

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**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.*

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

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator *Vulcan Minerals & Energy*  
*% NMOC*

3a. Address *1000 Rio Brazos Rd.*  
*Azee, NM 87410*

3b. Phone No. (include area code)  
*334-6178*

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
*Sec. 4, T. 30N., R. 16W.,*  
*1550/S & 1250/E*

5. Lease Serial No.  
*SF-081226*

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
*Horseshoe Gallup*

8. Well Name and No.  
*297 HGU*

9. API Well No.  
*3004522097*

10. Field and Pool, or Exploratory Area  
*Horseshoe Gallup*

11. County or Parish, State  
*San Juan, NM*

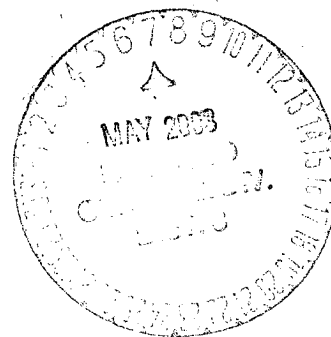
**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 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.)

*See attached plugging procedure*

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**



14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

*NMOC CONTRACT Plugging*

Title

Signature *NMOC*

Date

*5/1/03*

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

*[Signature]*

Title

Date

**MAY 05 2003**

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, 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.

**OPERATOR**

API WELL # Well Name Well # Operator Name Type Stat County Surf\_Owner UL Sec Twp N/S Rng W/E Feet NS Ft EW

Order\_No 30-045-22097 HORSESHOE GALLUP UNIT 297 PLAYA MINERALS & ENERGY INC O A San Juan I 4 30 N 16 W

1550 S 1250 E

api\_number status csg\_1 csg\_1q csg\_1d csg\_2 csg\_2q csg\_2d csg\_3 csg\_3q csg\_3d  
liner\_size liner\_quan tubing t\_set\_dept csg\_perf 30-045-22097 CO 8 5/8 139 120S 5 1/2  
1368 225S 2 7/8 1315 1292-1302

Procedure

MIRU, NUBOPE,

POOH Lay Down Rods & Tubing if present,

RIH with Gauge ring,

Pick up work string, Run Scraper if required,

RIH Set CIBP 1100 ', cap with 215 'cement .

Test casing.

POOH lay down tubing.

RU wire line RIH, perforate @ 189 ' + - 50' under surface casing shoe or Mesa Verde base whichever is lower..

Establish Circulation; circulate cement to surface inside and outside casing

Cut off well head and install P&A marker

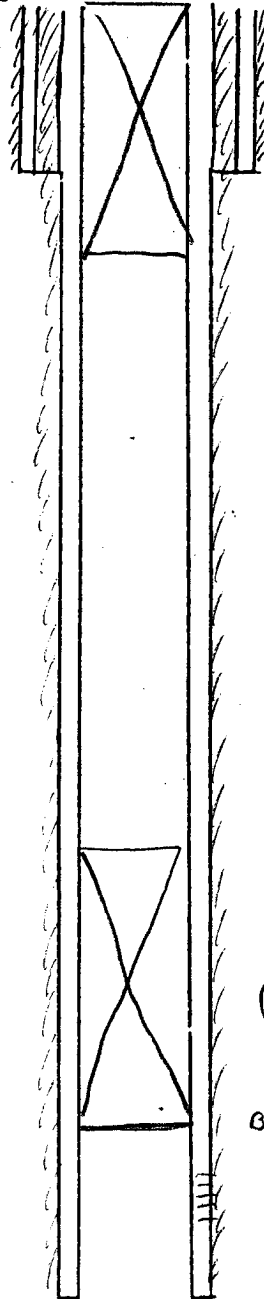
Cut off anchors 2' below ground

Clean and level location

Note! Cement reported circulated on 5 1/2" casing so Perforating @ 189' may not be necessary.

WELL NAME 297 HGU  
 SEC, TWN, RNG. 4-30N-16W

Mancoos



8 5/8" 24 #

139'

$$139 / 7.299 (1.18) = 16 \text{ SKS}$$

Gallup

935'

plug 1100 - 885'

$$(1100 - 885) + 50 / 7.299 (1.18) = 31 \text{ SKS}$$

BP @ 1100'

1190 - 1240

Perfs @ 1292 - 1302

5 1/2 14 #

1368'

INTERMEDIATE CASING

SURFACE CASING

SIZE HOLE \_\_\_\_\_"

SIZE CASING \_\_\_\_\_"

Annular Volume \_\_\_\_\_ ft<sup>3</sup>/ft.

Cement \_\_\_\_\_ SK

Volume \_\_\_\_\_ ft<sup>3</sup>

SIZE HOLE \_\_\_\_\_"

SIZE CASING \_\_\_\_\_"

Annular Volume \_\_\_\_\_ f

Cement \_\_\_\_\_ S

Volume \_\_\_\_\_ f

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON FIELD OFFICE  
1235 LA PLATA HIGHWAY  
FARMINGTON, NEW MEXICO 87401**

Attachment to notice of

Re: Permanent Abandonment

Intention to Abandon:

Well: 297 Horseshoe Gallup Unit

**CONDITIONS OF APPROVAL**

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.
3. The following modifications to your plugging program are to be made:

Office Hours: 7:45 a.m. to 4:30 p.m.