

Production Department Casper Division

Western Hemisphere Petroleum Division Continental Oil Company 152 North Durbin

Casper, Wyoming 82601 (307) 234-7311

May 2, 1973

New Mexico Oil Conservation Commission 1000 Rio Brazos Road Aztec, New Mexico 87401

Attention Mr. Emery C. Arnold

Gentlemen:

Jicarilla 30 No. 1 Application to Convert to Water Disposal Rio Arriba County, New Mexico File: PC-410-CF

OIL CONSERVATION COMM Santa Fo JWD-140 May 25

Enclosed is application to recomplete the subject well, located in <u>Unit</u> "A" of Section 30, T25N, R4W, as a produced water disposal well in the Mesaverde formation. It is planned to inject produced water from all leases in the field at a rate of approximately 80 BWPD at 1200 psi.

Continental Oil Company requests cancellation of Administrative Order No. SWD-131 for the disposal of produced water into Jicarilla 28 No. 2, Unit 'D" of Section 27, T25N, R4W, which was approved December 29, 1972. The conversion of Jicarilla 28 No. 2 is now considered economically unfeasible, and disposal of produced water will be made into Jicarilla 30 No. 1

Very truly yours,

J. A. Ubben

Administrative Supervisor

bjs enc

CC: U. S. Geological Survey Box 1809 Durango, Colorado



Form C-108

(Date)

OPERATOR			ADDRESS	, (,),	-		
Continental O	il Company		152 No	orth Durbin &c	NA FRANCE	82601	L
LEASE NAME		WELL NO.	FIELD		Santa F	Constitut.	
Jicarilla		1	1 West			Rio Arril)a
LOCATION							
UNIT LETTER	; WELL	IS LOCATED	915 FEET FR	OM THE North	LINE AND	330 FEET F	ROM THE
East LINE, SECTION	30 TOWNS	нтр 25N	RANGE 4W	NMPM.			
		CASING	AND TUBING DAT	A			
NAME OF STRING	SIZE SI	ETTING DEPTH	SACKS CEMEN	NT TOP OF C	EMENT	TOP DETERMINED	BY,
SURFACE CASING		_ 1					
	10 3/4"	250'	250	Surfac	e	Circulated	
INTERMEDIATE	4						
LONG STRING							
Long String	F 1 /0"	75001	250	canat		0414	
TUBING	5 1/2"	7500¹	350	6100 1 TUBING PACKER		Circulated	
	2 3/8"	5100'-	Baker Lok	_		@ 5100'-	+
NAME OF PROPOSED INJECTION FORMA		2100 -	TOP OF FORM		воттом	OF FORMATION	
Mesaverde			j	4846 '		558 5 '	
IS INJECTION THROUGH TUBING, CASIN	G, OR ANNULUS?	PERFORATIONS	OR OPEN HOLE! PR	OPOSED INTERVAL(S) OF	INJECTION		
2 3/8" Tubing		Perfora	ations 5	5171-80, 5182-	92 - 5401	-06. 5411-32	
IS THIS A NEW WELL DRILLED FOR DISPOSAL?	IF ANSWER IS NO	, FOR WHAT PURPOS	E WAS WELL ORIGINA	ALLY DRILLED?	HAS WEL	L EVER BEEN PERFORATE HER THAN THE PROPOSED	D IN ANY
No	Test Cr	etaceous &	Jurassic sa	inds	TION ZO	Yes	
LIST ALL SUCH PERFORATED INTERVAL	S AND SACKS OF CEME	NT USED TO SEAL O	FF OR SQUEEZE EACH	1	······································		
7352-98'(50 sks); 66	20-70'(400 sk	(s); 6500-6	610'(will so	queeze w/100 s	ks)		
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA	DI OI	PTH OF BOTTOM OF	NEXT HIGHER HIS AREA	OH OR G	TOP OF NEXT AS ZONE IN TH - (Gall	LOWER IS AREA	
ANTICIPATED DAILY MINIMUM	Unknown 3	600'- (Pic	tured Cliffs	6750	'- (Gall	up)	
INJECTION VOLUME) (BBLS.) 80 0	500	OF ZN ON CLOSE	-	PRESSURE?		1	
(IIN- WATER	Open	Pres		1200 psi - 1	
ANSWER YES OR NO WHETHER THE FOL ERALIZED TO SUCH A DEGREE AS TO BI STOCK, IRRIGATION, OR OTHER GENERA	E UNFIT FOR DOMESTIC AL USE —	, ¦	R TO BE DISPOSED OF NATURAL WATER IN DIS			Yes	
NAME AND ADDRESS OF SURFACE OWNE	R (OR LESSEE, IF STA	TE OR FEDERAL LAN		168		169	
Federal Land	Ticarilla Ana	che Tribe					
LIST NAMES AND ADDRESSES OF ALL	PERATORS WITHIN ONE	-HALF (1/2) MILE OF	THIS INJECTION WEL	L		ACT IN	
El Paso Natural	Gas Co., P.C	Box 1492	. El Paso. T	exas 79978		afitiven	
El Paso Natural Gas Co., P.O. Box 1492, El Pas						KLULITED	1
							1
						MAY 9 1973	7
						111167 !	
					/(DIL CON. COM.	
						DIST. 3	
HAVE COPIES OF THIS APPLICATION BE	EN SURFACE OWNER		EACH OPERAT	OR WITHIN ONE-HALF MIL	E THE NEW	MEXICO STATE ENGINEE	
SENT TO EACH OF THE FOLLOWING?	1	Yes	OF THIS WELL	Yes	1	?	
ARE THE FOLLOWING ITEMS ATTACHED	TO PLAT'OF AREA		ELECTRICAL I		DIAGRAM	MATIC SKETCH OF WELL	
THIS APPLICATION (SEE RULE 701-B)		Yes	1· !	?	1	Yes	
I hereby co	rtify that the inform		rue and complete	to the best of my kn	owledge co		
	1 1 monitori		and complete	to the best of my kn	owiedke alle	a solitor.	
(L (l) ///	when,	Admii	nistrative S	unervisor		5/2/73	

