Union Oil Company of California 500 North Marienfeld, Midland, Texas 79701 P.O. Box 671, Midland, Texas 79702 Telephone (915) 682-9731

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Midland District



November 21, 1985

New Mexico Oil Conservation Commission P. O. Box 2088 State Land Office Building Santa Fe, New Mexico 87501

SUBJECT:

Union Oil Co. of California's Application for Administrative Approval Reentry of the South Caprock Queen Unit Well No. 10-30 Water Injection Well

Gentlemen:

Union Oil Company of California respectfully requests administrative approval to reenter the South Caprock Queen Unit Well No. 10-30, Section 30, T-15-S, R-31-E, 1980' FSL and 1980' FEL of section, Chaves County, New Mexico. We are proposing to reenter the subject well and use it to inject water into the Queen Sand for secondary recovery. The injection fluid will be produced water from the Queen Sand. Prior to abandonment in 1972, the well was being used for this same purpose.

In support of this application, we enclose the following:

- 1. Completed Forms C-101, C-102, and C-108.
- 2. A tabulation of well data for the proposed injection well including a schematic diagram of its present and proposed conditions.
- 3. A map identifying all wells and leases within a two-mile radius of the subject well.
- 4. A tabulation of well data on all wells within the one-half mile radius area of review, including schematic diagrams of all plugged wells illustrating plugging details.
- 5. Data concerning our proposed operating parameters for the well.
- 6. A water analysis of the injection fluid taken from the producing zone in the area. This is the same zone as the proposed injection zone.
- 7. A water analysis of a fresh water well located within one mile of the proposed injection well.

New Mexico Oil Conservation Commission South Caprock Queen Unit Well No. 10-30 November 21, 1985 Page Two

- 8. A copy of the letters sent to the surface owner, surface lessee, and offset leasehold operators notifying them of our application to inject.
- 9. A copy of the legal advertisement of our application, published in the Roswell Daily Record.

Should you require any further information concerning this application, please contact D. L. Watkins by telephone at 915/682-9731. Thank you for your consideration in this matter.

L. F. Thompson /

District Operations Manager

TLP:ggc Enclosures

of the earlier submittal.

OIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 97501

FURM C-108 Revised 7-1-81

APPI	TCATION	FUB	AUTHORIZATION	TO	INTECT
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ı.	Purpose: X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? X yes no
II.	Operator: Union Oil Company of California
	Address: P. O. Box 671, Midland, Texas 79702
	Contact party: D. L. Watkins Phone: 915/682-9731
11.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? X yesno Original Auth.No.R-1729 If yes, give the Division order number authorizing the projectExpansion Auth.No.R-260
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
II.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
х.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
II.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
II.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
IV.	Certification
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: D. L. Watkins Title District Engineer
	Signature: December 4, 1985

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- 8. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

NO. OF COPIES RECEIVED	1						
DISTRIBUTION	 	MEW	MENICO OIL CONS	EDVATION COMMES	ON .		
SANTA FE		NEW.	MEXICO OIL CONS	ERVATION COMMISSI		Form C-101 Revised 1-1-6	35
FILE					1	5A, Indicate	Type of Lease
U.S.G.S.	+-1					STATE	
LAND OFFICE						5. State Oil	& Gas Lease No.
OPERATOR						S. Capr	ock Queen Unit
						imm	unininini
APPLICATIO	N FOR PE	RMIT TO	DRILL, DEEPEN	, OR PLUG BACK			
1a. Type of Work	·					7. Unit Agre	ement Name
b. Type of Weil	Re-Ente		DEEPEN	PLU	BACK 🔲	S. Capr	ock Queen Unit
OIL GAS]	Water	- 4 - 4	SINGLE X	ULTIPLE ZONE	Sí Canro	ock Queen Unit
2. Name of Operator	<u> отн</u>	ER Inje	etion	ZONE LAI	ZONE L	9. Well No.	Jen queen onze
Union Oil	l Company	y of Cal	ifornia			Traci	: 48 Well 10
3. Address of Operator							ad Pool, or Wildcat
P.O. Box	671 Mid	dland, I	exas 79702		ľ	Capro	ock Queen
4. Location of Well UNIT LETT		LOC	ATED 1980	FEET FROM THE SOUT	h LINE	Titilli	
1080	Fac	c. t	30	15-c	1.5		
AND 1900 FEET FROM	LHE PO	TITITI	E OF SEC.	TWP. TS RGE.	NMPM	12, County	<i>Ж</i>
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	HHHH	HHH	******	19, Proposed Depth	19A. Formation		20. Rotary or C.T.
				3195'	Queen		
21. Elevations (Show whether DF 4441 GR	RT, etc.)	21A. Kind	& Status Plug. Bond	21B. Drilling Contractor N/A			. Date Work will start Approval
23.		L	POPOSED CASING A	ND CEMENT PROGRAM		1	
·	T		,				r
SIZE OF HOLE	***********	CASING	WEIGHT PER FOO	OT SETTING DEPT	H SACKS OF 200	CEMENT	EST. TOP Surface
7-7/8"	9-5 5-1		36# 14#	3195'	175		2625
7-1/8"	3-1	14	141/	3193	1/5		2023
				1			
Converted	to water	injecti	ion well 1	-29-64			
P&A 3-24-	72 P lu g	No. 1	in 5-1/2" cas:	ing 3100' - 28.	53'		
			,	·			
	Plug	No. 2	in 5-1/2" cas:	ing 55 sx at s	urface		
	- 0			•			
IN ABOVE SPACE DESCRIBE PETIVE ZONE, GIVE BLOWOUT PREVENT			PROPOSAL IS TO DEEPEN	OR PLUG BACK, GIVE DATA	ON PRESENT PRO	DUCTIVE ZONE	E AND PROPOSED NEW PRODUC-
I hereby certify that the informati	h 14.1	rue and comp	olete to the best of my	knowledge and belief.			
Signed WS, Wetten Fants	u J.R. Hug	hes	_{Tüle} Distric	t Drilling Supt	•	Date1	1-19-85
(This space for	State Use)						
APPROVED BY			TITLE			DATE	

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section.

