

ANADARKO PRODUCTION COMPANY

3109 WINTHROP AVENUE P. O. BOX 9317 FORT WORTH, TEXAS 76107

CABLE ADDRESS: ANDARK

October 22, 1968

SWD-79
line 1128

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

Attention: Mr. A.L. Porter, Jr.

RE: Application of Anadarko Production
Company for Salt Water Disposal
Well, Penrose-Skelly Field, Lea
County, New Mexico

Gentlemen:

As required by Commission Order R-3221 and under the provisions of Rule 701-C of the Rules and Regulations of the Commission, Anadarko Production Company respectfully requests administrative approval to dispose of produced salt water from its Penrose-Skelly Field leases into the San Andres formation as found in a shut-in producing well, Anadarko's E.W. Walden Well No. 4 located 1980 feet from South line and 1980 feet from West line of Section 15, T22S, R37E, Lea County, that is to be deepened to the proposed disposal zone.

To support this application, we are submitting in triplicate a completed Commission Form C-108, Application to Dispose of Salt Water by Injection into a Porous Formation, along with the following data as required under Rule 701-B.

- (1) A plat showing the location of the proposed salt water disposal well and the location of all other wells within a radius of two miles as required by Rule 701-B-1.
- (2) Driller's Log of the subject well as required by Rule 701-B-2. After deepening the proposed SWD well to the proposed disposal zone, an electric log will be run and furnished to you.

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- (3) A diagrammatic sketch of the proposed SWD well as required by Rule 701-B-3.

A copy of this application has been furnished to the surface owner of the land on which the proposed SWD well is located and offset operators to the subject well as listed on the Form C-108.

Respectfully submitted,

ANADARKO PRODUCTION COMPANY



C.W. Stumhoffer
Superintendent
Secondary Recovery Division

CWS/nl
Encl:

NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Anadarko Production Company		ADDRESS P.O. Box 9317, Fort Worth, Texas 76107	
LEASE NAME E.W. Walden	WELL NO. 4-SWD	FIELD Well is presently a S.I. Penrose-Skelly Field Well -	COUNTY Lea
LOCATION E.W. Walden Well No. 4			
UNIT LETTER K	WELL IS LOCATED 1980	FEET FROM THE South	LINE AND 1980
West	LINE, SECTION 15	TOWNSHIP 22S	RANGE 37E
NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	12 5/8" OD	235'	Well drilled by J.C. Clower during August, 1937-		No cementing record available.
INTERMEDIATE	8 5/8" OD	1225'	"	"	"
LONG STRING	7 " OD	3482'	"	"	"
Liner	5 1/2" OD	3300'-4200'	To be cemented from top to bottom after deepening		
TUBING	2 7/8" OD		Johnston 101-S @ approximately 3400'.		
NAME OF PROPOSED INJECTION FORMATION San Andres			TOP OF FORMATION 3900' (estimated)	BOTTOM OF FORMATION 4800' (estimated)	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Open Hole	PROPOSED INTERVAL(S) OF INJECTION 4200'-4800'		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No-To be deepened for SWD.		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Production		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No perfs - open	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH This well is temporarily abandoned oil well that was completed for production during August, 1937 from open hole 3482'-3703'. This zone will be cemented behind line hole 3482'-3703' after deepening.					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 775'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA Approx. 3900' Grayburg		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA Approx. 5500' Blinberry	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 600	MINIMUM 2000	MAXIMUM Closed	OPEN OR CLOSED TYPE SYSTEM Gravity	IS INJECTION TO BE BY GRAVITY OR PRESSURE? 0	APPROX. PRESSURE (PSI) 0
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - Yes		WATER TO BE DISPOSED OF Yes		NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? No
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) W.P. Sims, P.O. Box 496, Eunice, New Mexico 88231					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
Gulf Oil Corporation, P.O. Drawer 1938, Roswell, New Mexico 88201					
Amerada Petroleum Corporation, Box 312, Midland, Texas 79701					
Continental Oil Company, Box 460, Hobbs, New Mexico 88240					
Texas Pacific Oil Company, Box 4067, Midland, Texas 79701					
Carter Foundation Production Company, Box 900, Kermit, Texas 79745					
Marathon Oil Company, Box 220, Hobbs, New Mexico 88240					
Two States Oil Company, Box 176, Eunice, New Mexico 88231					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER Yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes		THE NEW MEXICO STATE ENGINEER Yes
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)	PLAT OF AREA Yes		ELECTRICAL LOG None available @ present time-will submit after deepening.		DIAGRAMMATIC SKETCH OF WELL Yes

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

C.W. Stumbhoffer

(Signature)

Superintendent

Secondary Recovery Division

(Title)

