#### NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR				ADDRESS					
Cont	inental Oi	1 Company		152 N	North Dur	bin St.,	Casper	, Wyo. 82601	
LEASE NAME		<u> </u>	WELL NO.	FIELD				COUNTY	$\neg$
Jicarilla		1 1	, w	West Lindreth			Rio Arriba	1	
J1CA LOCATION	Illia							L	一
200411011					_			220	1
U	NIT LETTER	A ; WE	LL IS LOCATED	915 FEET 1	FROM THE	lorth	NE AND	330 FEET FROM	THE
				1					
East L	INE, SECTION	30 TOV	VNSHIP 25N	RANGE 4W	NMF	ъм.			J
			CASING	AND TUBING DA	ATA				
NAME OF S	TRING	SIZE	SETTING DEPTH	SACKS CEM	ENT	TOP OF CEME	NT	TOP DETERMINED BY	
SURFACE CASING							i		- 1
		10 3/4"	250¹	250		Surface		Circulated	1
INTERMEDIATE		10 3/4	2.50			<u> </u>			$\neg$
	1								- 1
									$\dashv$
LONG STRING						+	1	041	- 1
		5 1/2"	7500 <b>1</b>	350		6100'-		Circulated	
TUBING		-		NAME, MODEL AND	DEPTH OF TUB	ING PACKER		+	ı
		2 3/8"	5100' <del>-</del>	Baker Lo	ok-Set			@ 5100' <del>-</del>	
NAME OF PROPOSED	NJECTION FORMATI			TOP OF FOR	RMATION		BOTTOM O	F FORMATION	
Voca					4846 <b>'</b>			5585 <b>'</b>	
PIESA IS INJECTION THROUG	verde h tubing, casing,	OR ANNULUS?	PERFORATIONS	S OR OPEN HOLE?	PROPOSED INTE	RVAL(S) OF INJE	CTION		
0.21	011 m. 1-1		Porfor	ations	5171-80	5182-92	5401 -	06. 5411-32	
2 3/	8" Tubing	LE ANSWED IS	NO, FOR WHAT PURPO	SE WAS WELL ORIG	INALLY DRILLE	-80, 5182-92,		EVER BEEN PERFORATED IN	ANY
DISPOSAL?	DRILLED FOR	i					TION ZONE?		:c-
No		Test	Cretaceous &	Jurassic s	sands		<u> </u>	Yes	
7352-981(50	sks); 662	0-70'(400	sks); 6500-6	610'(will s	squeeze v	v/100  sks	)		
DEPTH OF BOTTOM OF	DEFPEST		DEPTH OF BOTTOM OF	F NEXT HIGHER		DEPTH OF TO	OF NEXT L	OWER Barea	
PRESH WATER ZONE		nknown	3600'- (Pic	tured Cliff	Fs)	6750'T	(Gall1)	(סו	
ANTICIPATED DAILY	TMINIMUM	T MAXIMUM	OPEN OR CLOS	SED TYPE SYSTEM	15 INJECTIO	N TO BE BY GRA	VITY OR	APPROX. PRESSURE (PSI)	$\neg$
INJECTION VOLUME	0	500	<b>,</b>	Open Pressure			1200 psi - Max	:.	
ANAMED VEG OF NO W	UCTUER THE FOLL	OWING WATERS AR	E MIN- WATER		F NATURAL W			R ANALYSES ATTACHED?	$\dashv$
ERALIZED TO SUCH A STOCK, IRRIGATION,	DEGREE AS TO BE	UNFIT FOR COMES	ric,		'SAL ZONE	Yes		Yes	
			STATE OR FEDERAL LAN	Yes		168	L	169	
				,					ł
Federa	1 Land - J	icarilla A	pache Tribe				<u> </u>	THE RES	
LIST NAMES AND ADD	RESSES OF ALL OF	PERATORS WITHIN	ONE-HALF ( ) MILE OF	F THIS INJECTION W	ELL		//	1411115	1
E1 Pas	o Natural	Gas Co P	0.0 Box 1492	. El Paso.	Texas 7	79978	100	1 (11) /	
							1 14	A Company of the Comp	- 1
							•	1073	
								27	
				*			j M	MO . POM.	
·*				· · · · · · · · · · · · · · · · · · ·			1 01	L CON. COM.	
							10	DIST. 3	}
									$\dashv$
HAVE COPIES OF THIS	S APPLICATION BEE	SURFACE OW!	NER	EACH OPER	ATOR WITHIN O	NE-HALF MILE	THE NEW	MEXICO STATE ENGINEER	
		į	Yes	1	Yes	5	i	?	
ARE THE FOLLOWING	TEMS ATTACHED	TO PLAT OF ARE	A	ELECTRICA	LLOG		DIAGRAMA	MATIC SKETCH OF WELL	i
THE APPLICATION (S	LE AULE /UI-B)		Yes	į	?		į	Yes	ļ
					to to the hea	et of my lenous	edge and	helief	
	I hereby cer	tity that the inf	formation above is	true and comple	te to the bes	st of my know	eake and	Gerrer.	
	Administrative Supervisor 5/2/73								
4	V. 111	ven	Admi			POT			
	(Signature)			(Title)	<u>'</u>		<del></del>	(Date)	<del></del>