Operator Union Oil Compar	y of California	Lease S. Caprock Que	en Unit Tract 48	Well No.				
Unit Letter Section	Township 15-S	Range 31-E	County					
J 30 Actual Footage Location of Well:	15.5							
1980 feet from the Ground Level Elev. Producing	South line and Formation	1980 fee	et from the	line edicated Acreage:				
	en Sand	Caprock Queen		40 . Acres				
1. Outline the acreage ded	icated to the subject w	ell by colored pencil o	or hachure marks on the	plat below.				
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).								
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?								
Yes No I	f answer is "yes." type o	of consolidation						
If answer is "no," list t this form if necessary.)_	he owners and tract des	criptions which have a	ctually been consolidate	ed. (Use reverse side of				
No allowable will be ass forced-pooling, or otherwision.	~		<u>•</u>	·				
				CERTIFICATION				
				att. al-a al- i-faat				
) 		tify that the information con- n is true and complete to the				
		1	best of my k	nowledge and belief.				
			Name District	J.R. Hughes Drilling Supt.				
		1	Position Union Oi	1 Company of Calif.				
!		1	Company					
		ĺ	Nov. 19	-83				
	\	4	I hereby ce	ertify that the well-location				
	\langle	(is plat was plotted from field tual surveys made by me or				
	\langle	\$	1 1	pervision, and that the same				
	<u>\</u>		knowledge a	•				
]					
			Date Surveyed					
		1	Registered Pro and/or Land S	ofessional Engineer urveyor				
		Ì						
0 330 660 '90 1320 1650	1980 2310 2640 200	0 1500 1000	Certificate No					

WELL LOCATION SURVEY PLAT

OPERATOR JOSEPH I. O'NEILL, JR.

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SEC. 30, TWP. 15 S., RGE. 31 E., N.M.P.M.

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FROM NOTES TAKEN IN THE FIELD BY ME AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

John W West

JOHN W. WEST, PE & LS NO. 676

III. Well Data

A. (1) Lease Name: South Caprock Queen Unit

Well No.: 10-30

Location: 1980' FSL & 1980' FEL, Section 30, T-15-S, R-31-E,

Chaves County, New Mexico

(2) Casing Record: 9-5/8" casing set at 315' in 12-1/4" hole,

cemented with 200 sacks, circulated. 5-1/2" casing set at 3195' in 7-7/8" hole, cemented with 175 sacks. Top of cement calculated at 2625'. (100% efficiency).

(3) Tubing: 2-3/8" 4.70# J-55 8rd EUE internally plastic-

coated tubing set at approximately 3100'.

(4) Packer: Guiberson Uni pkr VI, set at approximately

3100'.

B. (1) Injection

Formation: Queen Sand

Field: Caprock Queen

(2) Injection

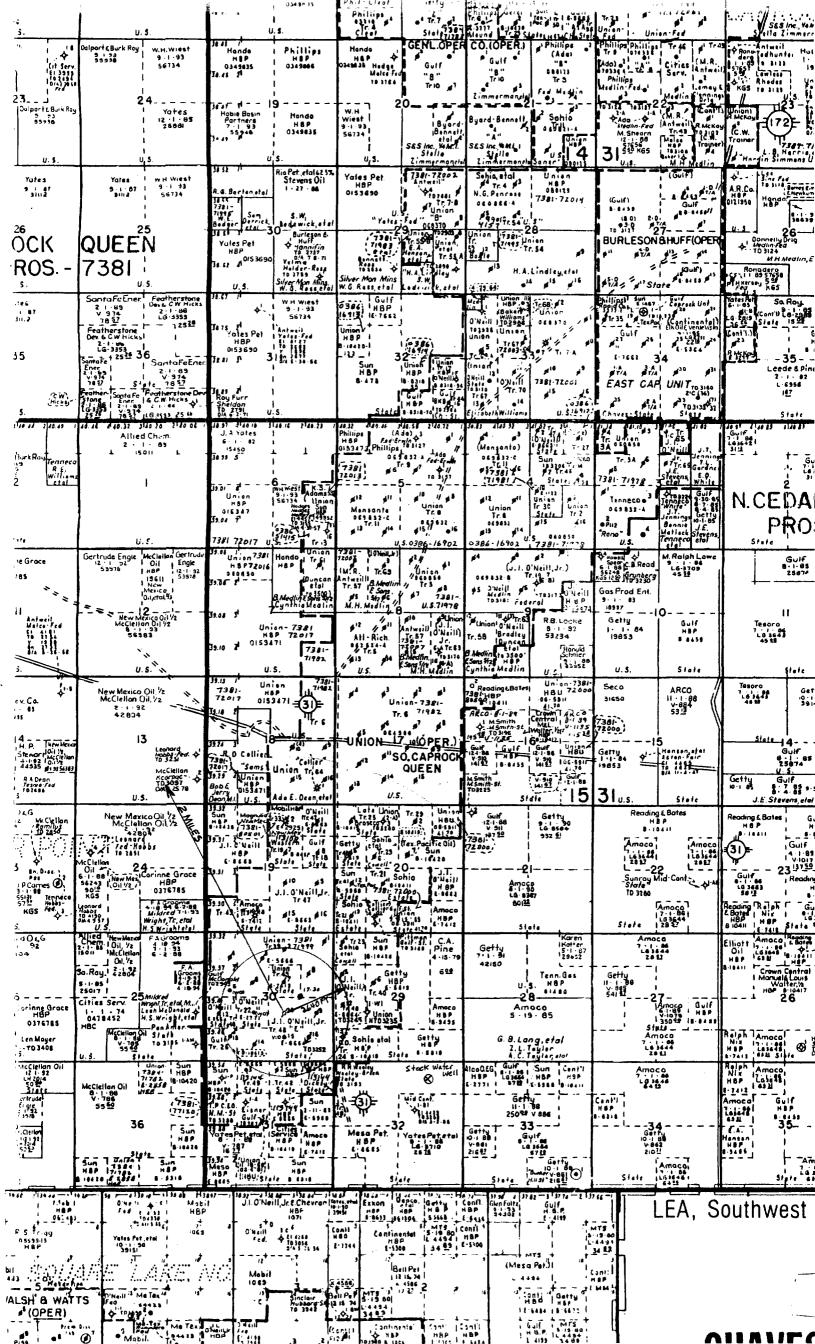
Interval: 3152-3165'

(3) This well was originally drilled as an oil well. It was converted to water injection January 29, 1964, and plugged and abandoned March 24, 1972.

(4) There are no other perforated intervals.

(5) There are no known higher or lower oil or gas zones in the area of the well.

