

ODESSA, TEXAS 79762 4001 PENBROOK

NATURAL RESOURCES GROUP Exploration and Production

April 30, 1980

Conversion to Water Injection Service--East Vacuum Grayburg-San Andres Unit Tract No. 2271, Well No. 003 Vacuum Grayburg-San Andres Pool Lea County, New Mexico

New Mexico Department of Energy and Minerals (3) Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey Division Director

Gentlemen:

We respectfully request administrative approval as provided by Order No. R5897, Rule No. 9, for the East Vacuum Unit pressure maintenance project, to convert the East Vacuum Grayburg-San Andres Unit, Tract 2271, Well No. 003, to water injection service. The following data is submitted in support of this request:

- 1. Unit plat reflecting the proposed injection well and injection well project area. (Well: Unit 0, 22, 17-S, 35-E.)
- 2. Borehole compensated sonic log of the injection well.
- 3. Diagrammatic sketch of the proposed well, injection tubing, packer, and pressure control elements identifying the San Andres perforated injection interval.
- 4. The name of the injection formation is San Andres with injection to be into the interval 4412 to 4715 feet. Injection will be by gravity with an anticipated maximum of 500 barrels of produced Grayburg-San Andres water per day.

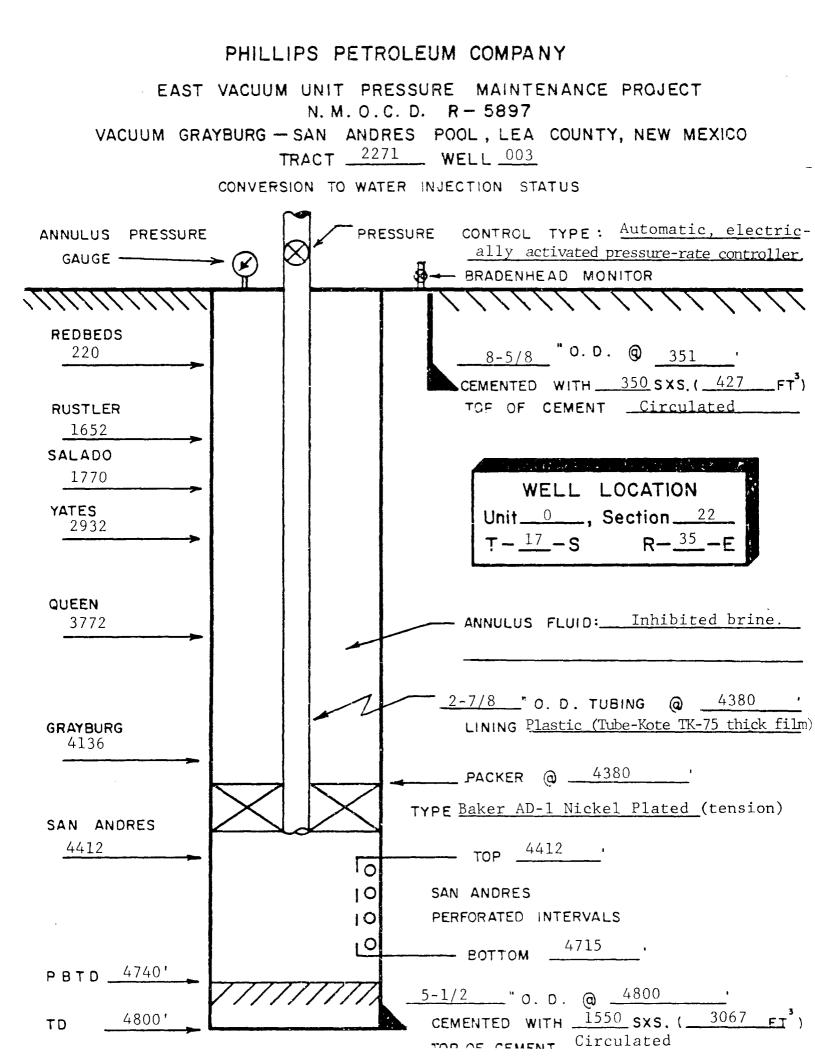
Your consideration and early advice will be appreciated.

