			LAND ATT. CON	COMMISSION C
Form 3160-5	UNIT	ED STATES	Drawer DD	I FORM APPROVED
June 1990)	DEPARTMENT	OF THE INTERIOR	Artesia, N	888 dect Bureau No. 1004-0135 Expires: March 31, 1993
	BUREAU OF L	AND MANAGEMENT	Artword,	5. Lease Designation and Serial No.
				NM- 43744
	SUNDRY NOTICES A	ND REPORTS ON WELLS	S	6. If Indian, Allottee or Tribe Name
Do not use this fo	rm for proposals to dril	l or to deepen or reentry to a	a different reservoir.	o. It indian, Anotee of those Mane
		PERMIT-" for such propos		
	SUDNIT	IN TRIPLICATE		7. If Unit or CA, Agreement Designation
A 75 C 117 H				
1. Type of Well				
Weil Weil	Other			8. Well Name and No.
2. Name of Operator	ing Company			Sand Dunes 34 Federal #2
3. Address and Telephone No	ing Company			9. API Well No.
•		70700 7040 (015) 00	RECEIVED	30-015-27239
	.0340, Midland, TX Sec., T., R., M., or Survey Desc	/9/02-/340 (915)68	2-6822CEIVED	10. Field and Pool, or Exploratory Area
+. Location of well (Pootage	, Sec., I., R., M., or Survey Desc	cription)		Ingle Wells Delaware
2310' ENI &	660' FEL, Section	31 7000 0010	MAY 02.'94	11. County or Parish, State Eddy County NM
LOIU FRE &	JUU TEL, SECLIO	1 34, 1233, KJIE	$PH UZ \cdot 94$	Eddy County, NM
2. CHECK A	PPROPRIATE BOX(s)	TO INDICATE NATURE C	F NOTICE REPOR	T. OR OTHER DATA
· · · · · · · · · · · · · · · · · · ·	UBMISSION		ARTESIA, OFFICE	.,
			TTPE OF ACTION	
Notice of	Intent	Abandonment		Change of Plans
				New Construction
Subsequen	t Report	Plugging Back		Non-Routine Fracturing
		Casing Repair	,	Water Shut-Off
Final Abar	ndonment Notice	Altering Casing		Conversion to Injection
		Other		Dispose Water
				Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form) iny proposed work. If well is directionally drilled,
give subsurface location Pogo respective above we Section 35,	tfully request per ell via 3" poly li T23S, R31E, Eddy	mission to dispose of ne into the Calmon #5 County. The Calmon #	off-lease produ SWD located SW/	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form) iny proposed work. If well is directionally drilled, acced water from
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BUREAU OF LAND MANAGEMENT CARLSBAD RESOURCE AREA

Disposal of Produced Water From Federal Wells

Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

- 1. This agency be notified of any change in your method or location of disposal.
- 2. Compliance with all provisions of Onshore Oil and Gas Order No. 7.
- 3. This agency shall be notified of any spill or discharge as required by NTL-3A.
- 4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
- 5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
- 6. Any on lease open top storage tanks or pits shall be covered with a wire screen or plastic/nylon netting to prevent entry by birds and other wildlife.
- 7. This approval does not constitute right-of-way approval for any off lease activities. If water is transported via a pipeline that extends beyond the lease boundary, you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.





United States Department of the Interior

BUREAU OF LAND MANAGEMENT Carisbad Resource Area Headquarters P. O. Box 1778 Carisbad, New Mexico 88229

April 7, 1994

OPERATUR: Pogo Produc	ing Company	Lease No. <u>NM-</u> 43744					
WELL NO. & NAME Sand Dunes 34 Federal #2							
LOCATION: <u>SE 1 NE 1</u> , Sec. <u>34</u> , T. <u>23</u> S., R. <u>31</u> E., Eddy County, N.M.							
The check list below indicates the information needed before your Waste or Salt Water Disposal method can be approved:							
Brushy Canyon	Name(s) of formation(s) proc	iucing water on the lease.					
35 BBLS	Amount of water produced fro per day.	m each formation in barrels					
Attached	A water analysis of produced in at least the total dissol concentrations of chlorides	ved solids, ph, and the					
500 BBL F.G. Tank	How water is stored on the 1	ease.					
3" Poly Line	How water is moved to dispos	al facility.					
Pogo Producing Co. Calmon #5 SWD	Operator's name, well name a township and range, of the d disposal facility is an appr operator's name and the name should suffice.	oved disposal system, the					

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Supervisory Petroleum Engineer Technician

Nutro Products Corporation P.O. Box 21187 Houston, Texas 77225 Phone (713) 675-3421 * Fax (713) 675-7646

WATER ANALYSIS

Date 03/31/94 Nutro Rep TERRY Sampling Point WELL HEAD Company POGO PRODUCING Field Lease	SOLANSKY SAND DUNES "34"	Code W-0887 State TEXAS County EDDY N.M. Well 2
DISSOLVED SOLIDS		
CATIONS	mg/l	me/1
Sodium, Na⁺ (Calc.)	119,600	5,200
Total Hardness as Ca ⁺⁺	22,800	0
Calcium, Ca ⁺⁺	21,600	1,080
Magnesium, Mg ⁺⁺	732	61
Barium, Ba ⁺⁺	10	0
Iron (Total) Fe ^{****}	55	3
ANIONS		
Chlorides, COl ⁻	225,000	6,338
Sulfate, SO₄ ⁼	210	4
Carbonate, CO₃⁼	0	0
Bicarbonate, HCO3 ⁻	98	2
Sulfide, S⁼*	0	0
Total Dissolved Solids (Calc.)	367,305	
OTHER PROPERTIES		
pH*	6.900	
Specific Gravity, 60°/60 F	1.183	
TURBIDITY	40	

Remarks SAMPLE TAKEN ON 05/29/94

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SCALING INDICIES							
TEMP, F	CA CO ₃	CASO4*2H2O	CA SO4	BA SO4			
80	3.0071	0.0637	-0.4189	0.6155			
120	3.7433	0.0594	-0.2428	0.5308			
160	4.8498	0.0875	-0.0421	0.3484			