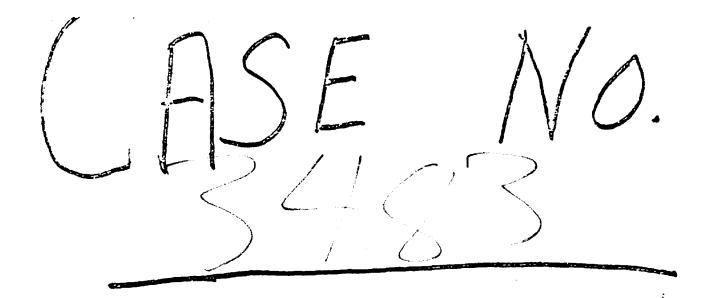
	83: Application	
for sal	t water disposi	al. Lea -
County,	New Mexico.	



APPlication,
TYANSCripts,
SMALL Exhibits
ETC.

GOVERNOR JACK M. CAMPBELL CHAIRMAN

State of New Mexico

Bil Conservation Commission

LAND COMMISSIONER GUYTON B. HAYS MEMBER



STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

November 14, 1966

Mr. Paul Cooter Atwood & Malone Attorneys at Law Post Office Box 700 Roswell, New Mexico

Re: Case No. 3483
Order No. R-3149
Applicant:
H. S. Moss

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

Carbon copy of order also sent to:

Hobbs OCC__*
Artesia OCC__
Aztec OCC ___
OTHER ___ Mr. Frank Irby

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 3483 Order No. R-3149

APPLICATION OF H. S. MOSS FOR SALT WATER DISPOSAL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on November 2, 1966, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 14th day of November, 1966, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, H. S. Moss, is the owner and operator of the D. P. Peck Well No. 1, located in Unit C of Section 26, Township 12 South, Range 37 East, NMPM, Gladiola Field, Lea County, New Mexico.
- (3) That the applicant proposes to utilize said well to dispose of produced salt water into the Wolfcamp formation, with injection through perforations from approximately 9751 feet to 9768 feet and into the open hole interval from approximately 9809 feet to 9850 feet.
- (4) That the injection should be accomplished through 2 3/8-inch internally plastic-coated tubing installed in a packer set at or below 5430 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should be attached to the annulus or the annulus left open at the surface in order to determine leakage in the tubing or packer.

-2-CASE No. 3483 Order No. R-3149

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, H. S. Moss, is hereby authorized to utilize his D. P. Peck Well No. 1, located in Unit C of Section 26, Township 12 South, Range 37 East, NMPM, Gladiola Field, Lea County, New Mexico, to dispose of produced salt water into the Wolfcamp formation, injection to be accomplished through 2 3/8-inch tubing installed in a packer set at or below 5430 feet, with injection into the perforated interval from approximately 9751 feet to 9768 feet and into the open hole interval from approximately 9808 feet to 9850 feet;

PROVIDED HOWEVER, that the tubing shall be internally plastic-coated; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus or the annulus left open at the surface in order to determine leakage in the tubing or packer.

- (2) That the applicant shall submit monthly reports of his disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

CTATE OF NEW MEXICO OIL CONSERVATION COMMISSION

ACK M. CAMPBELL, Chairman

ATON B. HAYS, Member

A. L. PORTER, Jr., Member & Secretary

Care 3483 Heard 11-266 Rec. 11-4-66

1. Secunt. 14.5. Hora cuthority to convers their D. P. Puk # 1, C - 26 +25.376 to a sult water disposal well.

Salt water will be produced from the Bladiola-Heromain on the Puck lease. Disposal shall be then turing and ender a pucker & he set 5 4 20 or below.

During shall Plaster Coated and Lucht fluid shall be used in casing tubing annulus.

Thurse.



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS STATE ENGINEER

October 17, 1966

ADDRESS CORRESPONDENCE TO: STATE CAPITOL SANTA FE, NEW MEXICO 87501

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of H. S. Moss dated October 13, 1966 which seeks administrative approval to dispose of salt water into his H. S. Moss Peck #1 well located in Sec. 26, T. S., R. 37 E. I have reveiwed the application Form C-108 and the attachments thereto.

This office offers no objection to the granting of the application provided the tubing and packer are set well below the top of the cement surrounding the $5\frac{1}{2}$ " liner.

