

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

OIL CONSERVATION DIVISION BOX 2088 SANTA FE, NEW MEXICO 87501	Still pending 8-20-92	(505) 334-6178
DATE 6-24-81		
RE: Proposed MC Proposed DHC Proposed NSL Proposed SWD 0 Proposed WFX Proposed PMX	<u>.</u>	
Gentlemen: I have examined the application	on dated 6-72-81	
	Sederal F# Z Lease and Well No.	H-Z8-19N-5W Unit, S-T-R
and my recommendations are as	follows:	
Yours truly,		
7.17 D		

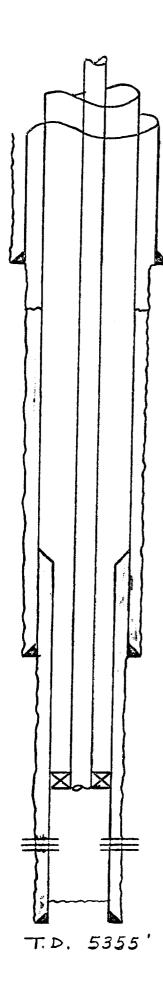
NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR				ADDRESS					
Cities Se	rvice C	ompany			Box 1919- Mid	lland, I			
LEASE NAME			WELL NO.	FIELD	Entrada		McKinley		
Federal E			2	Undes	. Entrada		MCKINIEy		
LOCATION			1	.650	North	c	90		
u	IT LETTER	; we	LL IS LOCATED	.000 FEET FR		-	FEET FROM THE		
East		28	19N	RANGE	5W				
<u> </u>	NE, SECTION	TOV	CASIN	G AND TUBING DAT					
NAME OF 5	TRING	SIZE	SETTING DEPTH	SACKS CEMEN	TOP OF CEM	ENT	TOP DETERMINED BY		
SURFACE CASING		9-5/8"	223'	110	surface	<u> </u>	circulated		
INTERMEDIATE		7"	3335'	775	605		Temp. Survey		
LONG STRING		4-1/2" li	ner 3040-5	5355' 140	3040)'			
TUBING		0.5.40.0	53.50		k-Set @ 5100	±			
		2-3/8"	5150	Baker LO		BOTTOM OF	FORMATION		
Entrada	NJECTION FORMA	KIION		5157	1	5328	3'		
IS INJECTION THROUGH	H TUBING, CASIN	IG, OR ANNULUS?	1	1	OPOSED INTERVAL(S) OF IN				
Tubing				orations	5200 - 530		THE BEEN DEPENDATED IN AN		
IS THIS A NEW WELL DISPOSAL?		Oil	well	POSE WAS WELL ORIGIN		ZONE OTHER TION ZONE?	VER BEEN PERFORATED IN AN THAN THE PROPOSED INJECTION OF THE PROP		
LIST ALL SUCH PERFO	RATED INTERVA	LS AND SACKS OF C	EMENT USED TO SEAL	OFF OR SQUEEZE EACH	1				
None			DEPTH OF BOTTOM	OF NEXT VICUES	рертн ог	TOP OF NEXT LO	WER		
PRESH WATER ZONE !	_		None None	N THIS AREA	OIL OR GAS NON	E ZONE IN THIS	AREA		
ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	LUME 7500		Close	OSED TYPE SYSTEM	PRESSURE? Pressure		750#		
	HETHER THE FO	LI OWING WATERS AS	E MIN- WAT	ER TO BE DISPOSED OF	NATURAL WATER IN DISP		ANALYSES ATTACHED?		
ERALIZED TO SUCH A STOCK, IRRIGATION,	DEGREE AS TO I	BE UNFIT FOR DOME: RAL USE	1	No	No	Yes			
NAME AND ADDRESS O									
Federal I	Land - [JSGS in Fa	ermington,	New Mexico	,				
LIST NAMES AND ADD	RESSES OF ALL	OPERATORS WITHIN	P.O. Box	1919 - Midl	and, Texas	79702	corn		
Cities Se	ervice (Company -	T.O. DOX				art filten		
							rentiato/		
							UN 22 1981		
						On	COM PORT		
						1	CON. COM.		
						THENEWS	EXICO STATE ENGINEER		
HAVE COPIES OF THE SENT TO EACH OF TH	S APPLICATION I E FOLLOWING?	BEEN SURFACE OW I I NO	NER	of this well	TOR WITHIN ONE-HALF MILE L	No			
ARE THE FOLLOWING	TEMS ATTACHE	ED TO PLAT'OF ARI	EA	ELECTRICAL		1	ATIC SKETCH OF WELL		
THIS APPLICATION (S	,	Yes		None	e has been ru	ın, Yes			
	I hereby o	ertify that the in	formation above i	is true and complet	e to the best of my kno	wledge and l	pelief.		
\subseteq	. الا ^ح	11	Region	Opr. Mgr.	- Prod	June	17, 1981		
	سار	an _		(Title)			(Date)		

NOTE: Should waivers from the State Engineer, the surface owher, 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.



FEDERAL E#2

1650'FNL & 990'FEL

SEC 28-TI9N-R5W

MCKINLEY COUNTY, NEW MEXICO

GROUND LEVEL ELEVATION: 6645'

9 1/8" OD 32.3 # 8R H 40 STIC @ 223' CMT. LIRC.