Very truly yours,

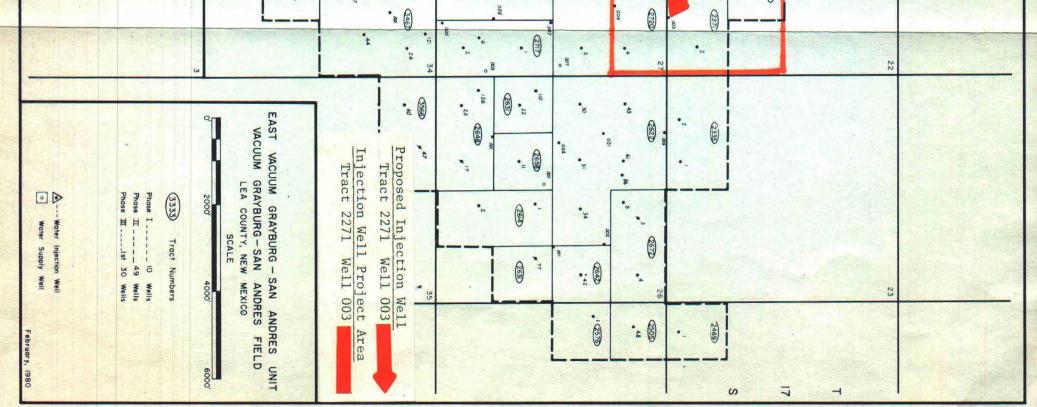
T. Harold McLemore Area Regulation and Proration Analyst

THM/jj Attachments

cc: Oil Conservation Division Hobbs, New Mexico (Attachments w/o BHC log)



		And the second se		
*** S	. SI	× + + + + + + + + + + + + + + + + + + +	S	
	.52 .56 .57 .57 .77 .77 .77 .72 .77 .72 .73 .72 .73	• " • " • "	· · · · · · · · · · · · · · · · · · ·	* ₹ •~ 7
т	. 57 . 57 . 77 . 72 . 72 . 73 . 74 . 75 . 89 . 89	25 - 27 - 27 - 28 - 42		R-34-E
• 98 (1.97 • 105 • 112	54 . 25 84 . 26 84 84 84 84 84 88	3	*- •- ® *- ®	•- <mark>829</mark>
11. 0 111. 0	• 39 • 39 • 00017 • 00000 • 000000 • 00000 • 00000 • 00000 • 00000 • 00000 • 00000 • 00000 • 0	° 4 ° 5 ° 6 ° 4	·	
011 - COL 0 500 - COL 0 80 - S	· · · · · · · · · · · · · · · · · · ·	*** *** ***	·_@ ·-@ @	
601 • 901 ° 601 • 901 ° 56 • 101 °		° 7 • 16 • 16 • 17 • 17 • 17 • 17 • 17 • 17 • 17 • 17		
	· · · ·	•- •- @ • @ •	·- · · · · ·	
001 • * *	005 006 005 006 005 005 005 005 005 005	2 2 2 2 2 2 2 2 2 2 2 2 2 2	· · · ·	
	⁰ ¹ ²	· 2	• • •	
a (54) a (54) a (54)	• 003 • 5 • 003 • 5 • 000 • 6 • 001 • 010 • 001 • 010	8 • • • • • • • • • • • • • • • • • • •		
. 39		Server store		
().5 ×6 R-35-E	• 003 • 03 • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2	- 13 - 13 - 13 - 13	•_ •	R 35 E
 @3		R A	• • • •	
	• 004 000 33	280	B •	
	••••••••••••••••••••••••••••••••••••••	· · · · · · · · · · · · · · · · · · ·	·- · · ·	
	• · · · · · · · · · · · · · · · · · · ·			
		• z • J • J • J • J • J • J • J • J • J	· · ·	





