

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

New Mexico Oil Conservation Division, District 1
1625 N. First Drive
Hobbs, NM 88249

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

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

EOG Resources Inc.

3a. Address

P.O. Box 2267 Midland, Texas 79702

3b. Phone No. (include area code)

915 686 3689

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 34, T-24-S, R-34-E

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
RNM087

8. Well Name and No.

Pitchfork 34 1

fed.com

9. API Well No.

30-025-28002

10. Field and Pool, or Exploratory Area

Pitchfork Ranch Atoka

11. County or Parish, State

Lea NM

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

TYPE OF SUBMISSION

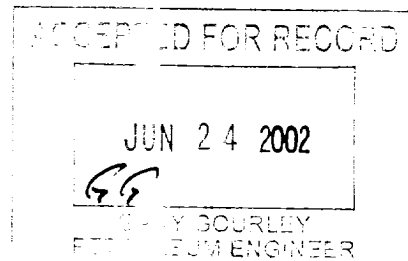
- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off
☐ Alter Casing ☐ Fracture Treat ☐ Reclamation ☐ Well Integrity
☐ Casing Repair ☐ New Construction ☐ Recomplete ☐ Other
☐ Change Plans ☐ Plug and Abandon ☐ Temporarily Abandon
☐ Convert to Injection ☐ Plug Back ☒ 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 recompleat 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 recompleat 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 to 3 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.



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

Water Production & Disposal Information

In order to process your disposal request, the following information must be Completed: **Pitchfork 34 - 1**

1. Name of formations producing water on the lease. Morrow
2. Amount of water produced from all formations in barrels per day. 1 - 3 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 ¼ 1 ¼ 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.

REACTION CHEMICAL ENTERPRISES, INC.
P. O. BOX 3868
ODESSA, TEXAS 79760-3868

WATER ANALYSIS

Company: **EOG**
Lease: Pitchfork
Well #: 34-1

Date of Analysis: 5/16/01

Sample Date: 5/14/01

RUN #

891

	<u>Mg./L.</u>	<u>Meq./L.</u>	
Total Hardness - CaCO ₃	3,500		
Total Dissolved Solids - TDS	7,921		
Calcium - Ca	400	20	
Magnesium - Mg	559	46	
Sodium - Na	0	0	
Barium - Ba	0		
Bicarbonate - HCO ₃	170.8	3	
Carbonate - CO ₃	0		
Sulfate - SO ₄	0	0	
Chloride - Cl	5,000	141	
Carbon Dioxide - CO ₂	264.0		
Hydrogen Sulfide - H ₂ S	0		
Temperature	70.0		
pH	7.1		
Specific Gravity	1.005		
LBS/GAL	8.37		

STABILITY INDEX (Stiff-Davis)

SI = pH - pCa - pAlk - K

CaSO₄ Mg./L.

SOLUBILITY : 2,719

Degrees F. S.I.

ACTUAL : 0

77 -0.07

100 0.42

180 1.32

SATURATION % : 0.0

SERVICE ENG. Jim Pettit / K.C. O'Neill
ANALYZED BY: Anthony Mitchell

Vaca Ridge 30
R
Shate
DRUG FREE



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) 827-5900

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.

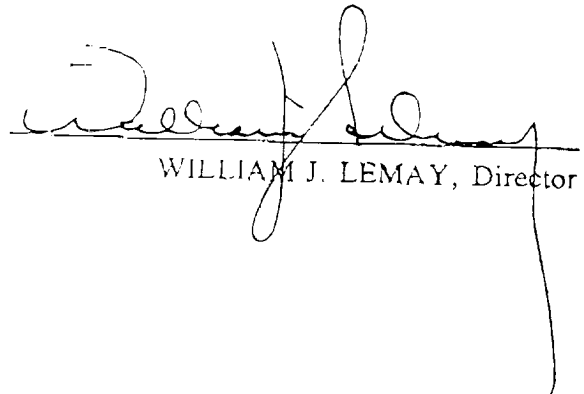
PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for the entry of such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to conduct operations in a manner 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