FEI/ma

cc-H. S. Moss

F. H. Hennighausen

Yours truly,

S. E. Reynolds State Engineer

Frank E. Irby

Chief

Water Rights Div.

Docket No. 27-66

DOCKET: EXAMINER HEARING - WEDNESDAY - NOVEMBER 2, 1966

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter, Alternate Examiner:

- Application of Gulf Oil Corporation for an exception to Rule 8 of Order No. R-1638 and to Rule 301, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 8 of Order No. R-1638 and to Rule 301 of the Commission rules and regulations to permit discontinuance of individual gas-oil ratio tests in its West Bisti-Lower Gallup Sand Unit, Bisti-Lower Gallup Pool, San Juan County, New Mexico. Applicant proposes to report gas production and ratios on a unit-wide basis rather than individual well GOR data.
- CASE 3480: Application of Tidewater Oil Company for a capacity allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the amendment of Order Nc. R-3097 which permitted its GO State "J" Well No. 1 located in Unit H of Section 7, Township 17 South, Range 33 East, Lea County, New Mexico, which directly offsets the Malmar Unit Waterflood Project, to be produced at capacity for a period not to exceed 90 days from date of said order. Applicant seeks additional time in which to produce said well at capacity and the establishment of an administrative procedure for further extensions.

CASE 3336 (Reopened)

In the matter of Case No. 3336 being reopened pursuant to the provisions of Order No. R-3005, which order established 80-acre spacing units for the East Hightower-Upper Pennsylvanian Pool, Lea County, New Mexico, for a period of one year. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing units.

CASE 3481: Application of Sinclair Oil & Gas Company for a non-standard gas proration unit and an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of a 160-acre non-standard gas proration unit comprising the NW/4 of Section 7, Township 22 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, to be dedicated to its State 157 "B" Well No. 1 located at an unorthodox location for said pool 330 feet from the North line and 2310 feet from the West line of said Section 7.

-2-Docket No. 27-66 November 2, 1966 Examiner Hearing

- CASE 3482: Application of Sinclair Oil & Gas Company for a special gas well test, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to produce and flare up to three million cubic feet of gas per day, for a maximum of 30 days, from its Hackberry Hills Unit Well No. 4 located in Unit F of Section 22, Township 22 South, Range 26 East, Eddy County, New Mexico, as a reservoir limit test to determine the economic feasibility of a pipeline connection to said well.
- CASE 3483: Application of H. S. Moss for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water in the Wolfcamp formation in the interval from 9751 to 9850 feet in its D. P. Peck Well No. 1 located in Unit C of Section 26, Township 12 South, Range 37 East, Gladiola Field, Lea County, New Mexico.
- CASE 3484: Application of Phillips Petroleum Company for a pilot water-flood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pilot water-flood project by the injection of water into the Grayburg-San Andres formation through its Santa Fe Well No. 14 located in Unit P of Section 20, Township 17 South, Range 35 East, Vacuum Field, Lea County, New Mexico.
- CASE 3485: Application of Phillips Petroleum Company for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Grayburg-San Andres formation through three injection wells located in Sections 8, and 9, Township 17 South, Range 33 East, Vacuum Field, Lea County, New Mexico.
- CASE 3486: Application of Shenandoah Oil Corporation for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project by the injection of water into the Grayburg-San Andres formation through four injection wells located in Sections 7, 8 and 16, Township 17 South, Range 33 East, Vacuum Field, Lea County, New Mexico.
- CASE 3487: Application of Amerada Petroleum Corporation for a unit agreement, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of its State "SN" Unit Area comprising 692 acres, more or less, of State land in Sections 3 and 4, Township 15 South, Range 33 East, Lea County, New Mexico.

-3-Docket No. 27-66 November 2, 1966 Examiner Hearing

CASE 3488: Application of Amerada Petroleum Corporation for a waterflood expansion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Saunders SB Water-flood Project by the injection of water into the Permo-Pennsylvanian zone through its Texaco-State "AQ" Well No. 2 located in Unit E of Section 3, Township 15 South, Range 33 East, Saunders Permo-Pennsylvanian Pool, Lea County, New Mexico.

CASE 3489: Application of William A. and Edward R. Hudson for a waterflood expansion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand their Puckett A Water-flood Project by the injection of water into the Grayburg-San Andres formation through their Puckett A Well No. 30 to be drilled at an unorthodox location 1345 feet from the North line and 25 feet from the West line of Section 24, Township 17 South, Range 31 East, Maljamar Pool, Eddy County, New Mexico.