ODESSA. TEXAS 79762 4001 PENBROOK

NATURAL RESOURCES GROUP Exploration and Production April 30, 1980

والتحمير والم

Conversion to Water Injection Service--East Vacuum Grayburg-San Andres Unit Tract No. 2941, Well No. 001 Vacuum Grayburg-San Andres Pool Lea County, New Mexico

New Mexico Department of Energy and Minerals (3) Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey Division Director

Gentlemen:

We respectfully request administrative approval as provided by Order No. R5897, Rule No. 9, for the East Vacuum Unit pressure maintenance project, to convert the East Vacuum Grayburg-San Andres Unit, Tract 2941, Well No. 001, to water injection service. The following data is submitted in support of this request:

- 1. Unit plat reflecting the proposed injection well and injection well project area. (Well: Unit K, 29, 17-S, 35-E.)
- 2. Borehole compensated sonic log of the injection well.
- 3. Diagrammatic sketch of the proposed well, injection tubing, packer, and pressure control elements identifying the San Andres perforated injection interval.
- 4. The name of the injection formation is San Andres with injection to be into the interval 4460 to 4700 feet. Injection will be by gravity with an anticipated maximum of 500 barrels of produced Grayburg-San Andres water per day.

Your consideration and early advice will be appreciated.

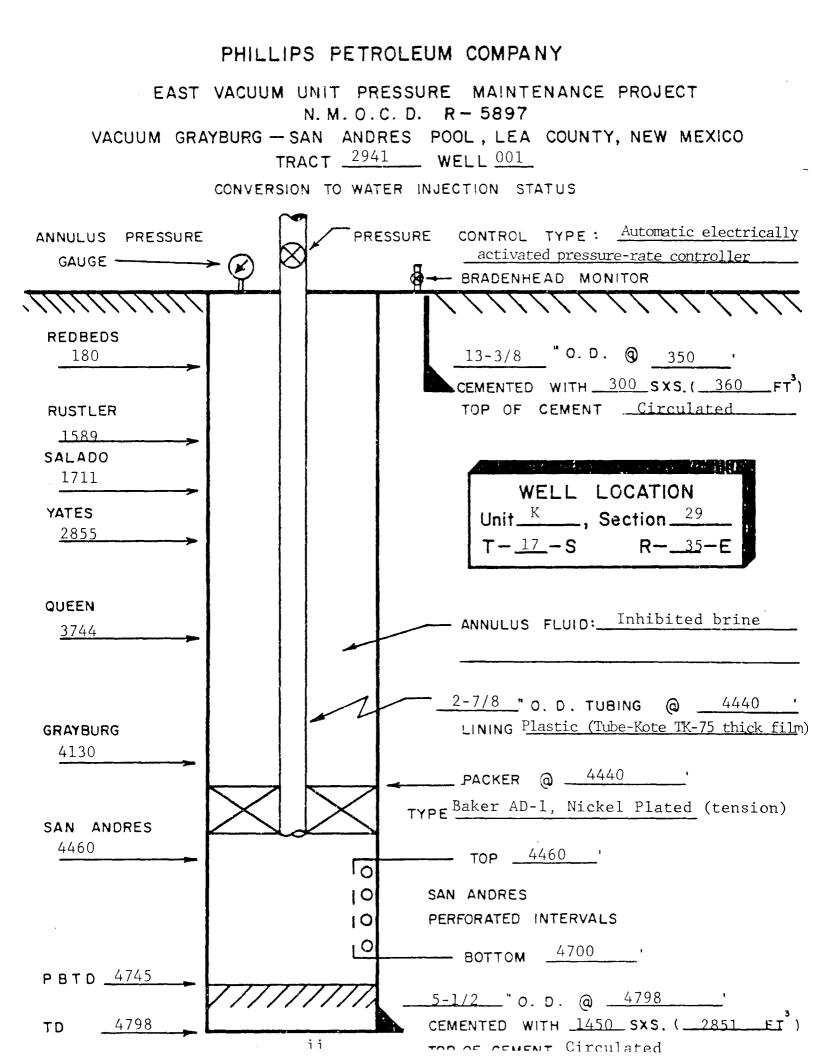
Very truly yours,

Marold McLemore

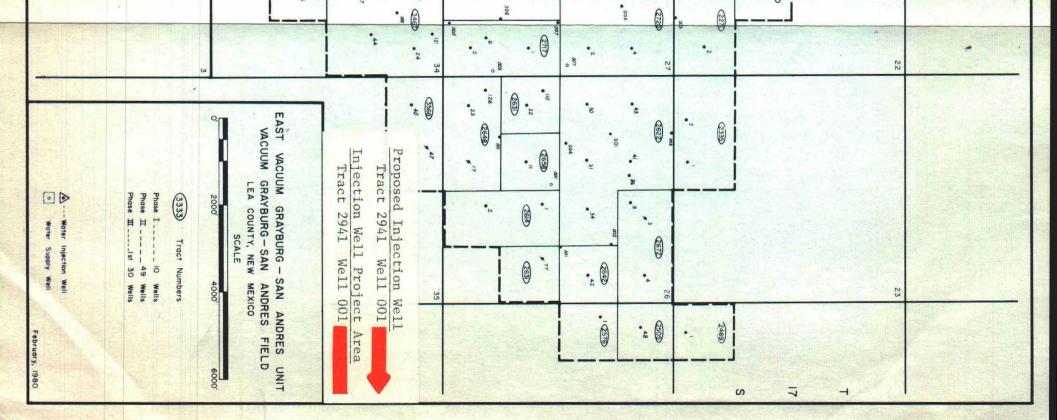
Area Regulation and Proration Analyst

THM/jj Attachments