CURRENT STATUS		PROPOSED STATUS
STEAR STEAR	PLUG No. 2 5 SKs CMt at Surface In 5 1/2 "Casing. 95/8" casing c 315'. CMtd w/ 200 sxs, Circ.	
		2: 78" 4.7# 8 RD EUE J-55 PCID INJECTION THBIN approximately 3100"
いいからいからいからいからいからいからいいからいいからいいからいからいからいから	Top of Cement Calculated to be at 2625' outside 5'%" casing PLUG No. 1 25 sks amt from 3100' - 2853' in 5'2" csz. Pertorations Queen Sand 3152-53', 3160-65' w/ 3153-3160" w/ 85pt 5'2" csg c 3195' cmtd w/ 75 sxs	Causserson Unipki II approximately 3100' Queen Perts 3152-3165'
TO:3195' PBTO:3175'	Cm+d w/ 75 sxs	



VI. Tabulation of Well Data Within Area of Review

Well No. Description

South Caprock Queen Unit

(SCQU) 12-29

Location: 2310' FSL & 330' FWL, Section 29,

T-15-S, R-31-E

Water Injection Well Type:

Date Drilled: September 7, 1955 - September 23, 1955

8-5/8" csg set at 325' cmt'd w/200 sks Construction:

5-1/2" csg set at 3185' cmt'd w/175 sks

TD = 3188

Completion: Perf 3154-3167' w/6 SPF

Frac'd w/10,000 gals lease oil

Potential flowed 66 BOPD

thru 16/64" ck

Converted to water injection July 20, 1965. Injected

405 BWPD at 1280 psi.

Plugged and abandoned August 12, 1971

(Schematic attached).

South Caprock Queen Unit

(SCQU) 13-29

Location: 990' FSL & 330' FWL, Section 29,

T-15-S, R-31-E

Type: Water Injection Well

November 18, 1956 - December 28, 1956 Date Drilled:

12-3/4" csg set at 300' cmt'd w/250 sks

Construction: 8-5/8" csg set at 1325'

TD = 3187'

Plugged and abandoned December 28, 1956

Convert to water injection August 1, 1964 and

deepen to 3235'. 4-1/2" 9.5# csg set at 3234' cmt'd

w/250 sks. Perf 3188-3203' w/2 SPF

Plugged and abandoned August 12, 1971

VI. Tabulation of Well Data Within Area of Review - Continued

Well No. <u>Description</u>

South Caprock Queen Unit Location: 660' FNL & 1980' FEL, Section 30,

(SCQU) 2-30 T-15-S, R-31-E

Type: Water Injection Well

Date Drilled: July 15, 1955

Construction: 8-5/8" csg set at 315' cmt'd w/175 sks

5-1/2" csg set at 3138' cmt's w/200 sks

TD = 3138'

Completion: Perforate 3118-3130' w/4 SPF

Sand Frac'd w/8000 gals lease oil

Potential: Flowed 624 BOPD through 1/2" ck

Plugged and abandoned March 24, 1972

South Caprock Queen Unit

(SCQU) 3-30

Location: 990' FNL & 2310' FWL, Section 30,

T-15-S, R-31-E

Type: Producing Well

Date Drilled: November 15, 1955

Construction: 8-5/8" csg set at 300' cmt'd w/175 sks

5-1/2" csg set at 3138' cmt'd w/200 sks

TD = 3138

Completion: Perforate 3123-3130' w/4 SPF

Sand Frac'd w/8000 gals lease oil

Potential: Flowed 155 BOPD

through 1/4" ck

Plugged and abandoned March 24, 1972

South Caprock Queen Unit

(SCQU) 5-30

Location: 2310' FNL & 990' FWL, Section 30,

T-15-S, R-31-E

Type: Producing Well (Active)

Date Drilled: November 20, 1955

Construction: 8-5/8" csg set at 311' cmt'd w/175 sks

5-1/2" csq set at 3129' cmt'd w/200 sks

TD = 3129'

Completion: Perforate 3109-3123'

Sand Frac'd w/8000 gals lease oil

Potential: Flowed 290 BOPD through 1/4" ck

Plugged and abandoned March 24, 1972

Reentered on April 2, 1984. Perforated 3109-3123'. Acidized w/1000 gal. Potentialed 5 BOPD + 248 BWPD.

VI. Tabulation of Well Data Within Area of Review - Continued

Well No. Description South Caprock Queen Unit Location: 1980' FNL & 1980' FWL, Section 30, (SCQU) 6-30 T-15-S, R-31-E Type: Water Injection Well June 21, 1955 Date Drilled: 8-5/8" csg set at 320' cmt'd w/135 sks Construction: 5-1/2" csg set at 3148' cmt'd w/200 sks TD = 3148Perforate 3125-3139' w/4 SPF Completion: Sand Frac'd w/8000 gal lease oil Potential: Flowed 618 BOPD through 3/4" ck Plugged and abandoned March 24, 1972 South Caprock Queen Unit 1980' FNL & 1980' FEL, Section 30, Location: (SCQU) 7-30 T-15-S, R-31-E Type: Oil Well Date Drilled: July 31, 1955 - July 24, 1955 Construction: 8-5/8" csg set at 315' cmt'd w/330 sks 5-1/2" csg set at 3137' cmt'd w/150 sks Open Hole - 3137-3159' TD = 3159'Frac'd open hole 3137-3159' w/20,000 Completion: gals oil Potential: Flowed 70 BOPD on 16/64" ck Plugged and abandoned March 24, 1972. South Caprock Queen Unit Location: 1650' FNL & 990' FEL, Section 30, T-15-S, R-31-E Type: Water Injection Well Date Drilled: July 13, 1955 - July 24, 1955

Construction: 8-5/8" csg set at 309' cmt'd w/175 sks

5-1/2" csg set at 3158' cmt'd w/200 sks

TD = 3159

Completion: Perfed 3140-3152' w/3 SPF

Frac'd w/8000 gals oil

Potential: 188 BOPD on 1/2" ck

Convert to water injection October 1, 1963

Plugged and abandoned March 24, 1972

VI. Tabulation of Well Data Within Area of Review - Continued

Well No. Description

South Caprock Queen Unit

(SCQU) 9-30

Location: 1980' FSL & 660' FEL, Section 30,

T-15-S, R-31-E

Type: Oil Well

Date Drilled: July 26, 1955 - August 16, 1955

Construction: 8-5/8" csg set at 314' cmt'd w/200 sks

5-1/2" csg set at 3203' cmt'd w/175 sks

TD = 3205

Completion: Perf 3157-3169' w/8 SPF

Natural completion

Potential: Flowed 144 BOPD on 16/64" ck

Plugged and abandoned March 24, 1972

South Caprock Queen Unit

(SCQU) 11-30

Location: 1980' FSL & 1962.8' FWL, Section 30,

T-15-S, R-31-E

Type: Oil Well

Date Drilled: May 19, 1955 - June 8, 1955

Construction: 9-5/8" csg set at 315' cmt'd w/200 sks

5-1/2" csg set at 3181' cmt'd w/175 sks

TD = 3182

Completion: Perf 3143-3151' w/8 SPF

Natural completion

Potential: Flowed 144 BOPD on 16/64" ck

Plugged and abandoned March 24, 1972

Reentered March 27, 1984. Perf 3143-51' w/2 SPF.

