A Division of Socony Mobil Oil Company, Inc.
P. O. BOX 1800. HOBBS. NEW MEXICO 88240

October 20, 1965

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

RE: SALT WATER DISPOSAL

Gentlemen:

Attached is Socony Mobil Oil Company, Inc.'s Application to Dispose of Salt Water by Injection into a Porous Formation (C-108) along with a plat of the area involved and a diagram of the proposed disposal well.

The proposed salt water disposal well was originally drilled by the Skelly Oil Company in an effort to produce the Devonian formation. However, the Devonian drill stem tested 2700' formation salt water and no oil or gas. The lease and well reverted back to the mineral and land owner, Mr. U. D. Sawyer, after Skelly plugged and abandoned the well in February, 1949. Socony Mobil has leased the well from Mr. Sawyer and we propose to clean the well out to the original total depth of 12,741', drill to approximately 13,550', run a 5-1/2" liner from 4000' to the top of the Devonian at 12,710' and complete it as a salt water disposal well in the Devonian formation.

We have also included a cross-section through the Devonian formation because the proposed well is located within one mile of the Crossroads Devonian Field. However, it has long been a recognized premise that a fault exists between the Crossroads Devonian Field proper and our proposed salt water disposal well. The Mid-Continent Sawyer Well No. 1-B is indicated on the cross-section as being drilled through this fault. There is no evidence of any Woodford Shale which usually overlays the Devonian and it is evident that the well produced 1631 barrels of oil and 3964 barrels of salt water from a lower Devonian porous interval on the Upthrown or Crossroads Field side of the fault before it was plugged and abandoned in November of 1949. The fault serves as a seal between the proposed disposal well and the Crossroads Field proper and will prevent any migration of injected salt water into the producing zone in the Crossroads Field.



A copy of this application has been furnished Sunray DX Oil Company and Shell Oil Company as offset operators as well as the State Engineer's

N.M.O.C.C. -2-

October 20, 1965 // 48 AM 65

Yours very truly,

Producing Superintendent

Glen W. Barb

JMMcGee/jlh
Attachments - 12
C-108 - 3 ea.
Area Plat - 3 ea.
Diagram - 3 ea.

Office.

Cross-section - 3 ea.

cc: (w/l copy of ea. attachment)

Sunray DX Oil Co., Box 1416, Roswell, N. Mex. State Engineer, Box 1717, Roswell, N. Mex. U. D. Sawyer, Crossroads, N. Mex.

(Date)