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.

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Well No. Lease Operator Jicarilla 30 Continental Oil Company Township Unit Letter Section Rio Arriba 25N 4W Actual Footage Location of Well: 330 feet from the East line and feet from the Pool Dedicated Acreage: Producing Formation Ground Level Elev. Mesaverde Acres P&A April, 1954 69801 1. Outline the acreage dedicated to the subject well by colored pencil 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 interest, onsolidated by communitization, unitization, force-pooling. etc? If answer is "yes," type of consolidation. Yes OIL CON side of If answer is "no," list the owners and tract descriptions which have actually been consolidated the this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Administrative Supervisor Company Continental Oil Company May 2, 1973 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No. 1320 2000 1000 1980 2310

Form 5-331 U (May 1963) DEPARTMI	NITED STATES NT OF THE INTERI	SUBMIT IN TRIPLICAT OR (Other instructions on verse side)	Form approved. Budget Bureau No. 42-R1424.  5. LEASE DESIGNATION AND SERIAL NO.
GE	OLOGICAL SURVEY		Contract No. 41
CULTON ALOTIC	TC AND DEDODIC C	ALL WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTIC	ES AND REPORTS C	IN WELLS	그 시 그는 그 없었다고 한 그리는데
(Do not use this form for proposals Use "APPLICAT!	ON FOR PERMIT—" for such pro	oposals.)	Jicarilla Apache
1.			7. UNIT AGREEMENT NAME
OIL GAS OTHER	Water Injection		그 사는 그 사람들은 중 요절없었다.
2. NAME OF OPERATOR	water injection		8. FARM OR LEASE NAME.
	ntal Oil Company		Jicarilla 30
3. ADDRESS OF OPERATOR	ntal Oll Company		9. WELL NO.
	al Dunkin Ch. Coo.	22601	그 [
4. LOCATION OF WELL (Report location clea	th Durbin St., Cas	per, Wyo. 82601	10. FIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface	li did in decordance with di-		
At surface			W. Lindreth - Mesaverde
915' F	TL, 330' FEL		SURVEY OR AREA
			i sakā laidinas.
			Sec. 30, T25N, R4W
14. PERMIT NO.	15. ELEVATIONS (Show whether DF,		
	6980' GR 69	90 RBM	Rio Arriba New Mexico
16. Check Appl		sture of Notice Person of	Other Data Land To Tale 22
Check Appl	opriate Box To Indicate N	ature or Notice, Report, of	TOmer Data
NOTICE OF INTENTIO	N TO:	SUBS	EQUENT REPORT OF:
	AL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
			- ALTORING CASING
	LTIPLE COMPLETE	FRACTURE TREATMENT	
( <del>-</del>	NDON*	BEOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL CH.	NGE PLANS	(Other)	ilts of multiple completion on Well