CASE 3490: Application of Sunray DX Oil Company for pool redelineation, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks the redelineation of the Todd-San Andres Pool, Roosevelt County, New Mexico, into two separate pools: The Todd Upper-San Andres Gas Pool comprising that portion of the San Andres formation above the anhydrite bed found at 4200 feet in the Franklin, Aston and Fair Mark Federal Well No. 1 located in Unit M of Section 26, Township 7 South, Range 35 East, and the Todd Lower-San Andres Pool comprising that portion of the San Andres formation below said anhydrite bed, said Todd Lower-San Andres Pool to be governed by the existing rules for the present Todd-San Andres Pool. Also to be considered at said hearing will be such matters as the effective date of the aforesaid redelineation, the period of time in which to effect dual completion of the affected wells, the distribution of the affected wells' accumulated status in the present pool (overproduction and underproduction) to each of the new pools, and such other pertinent matters as may relate to the aforesaid pool redelineation. Also to be considered will be special pool rules for the proposed Todd Upper-San Andres Gas Pool, including 320-acre spacing for wells located therein.

H. S. MOSS

FIRST NATIONAL BANK BUILDING DALLAS, TEXAS 75202

October 4, 1966

3483

Oil Conservation Commission State of New Mexico Hobbs, New Mexico

Gentlemen:

Enclosed you will find our Form C-108, Application to Dispose of Salt Water, in quadruplicate, with attachments. We request that you set a hearing before the Commission under Rule 701. We have not mailed copies of this application to Santa Fe and trust that this is proper.

Very truly yours,

JML/vl Encls.

H. S. MOSS

John M. Little, Jr.

cc-McAlester Fuel Co., Lovington, N.M.
Shell Oil Co., Production Dept., Roswell, N.M.
Pan-American, Box 899, Roswell, N.M.
Skelly Oil Co., Box 38, Hobbs, N.M.
W. M. Beauchamp, Special Guardian, Estate D.P. Peck,
c/o District Court, Lea County, Lovington, N.M.

DOCKET MAILED

Date 10-21-60

À

3483 October 13, 1966

Oil Conservation Commission State of New Mexico Hobbs, New Mexico

H. S. MOSS FIRST NATIONAL BANK BUILDING DALLAS. TEXAS 75202"

. Q2

Gentlemen:

On October 4, 1966, we filed a Form C-108, Application to Dispose of Salt Water, with attachments. We failed to include a copy of the plat showing the producing wells within a two-mile radius and the location of the proposed injection well.

We wish you would attach the enclosed maps to our application.

Very truly yours,

H. S. MOSS

John M. Little, Jr.

JML/vl Encls.



NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR				ADDRESS				CC
H.	S. MOSS			3839	irst Natl	Bk Bldg	, Dalla	Texas 75202
LEASE NAME			WELL NO.	FIELD		_		COUNTY
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	(Signature)	0		(Tale)				(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 BULE 701.

Care 3483

to, ... 5 11 66

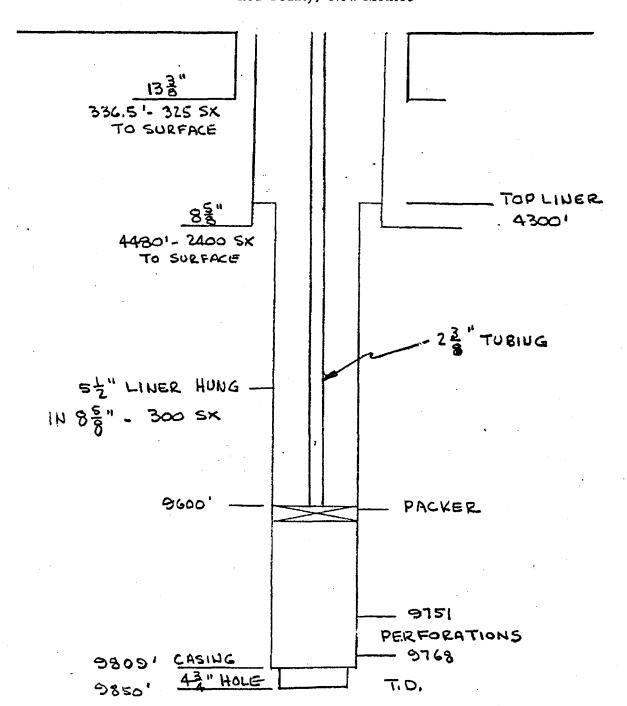
DIAGRAMMATIC SKETCH

H. S. Moss Peck #1 /2

660' FNL 1980' FWL Section 26, T-185, R-37E

Gladiola Wolfcamp Field

Lea County, New Mexico



CAN 3-83

Research - Manufacturing - Sales - Box 2012 - Odessa, Texas - FE 2-8501 (;

