

Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Marienfeld, Midland, Texas 79701
Telephone (915) 682-9731



Midland District

October 24, 1980

New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

Attn: Mr. Jerry Sexton

Gentlemen:

SUBJECT:

Conversion of Union Oil Company of
California's Pipeline Deep Federal
Unit Well No. 5 to Salt Water Disposal
Into the Yates Interval

Union Oil Company of California respectfully requests permission to convert our Pipeline Deep Federal Unit Well No. 5 to salt water disposal service into the Yates.

In accordance with the Commission's requirements we are enclosing a completed form C-108. All offset operators have been notified and a copy of our request for their waiver of objection is attached.

We propose to plug back to a depth of 5,275 feet in the manner specified by Statewide Rule 201. The Yates interval will be used for disposal of water produced from our nearby Pipeline Deep Federal Unit No. 2. Appropriate wellbore schematics accompany this application.

Your timely consideration of this proposal is greatly appreciated.

Very truly yours,

A handwritten signature in dark ink, appearing to read "L. F. Thompson", written over a horizontal line.

L. F. Thompson
District Operations Manager

TSC:pd

Enclosures

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

OPERATOR Union Oil Company of California		ADDRESS P. O. Box 671; Midland, Texas 79702	
LEASE NAME Pipeline Deep Unit Federal	WELL NO. 5	FIELD N. Quail Ridge Morrow	COUNTY Lea
LOCATION UNIT LETTER <u>L</u> ; WELL IS LOCATED <u>1980'</u> FEET FROM THE <u>south</u> LINE AND <u>660'</u> FEET FROM THE <u>west</u> LINE, SECTION <u>7</u> TOWNSHIP <u>19-S</u> RANGE <u>34-E</u> NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13-3/8"	503'	600	Surface	Visually
INTERMEDIATE	9-5/8"	5300'	1900	Surface	Visually
LONG STRING	5-1/2"	13620'	850	6800'	Temp Survey
TUBING	2-7/8"	12943'	NAME, MODEL AND DEPTH OF TUBING PACKER Otis WB Packer set at 12900'		
NAME OF PROPOSED INJECTION FORMATION Yates			TOP OF FORMATION 3264'		BOTTOM OF FORMATION 4412'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations	PROPOSED INTERVAL(S) OF INJECTION 3895-3941', 3991-4000', 4178-4233'		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Gas Production From the Morrow Zone		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes		
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH 13435-49'; 13524-27'; 100 sx; 13054-6'; 13181-4'; 13221-6'; 13276-9'; 13283-8'; open					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 450'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA Bone Springs 7820'	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 150	MINIMUM 300	MAXIMUM 300	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 1000
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE ... Yes		WATER TO BE DISPOSED OF Yes		NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? No
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Union Oil Company of California (same as applicant)					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Chama Petroleum; 5015 Tracy St.; Dallas, Texas 75202 C. W. Trainer; 9205 Hwy 71W; Austin, Texas 78767					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? yes					
SURFACE OWNER same as applicant		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL yes			
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) yes		PLAT OF AREA yes		ELECTRICAL LOG yes	DIAGRAMMATIC SKETCH OF WELL yes

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

L. H. Pardue

(Signature)

District Engineer

(Title)

December 15, 1980

(Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Marienfeld, Midland, Texas 79701
Telephone (915) 682-9731



Midland District

December 17, 1980

Chama Petroleum
5015 Tracy Street
Dallas, Texas 75202

Gentlemen:

SUBJECT:
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California's Pipeline Deep Federal
Unit Well No. 5 to Salt Water Disposal
Into the Yates Interval.

Attached you will find an application to the New Mexico Oil Conservation Commission for permission to convert the subject well to salt water disposal service in the Yates interval.

We would appreciate your approval of the enclosed waivers. Please send one copy to the Commission and return one copy to this office in the enclosed self-addressed envelopes.

Very truly yours,

A handwritten signature in cursive script, appearing to read "L. F. Thompson".