Acidized w/1200 gals 15% HCl acid.

Potential (May 14, 1984): Pumped 7 BOPD + 266 BWPD

South Caprock Queen Unit

(SCQU) 12-30

Location: 1880' FSL & 501' FWL, Section 30,

T-15-S, R-31-E

Type: Water injection well

Date Drilled: October 19, 1955

Construction: 8-5/8" csg set at 207' cmt'd w/180 sks

5-1/2" csg set at 3009' cmt'd w/175 sks

TD = 3010'

Completion: Perf 2982-2989' w/6 SPF

Sand Frac'd w/10,000 gal lease oil Potential: Flowed 960 BOPD on 24/64"ck

Convert to water injection February 26, 1964 at 580 BWPD, 0 psi

00 but b, 0 ps t

Plugged and abandoned March 24, 1972

VI. Tabulation of Well Data Within Area of Review - Continued

Well No. Description

South Caprock Queen Unit

(SCQU) 13-30

Location: 990' FSL & 972' FWL, Section 30,

T-15-S, R-31-E

Type: Oil Well

Date Drilled: May 11, 1956

8-5/8" csg set at 208' cmt'd w/150 sks Construction:

4-1/2" csq set at 2901' cmt'd w/75 sks 3-1/2" liner 2837-3008' cmt'd w/25 sks

TD = 3060'

Perf 2990-3004' w/4 SPF Completion:

Sand Frac'd w/8000 gals lease oil

Potential: Pumped 276 BOPD

Plugged and abandoned March 24, 1972

South Caprock Queen Unit

(SCQU) 14-30

Location: 990' FSL & 2293' FWL, Section 30,

T-15-S, R-31-E

Type: Water Injection Well

Date Drilled: May 30, 1955 - June 20, 1955

Construction: 9-5/8" csg set at 322' cmt'd w/200 sks

5-1/2" csg set at 3185' cmt'd w/175 sks

TD = 3186

Perf 3184-3160' w/8 SPF Completion:

Frac'd w/10,000 gals lease oil

Potential: Flowed 296 BOPD on 30/64" ck

Converted to water injection February 27, 1964.

Injected 700 BWPD on vacuum.

Plugged and abandoned March 24, 1972

South Caprock Queen Unit

(SCQU) 15-30

1980' FEL & 990' FSL, Section 30, Location:

T-15-S, R-31-E

Type: Oil Well

Date Drilled: August 3, 1955 - August 31, 1955

8-5/8" csg set at 322' cmt'd w/200 sks Construction:

5-1/2" csg set at 3186' cmt'd w/175 sks

TD = 3187'

Completion: Perf 3165-3176' w/8 SPF

Frac'd w/10,000 gals lease oil

Potential: Flowed 372 BOPD on 16-64" ck

Plugged and abandoned March 24, 1972

Reentered April 3, 1984. Perf 3163-3176' w/2 SPF.

Acidized w/2000 gals 15% HCl acid.

Potential (May 14, 1984): 5 BOPD + 275 BWPD

VI. Tabulation of Well Data Within Area of Review - Continued

Well No.	Description					
South Caprock Queen Unit (SCQU) 16-30	Location:	990' FSL & 990' FEL, Section 30, T-15-S, R-31-E				
	Type:	Water Injection Well (Active)				
	Date Drilled:	September 12, 1955				
	Construction:	8-5/8" csg set at 305' cmt'd w/100 sks 5-1/2" csg set at 3195' cmt'd w/175 sks TD = 3200'				
	Completion:	Perf 3172-3184' Sand Frac'd w/10,000 gals lease oil Potential: Flowed 319 BOPD on 24/64' ck				
	Converted to water injection April 18, 1966, 554 BWPD @1050 psi.					
	Plugged and abandoned March 24, 1972					
	Reentered and returned to injection February 1985.					
South Caprock Queen Unit (SCQU) 17-30	Location:	2630' FSL & 1330' FEL, Section 30, T-15-S, R-31-E				
	Type:	Oil Well (Active)				
	Date Drilled:	April 16, 1985				
	Construction:	8-5/8" csg set at 354' cmt'd w/300 sks 5-1/2" csg set at 3300' cmt'd w/750 sks TD = 3300'				
	Completion:	Perf 3158-78' Sand Frac'd w/12,000 gal gelled water Potential: Pumped 16 BOPD + 172 BWPD				
Pubco Drickey-State	Location:	Unit A, Section 31, T-15-S, R-31-E				
No. 3-A	Type:	0il Well				
	Date Drilled:	Unknown				
	Construction:	9-5/8" surface csg 5-1/2" csg set at 3252' TD = 3252'				
	Completion:	Perfs 3185-3191'				
	Plugged and abar	ndoned June 30, 1956				

VI. Tabulation of Well Data Within Area of Review - Continued

Well No. Description

South Caprock Queen Unit Location: 330' FNL & 990' FEL, Section 31,

(SCQU) 1-31 T-15-S, R-31-E

Type: Water Injection Well

Date Drilled: May 1, 1956 - May 31, 1956

Construction: 9-5/8" csg set at 327' cmt'd w/204 sks

5-1/2" csg set at 3217' cmt'd w/125 sks

TD = 3220'