NOTE! Should waivers from the State Engineer, 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.

(Title)

(Signature)

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section. Well No. Operator Lease Jicarilla 30 Continental Oil Company Unit Letter Township Ronge Section County 25N 4W Rio Arriba 30 Actual Footage Location of Well: 330 915 North East line feet from the line and feet from the Ground Level Elev: Producing Formation Dedicated Acreage: 69801 P&A April, 1954 Mesaverde Acres 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 the interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests consolidated by communitization, unitization, force-pooling. etc? Tes ☐ No If answer is "yes," type of consolidation If answer is "no," list the owners and tract descriptions which have actually been const 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 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. 660 ۰90 1320-1650 1980, 2310 2000 1500

1000

NMOCC(3)

File

500



Form 9-3: (May 196	DEPARTM	UNITED STATES MENT OF THE INTERIC	SUBMIT IN TRIPLICATE* (Other instructions on reverse side)	Form approved, Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.
	 	CES AND REPORTS O	N WELLS	Contract No. 41 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
(als to drill or to deepen or plug bac TION FOR PERMIT—" for such pro		Jicarilla Apache
1. OIL WELL	GAS OTHER	Water Injection		7. UNIT AGREEMENT NAME
	OF OPERATOR	•		8. FARM OR LEASE NAME
3. ADDRI	Continues of Operator	nental Oil Company		Jicarilla 30
		orth Durbin St., Casp		
See a	rion of Well (Report location co ilso space 17 below.) urface	early and in accordance with any S	tate requirements.*	W. Lindreth - Mesaverde
	/ 915° 1	FNL, 330' FEL		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
14. PERM	IIT NO.	15. ELEVATIONS (Show whether DF, B	rt, GR, etc.)	Sec. 30, T25N, R4W 12. COUNTY OR PARISH 13. STATE
		6980' GR 699	O' RBM	Rio Arriba New Mexico
16.	Check Ap	propriate Box To Indicate Na	ture of Notice, Report, or C	Other Data
	NOTICE OF INTENT	<u> </u>	PERETE	DENT REPORT OF:
		ULL OR ALTER CASING	WATER SHUT-OFF FRACTURE TREATMENT	REPAIRING WELL ALTERING CASING
		BANDON*	SHOOTING OR ACIDIZING	ABANDONMENT*
REP	AIR WELL C	HANGE PLANS	(Other)	of multiple completion on Well
	her) Water	Injection X RATIONS (Clearly state all pertinent	Completion or Recompl	etion Report and Log form.) including estimated date of starting any
pr	orosed work. If well is direction to this work.) *	nally drilled, give subsurface locatio	ns and measured and true vertice	ii depths for all markers and zones perti-
