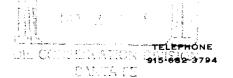
J. M. HUBER CORPORATION

OIL AND GAS DIVISION 1900 WILCO BUILDING MIDLAND, TEXAS 79701

MIDLAND DISTRICT OFFICE

January 21, 1985



State of New Mexico Energy & Minerals Department Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Re: J.M. Haber Corporation's
Application for Administrative
Approval to use the Cabot "Q"
State No. 1 for Salt Water
Disposal
Plane 8493

Gentlemen:

J.M. Huber Corporation respectfully requests administrative approval to dispose of produced water into the San Andres formation in the Cabot "Q" State No. 1, located 1980' FSL & 560' FWL of Section 7, T15S, R35E, Lea County, New Mexico. We are proposing to dispose of approximately 320 BPD of Wolfcamp produced water from the Superior State, Superior "A" State, James O'Neill State, and James O'Neill State Com.leases into the subject well.

In support of this application, we enclose a completed Form C-108, \land Application for Authorization to Inject with the following items of information which are requested on the Form C-108:

- 1. Item III Well data for the proposed injection well.
- 2. Item V A map identifying the subject well, and all other wells within two miles of this well.
- 3. Item VI. A table listing all wells within the one-half mile radius of review which have penetrated our proposed SWD interval and a well data sheet for each well listed.
- 4. Item VII. Data on the proposed operation.
 - Item VIII. Summary of appropriate geological data.
 - Item XI Description of proposed stimulation program.
 - Item XII Affirmative statement that no evidences of open faults or hydrologic connectional between the disposal zone and underground source of drinking water have been detected.
- 5. Item XI. Water analysis taken from two shallow fresh water supply wells located within one mile of the proposed SWD well.
- 6. Item XIII Proof of Notice consisting of the following:
 - A. The State of New Mexico is the surface landowner of the subject well's location, and this application is hereby submitted to the State.
 - B. Copies of letters sent to offset operators.
 - C. A copy of our legal advertisement of this request which was published in the Lovington Daily Leader on January 11, 1985.

Salt Water Disposal Cabot "Q" State No. 1 Page 2

If you need additional information, please contact Bill Horne in this office. Your early consideration of this request will be greatly appreciated.

Very truly yours,

Robert R. Glenn

District Production Manager

WGH/sgp

enclosures

ruhm L-100 Revised 7-1-81

Case 8493

PPLIC.	ATION FOR AU	THORIZATION TO INJECT		
I.	Purpose: Applica	Secondary Recovery Pressultion qualifies for administrative	re Maintenance 🔼 Disposo approval? 🗓 yes 📗 no	sl Storage
11.	Operator:	J.M. Huber Corporation		
	Address:	1900 Wilco Bldg., Midland, Tex	as 79701	
	Contact pa	rty: Bill Horne	Phone: (915) 6	82-3794
111.	Well data:	Complete the data required on th proposed for injection. Additio		
IV.		expansion of an existing project? ve the Division order number autho		•
٧.	injection	ap that identifies all wells and l well with a one-half mile radius c s circle identifies the well's are	ircle drawn around each pro	
VI.	penetrate	abulation of data on all wells of the proposed injection zone. Such e, construction, date drilled, loc	data shall include a descr	ription of each

- VII. 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; 3.

a schematic of any plugged well illustrating all plugging detail.

- 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.).
- *VIII. 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.
- Attach appropriate logging and test data on the well. (If well logs have been filed Χ. with the Division they need not be resubmitted.)
- Attach a chemical analysis of fresh water from two or more fresh water wells (if XI. available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
 - Applicants for disposal wells must make an affirmative statement that they have XII. 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.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- Certification XIV.

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name:	Robert R.	Glenn	 Title	District	Production	Manager
Signature:	Roll	RM-	 Date	: <u>/-</u> 2	-1-85	

If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. Well logs filed upon completion in 1956 and after re-entry

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.

- B. 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

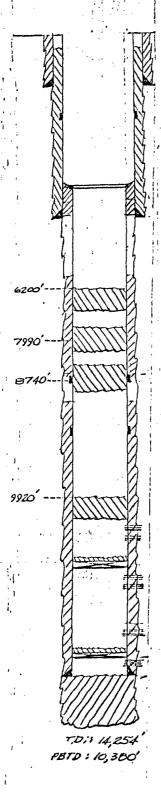
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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.



PROPOSED ABANDONMENT PROCEDURE

Cabot "Q" State No. 1 Lea County, New Mexico

- Spot a 200' (27 cu.ft.) cmt. plug above perfs from 10,120' to 9920' inside 5½" csg. Use 26 sks Class "H" w/0.2% HR-5 (retarder).
- 2. Spot a 200' (27 cu.ft.) cmt. plug across the casing patch at 8740' inside 5½" csg. Use 26 sks Class "H" with 0.2% HR-5.
- 3. Spot a 200' (27 cu.ft.) cmt. plug across the top of the Abo @ 7990' inside $5\frac{1}{2}$ " csg. Use 26 sks Class "H" w/0.2% HR-5.
- 4. Spot a 200' (27 cu.ft.) cmt. plug @ 6200' inside 5½" csg. Use 26 sks Class "H" w/0.2% HR-5

CABOT STATE "Q" Nº 1 Morton Wolfcamp Field Lea County, New Mexico

WELLS LOCATED WITHIN 1/2-MILE RADIUS OF REVIEW OF J.M. HUBER CABOT "Q" STATE #1 *

OPERATOR	LEASE & WELL NAME	LOCATION	TOTAL DEPTH	CURRENT STATUS
Union Oil Co. of Calif.	State "7" No. 1	Unit D, Sec.7,T15S,R35E	10,700'	P&A
J.M. Huber Corp.	James O'Neill St. #1	Unit E, Sec.7,T15S,R35E	10,500'	Producing
J.M. Huber Corp.	James O'Neill St. #3	Unit F, Sec.7,T15S,R35E	10,500'	Producing
J.M. Huber Corp.	Cabot "Q" State #1	Unit L, Sec.7,T15S,R35E	14,254'	SI
J.M. Huber Corp.	Superior St. #2	Unit L, Sec.7,T15S,R35E	10,500'	Producing
J.M. Huber Corp.	Superior St. #1	Unit K, Sec.7,T15S,R35E	10,500'	Producing
Great Western	Glen Cleveland #2	Unit J, Sec.7,T15S,R35E	10,618'	Producing
J.M. Huber Corp. (frmly Cabot & McAlester)	State "Q" No. 2	Unit M, Sec.7,T15S,R35E	10,445'	P&A
J.M. Huber Corp.	Superior "A" St.#1	Unit N, Sec.7,T15S,R35E	10,500'	Producing
Union Oil Co. of Calif.	Gulf Federal No. 1	Unit H, Sec.12,T15S,R34E	10,703'	SWD
J.M. Huber Corp.	Stoltz Federal #1	Unit J, Sec.12,T15S,R34E	10,400'	Producing
Union Oil Co. of Calif.	Union "A" Federal #1	Unit P, Sec.12,T15S,R34E	10,450'	Producing

^{*} Well data sheets are attached for all wells listed.

