P. O. Box 3312 Durango, Colorado September 28, 1962

New Mexico Oil Conservation Commission P. O. Box 871 Santa Fe, New Mexico

Attn: A. L. Porter, Jr., Secretary and Director

Gentlemen:

New Mexico Oil Conservation Commission Order No. R-2312 granted Continental Oil Company permission to dually complete Rattlesnake Well No. 140, located in Unit H of Section 11, T29N, R19W, San Juan County, New Mexico, to produce oil and gas from the Pennsylvanian-Paradox formation and to dispose of salt water into the Organ Rock formation. Administrative approval is requested to abandon the proposal to dispose of salt water into the Organ Rock in Well No. 140 and to dispose of the salt water into the Organ Rock in Well No. 145, located in Unit N, T29N, R19W, San Juan County, New Mexico.

At the time of the hearing on August 29, 1962, for salt water disposal into Well No. 140, we were conducting tests on Well No. 145 which have recently been completed. At that time, it appeared that Well No. 145 would produce commercial quantities of oil and gas from the Pennsylvanian-Paradox reservoir. Our latest test information of September, 1962, shows the well will produce 2 BOPD, 86 BWPD and 55 MCFGD. Therefore, we are requesting authority to dispose of produced salt water into the Organ Rock formation in Well No. 145 instead of Well No. 140. This will eliminate the need for a dual completion well for the purpose of salt water disposal. Well No. 140 will continue to be used as a pressure observation well in the Pennsylvanian-Paradox reservoir.

We plan to set a Baker Model "N" bridge plug in the 9 5/8" casing at approximately 4400 feet. Approximately 50 feet of cement will be placed on top of the bridge plug. The 9 5/8" casing opposite the Organ Rock will be perforated from 4190' to 4205' and 4310' to 4330'. A Baker Model "D" retainer production packer will be set at 4100 feet and salt water will be injected through 2 7/8" tubing.

With the present casing and cementing program, there will be no chance of contaminating fresh water sands above the Organ Rock with the proposed salt water disposal. The proposed salt water disposal into the Organ Rock in Well No. 145 is basically the same proposal approved by the New Mexico Oil Conservation Commission in Order No. R-2312 for disposal into

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Well No. 140. Therefore, it is requested that administrative approval be granted for salt water disposal into the same formation in Well No. 145. A map showing the location of the two wells and a complete log of Well No. 145 are attached to the accompanying application.

Very truly yours,

A. D. Haley

District Superintendent

Durango District

Production Department

GAB/cb

cc: U. S. Geological Survey
New Mexico State Engineer
R. E. White
E. A. Austin
William M. Griffith

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION

TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION NOT PRODUCTIVE OF OIL OR GAS