Wel	1 History		• .	Ran Braine Car I was a superior of the part of the par
				asing was set at 7500 perforated 7398-73521,
				dry and cement squeezed.
				bandoned by filling the
cas	ing with heavy mud	and setting a 15, cem	ent plug at the sur	face in April, 1964.
Pro	posed Work			roposala contenta con
Cla	an out the well and	squeeze cement the p	erfs 6610-65001. Pa	표당한 결정 그는 나는 작업
		10/01 1		
set	bridge plug at 555	0' and perforate Mesa	verde 5180-71', 519	2-82', 5406-01' and boursesh at 2-82', 5406-01' and same depth of Junuary and part of Junuary and part of Junuary and Junuary
243 and	connect the well f	with packer set at Di or water injection.	our, acidize the per	ris with 1000 gallons
	. Domicoc cho waz z	or water range or and	COFIL	ton bourned for any bourned for any full. If the english to apply to a property of the property of the form of the full of th
			/RTI.TIVEN	in is designed to applications. Any november and reporting the former and reporting the former and reporting by comment of the former and reporting by comment of the former and reporting by comment of the former and reporting the former and reporting the former and the former
		•	/ WEDELLED	izeh dinin dinin dinin thosq t
		•	MAY 9 1973	
			OIL CON COM	Tination of the property of th
	eby certify that the foregoing is	true and correct	DIST 3 nistrative Supervise	or DATE 5/2/73
SIGN			mistrative Superviso	DATE 3/2/13
	space for Federal or State office	·		rion blance of the term of the term of the term of the term
	OVED BY DITIONS OF APPROVAL, IF AN	YY:		DATE CONTROL OF STATE
		•	i i	υρ⇒ ⊣ 1 0 <u>π</u> 305

PRODUCED WATER ANALYSIS

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 ₂ S			0
C1		188.98	6,700
S0 ₄		35.3 9	1,700
co3		0	0
HCO3		10.80	659
Na		222.23	5,110
Mg		3.21	3 9
Ca		9.78	196
Fe (mg/	/L)	T 13.7	DO
Sus. Sc	1.		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 ₂ S		0
C1	183.91	6,520
S04	. 11.87	570
CO3	0	0
нсо3	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

			R. 4 W.		Grant St.
		77.32			
12	7	8	9	10	П
	CONOCO	CONOCO	CONOCO	CONOCO	CONOCO
	CONOCO	CONOCO	C-4 ★	Conocc	
13	18 20-4 • ₆	17	16	15, 22-4 G-0	14
	JICA conoco 2	RILLA CONOCO	CONOCO 22-7	2222-3 CONOCO 22-0	CONOCO
24	19	20-3-20	2 22-2 ** G-D	22-5 22 22-1 **G-D	conoco 23
	30-	411101111111		8-9 28-2 CONOCO 28-13	CONOCO
25 5-A	30	29 30-6	28-10 28 28-1	28-12 2728-7 G-D G-D	26
€ _G		RILLA SO CONOCO 30-5	28-6 28-11 ***G-D	CARILLA 28 ★ ²⁸⁻⁴ conoco	CONOCO
36	30-4 ★ _{G-c} 31	32 ₃₀₋₃ ★ _{6-D}	CONOCO 3328-5 ★ _{G-D}	34	35
			N.W. PRODUCTION	28-3 MANNING IOO OIL TRUST	N.W. PRODUCTION
1	6	5	4	3	2
The state of				16-	-2 G-D