		LEASE		
	660' FNL & FWL	7	158	35E
ELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
Sche	matic	· T	abular Data	
,	· · · · · · · · · · · · · · · · · · ·	Surface Casing		
TITLL	5 20 SX. CMT. PLUG SURF. TO 36'	Size 11-3/4" @ 352'	" Camantad wi	th 525 -
	6 75 SX. CMT. PLUG	TOC circulated		
Lillin .	233' TO 368'	Hole size 15"	ieer determined B	у
all with	1/34" (SG @ 352'	HOTE SIZE		
Į		Intermediate Casing		
{		Size 8-5/8" @ 4626		
4	/ 75 SX.CMT. PLUG	TOC	fect determined by	calculation
	/ 75 SX.CMT. PLUG / 1383' TO 1500'	Hole size 11"		
	_8-% CSG. CUT @ 1496'	Long string		
	(2 1446 (2 TOCE 1837)	Size 5½" @ 10,700' "	Cemented wit	th400
N.	50 SX CMT, PLUG 4476' TO 4620'			
Trans		Hole size 7-7/8"		
1	5-½"CSG. CUT ~ @ 4620'	Total depth 10,700		•
1 5	8%"csg@ 4626"	Injection interval		
		feet t (perforated or open-ho	o le, indicate which	feet
	· TOCO 8872'	Spud: 9/8/64		
	TOC@ 8822'	Complete: 11/2/64 Perforations: 10,38	313011	
		Current Status: P &		
	, CIBP @ 10,300 T W/36 CMT CNTOP			
	TOP OF PUIG @ 10,2	64'		
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1 19				
and a	<i>,,,,,</i>	,		
	5/2 CSG @ 10,700	,		
			•	
bina size	lin	ed with(mate		set in a
		packer a	T.	teet
	nd and model)			
(bra	nd and model) any other casing-tubi	ng seal).		
(bra r describe		ng seal).		
(bra r describe her Data	any other casing-tubi	ng seal).		
(bra r describe <u>her Data</u> Name of	any other casing-tubi			
(bra r describe <u>her Data</u> Name of Name of	any other casing-tubing the injection formation field or Pool (if appl	n		
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(bra r describe her Data Name of Name of Is this If no, f	the injection formation field or Pool (if applia new well drilled for or what purpose was the well ever been perfora	nicable)	/ No?	rforated interva
(bra r describe her Data Name of Name of Is this If no, f	the injection formation field or Pool (if applia new well drilled for or what purpose was the well ever been perfora	icable) injection? / Yes e well originally drilled ted in any other zone(s)?	/ No?	rforated interva

	7221	LEASE		
	766' FSL & FEL	12	15S	34E
CCC NO.	FOUTAGE EUCATION	SECTION	TOWNSHIP	RANGE
			•	
Scho	ematic	Tab	ular Data	
	T	Surface Casing		
	\$	Size 11-3/4 @ 350' "	Cemented with	300 s
	11/4 @ 350'	TOC Circulated for	eet determined by	_
	22.17,4 @ 333	Hole size 15"		
1 115		Intermediate Casing		
1 119		Size 8-5/8" @ 4620"	Cemented with	400
		TOC 4557' re		
		Hole size 11"	eet determined by	Barvey
		Long string		
	TOC@ 4557'	Size 5½" @ 10,450' "	Cemented with	400
		rnc 7680' e-		
■	~ 8 % "csg.@ 4620	Hole size 7-7/8"	ser decermined by	Carculation
		Total depth 10,450'	PBTD: 10,419'	
	•	Injection interval		
- 4	TOC @ 7680'	feet to (perforated or open-hole		_ feet
. Like	2	(perforated or open-hole	e, indicate which)	-
Ŋ		Spud: 6/26/66		
		Complete: 8/02/66 Perforations: .10,335'	-369'. Lower Wol	fcamp
N		Current Status: produ		 -
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	_ 5½"(SG, @ 10,450	o'		
	_ 5/2"(SG, @ 10,450			
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oing size	lin	ed with(materi	al)	
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(brands size (brands)	lin and and model) e any other casing-tubi the injection formatio Field or Pool (if appl a new well drilled for for what purpose was th well ever been perfora e plugging detail (sack	ed with	7 No List all such perf	orated interva

