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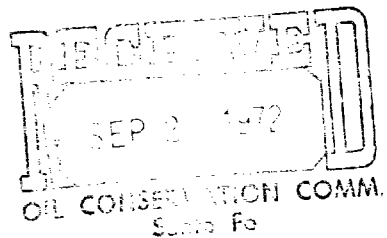
GENERAL OFFICE
P. O. BOX 9317
FORT WORTH, TEXAS 76107

A N A D A R K O P R O D U C T I O N C O M P A N Y

TWO GREENWAY PLAZA EAST, SUITE 410, HOUSTON, TEXAS 77046, (713) 626-7610

September 18, 1972

State of New Mexico
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501



RE: Langlie-Mattix Penrose Sand Unit
Langlie-Mattix Oil Pool
Lea County, New Mexico

Gentlemen:

Anadarko Production Company, as Unit Operator of the Langlie-Mattix Penrose Sand Unit, Langlie-Mattix Oil Pool, Lea County, New Mexico, hereby requests administrative approval, as previously authorized by OCC Order No. R-3247, to expand Unit waterflood development under the provisions of OCC Rule 701-E-5.

The proposed expansion of the waterflood development on the reference Unit includes the conversion of three (3) Unit wells to water injection. These three (3) wells are listed on the attached Table I with well location and pertinent well data.

The OCC Rule 701-E-5 requirement of the showing of oil production response to water injection operations prior to expansion of waterflood development was waived by OCC Order No. ~~R-3247~~ R-3247.

Expansion of waterflood development under OCC Rule 701-E-5 also requires that the application be made in accordance with OCC Rule 701-B. In accordance with OCC Rule 701-B, the following data and information is enclosed:

- (1) Plat of Unit Area showing location of proposed water injection wells.
- (2) Well bore diagram of Langlie-Mattix Penrose Sand Unit No. 7-3 showing well's total depth, open hole producing intervals, casing and cementing program, proposed tubing and packer setting, and type and quantity of water to be injected. This well has been selected as typical of the three (3) existing Unit producing wells proposed for conversion to water injection.

- (3) Driller's log of Langlie-Mattix Penrose Sand Unit
Well No. 7-3 (no electrical surveys available).

This proposed expansion will complete waterflood development on the Unit for the secondary recovery of oil from the Penrose Sand reservoir.

Your approval at your earliest convenience will be appreciated.

Very truly yours,

ANADARKO PRODUCTION COMPANY


J. L. Hamilton *by Cs*
Division Production Engineer

JLH/CWS/yim

Encl.

cc: USGS-Roswell
New Mexico Commission of Public Lands
Offset Operators - Gulf Oil Corp.
Continental Oil Co.

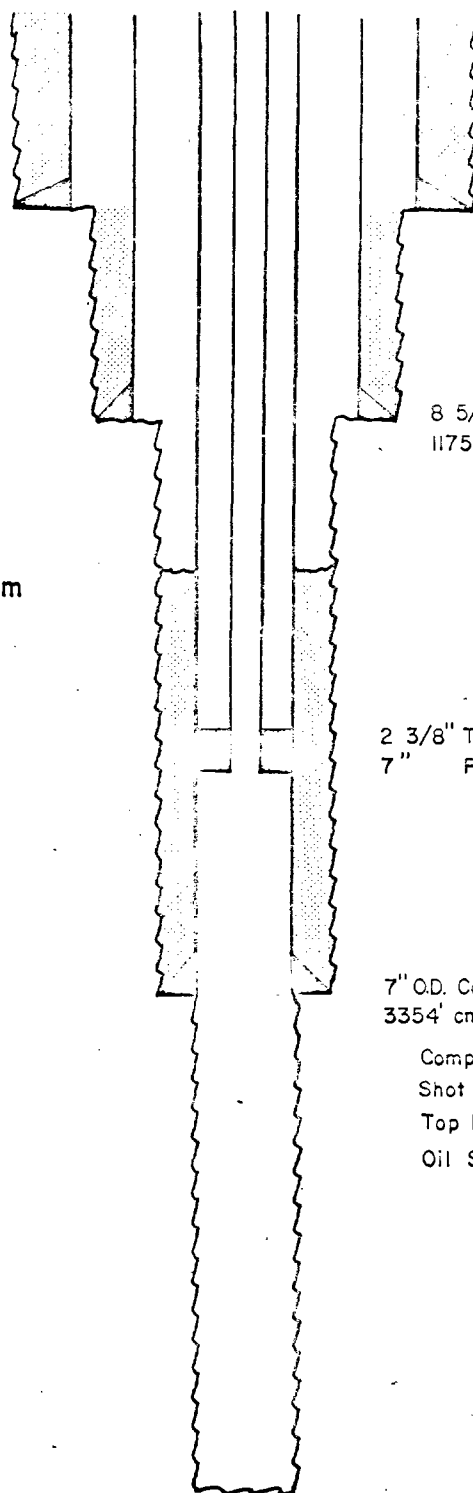
Table I
 Langlie-Mattix Penrose Sand Unit
 Langlie-Mattix Oil Pool
 Lea County, New Mexico
 Well Location and Data
Expansion Water Injection Wells