COV 7 11 7 11 59

Cardinal



ANALYTICAL SERVICE LABORATORY September 14, 1966

Company

H. S. Moss

Lea County

Lease D. P. Peck

Address

Hobbs, New Mexico

Field

Well No. 1

Formation Devonion

Depth

Attention

Date Sampled

Disposal Sample Well Source

Recent Treatments

WATER ANALYSIS (Reported as mg per Liter)

Specific Gravity 1.030 @ 75°F

PH 7.0

Chioride

26,000

Calcium 3,560

Magnesium

480

Bicarbonate

1,069

Total Iron

Nil

Sulfate

1,300

Sodium (Calc.)

12,880

None Detected Sulfide

Total Dissolved Solids (Calc.)

Total Hardness (as Ca COs) 10,900

45,289

Resistivity

Ohm Meters @

Remarks: The solids in this sample are Iron Sulfide

cc: H. S. Moss Bill Thomas Sales Lab

Analyst Ed Wheeler

Bill Thomas Cardinal Representative

BT/djn

See James	A.E Taylorolal M.E. Joyco Bardonala Zaca faylor	A.C. Toylor, MI Stor Eves .	GLAQ <u>IOL</u> A	1955 John J. Hill John J.	tica itsu Stete- varanam-se	See C Capellons Inc.
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	tel Brases A mailmise (5) Bubgeior	Superior	laurine Boiley F.J. Don- glade, 1/4 MI		REFICEMENT OF MINISTER MINISTE	MONTH E.I. W

12-3483

Form C-108 Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR TY CO. 1.00 CO.			ADDRESS		DIA D	11 ml	
H. S. MOS	<u> </u>	WELL NO.	2837 F1	rst Natt Bk	prog, Da	Texas 7520	
D. P. Peck	:	1	Gladi	ola-Wolfcai	mp	Lea	
UNIT LETTER _	; w	ELI IS LOCATED	660 FEET FE	OM THE Nort	hLINE AND		
West LINE, SECTION	26 ro	wnship 12 S	RANGE 371	E NMPM.			
NAME OF STRUCK	SIZE		AND TUBING DAT			T	
NAME OF STRING SURFACE CASING	3126	SETTING DEPTH	SACKS CEME	1000	FCEMENT	TOP DETERMINED BY	
INTERMÉDIATE	13-3/8	336.5	325	S ar	face	Circulated	
	8-5/8	4488.0	2400	Surf	ace	Circulated	
LONG STRING	5 à	9809.0	300	Unkr	10Wn		
TUBING	2.7/0	0600		_	KER		
NAME OF PROPOSED INJECTION FOR	2-3/8	9600	TOP OF FORM	aker	вотто	M OF FORMATION	
Wolfcamp			9751			9850	
IS INJECTION THROUGH TUBING, CAS	ING, OR ANNULUS?	PERFORATIONS	OR OPEN HOLE PR	OPOSED INTERVAL(S)	OF INJECTION		
Tubing		9751-			51-9850		
IS THIS A NEW WELL DA'LLED FOR DISPOSAL?	Oil	NO, FOR WHAT PURPOS	SE WAS WELL ORIGINA	LLY DRILLED?	ZONE O	ELL EVER TEEN PERFORATED IN STATE THAN THE PROPOSED IN STATE ONE?	
INU LIST ALL SUCH PERFORATED INTERV			FF OR SQUEEZE FACH			No HII &	
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA	135	DEPTH OF BOTTOM OF OIL OR GAS ZONE IN T	None.	1		T LOWER HIS AREA 12, 100	
ANTICIPATED DAILY MINIMUM 1015 1015 1015 1015 1015 1015 1015 101	1200	Open of closs	ED TYPE SYSTEM	IS INJECTION TO BE PRESSURE?	avity	O O	
ANSWER YES OR NO WHETHER THE F ERALIZED TO SUCH A DEGREE AS TO STOCK, IRRIGATION, OR OTHER GENE	BE UNFIT FOR DOMEST	E MIN- WATER	to be disposed of onian	NATURAL WATER IN SAL ZONE	DISPO- ARE WA	Yes	
NAME AND ADDRESS OF SURFACE OW W. M. Beauchan				Peck, c/o	District	Court, Lea Co., N	
McAlester Fuel (•	THIS INJECTION WELL		· v	A.	
Shell Oil Co., Pr	oduction De	pt., Roswell	l, N.M.	BEFORE I	EXAMIN	VER UTZ	
Pan-American, I	30x 899, Ro	swell, N.M.	N.	IL CONSERV	ATION C	OMMISSION	
Skelly Oil Co., B			10-	/ 100 m 1 1 m 1	E	34.8.3	
TAVE COPIES OF THIS APPLICATION IS SENT TO EACH OF THE FOLLOWING?	EEN SURFACE OWNE	Yes	EACH OPERATO OF THIS WELL	Yes	MILE THE NEW	Yes	
RE THE POLLOWING ITEMS ATTACHE HIS APPLICATION (SEE NULE 701-B	D TO PLAT OF AREA		ELECTRICAL LO	Yes	DIAGRAM	MMATIC SKETCH OF WELL Yes	
I hereby c	ertify that the info	ormation above is to	rue and complete	to the best of my	knowledge an	d beli ef.	
(Signature)	wx		Agent (Title)		0	ct. 4, 1966	