Baker Lok-set packer at 5800' f (brand and model) (or describe any other casing-tubing seal). Other Data 1. Name of the injection formation San Andres 2. Name of field or Pool (if applicable) Not applicable 3. Is this a new well drilled for injection? / Yes / X No If no, for what purpose was the well originally drilled? Oil well in the Strawn camp formations	
Schematic Surface Casing Size 13-3/8" 6363' Cemented with 350	
Surface Casing Size 13-3/8" 8363' Cemented with 350 100 circulated Feet determined by Hole size 174" Intermediate Casing S70' Feet determined by Temp. S Hole size 124" TOP OF 5% LIMER Long atring Size 5-8012,160' Cemented with 155 Hole size 124" TOP OF 5% CAGE 4630' Total depth 14,254' PBTD: 10,380' Injection interval (Proposed) 4630' Feet to 6050 Feet to 6050 Feet to 507 Feet to 5	
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Intermediate Casing Size 9-5/8" @4630' " Cemented with 2300 TOC 570' Feet determined by Temp. Size 9-5/8" @4630' " Cemented with 2300 TOC 570' Feet determined by Temp. Size 5/2/2/2/2/2 " Commented with 1530 TOC 5620' Feet determined by Cmt. Be Hole size 7-7/8" Total depth 14,254' PBTD: 10,380' Injection interval (Proposed) 4630' Feet to 6050 Feet, Feet of 6050 Size Beau.	
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Size 5 2012,160' " Cemented with 159 100 5620' feet determined by Cmt. Both 14,254' PBTD: 10,380' Injection interval (Proposed) 4630' feet to 6050 feet, Feet of 52 Bowen CSG PATCH 5 2 Bowen CSG PATCH 6 5 140' 100 5620' More to 6050 feet, Feet of 6050 feet, Fee	
NOTE: The well will be plugged back to 6200' the strawn of the injection formation San Andres	
Hole size 7-7/8" Total depth 14,254' PBTD: 10,380' Injection interval (Proposed) 4630' feet to 6050 feet, Feet to 6050 Geffd Feet to 6050 feet, Feet to 6050 feet, Feet to 6050 Geffd Feet to 6050 feet, Feet, Feet to 6050 feet, Feet, Feet to 6050 feet, F	90 s
Hole size 7-7/8" Total depth 14,254' PBTD: 10,380' Injection interval (Proposed) 4630' feet to 6050 feet, F (perforated or open-hole, indicate which) 8 6740' Solvent CSG FATCH 8 9057' NOTE: The well will be plugged back to 6200'± and the top of the 5½" liner of squeezed prior to conv. 10 5W 25X CMT ON TOT to Squeezed prior to conv. 11 5W 25X CMT CN TOT 12 5X CMT PLUG 13,991-14,254' Tubing size 2-7/8" lined with 10 SC-650 plastic coating set (material) Baker Lok-set packer at 5800' feet to packer at 5800' feet, F 12 5X CMT PLUG 13 991-14,254' Tubing size 2-7/8" lined with 10 SC-650 plastic coating set (material) Saker Lok-set packer at 5800' feet to pack	ond Log
Injection interval (Proposed) 4630' feet to 6050 feet, F (perforated or open-hole, indicate which) 51/2 csp. Bc.W. 6 3057' NOTE: The well will be plugge back to 6200'± and the top of the 5½' liner converted schematic of proposed plug back) CIBIC 10,400 wy 2 sx. cmt. cm Tor 100 csx. cmt. cm Tor 100 csx. cmt. cm Tor 101 csx. cmt. cm Tor 102 csx. cmt. cm Tor 103 991-14,254 (material) Baker Lok-set packer at 5800' for describe any other casing-tubing seal). Other Data 1. Name of the injection formation San Andres 2. Name of field or Pool (if applicable) Not applicable 3. Is this a new well drilled for injection? Tyes No If no, for what purpose was the well originally drilled? Oil well in the Strawn camp formations 4. Has the well ever been perforated in any other zone(s)? List all such perforated and give plugging detail (cacks of cement or bridge plug(s) used) Strawn: 11,964-	
A630' feet to 6050 feet, F	
NOTE: The well will be plugged back to 6200!t and the top of the 5½ liner or squeezed prior to convert to SWD. (See attached schematic of proposed plug back) **CIBP@ 11,960'** **W 2 SX CMT. CW TOT* **ICC SX CMT. FLWG 13,991-14,254'* **Inbing size 2-7/8" lined with ICO SC-650 plastic coating set (material) **Baker Lok-set packer at 5800'* **ICC SX CMT. FLWG (material) **Inbing size 2-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 2-7/8" lined with packer at 5800'* **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 plastic coating set (material) **Inbing size 3-7/8" lined with ICO SC-650 p	
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NOTE: The well will be plugg back to 6200'± and the top of the 5½" liner or squeezed prior to convite SWD. (See attached schematic of proposed plug back) **CIBPE 11,9CO*** **W 2 SX CMT. CN TOF** **ICC SX CMT. PLUG 13,991-14,254' **IUDING size 2-7/8" lined with ICO SC-650 plastic coating set (material) **Baker Lok-set packer at 5800' for describe any other casing-tubing seal). **Other Data** 1. Name of the injection formation San Andres 2. Name of field or Pool (if applicable) Not applicable 3. Is this a new well drilled for injection?	
NOTE: The well will be plugg back to 6200'± and the top of the 5½" liner or squeezed prior to convito SWD. (See attached schematic of proposed plug back) **CIBPE 11,960'** **W 2 SX CMT. CN TOF** **ICC SX CMT. FLWG* **13,991-14,254'* **Tubing size 2-7/8" lined with ICO SC-650 plastic coating set (material) **Baker Lok-set packer at 5800'** **(brand and model)* *(or describe any other casing-tubing seal). **Other Data** 1. Name of the injection formation San Andres* 2. Name of field or Pool (if applicable) Not applicable 3. Is this a new well drilled for injection? /7 Yes / No **If no, for what purpose was the well originally drilled? Oil well in the Strawn camp formations 4. Has the well ever been perforated in any other zone(s)? List all such perforated and give plugging detail (sacks of cement or bridge plug(s) used) Strawn: 11,964-	
back to 6200'± and the top of the 5½" liner or squeezed prior to convito SWD. (See attached schematic of proposed plug back) ### 25x CMT. CN TOF ### 125x CMT. CN TOF ### 125	1
squeezed prior to convito SWD. (See attached schematic of proposed plug back) **CISP® 11,900** **W 2 SX. CMT. CN TOF** **ICC SX CMT. FLUG 13,991-14,254* **Iubing size 2-7/8" lined with ICO SC-650 plastic coating set (material) **Baker Lok-set packer at 5800** (brand and model) (or describe any other casing-tubing seal). **Other Data** 1. Name of the injection formation San Andres* 2. Name of field or Pool (if applicable) Not applicable 3. Is this a new well drilled for injection? /7 Yes /X No If no, for what purpose was the well originally drilled? Oil well in the Strawn camp formations 4. Has the well ever been perforated in any other zone(s)? List all such perforated and give plugging detail (sacks of cement or bridge plug(s) used) Strawn: 11,964-	•
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plug back) ### CIBP® 11,900 ### 2 SX CMT. CN TOF 12,991-14,254 Tubing size 2-7/8" lined with ICO SC-650 plastic coating set (material) Baker Lok-set packer at 5800' for (brand and model) Cor describe any other casing-tubing seal). Other Data	
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Loc sx CMT PLUG 13,991-14,254 Tubing size 2-7/8" lined with ICO SC-650 plastic coating set Baker Lok-set packer at 5800' for (brand and model) (or describe any other casing-tubing seal). Other Data Name of the injection formation San Andres Name of Field or Pool (if applicable) Not applicable Not applicable Not applicable Not If no, for what purpose was the well originally drilled? Oil well in the Strawn 'camp formations Has the well ever been perforated in any other zone(s)? List all such perforated and give plugging detail (sacks of cement or bridge plug(s) used) Strawn: 11,964-	
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'camp formations 4. Has the well ever been perforated in any other zone(s)? List all such perforated in and give plugging detail (sacks of cement or bridge plug(s) used) Strawn: 11,964-	and Wo
and give plugging detail (sacks of cement or bridge plug(s) used) <u>Strawn: 11,964-</u>	
Wolfcamp: 10,304'-375'; 414'-419'; 420'-424'; 513'-547' See above diagram	interva -987';
plugging details.	
 Give the depth to and name of any overlying and/or underlyimg oil or gas zones (por this area. Overlying: none 	ols) in

1	766' FWL & 1874' FNL	LEASE 7	150	2570
		SECTION	158 TOWNSHIP	35E RANGE
Schem	ntic	T al	bular Data	
		Surface Casing		
		Size 11-3/4" @ 440' "	Cemented wi	th 300 s.
		TOC Circulated		
	~	Hole size 14-3/4"	ecc determined b	у
		Intermediate Casing		
		Size 8-5/8" @4618"	Camantad wi	th 2050 .
		TOC Circulated		
		Hole size 11"	eet determined h	у
	TOC@ 3990'	noie size		
		Long string		
		Size $5\frac{1}{2}$ @ 10,500 "		
	~ 8½"csa.@ 4618"	TOC 3990'		y circulation to safety jt @ 4000
	0/8 (34. @ 4610	Hole size 7-7/8"		sarety jt @ 4000
		Total depth10,500'	PBTD: 10,451'	
	•	Injection interval		
		feet to (perforated or open-hal	e, indicate which	feet
		Spud: 8/22/81		
		Complete: 10/22/81	1 (011	
a a		Perforations: 10,321 Current Status: Prod		lfcamp
			0,	•
3 <i>1</i> 3				
∯ .				
#				
THE	5½"c5G.@ 10,50	o'		
			•	
bina size	lined	with(mater		set in a
_				
(bran	nd and model)	packer at	<u></u>	reet
r describe	any other casing-tubing	seal).		
her Data			•	
Name of t	the injection formation			
Name of F	ield or Pool (if applic	able)		
	new well drilled for i	njection? /7 Yes /		
•	. what aumage was the	well originally drilled?		
Is this a	or what purpose was the			
Is this a	or what purpose was the			
Is this a	vell ever been perforate	d in any other zone(s)?	List all such pe	rforated interva
Is this a	vell ever been perforate	d in any other zone(s)? of cement or bridge plug	List all such pe (s) used)	rforated interva
Is this a	vell ever been perforate	d in any other zane(s)? of cement or bridge plug	List all such pe (s) used)	rforated interva
Is this a If no, fo	vell ever been perforate plugging detail (sacks	d in any other zone(s)? of cement or bridge plug y overlying and/or under	(s) used)	

