

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

2. Name of Operator *Vulcan Minerals*

% NMOCD

3a. Address *1000 Rio Brazos Rd.*

Aztec, Nm 87410

3b. Phone No. (include area code)

334-6178

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

Sec. 2, T. 30N., R. 16W.

505/N + 660/E

5. Lease Serial No.

14-20-603-4908

6. If Indian, Allottee or Tribe Name

Navajo Allottee

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

Horseshoe Gallup

8. Well Name and No.

230 HGU

9. API Well No.

3004510017

10. Field and Pool, or Exploratory Area

Horse shoe 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

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☒ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other

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)

NMOCD Contract Plugging

Title

Signature

NMOCD

Date

4/14/03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

4/16/03

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

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.

NMOCD

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 30-045-10017 HORSESHOE GALLUP UNIT 230 PLAYA MINERALS & ENERGY INC O A San Juan 1 2 30 N 16 W 505
N 660 E

status csg_1 csg_1q csg_1d csg_3 csg_3q csg_3d liner_size liner_quan tubing
t_set_dept csg_perf CO 8 5/8 100 103S 5 1/2 1585 103S 4 1/2 1549-1620 2 3/8 1565
1574-1615

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 1475 ', cap with 325 'cement .

Test casing.

POOH lay down tubing.

RU wire line RIH, perforate @ 248 ' + - 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

ENTERED

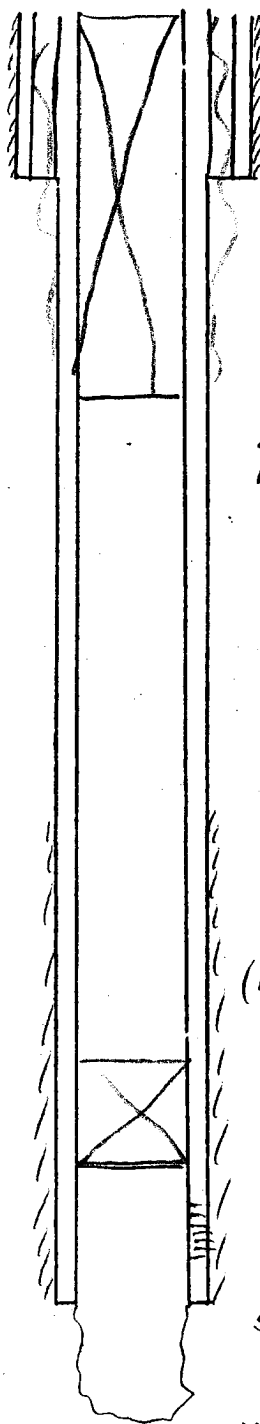
F

WELL NAME 230 Horse Shoe Gallup Unit
 SEC, TWN, RNG. 2-30N-16W

Mesa Verde

Pajar Lookout
 Mancosha 198'

Gallup 1200'



8 5/8" 28#
 100'

plug 248

$$\begin{aligned} 248 / 7.483 (1.18) &= 28 \text{ SK} \\ 148 / 5.7719 (1.18) &= 22 \text{ SK} \\ 100 / 5.389 (1.18) &= 16 \text{ SKs} \\ &= 66 \text{ SKs} \end{aligned}$$

TOC \approx 526' 75% eff.

$$(1475 - 1150) + 50 / 7.483 (1.18) = 42 \text{ SKs}$$

plug 1475-1150

BP @ 1475

port @ 1574-84'

5 1/2" 15.5#
 1585'

1620'

SURFACE CASING

SIZE HOLE _____"
 SIZE CASING _____"
 Annular Volume _____ ft³/ft.
 Cement _____ SK
 Volume _____ ft³

INTERMEDIATE CASING

SIZE HOLE _____"
 SIZE CASING _____"
 Annular Volume _____ f
 Cement _____ S
 Volume _____ f