

CASE 3483: Application of H.S. MOSS
for salt water disposal, Lea
County, New Mexico.

CASE No.

3483

Application,

TRANSCRIPTS,

SMALL Exhibits

ETC.

GOVERNOR
JACK M. CAMPBELL
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

P. O. BOX 2088
SANTA FE

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.
A. L. PORTER, Jr.
Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs OCC X

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:

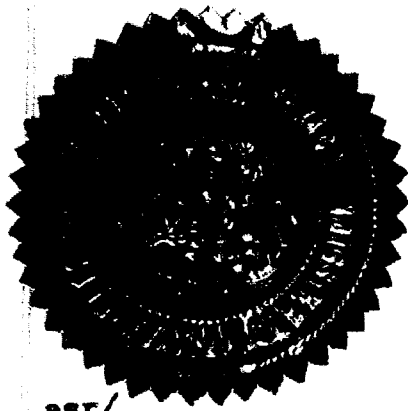
(1) That the applicant, H. S. Moss, is hereby authorized to utilize his D. P. Peck Well No. 1, located in Unit C of Section 26, Township 12 South, Range 37 East, NMPM, Gladiola Field, Lea County, New Mexico, to dispose of produced salt water into the Wolfcamp formation, injection to be accomplished through 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.



STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

Jack M. Campbell
JACK M. CAMPBELL, Chairman

Guyton B. Hays
GUYTON B. HAYS, Member

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

esr/

Case 3483

Heard 11-2-66

Rec. 11-4-66

1. Grant. H.S. More authority to convert their D.P. Pool #1, C - 26-125.376 to a salt water disposal well. Salt water will be produced from the ~~the~~ Gladiola-Heroman on this Pool lease. Disposal shall be thru tubing and under a packer to be set 5430 or below.

Tubing shall be plastic coated and inert fluid shall be used in casing-tubing annulus.

Thos. H. J.



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

October 17, 1966

S. E. REYNOLDS
STATE ENGINEER

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. ~~43~~ S., R. 37 E. I have reviewed 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 5½" liner.

FEI/ma
cc-H. S. Moss
F. H. Hennighausen

Yours truly,

S. E. Reynolds
State Engineer

By: *Frank E. Irby*
Frank E. Irby
Chief
Water Rights Div.

Case 3483

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:

CASE 3479: 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 No. 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.

- 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 waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pilot waterflood 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 Waterflood 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 Waterflood 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.

ir/

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

By

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 10-21-66

✓

3413
H. S. MOSS
FIRST NATIONAL BANK BUILDING
DALLAS, TEXAS 75202

October 13, 1966

Oil Conservation Commission
State of New Mexico
Hobbs, New Mexico

Gentlemen:

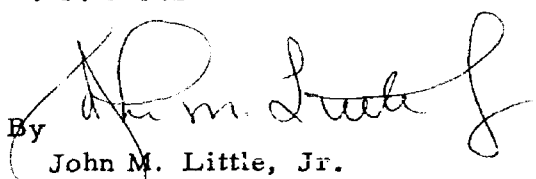
On October 4, 1966, we filed a Form C-108,
Application to Dispose of Salt Water, with
attachments. We failed to include a copy of the
plat showing the producing wells within a two-mile
radius and the location of the proposed injection
well.

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

Very truly yours,

H. S. MOSS

By


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 H. S. MOSS		ADDRESS 3839 First Natl Bk Bldg, Dallas, Texas 75202	
LEASE NAME D. P. Peck	WELL NO. 1	FIELD Gladiola-Wolfcamp	COUNTY Lea
LOCATION UNIT LETTER C ; WELL IS LOCATED 660 FEET FROM THE North LINE AND 1980 FEET FROM THE West LINE, SECTION 26 TOWNSHIP 12S RANGE 37E NMPM.			
CASING AND TUBING DATA			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT
SURFACE CASING	13-3/8	336.5	325
INTERMEDIATE	8-5/8	4488.0	2400
LONG STRING	5	9809.0	300
TUBING	2-3/8	9600	Baker
NAME OF PROPOSED INJECTION FORMATION Wolfcamp		TOP OF FORMATION 9751	BOTTOM OF FORMATION 9850
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES 9751-68	PROPOSED INTERVAL(S) OF INJECTION 9751-9850
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH			
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 135		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 12,100
ANTICIPATED DAILY INJECTION VOLUME (BBL/D) 600	MINIMUM 1200	MAXIMUM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity
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 Devonian	NATURAL WATER IN DISPOSAL ZONE Salt
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) W. M. Beauchamp, Special Guardian, Estate D. P. Peck, c/o District Court, Lea Co., N.M.		ARE WATER ANALYSES ATTACHED? Yes	
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF MILE OF THIS INJECTION WELL			
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.			
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 Yes	DIAGRAMMATIC SKETCH OF WELL Yes