.M. Huber (LEASE		
3 .LL NO.	1980' FWL & FNL	7	15S	35E
LL NO.	FOOTAGE LOCATION	7 SECTION	TOWNSHITP	RANGE
· · · · · · · · · · · · · · · · · · ·			•	
Schema	itic		bulor Data	
TTEST		Surface Casing	•	
		Size 13-3/8" @ 424' "	Cemented with	n <u>640</u> s,
	= 133/8" CSG.@ 424	, TOC <u>Circulated</u>	feet determined by	
	13/8 (34,60 424	Hole size 17-1/2"		
		Intermediate Casing		
		Size <u>8-5/8" @ 4573</u> "	Cemented with	2000 ,
		TOC Circulated		
den	- TOC @ 3900'	Hole size11"	•	
		Long string / Size 5-12" @ 10,498' "		1190
	8% CSG. @ 4573			
J		7-7/8"	reet determined by	- Delia Bog
1 1		Hole size 7-7/8" Total depth 10,500' I	PRTD: 10 400'	
		total depth 10,500 1	10,400	
	•	Injection interval		
N.		feet to	o le, indicate which)	_ feet
1 1\(\tau\)				
		Spud: 4/8/84		
		Spud: 4/8/84 Complete: 6/15/84		
757		Complete: 6/15/84 Perforations: 10,258		
7577	·	Complete: 6/15/84 Perforations: 10,258	der CIBP @ 10,400'	
		Complete: 6/15/84 Perforations: 10,258 SI und	der CIBP @ 10,400'	
		Complete: 6/15/84 Perforations: 10,258 SI und	der CIBP @ 10,400'	
	CIBP@ 10,400'	Complete: 6/15/84 Perforations: 10,258 SI und	der CIBP @ 10,400'	
	CIBP@ 10,400'	Complete: 6/15/84 Perforations: 10,258 SI und	der CIBP @ 10,400'	
	- ,	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod	der CIBP @ 10,400'	
	5½"csa@ 10,4	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod	der CIBP @ 10,400'	
7777	5½"csa@ 10,4	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod	der CIBP @ 10,400'ducing, Lower Wolf	camp
7777	5½"csa@ 10,4	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod	der CIBP @ 10,400'ducing, Lower Wolf	
bing size _	5½°CSG@ 10,4	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod	der CIBP @ 10,400'ducing, Lower Wolf	set in a
bing size	5/2 csa @ 10,4 lined	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod with	der CIBP @ 10,400'ducing, Lower Wolf	set in a
bing size(brancer describe a	5½°CSG@ 10,4	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod with	der CIBP @ 10,400'ducing, Lower Wolf	set in a
bing size	lined d and model) any other casing-tubing	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod with	der CIBP @ 10,400'ducing, Lower Wolf	set in a
bing size	lined d and model) any other casing-tubing the injection formation	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod with	der CIBP @ 10,400'ducing, Lower Wolf	set in a
(brander describe a her Data Name of Fi	lined d and model) any other casing-tubing the injection formation ield or Pool (if applic	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod with	der CIBP @ 10,400'ducing, Lower Wolf	set in a
bing size	lined d and model) any other casing-tubing the injection formation ield or Pool (if applic	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod with	der CIBP @ 10,400'ducing, Lower Wolf	set in a
bing size	lined d and model) any other casing-tubing the injection formation ield or Pool (if applic	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod with	der CIBP @ 10,400'ducing, Lower Wolf	set in a
bing size (brance of the Data of the Name of the Sthis a of the Sthia a of the Sthis a of the S	lined d and model) any other casing-tubing the injection formation ield or Pool (if applicated the purpose was the casing the purpose was the casing the case of the casing the case of the casing the casing the casing the casing the casing the case of the casing the case of th	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod with	der CIBP @ 10,400'ducing, Lower Wolf	set in a feet
bing size (brance of the Data of the Name of the Sthis a of the Sthia a of the Sthis a of the S	lined d and model) any other casing-tubing the injection formation ield or Pool (if applicated the purpose was the casing the purpose was the casing the case of the casing the case of the casing the casing the casing the casing the casing the case of the casing the case of th	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod with	der CIBP @ 10,400'ducing, Lower Wolf	set in a feet
bing size (brance of the Data of the Name of the Is this a of the Is the world of the Is t	lined d and model) any other casing-tubing the injection formation ield or Pool (if applied new well drilled for it r what purpose was the cell ever been perforate plugging detail (sacks	Complete: 6/15/84 Perforations: 10,258 SI und Current Status: Prod with	der CIBP @ 10,400'ducing, Lower Wolf	set in a feet

1 1980' FSL & FNL 7 15S 35E FILL NO. 1607AGE LOCATION SECTION TOWNSHIP RANGE Schematic Tabular Data Surface Coming Size 13-3/8" @420' " Commented with 560 TOC circulated feet determined by 100 circulated fe	.M. Huber Co	rporation	Superior State	**************************************	
Surface Casing Size 13-3/8" @420' Cemented with 560 TOC circulated feet determined by Intermediate Casing Size 8-5/8" @ 4576' Cemented with 2100 TOC circulated feet determined by - Hole size 11" Long string Size 5½ @ 10,498' Cemented with 1460 TOC 5960' feet determined by cmt Bond Lo Hole size 7-7/8" Total depth 10,500' PBTD: 10,420' Injection interval feet	_				
feet to feet (perforated of open-hole, indicate which) Spud: 11/3/83 Complete: 1/4/84 Perforations: 10,352'-416' 10,439'-443' SI under CIBP @ 10,420 Current Status: Producing from Lower Wolfcamp CIBP@ 10,420' 5½'CSq @ 10,496' [ubing size	Schema	133/6" CSG.@ 420	Surface Casing Size 13-3/8" @420' ' TOC circulated Hole size 17½" Intermediate Casing Size 8-5/8" @ 4576' ' TOC circulated Hole size 11" Long string Size 5½ @ 10,498' " TOC 5960'	Cemented with feet determined by Cemented with feet determined by Cemented with feet determined by	s
CIBP@ 10,420'			feet to perforated or open-ho Spud: 11/13/83 Complete: 1/4/84 Perforations: 10,35	o le, indicate which) 2'-416' 9'-443' SI under	CIBP @ 10,420'
(brand and model) packer at feet	<u>. 1</u>	CIBP@ 10,420' 5½"CSG@ 10,498'		•	
(brand and model)	ubing size _	lined	(mate	rial)	
. Name of the injection formation . Name of Field or Pool (if applicable) 3. Is this a new well drilled for injection? /// Yes /// No If no, for what purpose was the well originally drilled?	or describe and ther Data Name of the Name of Fig. 1s this and 1f no, for	any other casing-tubing the injection formation tield or Pool (if application) the well drilled for the second control of the second	eable)	/_7 No	<u>,</u>

PERATOR	Corporation	Superior State	***************************************	
2	1980¹ FSL & 810¹ FW.	7	15¢	25 E
CLL NO.	1980' FSL & 810' FWL FOUTAGE LUCATION	SECTION	TOWNSTITE	35E RANGE
Schem	ntic	T at	oular Data	
		Surface Casing		
		Size 13-3/8" @ 406 "	Cemented with	460 s
		TOC Circulated		
	13-36 CSG.@ 406	Hole size 17½"		
		Intermediate Casing		
		Size 8-5/8" @ 4600 4	Cemented with	1900
		Toc <u>Circulated</u>	eet determined by	_
		Hole size 11"		
A.	TOC@ 4240	Long string		
		Size $5\frac{1}{2}$ " @ 10,500	Cemented with	1525
	8% "csa.@ 4600"	TOC 4240' f	eet determined by	Temp Survey
	- 78 · · · · · · · · · · · · ·	Hole size 7-7/8"		
		Total depth	PBTD: 10,456'	
	·	Injection interval		for a t
		feet to (perforated or open-hol	e, indicate which)	feet
		Spud: 8/17/84 Complete: 9/24/84 Perforations: .10,406		
		Current Status: Produ	ucing, Lower Wolfd	camp
	•			
		•		
nn	<i>,,,,</i> ,,			
	5½"csq.@ 10,500"		•	
bina size	lined	with		set in a
-		(mater	ial)	faat
(bran	d and model)	packer ac		Teet
r describe	any other casing-tubing	seal).		
her Data				
Name of t	he injection formation _			
Name of F	ield or Pool (if applica	ble)		
Is this a	new well drilled for in	jection? / Yes /	_7 No	
If no, fo	r what purpose was the w	ell originally drilled?		
Has the w	ell ever been perforated plugging detail (sacks o	in any other zone(s)? I cement or bridge plug	List all such perf (a) used)	orated interva
and give				
and give				
	depth to and name of any	overlying and/or under	lyimg oil or gas zo	nes (pools) in