cc: Oil Conservation Division Hobbs, New Mexico (Attachments w/o BHC log)



								S. C.Can	4					a Alan			- 4
	z S	18.4	г		• 79	TEXACO	• 53		• 2	3u +	Z	• 22	S ****	Т •	Di-14		
R-34-E	.34	• *2	** **	×.		CENTRAL e	• 52 • 52	. 37	.22	•*	• *		. [243]	**		*2	•~ 刀
		•43	2	86 68		PAL .66	- <u>5</u> 7 - <u>5</u> 1 - <u>5</u> 1	42 • 36	. zı		25 **/7	- (24)8	246	• N	24		R-34-E
	- 112 °			.88	84 *	VACUUM	58 58	• 35		•=	•••		2 ×	•_ 🗑	(Tere) - +	•_ (83)	• 6
•	• 111	. 104	. 99	88 E	• K	· UNIT	• 4 9	* *	. 29	° °	• • • • • •	•	606		× 2	•	
	o 107 o	• 103	° 8		•-	•63	es • 48	. 33 . (32	ۍږ ه/ه	°.G. +		•_ 🗐	•- (j)	(33)			
8	601 .	. 102	• 101 • 35	•	(JIZ) • 2	•	el .47		• • • •	•	36 Mining	. s	2.	• %	ei		
	•	• 3	05	• • •			·~ @	•	•- 🕃	~		•	<u>م</u> وری	203) *-	2073		
	-1	. 129 . 45 . 118	- 34 (0523)	005 0	. 000 . 001 .	.005	• • •	-200 -200	294) 294) 26	- (B)	. 2232.3 - 54	• 53	- ez	 [3]			
		.8		°	• 1	• 5	°	•-	•~	- 52 - 52	(294A)	••••	2060 	2005 - 2			
	i	•	4	••••	•	- 5 1	32 • • •	• 45 • 45	. 007	• \$	62 69 63	1.			20		
			. 12.4 . 39		- - -	3365 2365	•_	° 02 • 8		E	•13 (384) • «	· *					
R-35-E			.15 , 46	• 3345	(<u>3</u> 373) - 28	• 2	ورون دور دور دور دور دور دور دور دور دور دور	• •	• • • • • •	2005 * 37 * 2	• 002 • 12		•				R - 35 - E
, in			 (433)		•2	800 • 3	.32	• 10	To	•	•		· 84				
			4	•		• 004 006 o	3332 00/ 002 33 2 2 1		. oos . 3	• 22	، ۶۹ م 82	(2150) 9	·-		21		
				•		U	· 2 (3455)	• •		• 3		•-	• 5				
				• 10	(344) • 2	• 007 • 4 000	105	•		-2 -2	2733 • •	• 2 • 2	205				
					•12	• 27	•	N	α • •		•		•-				