Location T22S, R37E	SURFACE			Casing Record			LONG STRING		Total Depth Feet	Open Hole Interval	Packer set @
	Size(in.)	Depth (ft.)		Cement(sx)	Size(in.)		Depth(ft.)	Cement(sx)			
660' SNL, 1980' WEL Section 22	8-5/8" OD	1125'		150	7" OD		3383'	250	3688'	3383'-3688'	3335'
660' SNL, 660' EWL Section 22	16" OD	198'		60	7" OD		3400'	400	3712'	3400'-3712'	3337'
	8-5/8" OD	1168'(top 200' pulled)		Unknown							
660' SNL, 1980' WEL Section 21	8-5/8" OD	1175'		100	7" OD		3354'	100	3615'	3354'-3615'	3302'

Proposed Injection Rate:
500 B/D

Injection Water Source:
Nonpotable water purchased from
Skelly Oil Company's Jal Water
System

WELL LOCATION
L. M. P. S. U. 7-3
660' SNL & 1980' WEL
Sec. 21, T-22-S, R-37-E
Lea Co., New Mexico



13 3/8" O.D. Casing at
240' cmt. w/250 sks.

8 5/8" O.D. Casing at
1175' cmt. w/100 sks.

2 3/8" Tubing at 3300'
7" Packer at 3302'

7" O.D. Casing at
3354' cmt. w/100 sks.

Completed in open hole 3354'-3615'
Shot w/300 qts. Nitro 3530'-3615'
Top Pay 3500'

Oil Sand 3500'-3607' - PENROSE SAND

ANADARKO PRODUCTION COMPANY

WELL BORE DIAGRAM

LANGLIE MATTIX PENROSE SAND UNIT

WELL NO. 7-3

LEA COUNTY, NEW MEXICO

DRILLERS LOG

Langlie-Mattix Penrose Sand Unit Well No. 7-3

660' SNL, 1980' WEL

Section 21, T22S, R37E, Lea County, New Mexico

FROM	TO	THICKNESS IN FEET	FORMATION
100	100	40	Shale
100	105	5	Sand
105	107	2	Sand (bottom)
107	114	7	Shale
114	120	6	Sandy Shale
120	126	6	Sand
126	128	2	Shale
128	135	7	Sandy Shale
135	140	5	Sand
140	145	5	Sandy Shale
145	150	5	Red Rock
150	155	5	Red Rock & Red Rock
155	160	5	Shale & Red Rock
160	165	5	Sandy Shale
165	170	5	Red Rock
170	175	5	Sand
175	180	5	Red Rock & Shells
180	185	5	Sandy Shale
185	190	5	Red Rock
190	195	5	Sandy Shale
195	200	5	Red Rock
200	205	5	Anhydrite
205	210	5	Salt
210	215	5	Anhydrite
215	220	5	Red Rock
220	225	5	Red Rock & Anhydrite
225	230	5	Salt & Red Rock
230	235	5	Salt & Anhydrite
235	240	5	Anhydrite
240	245	5	Salt
245	250	5	Salt & Anhydrite
250	255	5	Salt & Potash
255	260	5	Salt
260	265	5	Anhydrite & Potash
265	270	5	Salt & Anhydrite
270	275	5	Salt
275	280	5	Anhydrite & Potash
280	285	5	Salt
285	290	5	Salt & Anhydrite
290	295	5	Salt
295	300	5	Salt & Anhydrite
300	305	5	Anhydrite & Potash
305	310	5	Salt
310	315	5	Anhydrite
315	320	5	Salt
320	325	5	Salt & Anhydrite
325	330	5	Salt, Potash & Anhydrite
330	335	5	Salt & Potash
335	340	5	Salt & Anhydrite
340	345	5	Salt
345	350	5	Salt & Anhydrite
350	355	5	Salt
355	360	5	Anhydrite
360	365	5	Salt
365	370	5	Salt & Anhydrite
370	375	5	Salt, Potash & Anhydrite
375	380	5	Salt & Potash
380	385	5	Salt & Anhydrite
385	390	5	Salt
390	395	5	Salt & Anhydrite
395	400	5	Salt
400	405	5	Anhydrite
405	410	5	Salt
410	415	5	Anhydrite & Lime
415	420	5	Lime
420	425	5	Anhydrite
425	430	5	Lime
430	435	5	Brown Lime & Anhydrite
435	440	5	Anhydrite
440	445	5	Brown Lime & Anhydrite
445	450	5	Lime
450	455	5	Brown Lime & Anhydrite
455	460	5	Lime
460	465	5	Lime & Anhydrite
465	470	5	Brown Lime
470	475	5	Lime & Shale
475	480	5	Lime & Anhydrite
480	485	5	Lime
485	490	5	Lime & Anhydrite
490	495	5	Brown Lime
495	500	5	Brown Lime