	Western	Glen Cleveland			
OPERA		LEASC			
WCLL I	2080' FSL &			15S	35E
WLLL 1	NO. FOOTAGE LOC	ATION SECTION		TOWNSHIP	RANGE
				•	
ŧ	Schematic		Tabular	<u>r Data</u>	
771		Surface Casing	,	•	
别		Size $\frac{13-3/8}{2}$	453 "	Cemented with	475 sx.
		TOC <u>circulate</u>	ed feet	determined by	
	13% 0	69.0 453 Hole size1	.7 "		
N		Intermediate Ca	ısinq		
\mathcal{H}		Size 9-5/8" @ 4	۱630 ' "	Cemented with	sx.
	18				· · · · · · · · · · · · · · · · · · ·
	N N			determined by	
		Hole size	124		
	TOCE	4500' Long string			
	70c@	Size 5½" @ 10,	,618' "	Cemented with	1308 sx.
	780	Toc 4500	fect	determined by	Temp. Survey
1/	1/2	Hole size 7-7		_	zemp. Bulvey
		Total depth 1			
		Injection inter			
	13				feet
		(perforated or	open-hole, i	ndicate which)	_ 1000
	K	Spud: 7/13/84			
	Maria de la companya della companya della companya della companya de la companya della companya	Completion: 1 Perforations:		1	
9	<i>y</i>	Current Status			Wolfcamp
g					•
	<i>\\</i>			•	
4	Ź				
1/2	<u> </u>				
	姜				
Y	Va				
4	51/2 "CSG				
ATTO	5/2 (5G	@ 10,618		•	
Tubing	size	lined with	(material)		set in a
					feet
	(brand and model)				
(or de	scribe any other cas	ing-tubing seal).			
Other	Data				
1. Na	me of the injection	formation			
2. Na	me of Field or Pool	(if applicable)			
3. Is	this a new well dri	lled for injection? 💯	Yes	1 0	•
Ιf	no, for what purpos	se was the well originally	drilled?		
•					
4. Ha	s the well ever been	n perforated in any other zo ail (sacks of cement or bri	one(s)? List	t all such perf	orated intervals
សា	a give prugging deta	II (Sacks of Coment of Ott)	mjo prug(8) (2000/	
5. Gi	ve the death to and	name of any overlying and/	or underlyimx	oil or gas zo	nes (pools) in
		made of any oversym, and			The state of the s
والمراجعة					

Cabot Corpora	tion	"Q" State		
2 WELL NO.	660' FSL & 520' FWL FOUTAGE LOCATION	7 SECTION	15s TOWNSHIP	35E RANGE
<u>Schema</u>	tic	Ţa	bular Oata	
	- 10 SX, CMT. PLUG	Surface Casing	·	
		Size 13-3/8" @ 364 "		
mmm	~	TOC circulated	feet determined by	
4	2.5 SX, CMT. PLUG	Hole size 16"		
777777		Intermediate Casing		
	25 SX. CMT, PLUG	Size 8-5/8" @ 4618""	Cemented with	300 sx.
13/	\	TOC	feet determined by	
A	8% CSG. CUT @ 14-78'	Hole size		
	@ 1478'	Long string		
A A		Size None "	Cemented with	SX.
77777	85/"CSG.@ 4618"	TOC		
111111	~ 25 SX. CMT. PLUG	Hole size 7-7/8"	, .	
	~ W JX. UAII. FLUCT	Total depth 10,445'		
1	,25 SX: CMT, PLUG			
r	6020'-6120'	Injection interval		
		feet to (perforated or open-hol	le, indicate which)	_ feet
VIIII	- 25 3X CMT. PLUG 7250'- 7350'			
	, 220 7,530	Spud: 9/24/66 Complete: P & A		
		Perforations: None		
	— 25 SX.CMT PLUG 7980'-8180'	Current Status: P &	A 10/31/66	•
	7700-0100			
*		•		
·				
	- 50 SX. CMT. PLUG 10,245'-445'		•	
. (1)	, , , , ,			
Tubing size	lined	with(mater		set in a
,		(mater packer at		
(brand	l and model)	packer at	·	
(or describe a	iny other casing-tubing	seal).		
Other Data				
1. Name of th	ne injection formation _			
2. Name of Fi	eld or Pool (if applica	able)		
3. Is this a	new well drilled for in	njection? / Yes /		
If no, for	what purpose was the w	vell originally drilled?		
4. Has the we	ell ever been perforated olugging detail (sacks d	d in any other zone(s)? of cement or bridge plug	List all such perf g(s) used)	orated intervals
		y overlying and/or under		nes (pools) in

PERATOR 1	660' FSL & 1980' FWL	LEASE 7	158	35E
	FOUTAGE LOCATION	SECTION	TOWNSHIP	RANGE
Schen	natic	Ya	bular Data	
	_	Surface Casing		•
	- TOC @ 600'	Size 13-3/8" @ 440' "	Cemented wit	th <u>460</u> s
	13% cscr.@ 440'	TOC circulated	feet determined by	,
	13% CSG.@ 440	Hole size $17-\frac{1}{2}$ "		
		Intermediate Casing		
		Size 8-5/8" @ 4556' "	Cemented wit	h 2040
		TOC 600'	feet determined by	Temp Survey
		Hole size 11"	Used 1" tbg. to	cmt from 158' urface w/140 s
	- TOC @ 4470'	Long_string		·
	TOC @ 4470' 85/"csG.@ 4556'	Size 5½" @ 10,500' "	Cemented wit	h 1320
		TOC 4470'		
		Hole size 7-7/8"		
		Total depth 10,500'	PBTD: 10,448	1
	•	Injection interval		
		feet to (perforated or open-hol) Le. indicate which	feet
1		Spud: 9/12/84	id, indiedec uniten	,
		Complete: 10/29/84		
		Perforations: 10,36	64'-373' 67'-473' SI unde	r CIRP @ 10 ፊፊ
	·	Current Status: Pro		
#	•		•	
		·		
	CIBP@ 10,448'			
	CIBP @ 10,448'			
	5/2 CSG, (a) 10,500		•	
hina size	lined	with		set in a
		(mater	ial)	
(brai	nd and model)	packer at	·	
	any other casing-tubing			
her Dala				
Name of	the injection formation			
Name of 1	Field or Pool (if applic	able)		
	n new well drilled for i			
If no, f	or what purpose was the	well originally drilled?	· · · · · · · · · · · · · · · · · · ·	
Has the	well ever been perforate plugging detail (sacks	d in any other zone(s)?	List all such per	rforated interva
una givê	prugging octail (sacks	o. cement of orrays plug	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Give the	depth to and name of an	y overlying and/or under	lyimy oil or gas :	tones (pools) in