ODESSA. TEXAS 79762 4001 PENBROOK

NATURAL RESOURCES GROUP Exploration and Production

April 30, 1980

Conversion to Water Injection Service--East Vacuum Grayburg-San Andres Unit Tract No. 2622, Well No. 003 Vacuum Grayburg-San Andres Pool Lea County, New Mexico

New Mexico Department of Energy and Minerals (3) Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey Division Director

We respectfully request administrative approval as provided by Order No. R5897, Rule No. 9, for the East Vacuum Unit pressure maintenance project, to convert the East Vacuum Grayburg-San Andres Unit, Tract 2622, Well No. 003, to water injection service. The following data is submitted in support of this request:

- 1. Unit plat reflecting the proposed injection well and injection well project area. (Well: Unit D, 26, 17-S, 35-E.)
- 2. Borehole compensated sonic log of the injection well.
- 3. Diagrammatic sketch of the proposed well, injection tubing, packer, and pressure control elements identifying the San Andres perforated injection interval.
- 4. The name of the injection formation is San Andres with injection to be into the interval 4360 to 4694 feet. Injection will be by gravity with an anticipated maximum of 500 barrels of produced Grayburg-San Andres water per day.

Your consideration and early advice will be appreciated.

Very truly yours,

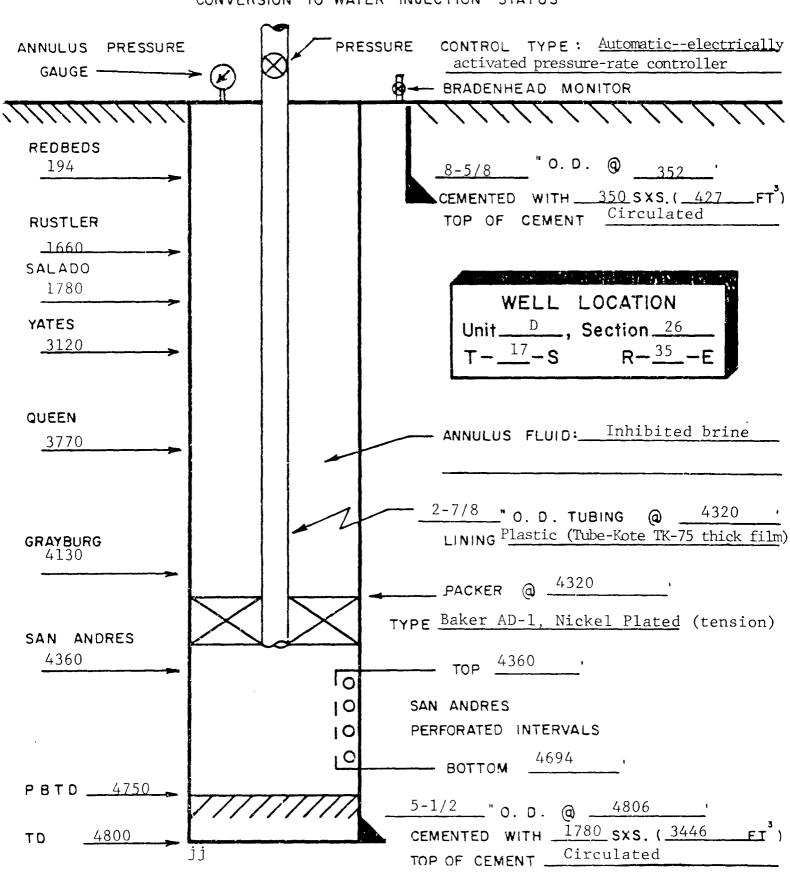
T. Harold McLemore Area Regulation and Proration Analyst