TOC @ 650'

DV TOOL @ 2481'

TOP OF 41/2" LINER @ 3040'



7" OD 20 # 8R K55 STIL LSG @ 3335'

23/3"OD 4.7 # 8R J55 EUE TUBING W/PACKER SET @ ± 5100'

PROPOSED ENTRADA PERFORATIONS
(TO BE DETERMINED FROM CASED HOLE \$ LOG)

41/2"OD 9.5 # 8R K55 STIC LINER @ 5355'

WELLS WITHIN A 2 MILE RADIUS OF THE PROPOSED SWD WELL

CITIES SERVICE CO.	CITIES SERVICE CO.	CITIES SERVICE CO.	EASTERN PETROLEUM	DOME PETROLEUM	SCHWETZ ET AL	EASTERN PETROLEUM	CLAUDE C. KENNEDY	DOME PETROLEUM	DOME PETROLEUM	DOME PETROLEUM	DOME PETROLEUM	DOME PETROLEUM	DOME PETROLEUM	DOME PETROLEUM	DOME PETROLEUM	DOME PETROLEUM	OPERATOR
FEDERAL E #2	FEDERAL M #1	FEDERAL E #1	FEDERAL #1-27	FEDERAL 26 #1	PAPERTHIN #2	PAPERTHIN #1	FEDERAL 22-A #3	NAVAJO 22-A #2	NAVAJO 22-A #1	STATE 2 #2	NAVAJO 16 #1	NAVAJO 15 #6	NAVAJO 15 #4	NAVAJO 15 #3	FEDERAL 15 #2	FEDERAL 15 #1	WELL NAME & NO.
H-Scc. 28-T19N-R5W	P-Sec. 21-T19N-R5W	B-Sec. 28-T19N-R5W	J-Sec. 27-T19N-R5W	M-Sec. 26-T19N-R5W	D-Sec. 26-T19N-R5W	F-Sec. 26-Tl9N-R5W	K-Sec. 22-T19N-R5W	J-Sec. 22-T19N-R5W	C-Sec. 22-T19N-R5W	H-Sec. 16-T19N-R5W	I-Sec. 16-T19N-R5W	N-Sec. 15-T19N-R5W	L-Sec. 15-T19N-R5W	K-Sec. 15-T19N-R5W	E-Sec. 15-T19N-R5W	F-Sec. 15-T19n-R5W	LOCATION
T.D. 5355' WAITING APPROVAL TO CONVERT TO SWD	T.D. 5492' SHUT-IN	TODILTO (5168-5170) ENTRADA (5171-5173)	T.D. 2114 P&A	T.D. 8936 P&A	T.D. 3083 P&A	MANCOS (2892-2960)	T.D. 550 P&A	T.D. 5355 P&A	ENTRADA (5136-5143)	T.D. 5383 P&A	ENTRADA (5185-5190)	T.D. 5396 P&A	ENTRADA (5200-5207)	ENTRADA (5140-5148)	ENTRADA (5184-5192)	ENTRADA (5160-5169)	PRODUCING FORMATION & INTERVAL

Martin Water Laboratories, Inc.

P. O. BOX 1468

MONAHANS, TEXAS 79786

MIDLAND, TEXAS 79701 PHONE 683-4521

709 W. INDIANA

ONE 943-3234 OR 563-1040	SECULT OF WATER AT	NIAL VEES		PHONE 683-4521
	RESULT OF WATER A	NALYSES	68044	
	. LA	BORATORY NO	6-4-80	
F.O. box 1919, Midland, 1	exas san	MALE RECEIVED	6-6-80	
F.U. BOX 1919, ElGizata,	RE	SULTS REPORTE		
Odudna Campina Company		Federal "F	n #1	
OMPANY Cities Service Company		100000000000000000000000000000000000000		
ELD OR POOL	Mel	Vaint2	New II	esti.co
ELD OR POOL SURVEY	COUNTY	S.	TATE	
DURCE OF SAMPLE AND DATE TAKEN:				_
NO. 1 Recovered water - Bang	le chamber. 6-6-6	80 (ENTRA	DA FORMA	T/ON)
				<u> </u>
NO. 2				
NO. 3				······································
NO. 4				
EMARKS:				
CHEM	ICAL AND PHYSICAL P	Y		
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0062			ļ
pH When Sampled			<u> </u>	
pH When Received	7.2		 	
Bicarponate as HCO ₃	708		 	
Supersaturation as CaCO3			<u> </u>	<u> </u>
Undersaturation as CaCO3				<u> </u>
Total Hardness as CaCO3	90			
Calcium as Ca	2.9			<u> </u>
Magnesium as Mg	Δ,			ļ
Sodium and/or Potassium	1,346			
Sulfate as SO4	1.763			
Chloride as CI	426			<u></u>
ircn as Fe	83.3		 	
Barium as Ba				<u> </u>
Turbidity, Electric			 	
Cclor as Pt			<u> </u>	
Total Solids, Calculated	4,276		JOF!	Tr.
Temperature °F.			TAPI FI	HHJ
Carbon Dioxide, Calculated			KLUL	1 FR
Dissolved Oxygen, Winkler				1001
Hydrogen Sulfide	0.0	 	JUN 2	2 1301
Resistivity, ohms/m at 77° F.	1.90		OIL CON	COM-
Suspended Oil			OIL CO.	T. 3
Filtrable Solids as mg/l			100	
Volume Filtered, ml				
				F
	Panulta Reported As Milliaram	s Par Liter	L	L
	Results Reported As Milligram			
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	esse contact us if		•	
Additional Determinations And Remarks 11				

Form No. 3