Completion: Perf 3187-3191' w/4 SPF

Squeezed perfs w/100 sks Reperf 3185-88' w/4 SPF Frac'd w/10,000 gals oil

Potential: Pumped 48 BOPD + 50 BWPD

Converted to water injection July 1964

Plugged and abandoned August 12, 1971

South Caprock Queen Unit Location: 330' FWL & 2310' FEL, Section 31,

(SCQU) 2-31

Type: Water Injection Well

Date Drilled: October 25, 1956 - November 21, 1956

Construction: 13-3/8" csg set at 255' cmt'd w/100 sks

8-5/8" csg set at 1242'

T-15-S, R-31-E

5-1/2" csg set at 3087' cmt'd w/100 sks

Open Hole 3087-3095'

TD = 3095'

Completion: Frac'd open hole 3087-3095' w/10,000

gals oil

Potential: Pumped 47 BOPD

Converted to water injection June 27, 1966. Injected

490 BWPD at 1000 psi.

Plugged and abandoned March 1972

South Caprock Queen Elmit Well No. 12-29

Current wellboie schematic

Plus No.2 5 sxs cont at surface. B-5/B' Casing set at 325' cemented with 200 sxs. Cement circulated. Cement top calculated at 1852 outside 51/2" casing Plug No. 1 25 5x5 cement in 5½ cusing from 3100'-2853' Queen Sand perfs 3154-3167' W/ 6 holes per foot 5½" Casing set at 3185' cemented with 1755x5.

TD = 3188'

South Caprock Queen Unit Well No. 13-29

Current Well bore schematic

phyged 0/12/71

Plug No.2 5 sxs cement at surface

12-3/4" casing set at 300' comented w/250 sxs. coment circulation

B-5/8" cusing set at 1325"

Top of cement outside of 41/2" casing a 1794'

Plug No.1 20 SX's cement in 41/2" Cusing from 3200-2910'

Perfs
Queen Sand 3188-3203' W 2 hobs perfoot

41/2" 9,5 * cusing set at 32341 cemental w/250 sxs.

70 - 3235 (

		Flus No. 2 5 sxs cmt at surface in 5 1/2" casing	
		85/8" casing set at 315'. CM+d w/ 175 sacts, circulated.	
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λ		cement Top outside 5'2" casing calculated at 1615'.	
<u> </u>	k.		
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		(1)	
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}			
		PLUE No.1	
Į.	114 (1)	25 sks cement In 5½" casing from 3100' to 2853'	
$\int_{\mathbb{R}^{n}}$			
1:	10. CV		
},	.		
(2	<u></u>	Queen Sand 3118-3130' w/4 shots per toot	
]:		Queen Sand SII8-5.150 W/4 shots per tool	
		5 1/2" Casing set at 3138' cmtd w/ 200 sacks	
7	0:3138		

		at surface in 51/2" cas.	
-			** - **
)	85% casin	g set at 300', cemented w	1/175 sacks, Circulated.
			· · · · · · · · · · · · · · · · · · ·
			· · · · · · · · · · · · · · · · · · ·
	cement Top cale	culated at 1615' ocutside 3	'3' Casing,
	cement Top cale	culated at 1615' ocutside 3	'3' Casing,
	Cement Top cale	culated at 1615' ocutside 3	'z' Casing,
~ こうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょうしょう	Cement Top cale	culated at 1615' ocutside 3	'3' Casing,
ことがたいくない		culated at 1615' ocutside 3	'3' Casing.
	PLUG No. 1	ewated at 1615' ocutside 3	
	PLUE No. 1 25 sacks cont in Pertorations	15½" casing from 3100' -	2853'.
	PLUE No. 1 25 sacks cont in Pertorations		2853'.
	PLUE No. 1 25 sacks cont in Pertorations	15½" casing from 3100' -	2853'.

PLUG No. 2. 5 sacks cement at surface in 858" ensing. 8-518" casing set at 320' comented w/ 135 sxs, circulated. 5% casing cut off, Stub at 1256' Cement top calculated at 1625' outside 5'2" casing. 25 sacks cont from 3100'- 2853' in 5'k' casing Perforations Queen Sand 3/25-3/39 w/ 4 spots per foot 5½" casing set at 3148' cemented w/200 sxs. 70:3148

Current Wellbore Schematic Plug No. 2 5 sxs cement at surface 8-5/8" casing set at 315' cemented with 330 sxs. Cement circulated. cement top calculated at 1994 outside of 5 1/2" casing Plug No.1 25 sxs cement in 51/2" casing from 3100'- 2853' 5 1/2" cosing set at 3137' Comented W/150 sxs

43/4" open hole 3137-3159' Queen Sund.

TO = 3159'

Current Wellbore Schematic

Plug No. 2 5 sxs cement at surface.

8-518" casing set at 309' cemented w/ 175 sxs. Cement circulated.

Cement top calculated at 1635' outside of 5'2" cusing.

Plug No. 1 25 sxs cement in 5 1/2 "cusing from 3100'-2853".

Perfs aueen sand 3140-3152' w/3 holes per foot

5/2" casing set at 3158' cemented with 200 sxs

TO: 3159

Current wellbore Schematic

Plug No. 2 5 sxs cement at surface

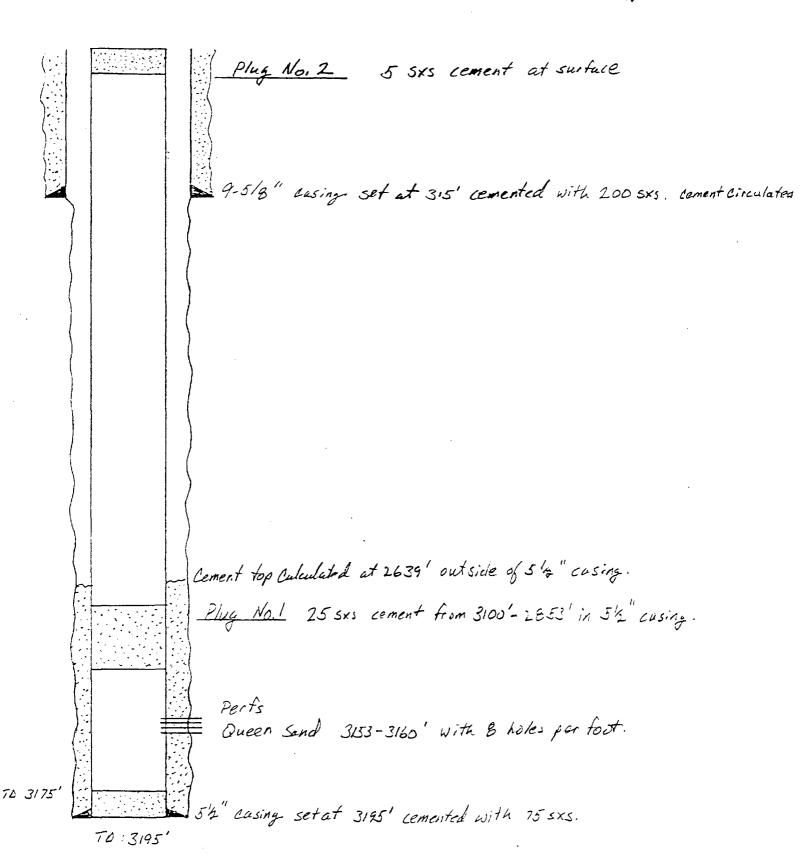
8-56" casing set at 314' comented with 200 sxs. Coment circulated