NOTE: Should weivers 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.

Suc 3983

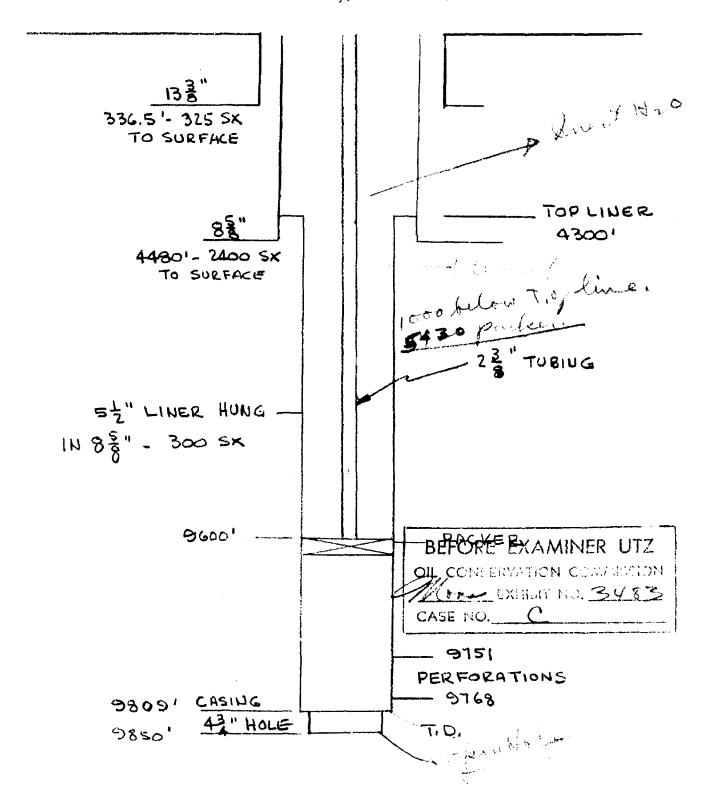
DIAGRAMMATIC SKETCH

H. S. Moss Peck #1

660' FNL 1980' FWL Section 26, T-18S, R-37E

Gladiola Wolfcamp Field

Lea County, New Mexico



Cardinal &

ANALYTICAL SERVICE LABORATORY September 14, 1966

Company H. S. Moss

County Lea

Lease D. P. Peck

Address

Hobbs, New Mexico

Field

Well No. 1

Formation Devonion

Depth

Attention

Date

Sample Disposal

Recent Treatments

Sampled

Source Well

WATER ANALYSIS (Reported as mg per Liter)

Specific Gravity 1.030 @ 75°F

^{pH} 7.0

Chloride 26,000

Calcium 3,560

Bicarbonate 1,069

Magnesium 480

•

Total Iron

Sulfate 1,300

Nil Nil

Sodium (Calc.)

12,880

Total Hardness (as Ca COs) 10,900

None Detected

Total Dissolved Solids (Calc.)