-LEGEND-

- LOCATION
- GALLUP OIL WELL
- DAKOTA OIL WELL
- G-C DUAL GALLUP (OII) CHACRA (Gas)
 DUAL GALLUP (OII) DAKOTA (OII-Gas)
- SHUT-IN WELL
- ABANDONED WELL

CONTINENTAL OIL COMPANY

PRODUCTION DEPARTMENT Casper, Wyoming



WEST LINDRITH BLOCK JICARILLA APACHE LEASES

Contour Interval -

County: Rio Arriba

Scale = 4000'

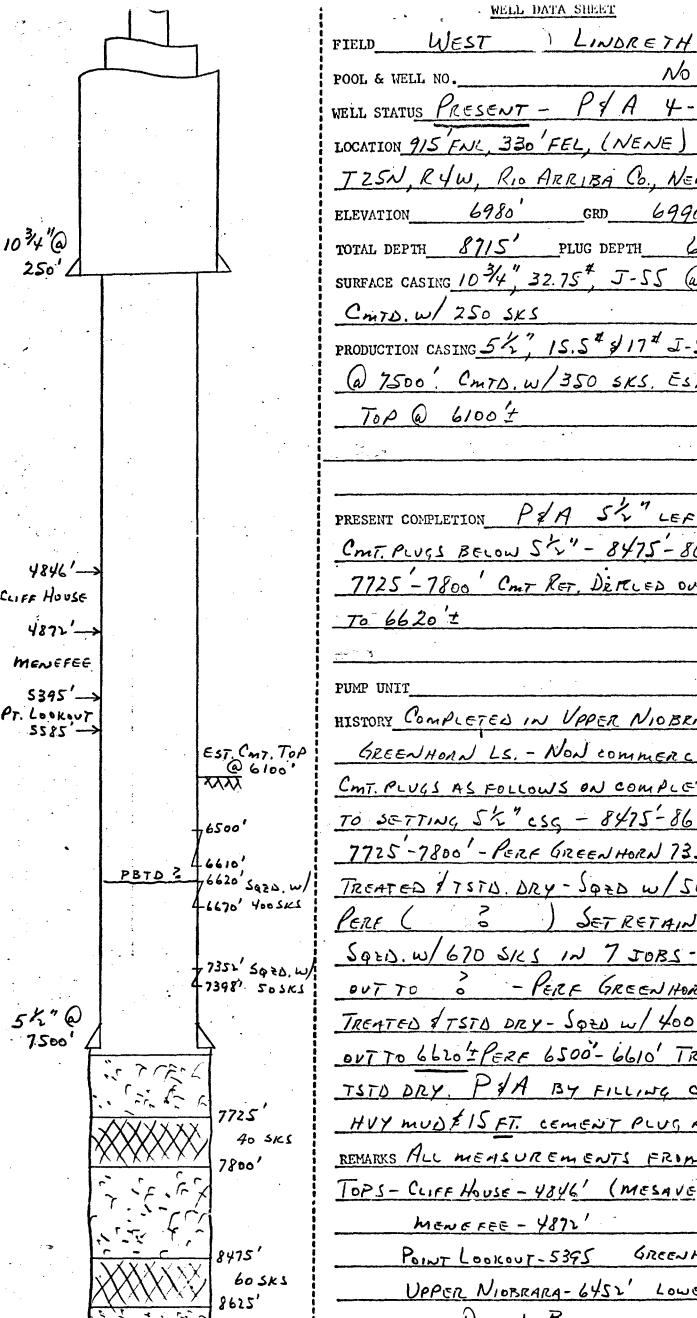
Engineer:

State: New Mexico

Draftsman: Date: 7-12-71

Well Status Posted to: 11-72

	And there is the
	FIELD WEST) LINDRETH
	POOL & WELL NO. MESA VERDE No 30-1
	WELL STATUS PROPOSED-PRODUCED WATER DISPOSAL
	LOCATION 915 FNL 330 FEL (NENE) SEC 30
	TZSN, RYW, RIO ARRIBA CO., NEW MEXICO
	ELEVATION 6980 GRD RBM
103/4"@	TOTAL DEPTH 87/5' PLUG DEPTH SSSO'±.
250'	surface casing 10 3/4" 32.75", J-55 @ 250'
	Cm70. W/250 SKS
	PRODUCTION CASING 5 1/ 15.5 \$ 17 T-55 \$ N-80
,4	@ 7500', CMTD, W/350 SKS, SQUEEZED
4151	w/670 SKS, EST, CMT. TOP @ 6/00't
Dack ,	PROPOSED COMPLETION IN MESA VERDE -
Jack 4159.	1- SET CEMENT RETAINER @ 6400'\$, SQZ. PERFS
1850	6500'-6610' w/100 SKS.
10 Jours	2-PERF @ 5500' = w/45PF & Spz. w/ 100 SKS
4846' +4840'	3-PERF @ 4840' = w/43PF & SQZ. W/100 SKS
CLIFE HOUSE	Y- Drill OUT TO 5600 t
4872' 5/00' Payer	5- SET DRILLABLE B.P. @ SSSO'T
MENEFEE 45192' PERFS	6- PERF 5171-80', 5182-92', 5401-06;
5395 -> 5401 PERFS FT. LOOKOUT + 5500'	5411'- 32' TOTAL - 45'
BOO SSE '+	0 - 3 . 41
257. CM7, 76P	PACICER @ SIDO'T
6400'	8- ACIDIZE PERFS W/1000 GALS 15% HC1
76500'	* PLACE WELL ON INJECTION.
PBTD 2 6620' Sq20.w/	
46670' 400 SKS	
77352 SQED. W/ 47398 SOSKS	
54°@	
7.500'	i
7725	
40 sks	REMARKS ALL MEASUREMENTS FROM RB
7800'	TOPS - CLIFF HOUSE - 4846' (MESAVERDE)
	MENEFEE - 4872'
8475'	POINT LOOKOUT - 5395' to 5585'
60 5165	
1 X X X X X X 8625'	PREPARED DE DEAT BARNES DITE: 5-1:72



LINDRETH No 30-1 4-54 LOCATION 915 FNL 330 FEL, (NENE) SEC 30. TZSW, RYW, RIO ARRIBA CO., NEW MEXICO 6990' PLUG DEPTH 6620'± SURFACE CASING 10 3/4" 32.75", J-55 @ 250 PRODUCTION CASING 5 1/2 15.5 \$ \$ 17 \$ J-55 \$ N-80 @ 7500' CMTD. W/350 SKS. EST. CMT. P&A 52" LEFT IN HOLE CMT. PLUGS BELOW 5"- 8475-8625 7725 - 7800' CMT RET, DETRUED OUT & PUSHED HISTORY COMPLETED IN UPPER NIOBRARA E. GREENHORN LS. - NON commercIAL CMT. PLUGS AS FOLLOWS ON COMPLETION PRIOR TO SETTING 5/2" CSG - 8475-8625 7725-7800'- PERE GREENHORN 7352-98 TREATED / TSTU. DRY-SQED W/SO SKS SET RETAINER @ 6500 SQED. W/ 670 SKS IN 7 JOBS-DRILLES - PERF GREENHORN 6620-70 TREATED & TSTD DRY-SOLD W/ 400 SKS. DRILLED OUT TO 6620 + PERE 6500- 6610' TREATED & BY FILLING CSG HVY MUDE 15 FT. CEMENT PLUG AT SURFACE. REMARKS ALL MEASUREMENTS FROM RB. TOPS-CLIFF HOUSE-4846' (MESAVERDE) GREENHORN-7338' UPPER NIOBRARA-6452' LOWER - 6903' PREPARED BY: DEAN BARNES DATE: 5-1-73