L. F. Thompson
District Operations Manager

TSC:pd

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Union Oil and Gas Division: Central Region

Union Oil Company of California
500 North Mariefeld, Midland, Texas 79701
Telephone (915) 682-9731



Midland District

December 17, 1980

C. W. Trainer
9205 Hwy 71 W
Austin, Texas 78767

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L. F. Thompson
District Operations Manager

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FORM CR-MID
8-73(REV 4-74)

UNION OIL COMPANY OF CALIFORNIA
CENTRAL REGION
Midland DISTRICT
CONDITION OF HOLE & PROCEDURE

Dist. Prod. Supt. _____
Dist. Engineer _____
Dist. Drlg. Supt. _____
Dist. Opers. Mgr. _____

DATE: November 20, 1980

FIELD North Quail Ridge AREA Lovington

LEASE/UNIT Pipeline Deep Unit Federal WELL NO. 5

REASON FOR WORK: To plug back and convert to SWD

CONDITION OF HOLE:

~~ETDXXX~~
TOTAL DEPTH: 13620' PBTD: 13348' Perm DATUM IS 19.5' ABOVE tbg head

CASING RECORD: 13-3/8", 48#, H-40 at 503' cmt circ
9-5/8", 40 & 43.5 S-95 & K-55 at 5295' cmt circ. DV tool at 1791'
5-1/2", 17#, S-95 & N-80 at 13620'. TOC at 6800'. DV tool at 10003'.

PERFORATIONS: 13435-449' Sqzd
13524-27' Sqzd
13054-288' Open

TUBING DETAIL: 398 jts (12883') 2-7/8", 6.5#, N-80 AB Mod tbg landed in Otis WB pkr at 12900'. Mill out ext at 12903', top 1 jt 2-7/8" tbg at 12910', 3-3/8" OD x 2.313" ID x-nipple at 12942' & bottom of mule shoe at 12943'.

ROD & PUMP DETAIL: None

PROCEDURE:

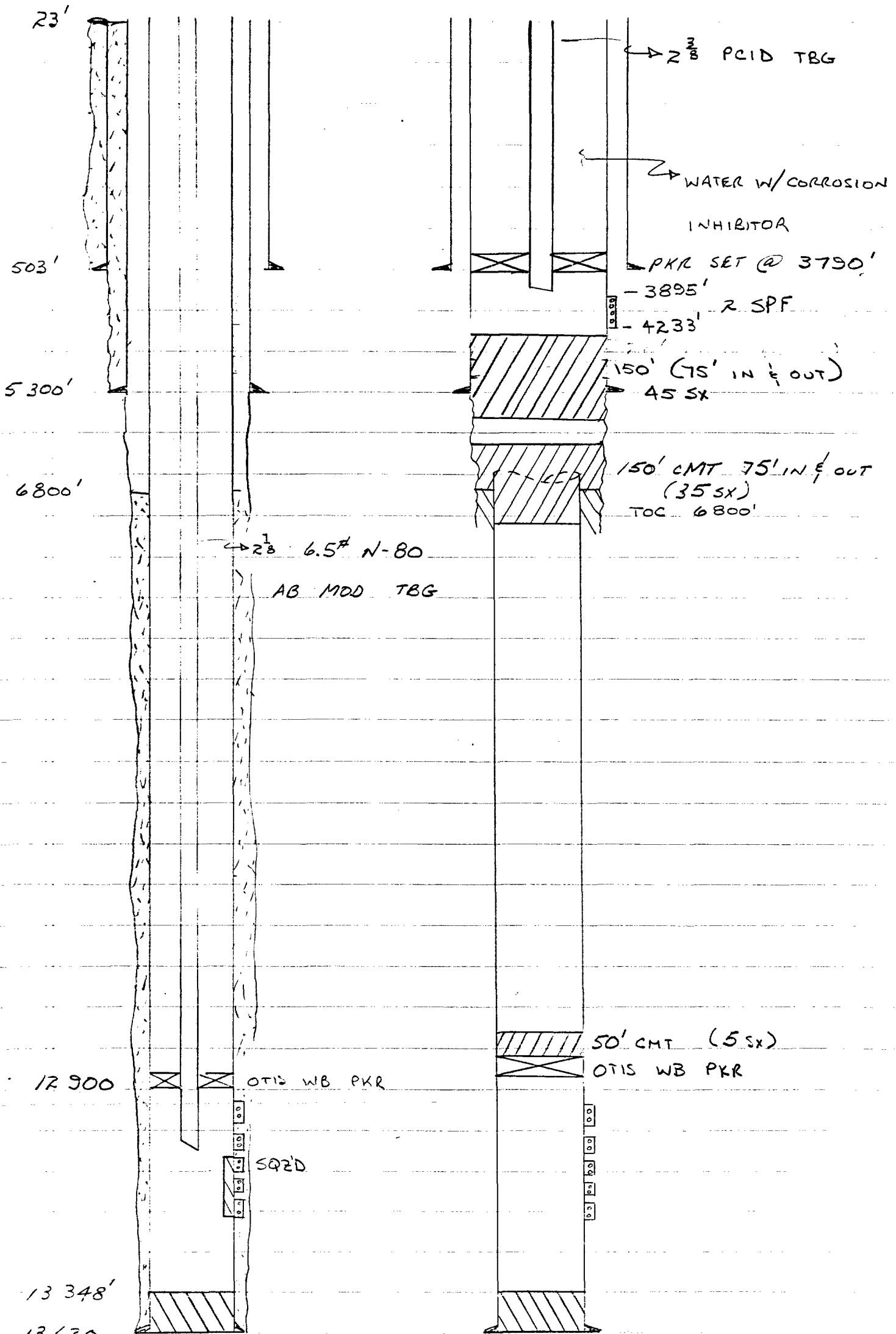
1. MI RU PU. Set plug in X-nipple at 12942'. Test plug to 6000 psi.
2. Circ hole w/fresh water. Spot 5 sks (50' linear plug) on Otis WB Pkr at 12900' (Class 'H' cmt w/4% gel at 14.7 ppg).
3. Free point & pull 5-1/2" csg (TOC by temp survey at 6800').
4. RI w/perf nipple on 2-7/8" tbg & tag TOC. Spot 9 ppg mud ETD to 5-1/2" csg stub.
5. Spot cmt plug No. 2 35 sks (150 linear ft) 75' in & 75' out of 5-1/2" csg stub.
6. Spot 9 ppg mud 75' above 5-1/2" csg stub to 5370'.
7. Spot cmt plug No. 3 45 sks (150 linear ft) 75' in & 75' out of 9-5/8" intermediate csg using Class 'H' w/4% gel at 14.7 ppg. WOC. Tag cmt plug. Circ hole clean. Spot 15% HCl perf acid 4200-3800'.
8. Perf 9-5/8" csg w/4" DP csg gun w/2 SPF 4177-4233', 3990-4000', & 3895-3940'.
9. Run 9-5/8" pkr on 2-7/8" tbg & acidize perfs 4233-3895' w/10000 gals 20% HCl w/NE, FE, & LST in 3 stages using rock salt to divert (first block 400#, & second block 800#) flush w/fresh wtr. Max rate 10 BPM. Max press 3500 psi.
10. RI w/Guiberson Unipkr on 2-3/8" PCID tbg to 3790'+. Displace annulus w/pkr fluid. Place well in SWD service.