45,289

Resistivity

Ohm Meters @

Remarks: The solids in this sample are Iron Sulfide

cc: H. S. Moss
Bill Thomas
Sales
Lab

BEFORE EXAMINER UTZ

OIL CONCERNATION 3483

Analyst Ed Wheeler

Cardinal Representative Bill Thomas

BT/djn

1. 1. 3418

dearnley-meier reporting service, inc.

1120 SIMMS BLDG. e P. O. BOX 1092 + PHONE 243-6491 + ALBUQUERQUE, NEW MEXICO

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
November 2, 1966

EXAMINER HEARING

IN THE MATTER OF:

Application of H. S. Moss for salt) water disposal, Lea County, New) Mexico.

Case No. 3483

BEFORE: Elvis A. Utz, Examiner

TRANSCRIPT OF HEARING



MR. UTZ: Case 3483.

MR. HATCH: Case 3483, Application of H. S. Moss for salt water disposal, Lea County, New Mexico.

MR. COOTER: May it please the Examiner, Paul Cooter of Atwood and Malone, Roswell, appearing for the Applicant, H. S. Moss. We have one witness, John Little.

MR. UTZ: Are there other appearances? You may swear the witness.

(Whereupon, the witness was sworn.)

JOHN LITTLE

called as a witness, having been duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. COOTER:

- Õ Would you state your name for the record, please, sir?
 - Λ John M. Little, Junior.
 - By whom are you employed, Mr. Little? Q
 - H. S. Moss.
 - In what capacity are you employed? 0
 - As General Superintendant.
- Acting for Mr. Moss in this capacity, did you prepare and file the application in this case?
 - Α I did.



I will direct your attention first to the plat Q which was attached to and filed with your application, and ask you to briefly relate what you seek by this application?

H. S. Moss drilled and completed two wells in the Wolfcamp. These wells have been depleted. We have two producing wells on the lease, one of which is making water out of the Devonian formation. We wish to dispose of this produced water in the Number One well, drilled originally as a Wolfcamp producer.

- The Number One well is the well in the top part of the northwest quarter of Section Twenty-Six?
 - Yes, with a circle around it.
- Q Water is produced from the Devonian in the Number Three well?
 - In the Number Four well.
- Four well, and into what formation do you seek to dispose of this water?
 - Into the Wolfcamp.
 - Q At what depth?
 - From the interval 9,751 to 9,850.
- Are there other salt water disposal wells shown in the immediate vicinity on this plat?
- Yes. Stanclind has one on their Windbird lease, over in the Gladiola Field property. Tom Ingram has one in



Section Thirty-Four.

- Q Now, the Stanolind or Pan American well to which you referred is over in the southeast quarter of Section Twenty-Four?
 - A That's correct.
- Q The Ingram well, is that in the northeast quarter of Section Thirty-Four?
 - A That's correct.
- Q All right, and what formations are those liquids, salt water --
 - A Into the Wolfcamp and into the Pennsylvania.
- Q What are the closest wells to the proposed salt water disposal well producing from this same Wolfcamp formation?
- A Skelly has the only producing well in the Wolfcamp formation, and they are producing in a zone above where we propose to drill.
- Q Are those the two Skelly wells in the east half of the southeast quarter of Section Twenty-Seven?
 - A That's correct.
 - Q Are they abandoned offsets?
- A Yes. McAllister Fuel has an abandoned offset to the east, Shell has an abandoned offset to the north, and Pan American has an abandoned offset to the northeast.



- Q Skelly was mailed a copy of your application?
- A That's correct.
- Q Have you received any objection from Skelly?
- A No.

MR. UTZ: Are these abandonments in the Wolfcamp?

- A Yes.
- Q (By Mr. Cooter) With your application, did you file a log of the Moss Peck Number One well which is the proposed salt water disposal well?
 - A Yes, I did.
- Q Also attached to the application which was filed with the Commission is a diagramaticsketch of the Moss Peck Number One well. I will ask you to relate briefly the casing and cementing program.
- A It has thirteen and three-eighths inch casing set at 336.5, cemented with three, twenty-five sacks and cement to the surface.

It has 4,480 feet of eight and five-eighths cemented with 2,400 sacks circulated to the surface.

It has a five and a half inch liner hung in the bottom of the eight and five-eighths, and cemented with three hundred sacks. The bottom of the casing is at 9,809.