Langlie-Mattix Penrose Sand Unit Well No. 7-3
660' SNL, 1980' WEL
Section 21, T22S, R37E, Lea County, New Mexico

FROM	TO	THICKNESS IN FEET	FORMATION
100	100	40	Shale
100	100	35	Sand
100	100	32	Sand (water)
100	100	7	Shale
100	100	8	Sandy shale
100	100	30	Sand
100	100	20	Shale
100	100	25	Sandy shale
100	100	10	Sand
100	100	50	Sandy shale
100	100	55	Red rock
100	100	200	Red rock & Red rock
100	100	200	Shale & Red rock
100	100	200	Sandy shale
100	100	70	Red rock
100	100	40	Sand
100	100	50	Red rock & Shells
100	100	10	Sandy shale
100	100	20	Red rock
100	100	100	Sandy shale
100	100	100	Red rock
100	100	110	Anhydrite
100	100	10	Salt
100	100	5	Anhydrite
100	100	30	Red rock
100	100	60	Red rock & Anhydrite
100	100	65	Salt & Red rock
100	100	25	Salt & Anhydrite
100	100	25	Anhydrite
100	100	65	Salt
100	100	45	Salt & Anhydrite
100	100	35	Salt & Potash
100	100	15	Salt
100	100	100	Anhydrite & Potash
100	100	30	Salt & Anhydrite
100	100	10	Salt
100	100	10	Anhydrite & Potash
100	100	10	Salt
100	100	100	Salt & Anhydrite
100	100	30	Salt
100	100	30	Salt & Anhydrite
100	100	30	Anhydrite & Potash
100	100	30	Salt
100	100	30	Anhydrite
100	100	30	Salt & Anhydrite
100	100	30	Salt, Potash & Anhydrite
100	100	30	Salt & Potash
100	100	30	Salt & Anhydrite
100	100	40	Salt
100	100	60	Salt & Anhydrite
100	100	15	Salt
100	100	200	Anhydrite
100	100	25	Anhydrite & Lime
100	100	30	Lime
100	100	65	Anhydrite
100	100	40	Lime
100	100	30	Brown lime & Anhydrite
100	100	50	Anhydrite
100	100	35	Brown lime & Anhydrite
100	100	15	Lime
100	100	40	Brown lime & Anhydrite
100	100	45	Lime
100	100	25	Lime & Anhydrite
100	100	60	Brown lime
100	100	10	Lime & Shale
100	100	50	Lime & Anhydrite
100	100	10	Lime
100	100	170	Lime & Anhydrite
100	100	111	Brown lime
100	100	54	Gray lime
100	100	15	Shale
100	100	11	Lime (Gray)
100	100	2	Sandy lime (Show Oil)
100	100	7	Lime (Gray)
100	100	4	Lime (Gray)
100	100	20	Sandy lime (Show Oil)
100	100	11	Lime (Gray)
100	100	7	Sandy lime
100	100	8	Lime
100	100		Total Depth.