cement top calculated at 1870' outside 51/2" cusing

Plug No. / 25 sxs cement in 51/2" casing from 3100'-2853'.

Queen Sand 3157-3169' W/B holes per foot 5'2" casing set at 3203' comented with 175 sxs.

70:3205'



TD: 3010'

		Plub No. 2. 5 sks at surface in 5 1/2 " cusing.
		858 casing set of 207' cmtd w 180 sks, circulated.
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(<u> </u>
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h-		Cement Top outside 5'3" casing calculated at 1676'.
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	اليا.	
2		PLUS NO. 1
Ę n	经完成	25 sacks cmt in 51/2" casing from 2900'- 2653'.
$-\sqrt{\zeta_i}$	510190 C	
2	12, 5,000	(
	ر نا	Per forations
(E	5.5	Queen Sand 2982-2989 W/6 spt.
		\ <u>\</u>
		The state of the s
	TA: 30/0'	5'2" casing set at 3009', cemented w/ 175 sks.

5 sks cement at surface in 41/2" casing. 8-518 cusing set at 208' cmtd w/ 150 sacks, circulated Cement top outside 41/2" casing calculated at 2184' PLUG NO. 1 25 sks cement inside 41/2" casing from 2900'- 2538'. Perforutions Queen sund 2990 - 3004' W/ 4 spots per foot

3'2" liner set from 2837-3008'. cmtd w/25 sxs

41/2" casing set at 2901' cmtd w/ 75 sts.

Current wellbore schematic

5 sxs cement at surface Plug No. 2 9-5/8" casing set at 322' cemented w/200 sxs. Cement circulated. Top of cement outside 51/2 "casing at 1852" Plug No.1 25 sxs cement in 512" casing from 3100'-2853'. Queen sand 3148-3160' N/ 8 holes per foot 5'2" casing set at 3185' comented w/175 sxs.

TO = 3186 '

Current Wellbore Schematic

Plug No. 2 5 sxs cement at surface.

9-5/8" cusing set. at 327' cemented w/20x sxs. Cement Circulated

Top of coment outside of 51/2" cusing at 2265!

Plug No.1 20 sxs cement in 51/2" cusing from 3100' - 2822'.

Perfs
Queen sand 3187-3191' W/4 holes per foot - squeezel w/100 sxs cement
3185-3188' w/4 holes perfoot.

51/2" casing set at 3217' commented w/ 125 sxs.

TO = 3220'

170 = 3207

South Caprock Queen Unit Well No. 2-31 Current well bore schematic

Phyged 3/12

Plug No. 2 5 sxs cement at surface

13-318" set at 255' comented w/100 sxs. Coment circulated.

...

B-5/9" casing set at 12421.

Top of cement outside of 51/2 casing at 2325!

Plug No. 1 25 sxs cement in 5 2" cusing from 3000'- 2753'

51/2 casing set at 3087' cemented w/ 100 sxs.

43/4" openhole 3087-3095 (Queer Sand)

TO = 3095'

. ...

Pubco	Drickey-State	Well No. 3-A	plugged 6/30/56
·		Current Wellhore S	chematic
	551920913	Pluz No. 4 10 sxs ces	ment at surface
	一口ではない。	المساور المنافرة المن	in bottom of 9-5/8" casing.
	1017-000	9-5/8" cusing	
			en e
5½ "cusing stub at 2400'	15. 612131 57 8 15. 512131 57 8	Pluy No. 2 50' cement in	1 5½" cusing stub at 2400%.
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Plug No. 1 50' Cement Perfs Queen 3185-3191 1/2" cusing set at 3252'	nt in 5½" cusing over perforations
	TD=3252'	-	

- VII. Proposed Operation
 - 1. Proposed average daily injection rate 600 BWPD Proposed maximum daily injection rate 800 BWPD
 - 2. This will be a closed system
 - 3. Proposed average injection pressure 1000 psi Proposed maximum injection pressure - 1200 psi
 - 4. Source of injected fluid is Queen Sand formation. Analysis of produced water is attached.
 - 5. Injection is for waterflood purposes, with fluids being injected into the same zone they are produced from.
- VIII. The proposed injection zone in the South Caprock Queen No. 10-30, Section 30, T-15-S, R-31-E, Chaves County, New Mexico, is in the Shattuck (Sandstone) member of the Permian Queen formation, which is the uppermost 100' of the Queen formation. The top of the Queen formation is at 3150' (+1300') and the bottom of the sand is at 3170' (+1280'). The proposed injection zone is in the interval 3153' to 3165'. The proposed injection is in an arkosic sandstone and siltstone with small amounts of sandy anhydrite and sandy dolomite, which was deposited in a shallow marine, shelf-lagoon environment. There are no apparent faults or fractures in the field which would permit the migration of oil out of the Shattuck reservoir.

The only known source of drinking water in the area is at a very shallow depth, less than 300' in the Tertiary "Ogallala" formation, of the Lea County underground basin.

- IX. Proposed Stimulation Program

 The formation will acidized with 1500 gal 15% HCl with an aromatic solvent. Maximum treating pressure will be 2000 psi.
- X. Electric log of subject well is attached.
- XI. Analysis from fresh water well attached. Well is located in N/2 of NE/4, Section 32, T-15-S, R-31-E, Chaves County, New Mexico (only one well within one mile).
- XII. We have examined available geologic and engineering data and find no evidence of open faults or other hydrologic connection between the injection zone and any underground source of drinking water.
- XIII. Proof of notice to offset operators and surface owner is attached.
 Also attached is a copy of publication and affidavit by the publisher.