(Other) Water I	njection X	Completion or Recor	mpletion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OPERA proposed work. If well is directiona	tions (Clearly state all pertinent by drilled, give subsurface locati	details, and give pertinent dat ons and measured and true ver	tes, including estimated date of starting any tical depths for all markers and zones perti-
nent to this work.) *		•	
Well History			remains
WOLL HISTORY			The state of the s
Woll drilled to TD 8715	and found to be no	oncommercial. 55"	casing was set at 7500
and sement plus 8625-84	75! and 7800=7725!	The Greenhorn was	s perforated 7398-7352',
and cement prug 0025-04	Perforate	1 6670-66201 teste	ed dry and cement squeezed.
Personal 6610 65001	tosted dry. The we	11 was plugged and	abandoned by filling the
Periorated 6610-6300,	tested dry. The we	nest slue at the si	rface in April 1964
casing with heavy mud a	nd setting a 15° cer	ment plug at the st	
			adja bush bush loos opposite o
Proposed Work			
Proposed Work  Clean out the well and			A FEED A CALLED
Clean out the well and	squeeze cement the	perfs 6610-6500'.	Perforate at 5500 and
cement squeeze, perfora	te at 4840' and cem	ent squeeze. Drill	Lour cement to Dour, and
set bridge plug at 5550	and perforate Mes	averde 5180-71 <b>',</b> 51	192-82', $5406-01'$ and $$
5432-11'. Run tubing w	ith packer set at 5	$100$ , acidize the ${f r}$	perfs with 1000 gallons
and connect the well fo	r water injection.	•	
			to for the special property of
	! !		Done of the control o
		/OILTIVEN	Hon fook  The Cod  Th
	•	/ Krorii ro	The state of the s
		1	repection tooking and the state of policy in the state of the stat
	:	MAY 9 1973	day
18. I hereby certify that the foregoing is t	we and correct	OIL CON. COM.	<b>基度工产业 作品 资料</b> 国品
	he my Adm	inis ra 0164,S3per	Isor DATE 5/2/73
SIGNED	TITLE TABLE		UAIN
(This space for Federal or State office	se)		3 4 4 5 4 4 8 8 5 5
			Tono I to the control of the control
APPROVED BY	TITLE		DATE
CONDITIONS OF APPROVAL, IF ANY	<b>† •</b> •		HONE AND SOME

#### PRODUCED WATER ANALYSIS

Su. 22 + 28-251).4"

#### 1. Jicarilla 22 Lease

Sp. Gr. 1.011, Rw @ 73°F .471 ohm meters, pH 7.6

	Meq/L		Mg/L
Total Salts			14,400
H <sub>2</sub> S			0
C1	<b>18</b> 8.98	•	6,700
S04	<b>35.</b> 39		1,700
co <sub>3</sub>	0		0
HCO3	10.80		659
Na .	222.23	• * *	5,110
Mg	3.21		39
Ca	9.78		196
Fe (mg/L)	T 13.7		D O
Sus. Sol.			120

#### 2. Jicarilla 28 Lease

**Sp. Gr. 1.010,** Rw @ 73°F .505 ohm meters, pH 7.5

	Meq/L	Mg/L
Total Salts		12,600
H <sub>2</sub> S	•	0
<b>C1</b>	183.91	6,520
S04	11.87	570
CO3	0 .	0
HCO3	12.19	744
Na	195.30	. 4,490
Mg	3.04	37
Ca	9.58	192
Fe (mg/L)	T 7.1	D 0.1
Sus. Sol.		. 105