THM/jj Attachments

cc: Oil Conservation Division Hobbs, New Mexico (Attachments w/o BHC log)

EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT N. M. O. C. D. R - 5897 VACUUM GRAYBURG - SAN ANDRES POOL, LEA COUNTY, NEW MEXICO TRACT <u>2622</u> WELL <u>003</u>

CONVERSION TO WATER INJECTION STATUS



ſ	S	0	5	- 2	· •			TEXACO						T	S	7 7			- Aydawi
	•× •	*	÷	. 56	.91	• 73 0 82	• *	400.56	R		· 23	176 *	**	22	¥.47	ä			
	. <i>п</i> R-34-Е		•*	.9		• *	•	CENTRAL	• 52	. 37		*	*		·- (43)				י _∼ ק
	• 28	35	•43	8	951 111111	83 • 77	57 - 66	ST AL	• 36	42 - 36	. E1	•12	w.7	- (48	•_ (246)	•N	24		R-34-E
	.112	35		- SALLING	. 88	. 76	2	VACUUM	e.	43 °35		•=		•	* 2 2	•_ (36)	*- 979	•- (83)	• 6 6
	• IEI • EI	106	104	• 99	81 87	° 85 • 75	¥. *	. 59 UNIT	. 49	4	. 23	° *	• 5	•-	(90E)	(356)	2 *	• 👜	
	• • • • • • • • • • • • • • • • • • • •	0 107	. <i>103</i>	° %	2 2 8		immer	8	•**	.45 .33	° 36 • 18	• i5.	°.	•_ @	 000	(953)			
	e or •	0 108	. 102	• <i>101</i>	••••	·2		• 61	. 47	32 - 46	۲	°ñ *	• •		36	• 56			
	- @ ·		•.3	•		•	<u>.</u>		.~		•- @	~ @		•	(<u>205</u> 3)				
	L		. 129 . 45	600 **	**	• 005 • 600 • 5	006 007	.005	• 3	- 004 - 2	2003	· - @	(2923)	• 53	82				
				, 123 	· · · · · · · · · · · · · · · · · · ·	° • ī	•	0 ⁸	33 *2		•N	• 52	0	•	2000 	•2			
			•=	, 119 34 27 0546	• • •	• 4	.000 011 0	•••	•, .	900 \$	200 • •	(E94) . %	(B44)						
				ۍ نړ				3360	•_	с. • 68	Your and the second sec	and the second s	29 13 13 13	• 2			20		
A Martin	R-35-E			, 15 , 46 (PAG)	•	· 28		••••	e •~ •	., ₽	PS EAST				•				R - 35 - E
	, The second sec			•- (43)		89 87 11 12 3	 	° #	• 32	° 5		•	•_@	•	• 84 84				m
						•	006	. 004	32 32 32 32 32 33 33 33 33		." . ³ VACUUM UNI	•	- + (B)	8 • <u>,</u> (2150	×_ (20)				
				4			× 3	0	• N	0	3	•	•_		• 5		<u>1</u>		
						. 005 . 2	4		3455 005	· 20 (212)	2733	• 2 • 007	• • •	(23) s	200				
						· · ·	000 0 12	° 83	. IS	•2	002 • 3	•-		• 2	•-				
						100			A		900	1.1	° A	R				120727 253	