1	1090! ENT C 660! EET	10	1.50	0.1 —
TELL NO.	1980' FNL & 660' FEL	12 SECTION	15S TOWNSHIP	34E RANGE
	·			
Schen	natic	Ţa	bular Data	
		Surface Casing		
		Size 11-3/4" @ 376' "		
	t-113/4"C5G@ 376"	TOC circulated	feet determined by	_
		Hole size 15"		
		Intermediate Casing		
1 7		Size 8-5/8" @ 4621 "		
	•	toc 2575	feet determined by	calculation
		Hole size 11"		
		Long string		
		Size 5½" @ 10,703' "	Cemented with	sx
	~ 8% "CSA. @ 4621"	TOC 7000	feet determined by	calculation
		Hole size <u>7-7/8"</u>		
		Total depth 10,703'		
·K	_5½"CSG, CUT @ 5610'	Injection interval		
4	6 3610	4621' feet to open-ho	5610'	_ feet Open Hole
↓	•	5855' to 6583': perf		
17777 Ez	-75 SX. CMT. PLUG	Spud: 11/12/64		
¥22222	7186' to 7923'	Complete: 12/31/64	4 0 4 1	
amer en	CIBP@ 10,308' wy		in San Andres er Wolfcamp P & A :	in 1972
	45 SX. CMT. ON TOP TOC. @ 10,270'			
1	- CMT. RETAINER		**	
	@ 10,396' PERFS 10,417-424'			
	SQUEESED CMT. RETAINER			
	@ 10,470' PERFS 10,500'-504'	50 7 0		
mo	CIBP@ 10,580		•	
			٠	
ubing size	2-3/8" lined	with <u>Plastic Applica</u> (mater	tors 501	set in a
Guibersor	n Unipacker VI	packer at		feet
(bra	nd and model) any other casing-tubing	coall		
or describe Other Data	any other casing-coorng	Scal,		
	the injection formation	San Andres		
	Field or Pool (if application)			
•	a new well drilled for i		′₹7 No	
	or what purpose was the v		Lower Wolfcamp	
•	ell was depleted and P			
L. Has the	well ever been perforate	d in any other zone(s)?	List all such peri	orated intervals
and give	plunging detail (sacks -504'; 10,602'-607'; S	of cement or bridge plug)(s) used) <u>10,338'</u>	-349'; 10,417'-
Give the	depth to and name of an a. No overlying zones	y overlying and/or under have been identified.	lyimg oil or gos zo	ones (pools) in

	- 1980' FEL & 2130' FS	L 12	15S	34E
	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
			•	
Schema	tic	<u>Tat</u>	bular Data	
T TN		Surface Casing		•
		Size 13-3/8" @ 370' "	Cemented wi	th <u>275</u> sx
	13 % CSG. @ 370'	TOC <u>Circulated</u>	feet determined L	у
		Hole size 17½"		
		Intermediate Casing		
	TO 2 2 2 1 1 1 '	Size <u>8-5/8" @ 4330'</u> "	Cemented wi	th 200 s
	- TOC @ 3614'	тос 3614	feet determined b	y Temp. Survey
		Hole size <u>12½"</u>		
	- 85/ "csq.@ 4330"	Long string		
	- 0/B CALE 7550	Size 4½" @ 10,400' "	Cemented wi	th 240 s
N N	CMT SOX			
1.7	-CMT. SQZ 5472'-7480'	TOC 9750' f Hole size 7-7/8"	coles in csg. ha	ve been repaired
		Total depth 10.400'		cmt. squeezes fr 5472' to 7480'
		Injection interval		
				feet
		feet to (perforated or open-hol	e, indicate whic	h)
		Perforations: 10,242 Current Status: Prod		r Wolfcamp
mue	_ 4/2 "csg.@ 10,400"			
	1,72		•	
ubing size	lined	with(mater		set in a
		(mater	ial)	
(brand	and model)	packer at		1666
or describe a	ny other casing-tubing	seal).		
ther Data				
. Name of th	e injection formation			
. Name of Fi	eld or Pool (if applica	able)		
	new well drilled for i	njection? 🖊 Yes 🖊	_7 No	
. Is this a	what purpose was the	well originally drilled?		
If no, for				
If no, for				
If no, for	ell ever been perforate blugging detail (sacks)	d in any other zone(s)? of cement or bridge plug	List all such pe (a) used)	erforated interval
If no, for	ell ever been perforate Dlugging detail (sacks)	d in any other zone(s)? of cement or bridge plug	List all such pa (a) used)	erforated interval
If no, for	ell ever been perforate Dlugging detail (sacks)	d in any other zone(s)? of cement or bridge plug	List all such pa	erforated interval

VII. DATA ON THE PROPOSED OPERATION

1. Proposed average and maximum daily rate and volume of fluids to be injected.

Average rate: 320 BWPD Maximum rate: 1000 BWPD

Volume of fluids: Above rate until economic limit

is reached

2. Whether the system is open or closed: Closed

3. Proposed average and maximum injection pressure:

Average pressure: 100 psig Maximum pressure: 900 psig

4. Sources and appropriate analysis of injection fluid from the Lower Wolfcamp formation. See attached analysis.

Compatibility with receiving formation. Formation water from the Lower Wolfcamp is being injected into the San Andres formation in the Huber Stoltz State No. 1 (M-Sec. 6, T15S, R35E) and in the Union Gulf Federal No. 1-12 (H-Sec. 12, T15S, R35E) without any apparent compatibility problems.

- 5. Chemical analysis of disposal zone formation water. See attached tabulation of analyses taken from various San Andres wells in Lea County, New Mexico.
- VIII. SUMMARY OF GEOLOGIC DATA: The proposed injection zones in the J.M.

 Huber Cabot "Q" State #1, located in 1980' FSL & 560' FWL, Sec. 7,

 T15S, R35E, are in the Permian San Andres Formation; the subject
 interval occurs from 5840' (-1787) to 6050' (-1997) in that well.

 (See log for specific intervals) The respective tops of the San
 Andres Formation and Glorieta Sand occur at 4552' (-499) and 6200'

 (-2147). The overall interval is 210 feet thick and consists predominantly of brown-to-tan Dolomite with interbedded dense brown-to
 tan limestones. The dolomites vary from fine-to coarsely cyrstaline
 with indicated porosities ranging from 10% to 24% in the injection
 zones; tight carbonates with interbedded shales bound the proposed
 injection interval.

Injection of salt water into the proposed interval will not effect shallow fresh-water zones of the tertiary or triassic age units.

IX. DESCRIPTION OF PROPOSED STIMULATION PROGRAM

Acidize perforations 5839' to 6050' with 6000 gallons 15% NeFe HCl acid in 4 equal stages each separated by 500# rock salt in 10 bbls brine water.

XII. Available geologic and engineering data has been examined and no evidence of open faults or any other hydrologic connection exists between the dispensal zone and any underground source of drinking water.