		<u>. 1</u>	R. 4 W	<b>I</b> .		
12	7	8	9	10	11	
	CONOCO	CONOCO	CONOCO	CONOCO	CONOCO	<del></del>
13	18 20-4 •6	17	c-4 <b>★</b> 16	15, 22-4	14	
	JI	CARILLA 20 conoco	CONOCO	JICARILLA	CONOCO	
	СОООСЭ	20 conoco	2	2.7 2 2 22·3 CONOCO	22-6   	T.
24	19	20-2 20-2 20-2 20-2	20-5	<b>★</b> <sub>G-3</sub> <b>★</b> <sub>G</sub>	·-D	2: N
	$\Sigma \longrightarrow \Sigma$	30-1 30-2 	28-8 # <sub>G-D</sub>	28-9 28-2 CONOCO	28-13 CONOCO	
25 5-A ≸ <sub>6</sub>	; conoco ; 30	conoco 29 30-6 ★ G-0	conoco 28-10 28 28-1 ************************************	28-12 2728-		
<b>∮</b> <sub>G</sub>	JI(	CARILLA 30 conoco 30-5	28-6 28-11	JICARILLA 28 + 28-4 conocc		_
36	30-4 <b>★</b> 6-c 31	32 30-3	CONOCO 3328-5	34	35	
	<u> </u>		N W. PRODUCTION	MANNING 100	N.W PRODUCTION	T
1	6	. 5	4	3	2	
					16-2 ∮ <sub>G-D</sub>	
	1			<u> </u>		

#### 

- LOCATION
- GALLUP OIL WELL
- DAKOTA OIL WELL
- ₩ G C DUAL GALLUP (O(I) CHACRA (Gas) G D DUAL GALLUP (O(I) DAKOTA (O(I)-Gas)
- SHUT-IN WELL
- ARANDONED WELL

