

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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 WATER INJECTION WELL

2. Name of Operator  
VULCAN MINERALS & ENERGY dba REGENT ENERGY

3a. Address HOUSTON, TX 77060  
650 N. SAM HOUSTON PKWY E. STE 500

3b. Phone No. (include area code)  
(281) 931-3800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
660' FSL, 660' FEL  
SECTION 28, T-31N, R-16W

5. Lease Serial No.  
14-20-604-1951

6. If Indian, Allottee or Tribe Name  
UTE

7. If Unit or CA/Agreement, Name and/or No.  
HORSHOE GALLUP UNIT

8. Well Name and No.  
HGU #169

9. API Well No.  
30-045-10335

10. Field and Pool, or Exploratory Area  
HORSESHOE GALLUP UNIT

11. County or Parish, State  
SAN JUAN, NEW MEXICO

**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 checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input 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 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 site is ready for final inspection.)

VULCAN MINERALS PLUGGED AND ABANDONED THE ABOVE WELL AS PER PROCEDURES APPROVED ON 8-01-2000.

SEE ATTACHED REPORT FOR DETAILED INFORMATION.

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)  
NATHAN E. CRAWFORD for RICHARD POMRENKE P&A SUPERVISOR

Signature *Nathan E. Crawford* Date JULY 31, 2001

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 \_\_\_\_\_

**ACCEPTED FOR RECORD**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

7/15/2001

NMOCOD

4th  
V

OFFICE



**Key Energy Services, Inc.**

Four Corners Division  
5651 US Highway 64  
P.O. Box 900  
Farmington, NM 87499

**P&A OPERATION  
CEMENT SERVICE REPORT**

Phone: 505-327-4935  
Fax: 505-327-4962

**WELL NAME:** HORSE SHOE GALLUP UNIT #169

**TOTAL PLUGS SET:** 2

**DATE STARTED:** 07-26-01

**TOTAL SACKS USED:** 102 SX

**DATE COMPLETED:** 07-27-01

**BLM WITNESS:** M. GREY-LOPE  
**OPERATOR WITNESS:** N. WOODS

MOL AND SPOT RIG AND PLUGGING EQUIPMENT. RU RIG. BLED DOWN WELL, ND WELLHEAD AND RELEASE PACKER, NU BOP, TESTED BOP. POH AND STRAP OUT WITH 1417.04' OF 2 3/8" TBG AND LD PACKER.

**PLUG #1 (PERFORATIONS, 1132' - 1478'),** PU AND RIH WITH 5 1/2" RETAINER AND SET AT 1353'. CIRCULATED CASING AND ATTEMPTED TO PRESSURE TEST TO 500 PSI, LOST 50 PSI IN 5 MINUTES. ESTABLISHED INJECTION RATE INTO PERFORATIONS AT 1 BPM WITH 900 PSI. MIXED 58 SX CL. B CEMENT PLUG AND PLACED 33 SX BELOW AND 25 SX ON TOP OF RETAINER. POH.

**PLUG #2 (SURFACE, SHOE, 0' - 178'),** RU WIRELINE AND PERFORATED SQUEEZE HOLES AT 178'. POH. ESTABLISHED CIRCULATION TO SURFACE WITH 30 BBL WATER. MIXED 44 SX CL. G CEMENT PLUG TO CIRCULATE GOOD CEMENT TO SURFACE. RD FLOOR AND ND BOP. CUT OFF WELLHEAD AND INSTALLED DRY HOLE MARKER. RD RIG AND MOL.

A handwritten signature in black ink, appearing to read "N.E. Crawford", is positioned above the printed name.

NATHAN E. CRAWFORD.  
P&A SUPERVISOR