NEW MEXICO OIL CONSERVATION COMMISSION

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

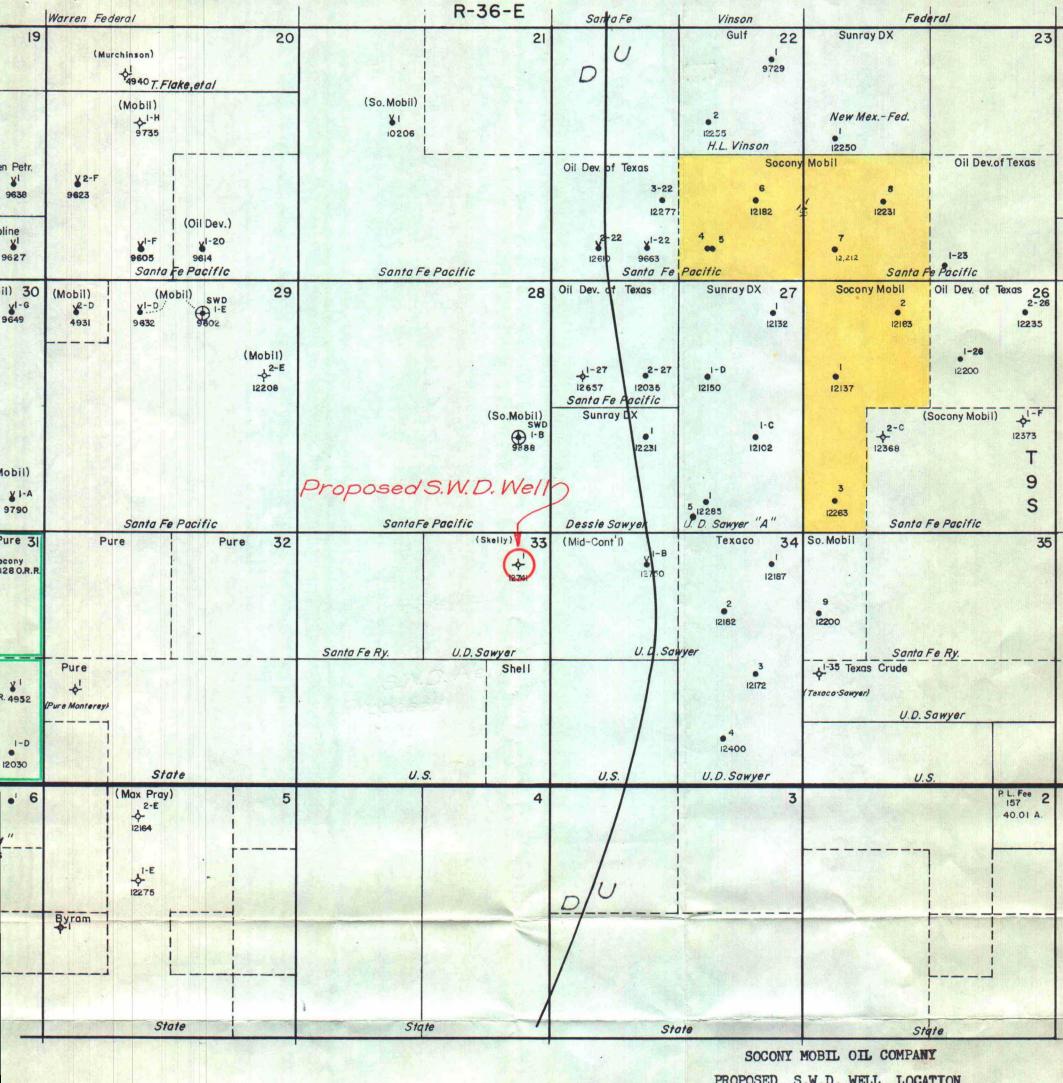
OPERATOR			0 10 11 -	AN ARDRESS		- 		
Socony Mo	obil Oil Com	pany, Inc.	OCT 25 11 43	Box 180	O, Hobbs, New	w Mexico	88240	
U. D. Sav			1	Undesig			Lea	
LUCATION		A		660 feet fr	om the East		660 FEET FROM THE	
	UNIT LETTER	; w	ELL IS LOCATED	FEET FR	OM THE LASE	LINE AND	FEET FROM THE	
North	LINE, SECTION	33 TO	WNSHIP 9 South	RANGE 36 E				
		SIZE	SETTING DEPTH			CEMENT	TOP DETERMINED BY	
SURFACE CASING		10.0/0	200					
INTERMEDIATE		13-3/8	290	325	Circ	2.		
		9-5/8	4602	3500	Circ	·		
LONG STRING		r 1/0	/000 10700	400				
Proposed	Liner	5-1/2	4000-12700	400 NAME, MODEL AND D	EPTH OF TUBING PACKE	R		
Proposed		5	4062	Baker Model "A"				
NAME OF PROPOSED INJECTION FORMATION						вотто	M OF FORMATION	
Devonian IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?			PERFORATIONS	OR OPEN HOUE? PR	2,710' oposed interval(s) o	F INJECTION	13,550'	
Tubing &	Casing	LE ANEWED	Open Ho	le	12,700' - 13	3,550'		
IS THIS A NEW WE DISPOSAL?	CC DATELED FOR		0il Production			TION Z		
NO LIST ALL SUCH PE	RFORATED INTERVALS		EMENT USED TO SEAL O			vacer	No .	
DEBTH OF BOTTOM	OF DEEDEST		DEPTH OF BOTTOM OF	NEXT DIGUED	l nepru	05 705 05 45	T 1 00000	
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA			OIL OR GAS ZONE IN THIS AREA		OIL DR	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None		
Approx. 240' (Est.) ANTICIPATED DAILY MINIMUM INJECTION VOLUME (BBLS.)		MAXIMUM	None MAXIMUM OPEN OR CLOSE		. 15 INJECTION TO BE E PRESSURE?	None By Gravity or	APPROX. PRESSURE (PSI)	
	11,000	25,000			Both	ISPO- TARE W	800 ATER ANALYSES ATTACHED?	
ERALIZED TO SUCH	A DEGREE AS TO BE N, OR OTHER GENERAL	UNFIT FOR DOMES	Yes		Yes	ISPOP ARE W	No.	
NAME AND ADDRES	S OF SURFACE OWNER	R (OR LESSEE, IF	STATE OR FEDERAL LAN			 l.	110	
Mr. U. D.	Sawyer, Cr	ossroads,	New Mexico	THIS INJECTION WEL				
			ox 1416, Rosv					
Dunkay Dr	CII COMPAII	y, 1. O. L	.on 1410; Rob	WC113 110W 110				
	· · · · · · · · · · · · · · · · · · ·					 , 		
HAVE COPIES OF THIS APPLICATION BEEN SURFACE OW SENT TO EACH OF THE FOLLOWING?			NER		EACH OPERATOR WITHIN ONE-HALF M		LE THE NEW MEXICO STATE ENGINEER	
ARE THE FOLLOWING ITEMS ATTACHED TO PLAT O THIS APPLICATION (SEE RULE 701-B)		TO PLAT OF ARE	Yes	ELECTRICAL L	Yes Yes		Yes MMATIC SKETCH OF WELL	
		1	Yes	 	No		Yes	
010	I hereby cer	tify that the in	formation above is	true and complete	to the best of my l	cnowledge a		
Illu	11/120	Ur len W. Bar	h Dro	ducing Sumer	intendent	Ω.	rtober 20. 1965	