## CONTINENTAL OIL COMPANY

PRODUCTION DEPARTMENT Casper, Wyoming



### WEST LINDRITH BLOCK

JICARILLA APACHE LEASES

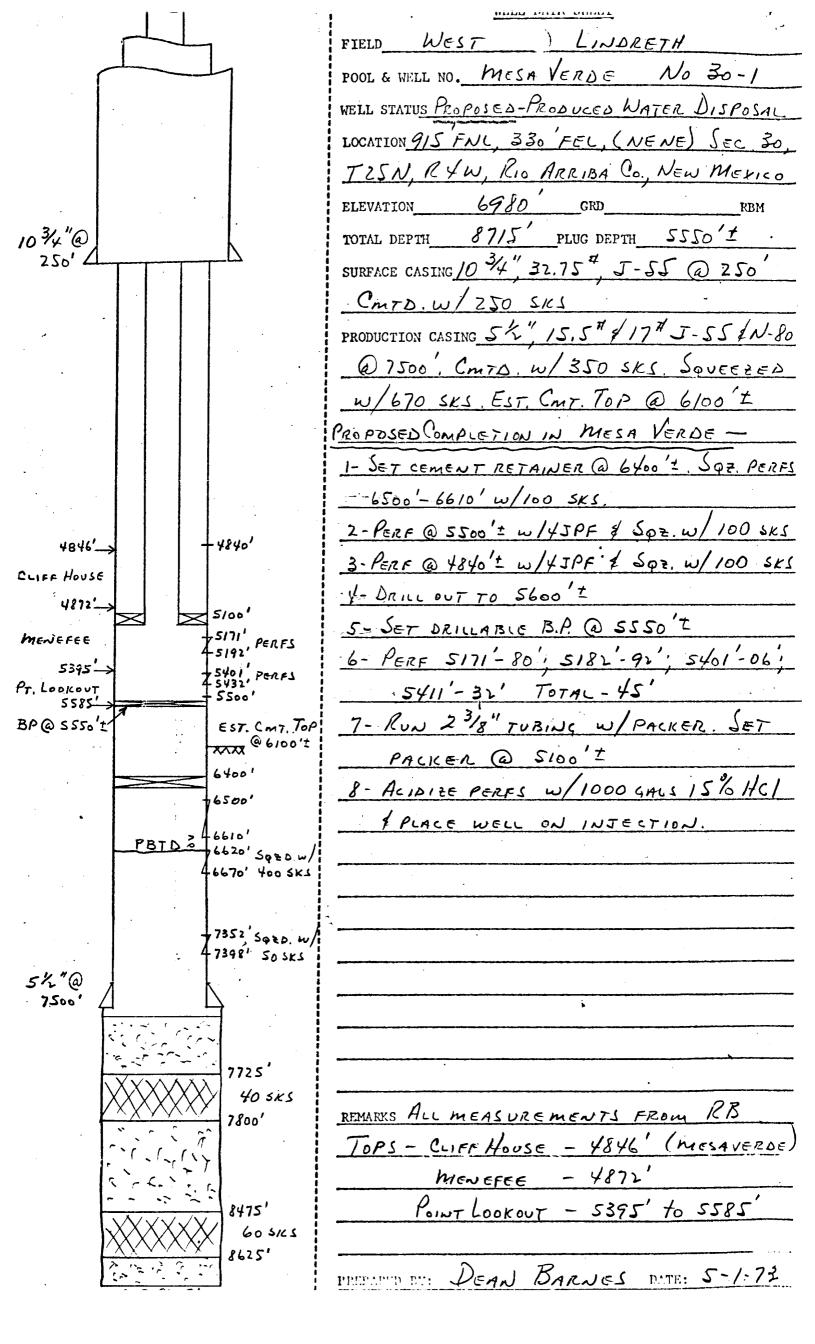
Contour Interval -

County: Rio Arriba

State: New Mexico

Engineer:  Draftsman: Well Status Posted to: 11 - 72

Date: 7 12-71



FIELD WEST LINDRETH
POOL & WELL NO
WELL STATUS PRESENT - P&A 4-54
LOCATION 915 FNL, 330 FEL, (NENE) SEC 30,
TZSN, RYW, RIO ARRIBA Co., NEW MEXICO
ELEVATION 6980' GRD 6990' RBM
TOTAL DEPTH 87/5' PLUG DEPTH 6620'±.
SURFACE CASING 10 3/4", 32.75", J-55 @ 250
Cm7D. W/ 250 SKS
PRODUCTION CASING 51, 15.5 \$ 17 \$ J-55 \$ N-80
(a) 7500'. CMTD, W/350 5KS, EST. CMT.
TOP @ 6100 ±
PRESENT COMPLETION P&A 52" LEFT IN HOLE
CMT. PLUGS BELOW 5"- 8475-8625" -
7725 - 7800 CMT RET. DERCED OUT & PUSHED
To 6620't
PUMP UNIT
HISTORY COMPLETED IN UPPER NIOBRARA &
GREENHORN LS NON COMMERCIAL 3-54
CMT. PLUGS AS FOLLOWS ON COMPLETION PRIOR
TO SETTING 5/2" CSG - 8475-8625 \$
7725-7800'- PERF GREENHORN 7352-98
TREATED & TSTD. DRY-SOED W/SO SKS
PERF ( 3 ) SET RETAINER @ 6500
SOED. W/ 670 SKS IN 7 JOBS-DRILLES
OUT TO 3 - PERF GREENHORN 6620-70'
TREATED & TSTD DRY- SOED W/ 400 SKS. DRILLED
OUT TO 6620 FERF 6500-6610 TREATEDA
TSTO DRY. P&A BY FILLING CSG. W/
HVY MUDE 15 FT. CEMENT PLUG AT SURFACE.
REMARKS ALL MEASUREMENTS FROM RB.
TOPS - CLIFF HOUSE - 4846' (MESAVERDE)
MENEREE - 4872'
POINT LOOKOUT-5395 GREENHORN-7338'
UPPER NIOBRARA-6452' LOWER-6903'
PREPARED DE AL BARNES PATE: 5-1-73

· WELL DATA SHEET