709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521

RESULT OF WATER ANALYSES

	L.,	ABORATORY NO	185101	
TO: Mr. Bill Horne	5.4	MPLE RECEIVED	1-9-85	- Lander - L
1900 Wilco Building, Midland	, Texas	ESHLITS REPORTED	1-14-85	10 10 10 17 10
			/	AND A
COMPANY J. M. Huber Corporat	ion sere	Superior St	ate &	
• • • • • • • • • • • • • • • • • • • •			6	JAM 1965
FIELD OR POOL			P	
SECTION BLOCK SURVEY		<u>Lea</u> st	ATE MM	MECHINED AND
SOURCE OF SAMPLE AND DATE TAKEN:		611	ريا الو	J. M. HUBER COR
NO. 1 Brine sample used in	Superior State #1.	1-7-85 (NoT re	lated To Vs	APPIACE HON
> NO. 2 Produced (Wolfcamp) w	<u>ater – taken from S</u>	uperior State	#2. 1-7-85\	
				150
NO. 3			***************************************	
NO. 4			···	·········
REMARKS:				
СНЕ	EMICAL AND PHYSICAL I	PROPERTIES		
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.2152	1.0238		
pH When Sampled				
pH When Received	7.58	7.98		
Bicarbonate as HCO3	151	1,318		
Supersaturation as CaCO3				
Undersaturation as CaCO3		 		-
Total Hardness as CaCO3	13,200	3,100		
Calcium as Ca	630	800		
Magnesium as Mg	2,825	267		<u> </u>
Sodium and/or Potassium				
Sulfate as \$04	128,908	10.813		<u> </u>
Chloride as CI	11.467	2.880		
Iron as Fe	199.563	15.979		ļ
Barium as Ba	0.08_	0-47		
		 		
Turbidity, Electric		 		
Color as Pt				
Total Solids, Calculated	343,544	32,057		
Temperature °F.			· · · · · · · · · · · · · · · · · · ·	
Carbon Dioxide, Calculated		 		
Dissolved Oxygen, Winkler		<u> -</u>		
Hydrogen Sulfide	0.0	875		
Resistivity, ohms/m at 77° F.	0.042	0.240		<u></u>
Suspended Oil				
Filtrable Solids as mg/;				
Volume Filtered, ml				
	Results Reported As Milligram	s Per Liter		
Additional Determinations And Remarks Thi	s study of the abov	e results has	revealed no	evidence of
any detectable incompatibili				
have with the above is that				
ling purposes, it would be d				
the relatively high magnesium				
concerned about using this b			_	
would result in calcium sulfa	are precipitation.	CONFACT US TO	r any annir	Tonai, as-
sistance in this matter.			-/-/	
		\sim	\ : /	

FLUID FROM LOWER WOLFCAMP, Waylan C. Martin, M. A.

SAN ANDRES WATER ANALYSIS From tabulation of samples taken from various wells in Lea County.

HOBBS DISTRICT (NEW MEXICO) Con't.

LEA COUNTY Con't.
SAN ANDRES FORMATION 30@ 60°F PH Cl HCO3 FIELD NAME WELL NAME Ca Mg Na SOJ CO2 St.of N.M. "AE" #2 1.143 7.0 4009 90459 144,881 Vacuum 0.044 330 3417 Hobbs East D. F. Ferguson #1 1.010 6.5 1000 365 4100 6,600 1680 2257 St. "0" (NCT-2) #17 1.140 6.0 8634 6816 46365 140,818 318 Vacuum .050 216 St. "0" (NCT-1) #2 7286 Vacuum 0.049 1.146 6.0 3586 62778 141,407 365 594 St. "AH" #2 13712 22663 140,465 0.050 1.139 6.0 9937 421 West Lovington 91 West Lovington St. "AH" #7 0.049 1.132 6.0 16116 11833 3476 130,428 304 282 443 St. "AH" #12 0.048 1.141 6.0 21830 17055 22900 140,465 West Lovington 182 Moore Moore #4 1.170 5.8 2203 1217 94758 151,940 427 3925 N.M. "O" (NCT-3) 1.074 66,785 Maljamar 0.071 7.65 3300 1470 38075 2590 302 STRAWN FORMATION 40 122 Lusk N.M. "CR" St. #1 0.069 1.092 6.3 10450 1860 78,500 200 N.M. "CR" St. #3 Lusk 1.099 6.8 8534 4715 90,880 - ەي TUBB FORMATION Tubb 1.127 6.4 7688 54626 Lockhart #9 2006 101,834 1967 _ 129 WOLFCAMP FORMATION 1.044 948 18012 1868 Vacuum St. "R" (NCT-3) #15 7.5 2371 31,980 2361 St. "L" #6 1.099 5.8 13030 2080 30660 74,788 1478 488 Vacuum State "AQ" (NCT-11) #1 0.085 5.6 6713 1251 30894 61,574 Lazy J 1.072 1507 705

Page 8

709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521

RESULT OF WATER ANALYSES

		LABORATORY N	185104			
mr. Bill Horne		SAMPLE RECEIVED 1-9-85				
To: Mr. Bill Holle 1900 Wilco Building, Midland, 7	l'exas	DESILI TE DEBOR	TEO1-14-85	76.11 10 19 20		
2700 HIZO BUILDING, HIZULING, 1	CAGO	RESUL 15 REPUR	I CUALATIVA	12/12/11/2000		
COMPANY J. M. Huber Corporation	. = 4.0			Dr. M. Oct.		
		orton		11/1/1904		
FIELD OR POOL				S SIVE		
SECTION BLOCK SURVEY	COUNTY	цеа.	STATENU	O RECUBERC		
SOURCE OF SAMPLE AND DATE TAKEN:				S. M. HUBER CO.		
NO. 1 Windmill water - taken fr	com Cleveland V	vest windmill	. 1-7-85	A SHOTAL		
NO. 2 Located approximate	4 /8 of 2 v	nile to Th	e east of	TO MILL		
NO. 3 Cabot a State Net	<u> </u>			1532		
•						
NO. 4						
	AL AND DUVELCA	BROBERTIES				
CHEMIC	NO. 1	NO. 2	NO 3	NO 4		
Specific Gravity at 60° F.	1.0021		NO. 3	NO. 4		
pH When Sampled	1.0021					
pH When Received	7.9	15				
Bicarbonate as HCO3		75				
	185	<u> </u>				
Supersaturation as CaCO3						
Undersaturation as CaCO3						
Total Hardness as CaCO3	224					
Calcium as Ca	56					
Magnesium as Mg	. 20					
Sodium and/or Potassium	59					
Sulfate as SO4	109					
Chloride as Cl	61		,			
Iron as Fe	0_1	6				
Barium as Ba						
Turbidity, Electric						
Color as Pt						
Total Solids, Calculated	490_					
Temperature °F.						
Carbon Dioxide, Calculated						
Dissolved Oxygen, Winkler						
Hydrogen Sulfide)				
Resistivity, ohms/m at 77° F.	15.6)5				
Suspended Oil						
Filtrable Solids as mg/1						
Volume Filtered, ml						
						
	In December As Millian	name Day Visan				
	sults Reported As Millig					
Additional Determinations And Remarks The un		liles the ap-	ove to be tru	e and correct		
to the best of his knowledge an	d beller.	 				

FORM NO. 3 ANALYSIS OF WATER FROM FRESH WATER SUPPLY WELL

Waylan C. Martin, M. A.