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

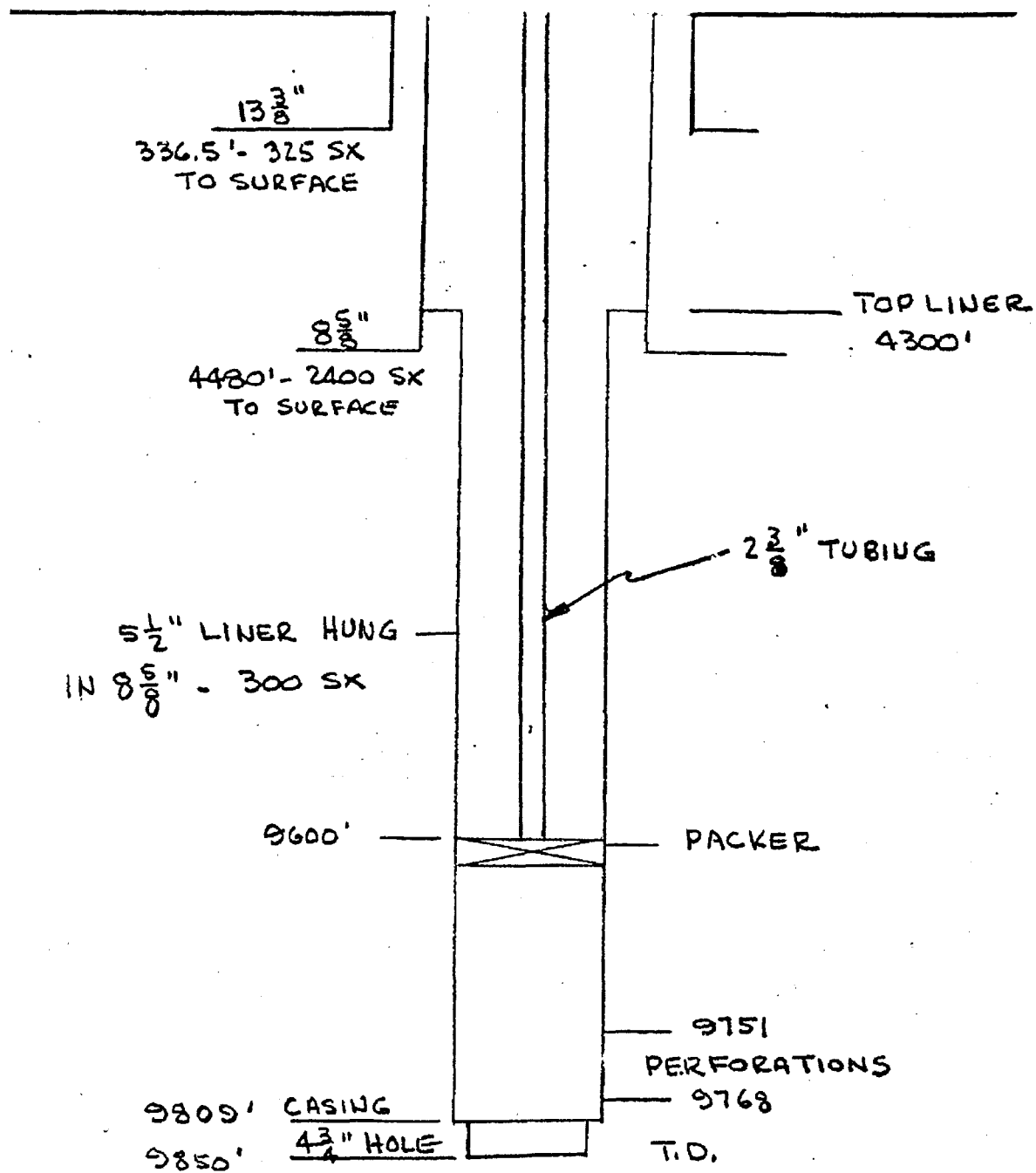
(Signature) **[Signature]** Agent (Title) **[Signature]** Oct. 4, 1966 (Date)

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.

Log 3483

1966

DIAGRAMMATIC SKETCH
H. S. Moss Peck #1 12
660' FNL 1980' FWL Section 26, T-18S, R-37E
Gladiola Wolfcamp Field
Lea County, New Mexico



Research - Manufacturing - Sales - Box 2012 - Odessa, Texas - FE 2-3501 R.

