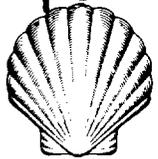


cc Hbr OCC
~~George Conner~~

make file

SWD-11

due 3-14



SHELL OIL COMPANY

P. O. Box 845
Roswell, N. M.

February 25, 1958

Subject: Request for authority to Dispose of
Salt Water in Ault Heirs No. 1 Well,
Caudill Field, Lea County, New Mexico

Mr. A. L. Porter, Jr.
Secretary-Director
New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Dear Mr. Porter:

We are hereby making formal application for administrative approval to dispose of salt water in the Ault Heirs No. 1 well, Caudill Field, Lea County, New Mexico. This well is located in Section 27, T-15-S, R-36-E, NMPM Survey, as shown on the attached plat.

We have obtained permission to use this salt water disposal well from the property owner, the State Engineers' Office, and from three of the six offset operators. The approvals are included with this letter. All offset operators were sent waivers by certified mail, and those operators who did not return the waiver were notified of our formal application by copy of this letter.

Very truly yours,

W. E. Owen
Division Manager

Attachments

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

APPLICATION
TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION
NOT PRODUCTIVE OF OIL OR GAS

POOL Name Caudill County Lea

Operator Shell Oil Company

Address P. O. Box 845, Roswell, New Mexico

Lease Name Ault Heirs Well No. 1

Depth to top of injection zone 4873 feet

Depth to base of injection zone 6500 feet

Size of surface casing 11 3/4 - inch

Length of surface casing 326 feet

Number of sacks of cement used on surface casing Circulated cement

Size of long string 8 5/8 ' inch

Length of long string 4873 feet

Number of sacks of cement used on long string Circulated 200 Sx

Size of tubing 3.5" OD Length of tubing 4900 feet

Depth of tubing packer setting 4800 feet

Name and model of packer Baker production packer 415-DA

Is injection through tubing or long string or annulus? Tubing

Is injection through perforations or open hole? Open Hole

Was the well drilled for salt water disposal purposes? No

List perforated intervals and number of sacks of cement used on any squeeze cementing operations None

What is depth of the shallowest zone productive of oil or gas in this Pool 10,000 feet

What is depth of the deepest zone containing fresh water in this Pool? 300 feet

Are there any other salt water disposal wells in this Pool using this same zone for injection purposes? No If so, list operator, lease and well number

What is the approximate volumem of salt water to be injected daily? 8,000 Bbls.

Will system be open or closed type? Closed

Will injection be by gravity or pump pressure? Pump

If by pump pressure, give approximate number of pounds per square inch Unknown

Will it be necessary for water to be filtered or chemically treated? No

Is this well so cased and completed that water can enter no other formation than the above setout injection zone? Yes

1. Attach a complete full-scale electrical log of this well (one Copy to OCC only).
2. List names and addresses of all offset operators and surface owners.

<u>A. C. Holder - Lovington, New Mexico</u>	<u>Virgil Linam, Hobbs, N. M.</u>
<u>Leeman Jones - Lovington, New Mexico</u>	<u>Charles B. Read, Roswell, N.M.</u>
<u>McAlester Fuel Company, Magnolia, Ark.</u>	<u>Tidewater Associated Oil Co.,</u>
<u>Humble Oil & Refining Co., Hobbs, N. M.</u>	<u>Midland, Texas</u>

3. Have notices of this application been sent by registered mail or given to all offset operators, surface owners and to the N. M. State Engineer? Yes
4. Attach waivers from all offset operators.
5. Attach waivers from surface owners of land on which well is located or a letter from company making application to the surface owner explaining said application and requesting waiver.
6. No application will be processed until Item 1 has been attached to the application. Should all necessary waivers not accompany application, the Commission shall hold such application for a period of fifteen (15) days from date of receipt in the Santa Fe Office. If, after said fifteen (15) day period, no protest or request for hearing is received in the Santa Fe Office, the application will then be processed.

Shell Oil Company
Operator

By W. E. Owen
Division Manager

THE STATE OF _____

COUNTY OF _____

BEFORE ME, The undersigned authority, on this day personally appeared _____ known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein and that said report is true and correct.

SUBSCRIBED AND SWORN TO before me, this the _____ day of _____ 19____.

Notary Public in and for _____
County, _____

<p>21 A. C. Holder 1962</p>		<p>22 McAlester Fuel 8-16-56</p> <p>✓</p>
<p>W. E. Caudill Humble</p>	<p>C. I. Ault Humble 7-1-57</p>	<p>State Virgil Linam Ratcliff, et al Chas. B. Read</p>
<p>28 C. L. Ault Humble 1960</p>	<p>Ault Heirs, et al Humble 3-8-58</p> <p>✓</p>	<p>27 R. C. Dean Tidewater 10 10-58</p> <p>✓</p>
<p>W. E. Sumruld</p>	<p>W. E. Sumruld</p>	<p>State</p>

Proposed Disposal Well
CAUDILL FIELD WATER DISPOSAL WELL
T-15-S, R-36-E, Section 27

W A I V E R

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Gentlemen:

We have been informed by Shell Oil Company that they are making an application, as provided in Order R-930, for administrative approval to use Humble's Ault Heirs No. 1 for salt water disposal in the Caudill Field.

