

New Mexico Oil Conservation Division, District I

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

1625 N. French Drive
Hobbs, NM 88240

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. MM14497A
2. Name of Operator EOG Resources Inc.		6. If Indian, Allottee or Tribe Name
3a. Address P.O. Box 2267 Midland, Texas 79702	3b. Phone No. (include area code) 915 686 3689	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6, T-25-S, R-34-E G		8. Well Name and No. Diamond 6 Fed. 1
		9. API Well No. 30-025-27928
		10. Field and Pool, or Exploratory Area Pitchfork Ranch Morrow
		11. County or Parish, State Lea NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

1. Water is produced from the Morrow formation.
2. The well makes approximately 1 BWPD.
3. Water analysis is attached.
4. Water is stored in a 210 bbl fiberglass tank.
5. Water is trucked to the disposal facility.
6. Water is disposed of at the Vaca Ridge 30-1 well located 1980' FWL & 1980' FSL, Unit K, Sec 30, T-24-S, R-34-E, Lea County, Permit Number SWD-549.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

**SUBJECT TO
LIKE APPROVAL
BY STATE**

APPROVED

JUL 2 2002

GARY GOURLEY
PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Stan Wagner	Title Reg Analyst
	Date 6/20/02

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office		

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

GWW

Water Production & Disposal Information

In order to process your disposal request, the following information must be

Completed: **Diamond 6 Federal 1**

1. Name of formations producing water on the lease. Morrow
2. Amount of water produced from all formations in barrels per day. 1 BPD
3. Attached a current water analysis of produced water from all zones showing at least the total dissolved solids, ph, and the concentrations of chlorides and Sulfates. (one sample will suffice if the water is commingled)
4. How water is stored on the lease. 210 BBL Fiberglass Tank
5. How water is moved is moved to the disposal facility. Trucked
6. Identify the Disposal Facility by:
 - A. Facility operators name EOG Resources, Inc.
 - B. Name of facility or well name & number. Vaca Ridge 30 SWD
 - C. Type of facility or well (WDW) (WIW) etc. WDW
 - D. Location by 1/4 1/4 Section 30 Township 24S Range 34E
1980' FSL & 1980' FWL in Unit K
7. Attach a copy of the State issued permit for the Disposal Facility.

Submit to this office, 414 West Taylor, Hobbs, NM 88240, the above required information on a Sundry Notice 3160-5. Submit 1 original and 5 copies, within the required time frame. (This form may be used as an attachment to the Sundry Notice,) call me at 505-393-3612 if you need to further discuss this matter.



P.O. BOX 2187
 HOBBS, N.M. 88240

PHONE: (505) 393-7726

WATER ANALYSIS REPORT

Report for: RICK SCHATZ

cc:
 cc:
 cc:

Company: ENRON
 Address:
 Service Engineer:

Date sampled: 4-14-89
 Date reported: 4-18-89
 Lease or well # : DIAMOND 6 FED #1
 County: State:
 Formation:
 Depth:
 Submitted by: RICK SCHATZ

CHEMICAL COMPOSITION :

	mg/L	meq/L
Chloride (Cl)	17000	480
Iron (Fe) (total)	77.0	
Total hardness	3300	
Calcium (Ca)	802	40
Magnesium (Mg)	315	25
Bicarbonates (HCO3)	610	10
Carbonates (CO3)	n/a	
Sulfates (SO4)	43	1
Hydrogen sulfide (H2S)	0	
Carbon dioxide (CO2)	n/a	
Sodium (Na)	9776	425
Total dissolved solids	28548	
Barium (Ba)	n/a	
Strontium (Sr)	n/a	
Specific Gravity	1.020	
Density (#/gal.)	8.500	
pH	6.750	
IONIC STRENGTH	0.52	

Stiff-Davis (CaCO3) Stability Index :
 SI = pH - pCa - pAlk - K

- SI @ 86 F = -0.08
- 104 F = +0.15
- 122 F = +0.41
- 140 F = +0.70
- 158 F = +1.02

This water is 3648 mg/l (-98.33%) under ITS CALCULATED
 CaSO4 saturation value at 82 F.
 SATURATION= 3710 mg/L PRESENT= 62 mg/L

REPORTED BY RANDOLPH SCOTT
 CHEMIST

Vaca Ridge 30
R
Shate



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

AMENDED ADMINISTRATIVE ORDER SWD-549

APPLICATION OF ENRON OIL AND GAS COMPANY FOR SALT WATER DISPOSAL,
LEA COUNTY, NEW MEXICO.

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), Enron Oil and Gas Company made application to the New Mexico Oil Conservation Division on November 23, 1993, for permission to complete for salt water disposal its Vaca Ridge "30" Federal Com Well No. 1 located 1980 feet from the South line and 1980 feet from the West line (Unit 30) of Section 30, Township 24 South, Range 34 East, NMPM, Lea County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met; and
- (4) No objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED THAT:

The applicant herein, Enron Oil and Gas Company is hereby authorized to complete its Vaca Ridge "30" Federal Com Well No. 1 located 1980 feet from the South line and 1980 feet from the West line (Unit K) of Section 30, Township 24 south, Range 34 East, NMPM, Lea County, New Mexico, in such manner as to permit the injection of salt water for disposal purposes into the Bell Canyon formation at approximately 6300 feet to 6400 feet through 2 3/8-inch plastic-lined tubing set in a packer located at approximately 5300 feet.

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Enron Oil and Gas Company
August 25, 1994
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IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing, or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 1260 psi.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Bell Canyon formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment and of the mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Hobbs district office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

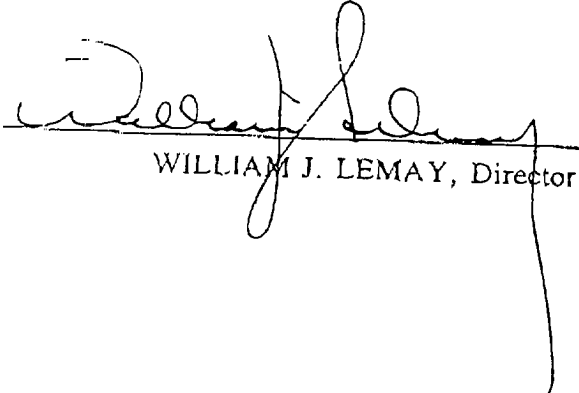
PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for the entry of such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

The operator shall submit monthly reports of the disposal operations in accordance with Rule Nos. 706 and 1120 of the Division Rules and Regulations.

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The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

Approved at Santa Fe, New Mexico, on this 25th day of August, 1994.


WILLIAM J. LEMAY, Director

WJL/BES/amg

xc: Oil Conservation Division - Hobbs
US Bureau of Land Management - Carlsbad