Cardinal



ANALYTICAL SERVICE LABORATORY
September 14, 1966

Company H. S. Moss
Address Hobbs, New Mexico

Attention

Recent Treatments

County Lea
Field
Formation Devonion
Date Sampled
Lease D. P. Peck
Well No. 1
Depth
Sample Source Disposal Well

WATER ANALYSIS

(Reported as mg per Liter)

Specific Gravity 1.030 @ 75°F

Chloride 26,000

Bicarbonate 1,069

Sulfate 1,300

Sulfide None Detected

Total Hardness (as Ca CO₃) 10,900

Resistivity Ohm Meters @

pH 7.0

Calcium 3,560

Magnesium 480

Total Iron Nil

Sodium (Calc.) 12,880

Total Dissolved Solids (Calc.) 45,289

Remarks: The solids in this sample are Iron Sulfide

cc: H. S. Moss
Bill Thomas
Sales
Lab

Analyst Ed Wheeler
Cardinal Representative Bill Thomas

BT/djn

NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR H. S. MOSS		ADDRESS 3839 First Natl Bk Bldg, Dallas, Texas 75202	
LEASE NAME D. P. Peck	WELL NO. 1	FIELD Gladiola-Wolfcamp	COUNTY Lea
LOCATION UNIT LETTER C ; WELL IS LOCATED 660 FEET FROM THE North LINE AND 1980 FEET FROM THE West LINE, SECTION 26 TOWNSHIP 12S RANGE 37E NMPM.			
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SURFACE CASING	13-3/8	336.5	325
INTERMEDIATE	8-5/8	4488.0	2400
LONG STRING	5 1/2	9809.0	300
TUBING	2-3/8	9600	NAME, MODEL AND DEPTH OF TUBING PACKER Baker
NAME OF PROPOSED INJECTION FORMATION Wolfcamp		TOP OF FORMATION 9751	BOTTOM OF FORMATION 9850
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES 9751-68	PROPOSED INTERVAL(S) OF INJECTION 9751-9850
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH --			
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 135		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 12,100
ANTICIPATED DAILY INJECTION VOLUME (BBLG.) 600	MINIMUM 600	MAXIMUM 1200	OPEN OR CLOSED TYPE SYSTEM Open
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 Devonian	NATURAL WATER IN DISPOSAL ZONE Salt
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) W. M. Beauchamp, Special Guardian, Estate D. P. Peck, c/o District Court, Lea Co., N.M.		APPROX. PRESSURE (PSI) 0	
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL			
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.			
<div style="border: 2px solid black; padding: 5px; display: inline-block;"> BEFORE EXAMINER UTZ OIL CONSERVATION COMMISSION <i>[Signature]</i> EX-103 34-83 E </div>			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER Yes		
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)?	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes		
	THE NEW MEXICO STATE ENGINEER Yes		
	ELECTRICAL LOG Yes		
	DIAGRAMMATIC SKETCH OF WELL Yes		

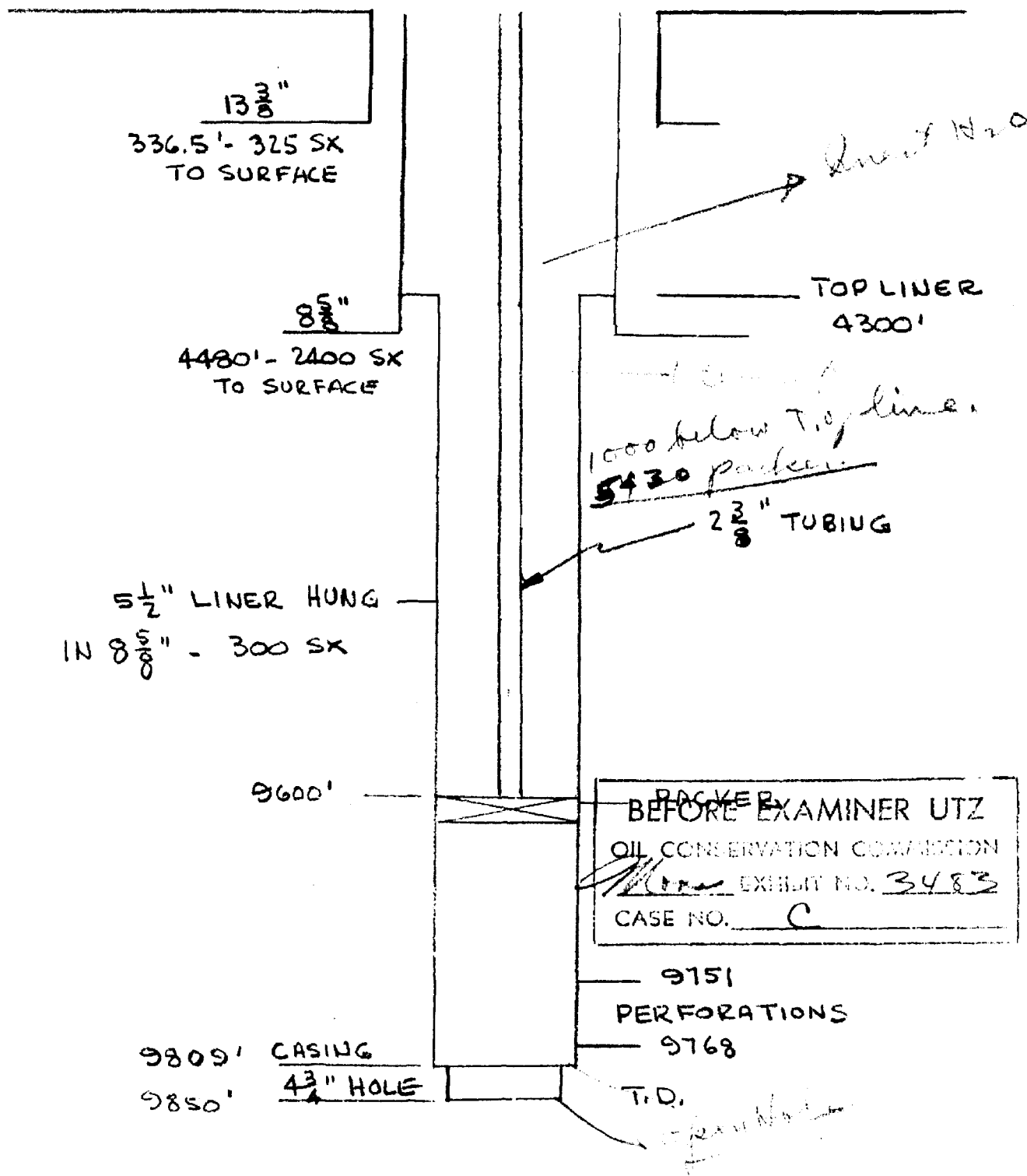
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

