

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

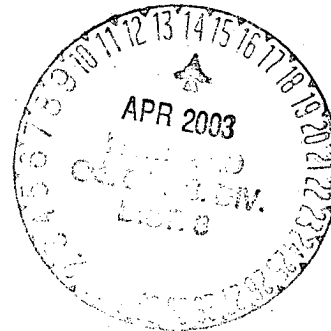
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Inj		5. Lease Serial No. 14-20-600-3531
2. Name of Operator Vulcan Minerals & Energy % NMOCN		6. If Indian, Allottee or Tribe Name Navajo
3a. Address 1000 Rio Brazos Rd. Aztec, 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. 19-T. 31N., R 16W. 680/N 2 682/W		8. Well Name and No. 89 HGU
		9. API Well No. 30045-10658
		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 PAA procedure



14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

NMOCN Contract Plugging

Title

Signature NMOCN

Date

4/10/03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

4/10/03

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.

NMOCN

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

30-045-10658 HORSESHOE GALLUP UNIT 089 PLAYA MINERALS & ENERGY INC I A San Juan D 19 31 N 16 W 680 N 682 W

R-2210

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 30-045-10658 WI 8 5/8 100 125S 4 1/2
1506 150S 2 7/8 1454 1440-56

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 1350 ', cap with 221 'cement .

Test casing.

POOH lay down tubing.

RU wire line RIH, perforate @ 182 ' + - 50' under surface casing shoe or Mesa Verde base whichever is lower..

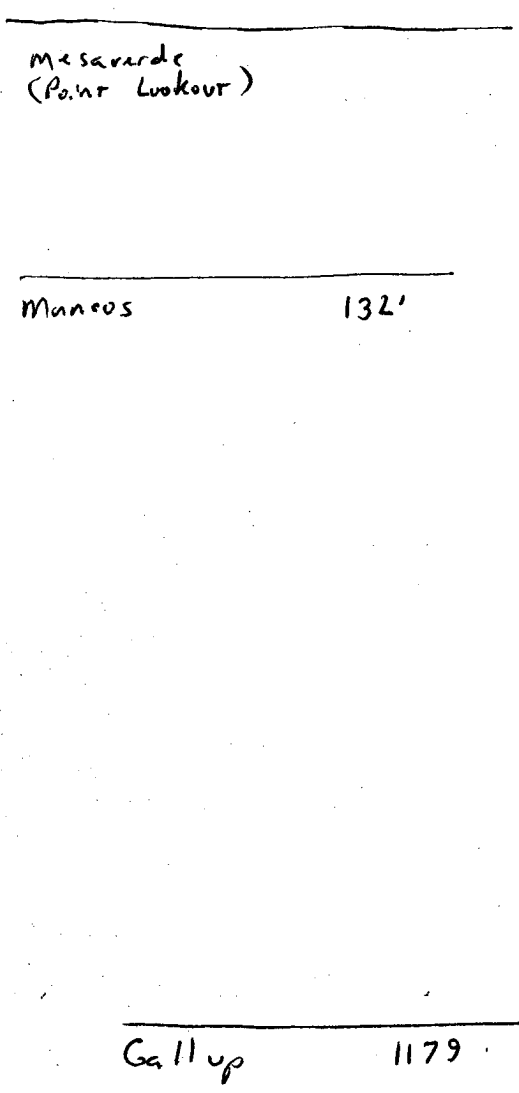
Establish Circulation; circulate cement to surface inside and outside casing

Cut off well head and install P&A marker

Cut off anchors 2' below ground

Clean and level location

WELL NAME 89 HGU
 SEC, TWN, RNG. 19-31N-16W



8 5/8" 24#
 100'

plug 182 = surface

$$\begin{aligned} 182 / 10.96 (1.18) &= 14 \text{ sks} \\ 82 / 4.3899 (1.18) &= 16 \text{ sks} \\ 100 / 4.046 (1.18) &= 21 \text{ sks} \\ &= 51 \text{ sks} \end{aligned}$$

Toc \approx 627' 75% off

plug 1350 - 1129'

$$(1350 - 1129) + 50 / 10.96 (1.18) = 21 \text{ sks}$$

BP @ 1350'

Pert @ 1442' - 1456'

4 1/2" 9.5#
 1506'

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