October 22, 1968

(Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

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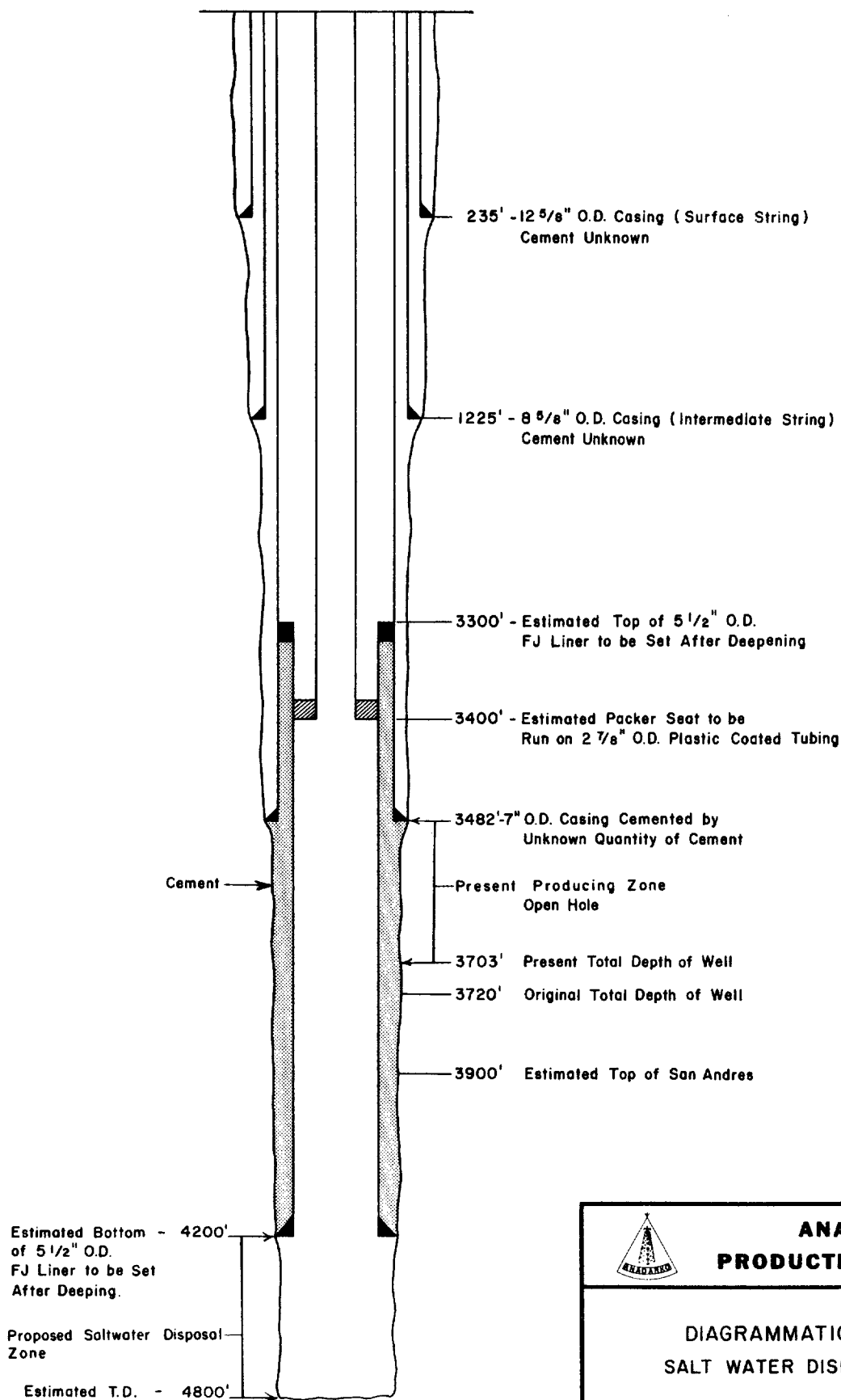
SALT WATER DISPOSAL WELL
E. W. WALDEN NO.4 SWD
NE/4 SW/4 SEC 15,T-22-S,R-37-E
LEA COUNTY, NEW MEXICO

Scale 1" = 4000'

RECORD OF FORMATIONS

FORMATION	TOP	BOTTOM	REMARKS
			Indicate Casing Points, Describe Shows of Oil, Gas and Water, Etc.
Caliche	0	10	T D 3703. Well was plugged back from 3720. According to available records only 42' of the formation was shot as records show there is 179' between the bottom of the pipe and the top of the shot.
Sand	10	95	
Red rock	95	145	
Sand	145	160	
Shale & Red rock	160	750	
Water Sand	750	775	
Shale s	775	1055	
Anhydrite	1055	1260	
Salt Section	1260	2395	
Anhydrite & Lime	2395	3355	
Lime	3355	3895	
Grey Lime	3395	3472	
Gas Sand	3472	3493	
Sand & Lime (Gas)	3493	3500	
Lime	3500	3520	
Grey Lime	3520	3525	
Sandy Lime	3525	3538	
Oil & Gas	3538	3540	
Lime	3540	3555	
Blue Shale	3555	3560	
Grey Lime	3560	3563	
Lime	3563	3580	
Brown Lime	3580	3586	
Grey Lime	3586	3638	
Grey Sandy Lime (OIL)	3638	3645	
Grey Lime	3645	3675	
Brown Lime	3675	3692	
Grey Lime	3692	3700	
Brown Lime	3700	3718	
Water Sand	3718	3720	

ANADARKO PRODUCTION COMPANY
DRILLER'S LOG
 E.W. Walden Well No. 4
 NE/4 SW/4 Section 15, T22S, R37E,
 Lea County, New Mexico



**ANADARKO
PRODUCTION COMPANY**

**DIAGRAMMATIC SKETCH
SALT WATER DISPOSAL WELL**

E. W. WALDEN NO. 4 SWD
NE/4 SW/4 SECTION 15, T-22-S, R-37-E
LEA COUNTY, NEW MEXICO