COMPANYUni	on Oil of	Califo	rnia							ANALYSIS	NUMBER
COMPANY ADD	PRESS				· · · · · · · · · · · · · · · · · · ·					DATE 9/26,	/84
FIELD						COUNTY	OR PARIS	SH		STATE	
	ck Quee					(HAVES CO.				IN.M.	
SOUTH SALE	Caprock Q	ueen s	#15-30	AE OR	NO.	WATER SO	N Sp	FORMAT	ION)	-	
DEPTH, FT.	BHT, OF	SAMPLE SO	URCE	TEMP	, of	WATER, B			BL/DAY	GAS, MMCF	DAY
DATE SAMPLED	4	TYPE OF W	ATER	٠	· · · · · · · · · · · · · · · · · · ·			1			
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REMARKS AN	D RECOMME	NDATIONS:				•		*1	NOTE: me/l	and mg/l a	re commonly

20° C SLIGHTLY CORROSIVE TENDENCY IS INDICATED 20° C CALCIUM SULFATE SCALING) IS POSSIBLE

*NOTE: me/I and mg/I are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

BAKER OIL TREATING REPRESENTATIVE	ADDRESS	TELEPHONE	
J. LEWIS		OFF:	RES:
ANALYZED BY:	DATE DISTRIBUTION		



								·
COMPANY	ODALT A						ANAL	YSIS NUMBER
UNION OIL OF CALIFO	CIRNIA			· · · · · · · · · · · · · · · · · · ·		·	DATE	<u>0564</u>
						i		10/22/84
CAPROCK QUEEN				COUNTY OR P			STAT	
LEASE OR UNIT	l WF	LL(S) NAM	E OR NO.	CHAVES WATER SOURCE	(FORMATIC	ON)	N.	<u>M </u>
SOUTH CAPROCK QUEEN UN	IT Fre	sh Water : /4 Sec. 37	Stock WELL IN T-15-5 R-31-E					
	WATER PUM	Þ	TEMP, °F	WATER, BBL/DA	Y OIL BE	BL/DAY	GAS.	MMCF/DAY
10/22/84	TYPE OF WATE		SUPPLY	☐ WAT	ERFLOOD	☐ SALT	WATER	DISPOSAL
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Sodium, Na ⁺ (calc.)				Specific Total D	Gravity dissolved So	lids (calc.)	505	772 3,6 mg/1*
ANIONS		84.5	3000	→ Stability	∕Index @. ⊚	20_•c		.54
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TOTAL SOLIDS (QUANTITA	TIVE)		5053.6	<u>. </u>				
REMARKS AND RECOMMENTELY		TENDEN	CY IS INDICAT	ED.	<i>ن</i> 1	sed interchar espectively.	ngeabl [.] Where	ng/I are commonly y for epm and ppm epm and ppm are nould be made fo
a 20 ⁰ C CALCIU™ SU	LFATE SCAL	TING IS	UNLIKELY.			pecific gravi		
BAKER OH TREATING REPRES	SENTATIVE	ADDRESS				TELEPHONE		
O : C. 10						OFF:		RES:

DISTRIBUTION

Union Oil Company of California 500 North Marienfeld, Midland, Texas 79701 P.O. Box 671, Midland, Texas 79702 Telephone (915) 682-9731



Midland District

November 22, 1985

State of New Mexico P. O. Box 1148 Santa Fe, New Mexico 87501

SUBJECT:

Reentry of Union Oil Company of California's South Caprock Queen Unit Well No. 10-30 To Inject Produced Water

Gentlemen:

This is notification to you, as owner of the surface land and as a leasehold operator within one-half mile of the proposed injection well location, that Union Oil Company of California proposes to reenter the South Caprock Queen Unit Well No. 10-30, Section 30, T-15-S, R-31-E, 1980' FSL and 1980' FEL of section, Chaves County, New Mexico, and use it to inject produced water. Injection will be into the Queen Sand through perforations from 3152' to 3165', with water produced from the Queen Sand. The well was being used in this manner prior to abandonment in 1972. Attached are copies of the applications for approval to inject. Any objections or requests for hearing of administrative application must be filed with Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501, within 15 days from the date this application was mailed to you.

Thompson

FOR District Operations Manager

TLP:ggc Enclosures

mailed "certified, return receipt requested" No. P 167 350 579

Union Oil Company of California 500 North Marienfeld, Midland, Texas 79701 P.O. Box 671, Midland, Texas 79702 Telephone (915) 682-9731



Midland District

November 22, 1985

Sun Exploration and Production Company P. O. Box 1861 Midland, Texas 79702

SUBJECT:

Reentry of Union Oil Company of California's South Caprock Queen Unit Well No. 10-30 To Inject Produced Water

Gentlemen:

This is notification to you, as a leasehold operator within one-half mile of the proposed injection well location, that Union Oil Company of California proposes to reenter the South Caprock Queen Unit Well No. 10-30, Section 30, T-15-S, R-31-E, 1980' FSL and 1980' FEL of section, Chaves County, New Mexico, and use it to inject produced water. Injection will be into the Queen Sand through perforations from 3152' to 3165', with water produced from the Queen Sand. The well was being used in this manner prior to abandonment in 1972. Attached are copies of the applications for approval to inject. Any objections or requests for hearing of administrative application must be filed with Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501, within 15 days from the date this application was mailed to you.

Very truly yours,

COP L. F. Thompson

District Operations Manager

TLP:ggc Enclosures

mailed "certified, return receipt requested" No. P 167 350 576

Union Oil Company of California 500 North Marienfeld, Midland, Texas 79701 P.O. Box 671, Midland, Texas 79702 Telephone (915) 682-9731

Midland District

November 22,1985

Zip Franklin P. O. Box 545 Lovington, New Mexico 88260

SUBJECT:

Reentry of Union Oil Company of California's South Caprock Queen Unit Well No. 10-30 To Inject Produced Water

Gentlemen:

This is notification to you, as lessee of the surface lands containing the proposed injection well location, that Union Oil Company of California proposes to reenter the South Caprock Queen Unit Well No. 10-30, Section 30, T-15-S, R-31-E, 1980 'FSL and 1980' FEL of section, Chaves County, New Mexico, and use it to inject produced water. Injection will be into the Queen Sand through perforations from 3152' to 3165', with water produced from the Queen Sand. The well was being used in this manner prior to abandonment in 1972. Attached are copies of the applications for approval to inject. Any objections or requests for hearing of administrative application must be filed with Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501, within 15 days from the date this application was mailed to you.