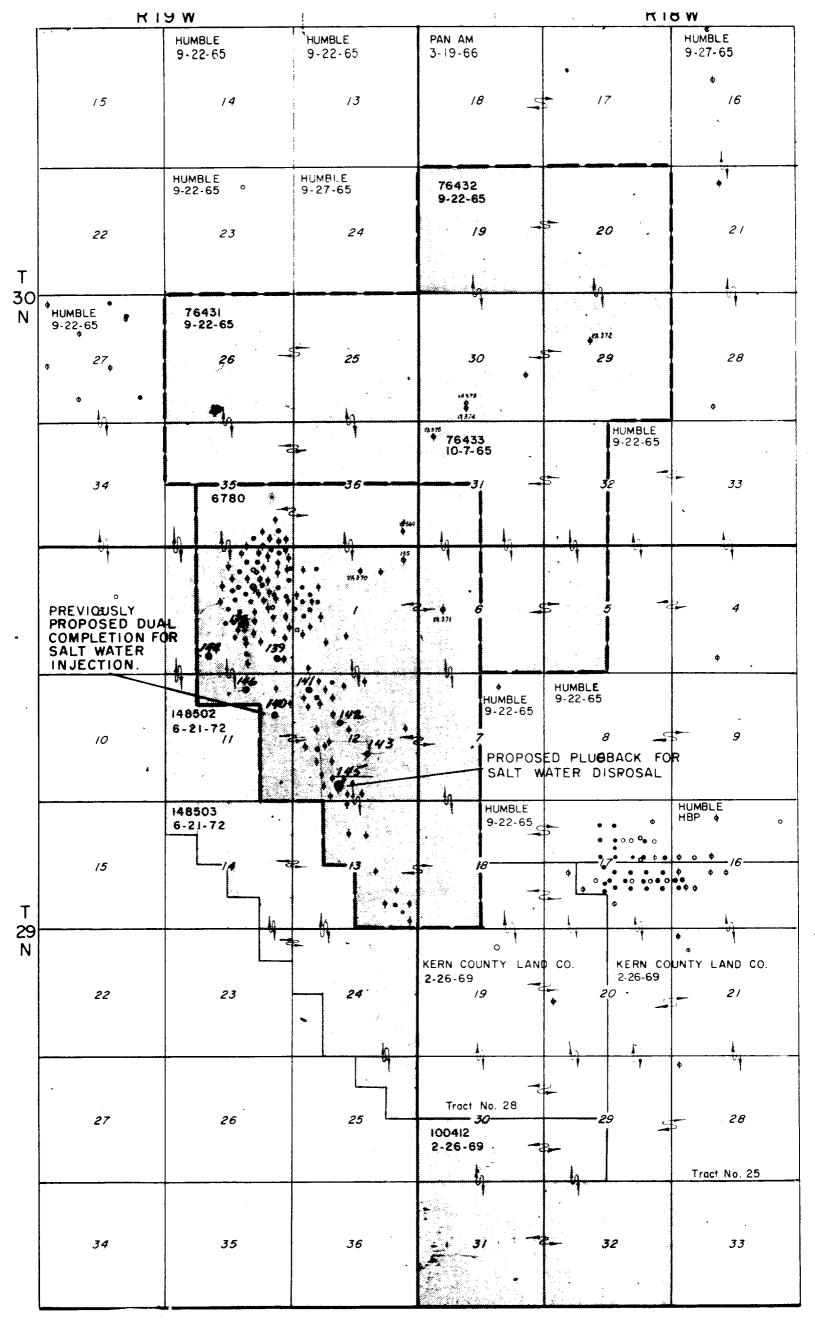
Operator_	Continental Oil Co	ompany Addı	ess Box 3312, Durango,	Colorado
Lease	Rattlesnake	Well No. 145 C	ounty San Juan	
UnitN	Section	12 Township_	29N Range	19 W
This is an	application to disp	ose of salt water pr	oduced from the following	g pool (s):
Ratt	lesnake Pennsylvani	an		
Name of In	njection Formation	s) Organ Rock		
			Bottom of injection zone; ny other well in this are	
zone for di	sposal purposes	None		
		CASING PR	OGRAM	
	Diameter	Setting Depth	Sacks Cement	Top of Cement
Surface	13 3/8"	298 ^t	325	Surface
Intermedia		4535 †	130 - Stage Collar 475 - Casing Shoe	600 ° 2900 °
Long Strin	7" Liner 8 4 1/2" Liner	4284 ¹ - 6598 ¹ 6519 ¹ - 6780 ¹	400 None	4284 ⁸
Will inject	ion be through tubu	ng, casing, or annul	us? Tuhino	
•	, , , , , , , , , , , , , , , , , , ,			
oize tubing	2 //8" O.D. Sett		100 Packer s ug: 9 5/8" Baker Model "	
Name and	Model No. of packe	Upper Productio	n Packer: 9 5/8" Model "	D" retainer Production Packer.
Will inject	ion be through perf	orations or open hol	e? Perforations	
Proposed 1	interval(s) of inject	ion. 4190° - 4205	t; 4310t - 4330t	
Well was o	• originally drilled fo	r what purpose? P	ennsylvanian-Paradox oil	and gas production
			han the proposed injection	
	-	· · · · · · · · · · · · · · · · · · ·		
	•		ment used to seal off or ions at 6450%-6466%, 6412	_
Perforation	ns will be isolated	below the proposed i	njection zone with a 9 5/	•
	-	l on top of bridge pl nigher zone which pr	-	940°
Give depth	of top of next lowe	r zone which produc	es oil or gas 6	400 °
Give depth	of bottom of deepe	st fresh water zone	ın area: Morrison	- 1960¹
-			y (barrels) 1000	
			Pump Estimated pres	ssure: 0 = 900 nsi
		ацинализа	ation or chemical treatm	

	gation, and/or other general use? Yes
	r occurring naturally within the proposed disposal formation mineralized to such s to be unfit for domestic, stock, irrigation, and/or other general use? Yes
List all offs	set operators to the lease on which this well is located and their mailing address
Humble Oi	1 and Refining Company, Box 3082, Durango, Colorado
Kern Coun	ty Land Company, Box 1784, Albuquerque, New Mexico
Name and a	address of surface owner Navajo Tribe, Window Rock, Arizona
	s of this application been sent by registered mail or given to all offset operators, ners, and to the New Mexico State Engineer? Yes
Is a comple	ete electrical log of this well attached? Yes
	Onemateur Continental Oil Company
	Operator: Continental Oil Company
	By:
	Title: District Superintendent
•	
;	STATE OF Colorado)
) ss. County of La Plata)
	BEFORE ME, The undersigned authority, on this day personally appeared H. D. Haley known to me to be the person whose
	name is subscribed to the above instrument, who being by me duly sworn
	on oath states that he is duly authorized to make the above report and that
*	he has knowledge of the facts stated therein and that said report is true and correct.
	SUBSCRIBED AND SWORN TO before me this the 27th day of September ,
	19 62
	N
	Notary Public in and for the County of La Plata
. 1	March 5, 1963 My Commission Expires
	My Committee Expires
NOTE:	Should wairers from all offset operators, the surface owner, and the State

Should wair are from all offset operators, the surface owner, and the State Engineer not accompany an application, the New Mexico Oil Conservation Commission will hold the application for a period of fifteen (15) days from date of receipt by the Commission's Santa Fe office. If at the end of said fifteen-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

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