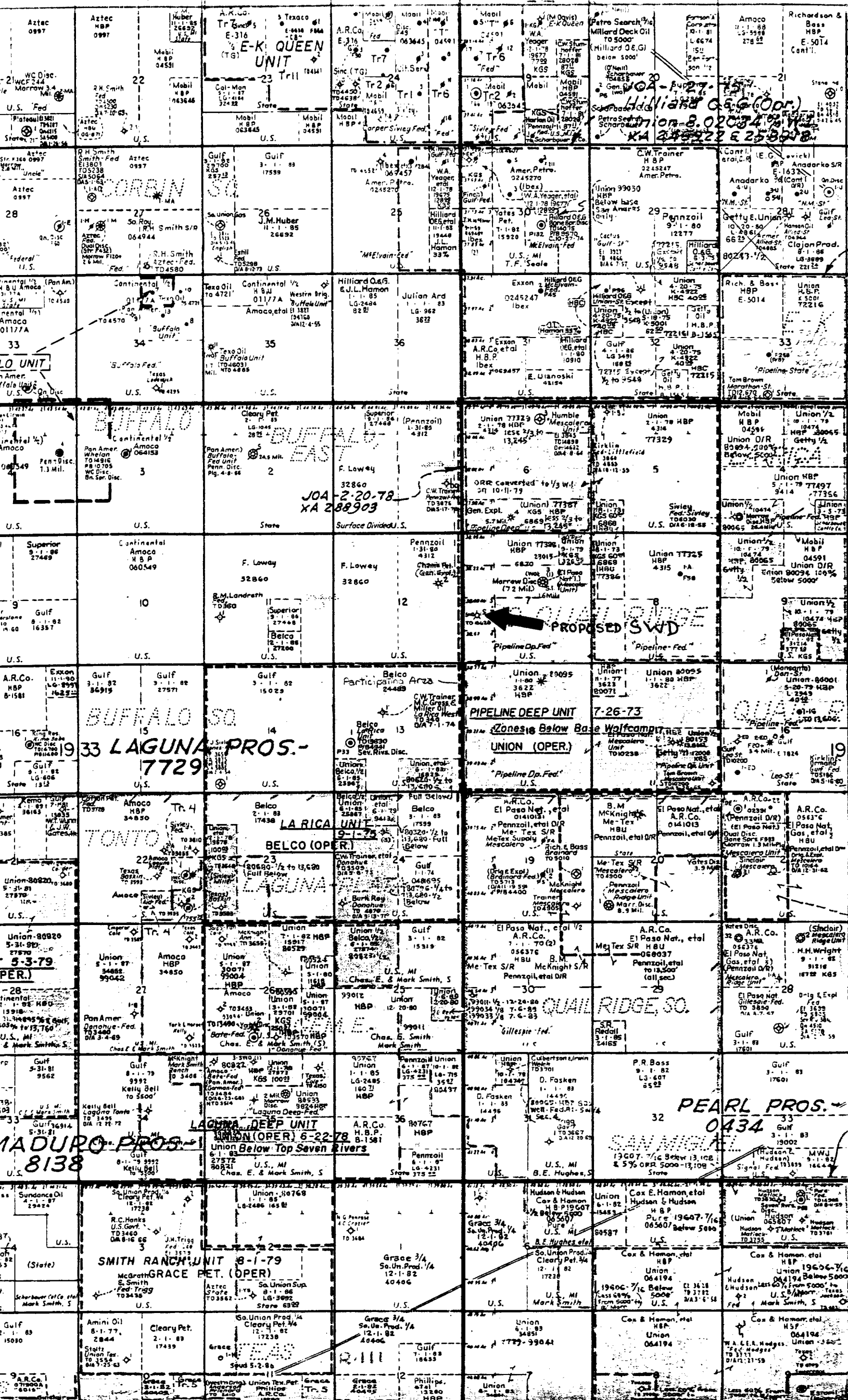
Midland District Engineering Department
11-20-80 LHP:MRT:TSC:pd

PIPELINE DEEP FEDERAL UNIT WELL No. 5

PRESENT

PROPOSED





OIL CONSERVATION DIVISION
DISTRICT I

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

DATE December 23, 1980

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed NSP _____
Proposed SWD X _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application for the:

Union Oil Co. of Calif. Pipeline Deep Unit Fed. No. 5-L 7-19-34
Operator Lease and Well No. Unit, S - T - R

and my recommendations are as follows:

Should have a hearing. Are requesting to put water into Capitan Reef--J.S.

Yours very truly,

[Signature]

/mc

*According to Hess'
Capitan map - subject well
is ~5 miles N of Capitan
boundary - MTH*