Q Was the temperature survey run on that alignment?



- A It was not. We calculate that the cement should be approximately back to the top of the liner.
- Q All right now, in this diagramatic sketch which was filed with your application, you show the packer set at 9,600 feet. Actually, that packer might be higher than that in --
- A We would like approval to set the packer down in the five and a half inch liner below 5,600. We can see no reason to set it at 9,600. This was purely an arbitrary depth. We did want to get it down into the cement and we would propose that the annulus be filled with a non-corrosive fluid and that a pressure gauge be installed so that we could check and see if there was any pressure or communication in between the injection string and the annulus.
- Q Also attached to the application was an analysis of the water.
 - A That is the produced devonian water.
- Q Was a copy of your application and all of these exhibits to which you referred, forwarded to the State Engineer's office?
 - A Yes, we mailed them to the State Engineer.
- Q Outside of the water analysis, were the attachments to your application prepared by you or under your direction?
 - A They were.



MR. COOTER: We offer the attachments to the application as exhibits in this hearing.

MR. UTZ: As soon as we can identify the exhibits, we will receive them. Which were the exhibit numbers that you wanted?

MR. COOTER: Why don't we put Exhibit"A" to the plat, then make the log Exhibit "B", the diagramatic sketch Exhibit "C", and the report of the water analysis Exhibit "D"?

MR. UTZ: Did you want to identify this, the application, Form 108?

MR. COOTER: We can mark it as an exhibit if you would like.

MR. UTZ: Well, it's part of the record. We might as well.

(Whereupon Exhibit's "A" through "E" were marked for identification.)

MR. COOTER: We offer Exhibits "A" through "E" That concludes direct testimony.

MR. UTZ: Exhibits "A" through "E" will be entered into the record of this case.

CROSS EXAMINATION

BY MR. UTZ:

- Q Where is the other producing zone in this reservoir, or is there any?
 - A There isn't any.
 - Q Is there a Devonian producing zone in this area?



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A Yes, sir. Yes, wells Three and Four on the plat.

MR. UTZ: Which wells are those, now?

A Those are the wells on the south part of the lease; you can see Three and Four colored in yellow, Three and Four.

Number Two is an abandoned well.

MR. UTZ: I see Four but I do not find --

A Three is the one with the double circle.

MR. UTZ: Those are Devonian wells?

A That's correct.

MR. UTZ: Is it the water from these wells that you want to inject or just the Number Four?

A From both of these wells. Three isn't making water at the present time.

MR. UTZ: is the Wolfcamp still producing in this area?

A Yes, in this area, but from a different zone in the two Skelly wells that I mentioned previously in Section

Twenty-Seven.

MR. UTZ: Is that producing zone in the Skelly wells higher or lower?

A Higher.

MR. UTZ: You want to inject in the base of the Wolfcamp?

A That's correct.



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MR. UTZ: Does the Wolfcamp have a water table in this area?

A These wells, when abandoned, were making almost a hundred percent water, and I don't know of any water table.

MR. UTZ: It is in the watered out zone that you wanted to inject this salt water?

A Yes, plus we wanted to drill from the bottom of the casing as we have shown there. I think we've shown the producing interval casing is set at 9,309. We want to drill four and three-quarter holes to 9,850 to pick up additional porosity below the bottom of the casing. The well was originally perforated from 9,751 to 9,768.

MR. UTZ: Now, where exactly was it that you wanted to set your packer?

A We would prefer to set it just somewhere below 5,600 if we could.

MR. UTZ: I think we should define some distance below where you think the top of the cement is.

A Well, let's just say a thousand feet below the top of the liner, and the top of the liner is at 4,430.

MR. UTZ: So, about 4,430?

A No, a thousand feet below that.

MR. UTZ: 5,430. What type of fluid do you anticipate that you will put behind --



DEALTHEY-MOIET REPORTING SETVICE, INC.

STATE OF NEW MEXICO)) ss.
COUNTY OF BERNALILLO)

I, W. DON McINTYRE, Court Reporter, do hereby certify
that the foregoing and attached transcript of proceedings before
the New Mexico Oil Conservation Commission Examiner at Santa
Fe, New Mexico, is a true and correct record to the best of
my knowledge, skill and ability.

IN WITNESS WHEREOF, I have affixed my hand this 17th day of Honomber, 1966.

W. Da Mi. Lugie



New Mexico Oil Conservation Commission