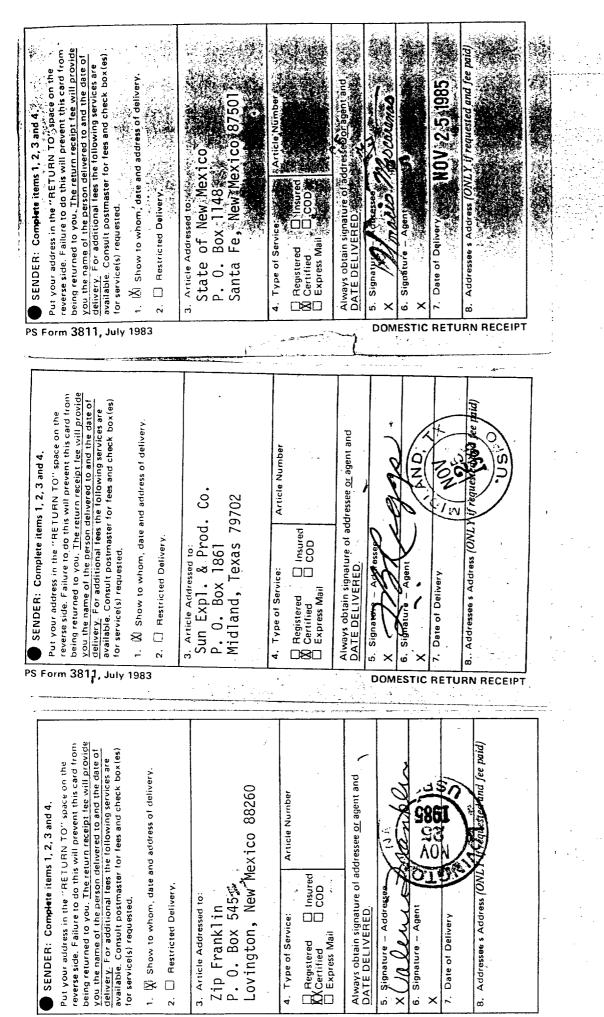
Very truly yours

F. Thompson

District Operations Manager

TLP:ggc Enclosures

mailed "certified, return receipt requested" No. P 167 350 578



AFFIDAVIT OF PUBLICATION

County of Chaves

State of New Mexico,
I,R.M. H.gginbotham
manager
Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published once a week in the regular and entire issue of said paper and not in a supplement thereof for a period
ofoneday
for one weeks
beginning with the issue dated
November29, 19.85
and ending with the issue dated
November 29 19.85 Sworn and subscribed to before me
this .29th day of
November 19.85 Letter Notary Public My commission expires
(Seal)

Publish November 29, 1985

NOTICE

CONERERN

Union in Oliver of California in the foliation in the injection in the injection

State of New Mexico







Commissioner of Public Lands

December 5, 1985

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148
Express Mail Delivery User
310 Old Santa Fe Trail
Santa Fe, New Mexico 87525

Union Oil Company of California P. O. Box 671 Midland, Texas 79701

Re: Reentry of Union Oil Company of California's

South Caprock Queen Unit Well No. 10-30

To Inject Produced Water

ATTENTION: Mr. L. F. Thompson

Jentlemen:

This office is in receipt of your letter dated November 22, 1985, wherein you have notified this office as owner of the surface land and as a leasehold operator within one-half mile of the proposed injection well location, that Union Oil Company of California proposes to reenter the South Caprock Queen Unit Well No. 10-30, Section 30-T15S-R31E, 1980' FSL and 1980' FEL, Chaves County, New Mexico and use it to inject produced water.

Please be advised that the Commissioner of Public Lands has no objection to your proposed request.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

JIM BACA

COMMISSIONER OF PUBLIC LANDS

BY: Ray W Graham by The RAY D. GRAHAM, Director Oil and Gas Division

AC 505/827-5744

JB/RDG/pm encls.

cc:

OCD-Santa Fe, New Mexico

BLM-Albuquerque, New Mexico Attn: Fluids Branch BLM-Roswell, New Mexico Attn: Mr. Armando Lopez

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

December 13, 1985

TONEY ANAYA

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88240 (505) 393-6161

of the state of		
OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501		
RE: Proposed: MC DHC NSL NSP SWD WFX PMX		
Gentlemen:	-	
I have examined the applica	ation for the:	
Union Oil Co. of Calif.	South Caprock Queen Unit Tr. 48 No. 10-J Lease & Well No. Unit S-T-R	30-15-31
Operator	Lease & Well No. Unit S-T-R	
and my recommendations are	as follows:	
0.KJ.S.		
Yours very truly, Jerry Sexton Supervisor, District 1		
/mc		

Reproduced By

West Texas Electrical Log Service

Dallas, Texas

REFERENCE Nº A 3937 -E

SCHLUMBBRGER WELL SURVEYING CORPORATION		
YHH!	(famma Ruy	-fleutron
1	COMPANY J. J. O'NEILL, JR.	Location of Well 1980' S&E/L Sec.30-155-31E
χ Queen E # T	WELL STATE E # 1	
Chaves Orickey State E	FIELD DRICKEY QUEEN LOCATION SEC. 30-155-31E	GRN (TL)
COUNTY FIELD or LOCATION WELL	COUNTY_CHAYES	Elevation: D.F.: K.B.: or G.L.: FILING No
RUN NO Date Depth Reference	6-14-55 KB 11'Aby.6L	
First Reading Last Reading Footage Measure Max Depth Read Bottom Driller	hed 3180	
Maximum Temp. Mud. Nature Density Viscosity	3175 109 Salt Gel	
Resistivity Casing Size & Weight Open Hole	5 1/2 to ID	© F.
Flory Level Recording Speed Sensity Top	GR) 100 N1280 GR)	
Time Constant Panel Opr Rig Time Sande Size & Typ	GNP-B # 47 2 #rs 2 3 5/8*	
Truck No	1762-Hobbs	

GAMMA RAY CALIBRATION+840-5 -160 c.p.s.-160 Divisions-200 Sens.Cal.-100Sens.Recorded, https://doi.org/100.1008/1008-9400.08-100.0004-9400.8ens.Cal. RECORDING SPEED (ID. 12950-2001-201-2050-1000-4000107-

