

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0115  
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**

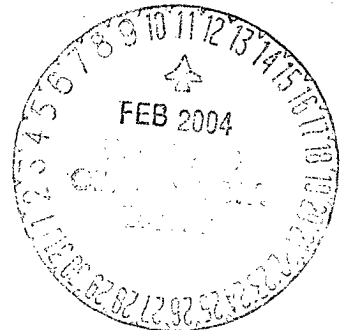
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other (Inj)		5. Lease Serial No. SF-079439
2. Name of Operator Vulcan Minerals & Energy % NMOC		6. If Indian, Allottee or Tribe Name
3a. Address 1000 Rio Brazos Rd. Aztec, NM 87410	3b. Phone No. (include area code) 334-6178	7. If Unit or CA/Agreement, Name and/or No. Horseshoe Gallup
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec. 4, T. 30N., R. 16W., 2310/S - 4390/E		8. Well Name and No. 242 HGU
		9. API Well No. 3004509901
		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



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

Original Signed: Stephen Mason

Title

Date 5/2/03

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

Approved by: James B. Walker  
US EPA Region 9 1/22/04

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.

EPA

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 30-045-09901 HORSESHOE GALLUP UNIT 242 PLAYA MINERALS & ENERGY INC I A San Juan 6 4 30 N 16 W 2310  
S 4290 E R-7395  
WI 8 5/8 76 80S 5 1/2 1212 100S 2 3/8 1155 1079-1126

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 1000 ', cap with 231 'cement .

Test casing.

POOH lay down tubing.

RU wire line RIH, perforate @ 146 ' + - 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

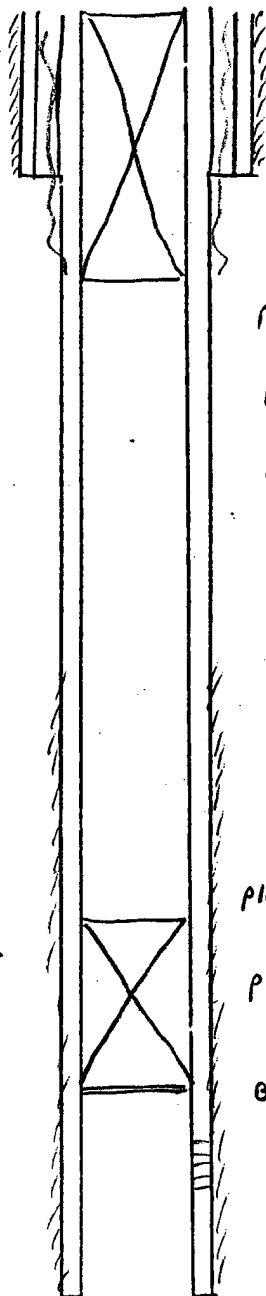
Clean and level location

WELL NAME 242 Horse shoe Gallup Unit  
 SEC, TWN, RNG. 4-30N-16W

Mancoos

Gallup

819'



8 5/8" 24#  
96'

plug 146 - surface

$$\begin{aligned} 146 / 7.299 (1.18) &= 17 \text{ SKS} \\ 50 / 5.7719 (1.18) &= 7 \text{ SKS} \\ 96 / 5.192 (1.18) &= 16 \text{ SKS} \\ &= 40 \text{ SKS} \end{aligned}$$

TOC  $\approx$  593' 75% eff.

$$\text{plug } (1000 - 769) + 50 / 7.299 (1.18) = 33 \text{ SKS}$$

plug 1000 - 769

BP @ 1000'

perf @ 1079' - 1125'

5 1/2" 14#  
1212'

### SURFACE CASING

SIZE HOLE \_\_\_\_\_"  
 SIZE CASING \_\_\_\_\_"  
 Annular Volume \_\_\_\_\_ ft<sup>3</sup>/ft.  
 Cement \_\_\_\_\_ SK  
 Volume \_\_\_\_\_ ft<sup>3</sup>

### INTERMEDIATE CASING

SIZE HOLE \_\_\_\_\_"  
 SIZE CASING \_\_\_\_\_"  
 Annular Volume \_\_\_\_\_ f  
 Cement \_\_\_\_\_ S  
 Volume \_\_\_\_\_ f