RESULT OF WATER ANALYSES

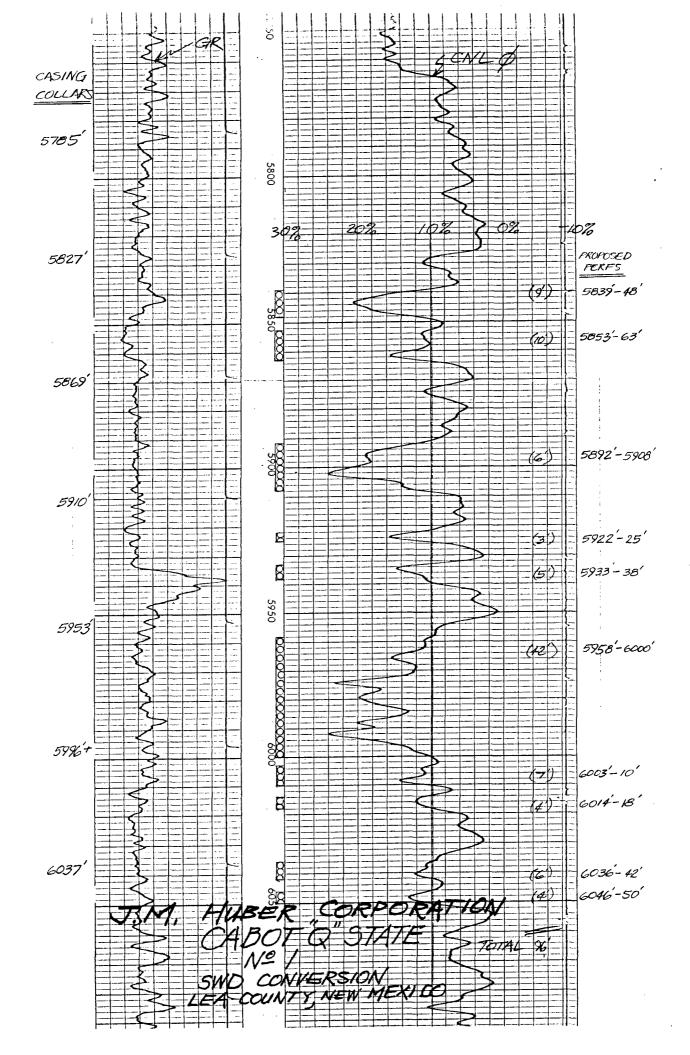
		LABORATORY NO	185105	·· ····
TO: Mr. Bill Horne	SAMPLE RECEIVED -	1-9-85	777	
1900 Wilco Building, Midland, Texa	RESULTS REPORTED.	1-14-8	5 2006/182	
1900 WILCO DELLETING INC.	-			10 N
COMPANY J. M. Huber Corporation	LEASE	.		4111100
FIELD OR POOL		rton	Yes JAM 1800	
SECTION BLOCK SURVEY			ATE NM	to persived
		51	A I E	J. M. HUBER CORP
SOURCE OF SAMPLE AND DATE TAKEN:	Stolts			MIDLAND DIST
NO. 1 Windmill water - taken from	Stoba Ranch	windmill. 1-/-	85 + -	- VX
NO. 2 Located approximately 3/2	4 of a mil	e to the wes	7 0	400
NO. 3 Cabot "Q" State Nº 1.				COL 1000
NO. 4				
REMARKS:				
CHEMICAL	AND PHYSICAL			
Specific Gravity at 60° F.	1.0023	NO. 2	NO. 3	NO. 4
pH When Sampled	1.0023			
pH When Received	7 (
	7.6	8		
Bicarbonate as HCO3	232			
Supersaturation as CaCO3	 			
Undersaturation as CaCO3				
Total Hardness as CaCO3 Calcium as Ca	260_			
	81	· ···	 	
Magnesium as Mg	14			
Sodium and/or Potassium	31			
Sulfate as \$04	81			
Chloride as CI	37	_		
Iron as Fe	0.1	6.		
Barium as Ba	 	- 	· · · · · · · · · · · · · · · · · · ·	
Turbidity, Electric	 			
Color as Pt	<u></u>			
Total Solids, Calculated	475			
Temperature °F.	 			
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler	 	- -		
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	18.0	0		
Suspended Qil		<u> </u>		
Filtrable Solids as mg/1		- 		
Volume Filtered, ml				
	<u> </u>			
	Reported As Milligr			
Additional Determinations And RemarksThe unders		<u>fies the above</u>	to be tru	ue and correct to
the best of his knowledge and beli	ef.			
			·····	
			/	
				

FORM NO. 3

ANALYSIS FROM FRESH

WATER SUPPLY WELL

Waylan C. Martin, M. A.



J. M. HUBER CORPORATION

OIL AND GAS DIVISION 1900 WILCO BUILDING MIDLAND, TEXAS 79701

MIDLAND DISTRICT OFFICE

January 21, 1985

TELEPHONE 915-682-3794

Union Oil Company of California Box 671 Midland, Texas 79701

> Re: Conversion of J.M. Huber Corp.'s Cabot "Q" State No. 1 to a Salt Water Disposal Well

Gentlemen:

This is notification to you, as a leasehold operator within one-half mile of the subject well's location that J.M. Huber Corporation proposes to convert the Cabot "Q" State No. 1, Section 7, T15S, R35E, Lea County, New Mexico, to a salt water disposal well. Attached are copies of the applications for authorization to inject. Any objections or requests for hearing of administrative applications must be filed with the 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,

Robert R. Glenn

District Production Manager

Sport spr

WGH/sgp

attachments

J. M. HUBER CORPORATION

OIL AND GAS DIVISION 1900 WILCO BUILDING MIDLAND, TEXAS 79701

MIDLAND DISTRICT OFFICE

January 21, 1985

TELEPHONE 915-682-3794

Great Western Drilling Company Box 1659 Midland, Texas 79702

Re: Conversion of J.M. Huber Corp.'s

Cabot "Q" State No. 1 to a Salt

Water Disposal Well

Gentlemen:

This is notification to you, as a leasehold operator within one-half mile of the subject well's location that J.M. Huber Corporation proposes to convert the Cabot "Q" State No. 1, Section 7, T15S, R35E, Lea County, New Mexico, to a salt water disposal well. Attached are copies of the applications for authorization to inject. Any objections or requests for hearing of administrative applications must be filed with the 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,

Robert R. Glenn

District Production Manager

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Affidavit of Publication

STATE	OF	NEW	MEXICO)	
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COUNTY	7 0	F LEA		ì	

Joyce Clemens being first duly sworn on oath deposes and says that he is Adv. Mgr. of THE LOVINGTON DAILY LEADER, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled
Legal Notice
and numbered in the
County, New Mexico, was published in a regular and
entire issue of THE LOVINGTON DAILY LEADER and
not in any supplement thereof, once each week on the
same day of the week, for
consecutive weeks, beginning with the issue of
January 11
and ending with the issue of
, 19,
And that the cost of publishing said notice is the
sum of \$ 7.01
which sum has been (Paid) (Assessed) as Court Costs

Subscribed and sworn to before me this 17th.....

My Commission Expires Left 28, 19.86

Notary Public, Lea County, New Mexico

To whom it may concern:

J.M. Huber Corporation proposes to convert the following well to a produced water disposal well: Cabot "Q" State No. 1; Section 7,

Cabot "Q" State No. 1; Section 7, T15S, R3SE, Teap FSE & 580' FWL, Lea County, New Martine

The intended purpose of the injection well is to accept lower Wolfcamp reduced water in the San Andres fermation at a depth between 4630' and 6050'. The estimated maximum injection pressure and rate will be 900 psi and 1900 BPD, respectively. Interested parties must file objections or requests for hearing with the Off Conservation Divison, P.O. Box 2006, Santa Fe, New Mexico 87801, within 15 days from the date of this publication.

For further information, contact Bob Glenn at J.M. Huber Corporation, 1900 Wikeo Building, Midland, Texas, 79701, or telephone. (915) 682-3794. Published in the Lovington Daily Leader January 11, 1985.

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