NOTE: Should waivers from the State Engineer, the surface owher, 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.

(Title)

(Signature)



PROPOSED S.W.D. WELL LOCATION

Crossroads Field Area Lea County, New Mexico J.M.M. 10-18-65 C.T.A. Scale: 1" = 2000'



Mobil Oil Company

And Division of Socony Mobil Oil Company, Inc.

October 28, 1965

Mr. Frank Trby State Engineer Office Box 1069 Santa Fe, New Mexico

> PROJUSED SWD WELL, CROSS-KOND JWD SYSTEM, LEW COUNTY, NEW MEXICO

Dear Frank:

Attached is a revised drawing which incorporates the more complete cementing procedure per your verbal request of October 26, 1965.

We have also specified our equipment for the "tubing-liner" connection point. This was our original intent and I believe will answer your request for the best possible seal at this location.

By copy of this letter and drawing to Jim Kapteina, we are notifying the NMOCC of the change in cementing.

Be sure to tell us if there's anything more we can do on this.

Yours very truly,

Proc. Engineering Supervisor

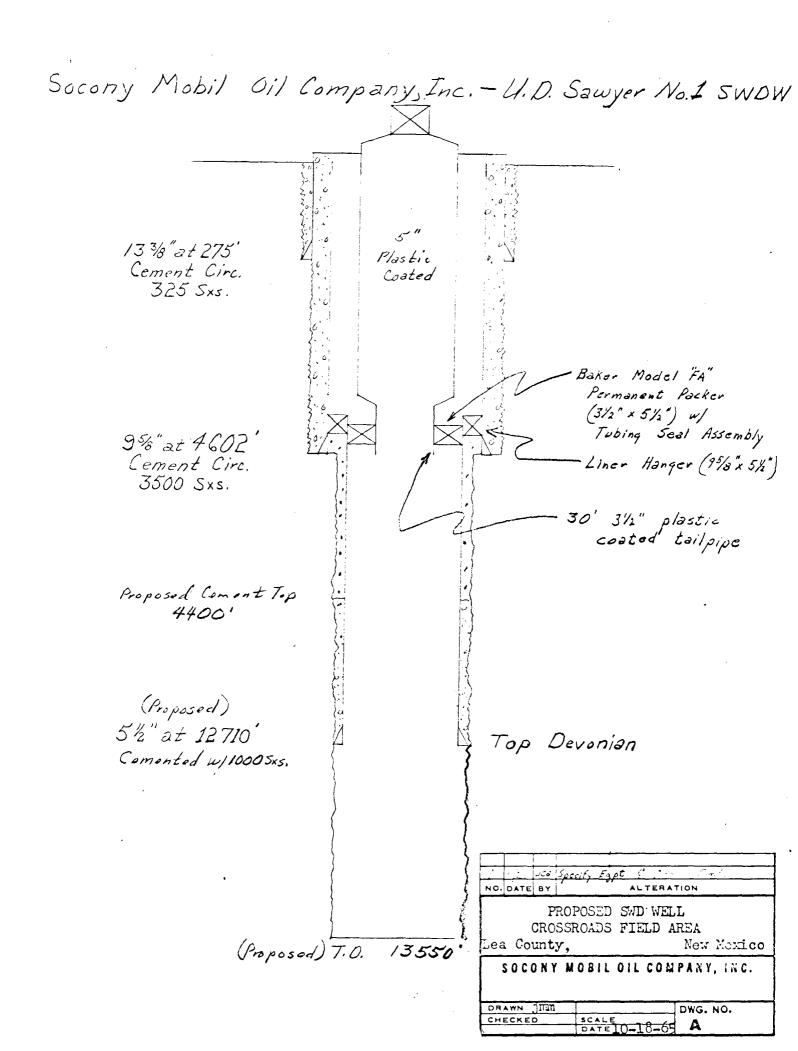
JCG, Jr/vvd

Attachment: Drawing

cc: /Jim Kapteina, NMOCC

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Santa Fa, New Mexico



LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE