4949 4842-4851	2.063 2.063 2.063 1.660	4775 4800 4825 4800	Permanent Permanent Permanent Permanent	4775 4800 4825 4800
INNAN SUPERIOR-FED.	NO.2	4814-4820	1.660	4775	RD W/HH	4775	4934-5008	1.660	4900	Permanent	4900
SHELL STATE "PK"	NO.2	4870-4880	2.063	4825	RD W/HH	4825	5026-5054	2.063	4950	Permanent	4950
CACTUS PARKS	NO.1	4810-4820	2.375	4750	RD W/HH	4750	4932-5030	2.375	4875	Permanent	4875
SKELLY HOBBS "J" ST.	NO.1	4770-4785	2.063	4725	RD W/HH	4725	4898-5000	2.063	4850	Permanent	4850
GULF LEA STATE "IH"	NO.1 NO.4	4782-4790 4819-4821	1.660 1.660	4750 4775	RD W/HH RD W/HH	4750 4775	4914-5000 4957-5050	1.660 1.660	4850 4900	Permanent Permanent	4850 4900
CACTUS GULF ST. "A"	NO.4 NO.2	4775-4790 4746-4761	2.063 2.063	4725 4700	RD W/HH RD W/HH	4725 4700	4910-4993 4888-4962	2.063 2.063	4850 4825	Permanent Permanent	4850 4825
GULF LEA STATE "AP"	NO.3 NO.1	4848-4850 4803-4805	1.660 1.660	4800 4750	RD W/HH RD W/HH	4800 4750	4927-5037 4947-5060	1.660 1.660	4900 4900	Permanent Permanent	4900 4900
CACTUS AZTEC ST.	NO.2 NO.6 NO.4 NO.7	4790-4800 4714-4900 4784-4790 4767-4772	2.375 2.375 2.375 2.375	4750 4700 4750 4700	RD W/HH RS Tension RD W/HH RD W/HH	4750 4700 4750 4700	4835-5030 Commingle 4877-4930 4880-4997	2.375 2.375 2.375 2.375	4825 4825 4825 4825	Permanent Permanent Permanent Permanent	4825 4825 4825 4825
GULF LEA-STATE "AQ"	NO.2 NO.4 NO.5 NO.7	4774-4776 4785-4787 4786-4788 4802-4804	1.660 1.660 1.660 1.660	4725 4725 4725 4750	RD W/HH RD W/HH RD W/HH RD W/HH	4725 4725 4725 4750	4924-5015 4929-5020 4884-5025 4949-5040	1.660 1.660 1.660 1.660	4850 4850 4825 4875	Permanent Permanent Permanent Permanent	4850 4850 4825 4875
PHILLIPS NEW MEX. "C"	NO.1	4790-4806	2.063	4750	RD W/HH	4750	4898-5022	2.063	4850	Permanent	4850
GULF LEA ST. "BG"	NO.3 NO.1 NO.6 NO.8	4737-4741 4773-4785 4767-4782 4750-4752	1.660 1.660 1.660 1.660	4700 4725 4700 4700	RD W/HH RD W/HH RD W/HH RD W/HH	4700 4725 4700 4700	4881-4975 4920-5010 4927-5020 4890-4962	1.660 1.660 1.660 1.660	4800 4850 4850 4800	Permanent Permanent Permanent Permanent	4800 4850 4850 4800
GULF LEA ST. "AR"	NO.4	4776-4778	1.660	4725	RD W/HH	4725	4876-4998	1.660	4825	Permanent	4825

RD W/HH - Retrievable Dual with Hydraulic Hold-down Similar to Baker Model "K"
RS Tension - Retrievable Single Tension Type Packer Similar to Baker Model "AB"
Permanent - Drillable Packer Similar to Baker Model "N" (Tubing Set)