[Signature] **Agent** **Oct. 4, 1966**
(Signature) (Title) (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.

3483

DIAGRAMMATIC SKETCH
H. S. Moss Peck #1 12
660' FNL 1980' FWL Section 26, T-10S, R-37E
Gladiola Wolfcamp Field
Lea County, New Mexico



Cardinal



ANALYTICAL SERVICE LABORATORY

September 14, 1966

Company H. S. Moss
Address Hobbs, New Mexico

Attention

Recent Treatments

County Lea Lease D. P. Peck
Field Well No. 1
Formation Devonian Depth
Date Sample Disposal
Sampled Source Well

WATER ANALYSIS

(Reported as mg per Liter)

Specific Gravity 1.030 @ 75°F

Chloride 26,000

Bicarbonate 1,069

Sulfate 1,300

Sulfide None Detected

Total Hardness (as Ca CO₃) 10,900

Resistivity Ohm Meters @

pH 7.0

Calcium 3,560

Magnesium 480

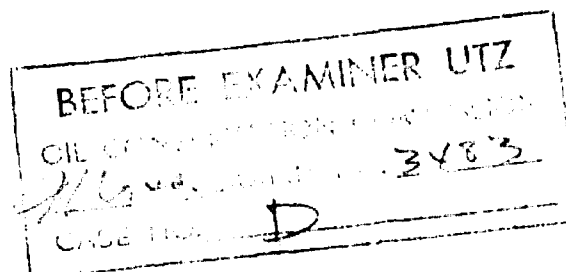
Total Iron Nil

Sodium (Calc.) 12,880

Total Dissolved Solids (Calc.) 45,289

Remarks: The solids in this sample are Iron Sulfide

cc: H. S. Moss
Bill Thomas
Sales
Lab



Analyst Ed Wheeler

Cardinal Representative Bill Thomas

BT/djn

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-4491 • 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:

Q Would you state your name for the record, please,
sir?

A John M. Little, Junior.

Q By whom are you employed, Mr. Little?

A H. S. Moss.

Q In what capacity are you employed?

A As General Superintendant.

Q Acting for Mr. Moss in this capacity, did you
prepare and file the application in this case?

A I did.

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

A 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.

Q The Number One well is the well in the top part of the northwest quarter of Section Twenty-Six?

A Yes, with a circle around it.

Q Water is produced from the Devonian in the Number Three well?

A In the Number Four well.

Q Four well, and into what formation do you seek to dispose of this water?

A Into the Wolfcamp.

Q At what depth?

A From the interval 9,751 to 9,850.

Q Are there other salt water disposal wells shown in the immediate vicinity on this plat?

A Yes. ~~Stano~~ Lind 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 ~~diagramatic~~ sketch 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 diagrammatic 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?

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.

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 --

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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 November, 1966.

W. Don McIntyre
Court Reporter

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 3483, heard by me on Nov. 2, 1966.

Thurston J. [Signature], Examiner
New Mexico Oil Conservation Commission