We understand that all salt water produced in the Caudill Field, Lea County, New Mexico will be injected into the San Andres and Glorieta formations through this well. We further understand that there is no oil or gas production from these formations within two miles of the above well.

You are respectfully advised that we hereby waive notice and hearing under Rule No. 701 (c) as to said application for permission to dispose of salt water in said well.

Yours very truly,

COMPANY

By: *L. L. Jones*

NAME

TITLE

W A I V E R

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

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Yours very truly,

STATE ENGINEER OFFICE

COMPANY

By: _____

NAME

Chief, Water Rights Division

TITLE

RECEIVED		
JAN 20 1958		
ROSWELL N. MEX.		
<i>WFO</i>		
<i>RE</i>		
<i>REC</i>		
Reply	Discuss	File

W A I V E R

Houston, Texas
Jan. 16, 1958

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

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Yours very truly,

HUMBLE OIL & REFINING COMPANY
COMPANY

James
Walt
Held By: *J. J. Holmes*
NAME
ASSISTANT PRORATION ENGINEER
TITLE

W A I V E R

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Gentlemen:

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Yours very truly,

McALESTER FUEL COMPANY

COMPANY

By:



NAME

General Production Superintendent

TITLE

W A I V E R

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

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You are respectfully advised that we hereby waive notice and hearing under Rule No. 701 (c) as to said application for permission to dispose of salt water in said well.

Yours very truly,

TIDEWATER OIL COMPANY

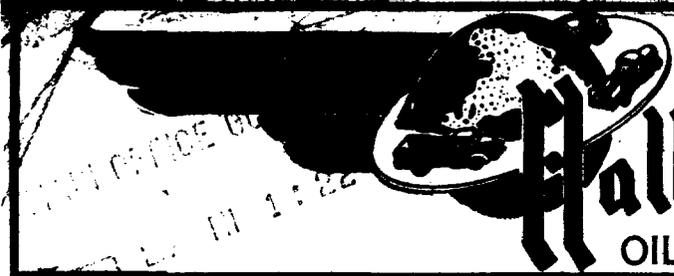
COMPANY

By: _____

Handwritten signature
NAME

DISTRICT SUPERINTENDENT

TITLE



Halliburton

OIL WELL CEMENTING CO.

ELECTRIC WELL LOG

COMPANY HUMBLE OIL & REF. COMPANY FILE WELL AULT HEIRS # 1 FIELD Dean Field Wildcat County Lea State New Mex.	COMPANY HUMBLE OIL & REFINING		Location	
	COMPANY _____ FILE _____		1980' Fr. N/L	
	WELL AULT HEIRS # 1		1980' Fr. W/L	
	FIELD Dean Field Wildcat		Sec. 27	
	COUNTY Lea STATE New Mex.		Twp. 15-S	
	SEC. 27 TWP. 15-S RGE. 36-E		Rge. 36-E	
	SURVEY _____		ES (GR-NG)	
	Log Measured From Drive Bushing		Elevation 3896	
	Drilling Measured From Drive Bushing		Elevation 3896	
	Permanent Datum Ground Level		Elevation 3883	

Run No.	ONE	TWO		
	5-28-57	8-2-57		
Footage Logged	4523'	6922'		
Total Depth, El. Log	4846'	11777'		
Total Depth, Driller	4850'	11788'		
Total Depth, Reached	4849'	11780'		
Csg. Shoe, El. Log	323'	4855'		
Csg. Shoe, Driller	326'	4873'		
Csg. Size	11 3/4"	8 5/8"		
Bit Size	11"	7 7/8"		
Mud-Kind	Water Base	Water Base		
Treatment	Salt	Magcobar		
	Gel	Caustic		
	Starch	Quebracho		
Weight	11.3	9.6		
Viscosity	44	70		
ph	@ °F	7.5 @ °F	@ °F	@ °F
Loss ml/ min	@ °F	8.4 @ °F	@ °F	@ °F
Res Ohms m ² /m	.04 @ 75°F	1.4 @ 90°F	@ °F	@ °F
Mud Res @ M.H.T.	.035 @ 95°F	.95 @ 140°F	@ °F	@ °F
Max. Temp.	95°F	°F	°F	°F
Source Mud Sample	Pit	Pit		

OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

DATE March 18, 1958

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

Re: Proposed NSP _____

Proposed NSL _____

Proposed NFC _____

Proposed DC _____

S&W 11

Gentlemen:

I have examined the application dated _____
for the Shell Oil Co. Ault Heirs #1
Operator Lease and Well No. S-T-R

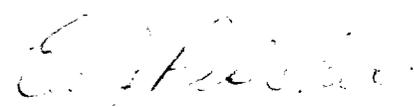
and my recommendations are as follows:

C.K.---E.J.F.

C.K.---J.W.R.

Yours very truly,

OIL CONSERVATION COMMISSION



Engineer