

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 deepen or reentry to a different reservoir,
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.
14-20-600-3531 -

6. If Indian, Allottee or Tribe Name
Navajo

7. If Unit or CA. Agreement Designation

Horseshoe Gallup Unit

8. Well Name and No.
HGU #111

9. API Well No.
30-045-10507

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

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

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other WIW
2. Name of Operator Vulcan Minerals & Energy, Inc.
Central Resources, Inc. c/o Playa Minerals & Energy, Inc.

3. Address and Telephone No.
650 N. Sam Houston Pkwy. E. Suite 500 Houston, Tx. 77060 (281) 931-3800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
601' FSL, 2002' FWL, Sec. 19, T31N, R16W

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

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Vulcan plans to plug and abandon this well per the attached procedures.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

ENTERED
ADMISS

SEP 07 2001

BY sm

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

Signed Ken Jackson Title Regulatory Compliance Date 08/14/01
Ken Jackson

(This space for Federal or State office use)

Approved by [Signature] Title PE Date 9/7/01

Conditions of approval, if any:

Approved by: Jenna Walker US EPA Region 9 1/22/04

Title 18 U.S.C. Section 1001 makes 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 manner within its jurisdiction.

*See Instruction on Reverse Side

FARMINGTON COPY

**Plugging and Abandonment Procedure
Horseshoe Gallup Unit No. 111
Attachment "A"**

Well Data:

Location: 601' FSL, 2002' FWL, Section 19 T31N, R16W
San Juan County New Mexico

TD: 1585'
PBTD: 1545'

Surface Casing: 8-5/8", 24 #/ft, J-55 set @ 102' with 125 sacks

Production Casing: 5-1/2", 14 #/ft, H-40 set @ 1577' with 150 sacks

Perforations: 1500' – 1514' with 2SPF
1378' – 1404' with 2SPF

Procedure:

Release packer and TOH w/tubing.

Trip in hole with cement retainer and set at 1325'. Circulate hole and pressure test casing.

Mix and pump 70 sacks of cement below retainer. Pull out of retainer and set ~~28~~ sack plug on top of retainer. Estimated top of cement @ 1475'. 1114' 30 (JW)

Trip out of hole and lay down tubing.

Perforate squeeze holes 150'

Establish circulation down casing, through annulus and out bradenhead.

Mix and pump 50 sacks of cement down casing through perforations, into annulus and out through bradenhead. Leave casing and annulus full of cement.

Cut off casing wellhead and install regulation dry hole marker.

Reclaim location as per BLM regulations.

**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: 111 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. Mike Flanikan with the 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:

a) Bring the top of the Gallup plug to 1114'.

b) Place the Surface plug from 152' to surface inside and outside the 5 ½" casing.

You are also required to place cement excesses per 4.4 of the attached General Requirements.

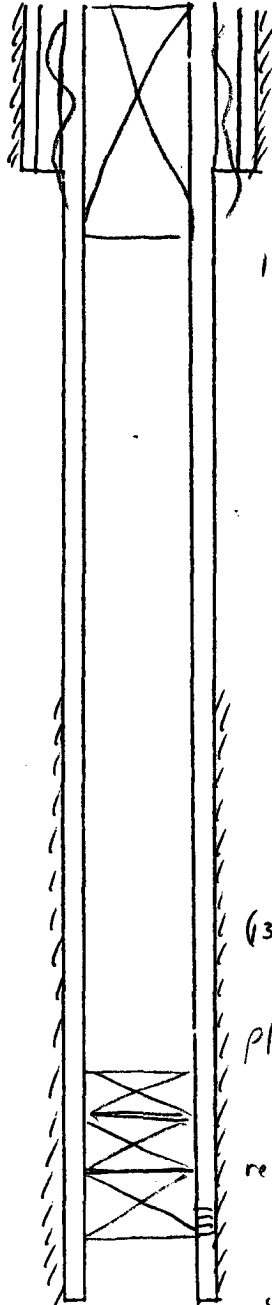
Office Hours: 7:45 a.m. to 4:30 p.m.

WELL NAME III HCU
 SEC, TWN, RNG. 19-31N-16W

P.L. (Mesavada)

Mancos 60

Gallup 1164'



8 5/8 24 #
102

152 - Surface w 50 SKS

$$\begin{aligned} 152 / 7.299 (1.18) &= 188 \text{ SKS} \\ 50 / 5.7719 (1.18) &= 7 \text{ SKS} \\ 102 / 5.192 (1.18) &= 17 \text{ SKS} \\ &= 42 \text{ SKS} \end{aligned}$$

TOC ≈ 752' 75% off.

$$(1325 - 1114) + 50 / 7.299 (1.18) = 30 \text{ SKS or greater}$$

Plug 1325 - 1114

retainer @ 1325' spool @ w/ 23 SKS

Perf @ 1380' - 1516'

5 1/2 14 #
1577'

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

**BLM FLUID MINERALS
Geologic Report**

Date Completed: 8/31/01

Well No.	Horseshoe Gallup Unit # 111	Location	601'	FSL &	2002'	FWL
Lease No.	14 - 20 - 600 - 3531	Sec. 19	T31N			R16W
Operator	Vulcan Mineral & Energy, Inc.	County	San Juan	State	New Mexico	
Total Depth	1585'	PBTD	1549'	Formation	Gallup (WIW)	
Elevation (GL)	5675'	Elevation (KB)	5682'			

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					
Nacimiento Fm					
Ojo Alamo Ss					
Kirtland Shale					
Fruitland Fm					
Pictured Cliffs Ss					
Lewis Shale					
Chacra					
Cliff House Ss					
Menefee Fm					
Point Lookout Ss		60	Surface		Surface/Potential useable water sands
Mancos Shale	60			1164	
Gallup			1164	PBTD	Oil & Gas/Water
Dakota Ss					
Morrison					

Remarks:

P & A

Reference Well:

Same

- BLM geologist's pick for the top of the Gallup fm. reflects the top of the transitional Tocito interval in this well. This top varies from operator's pick in this well.
- Potential useable water sands in the Point Lookout fm. are behind S.C.
- It is recommended that the Gallup plug be extended upward to adequately isolate the Gallup top identified in this report.

Prepared by: Chip Harraden *CH*

ENTERED
AFMSS

AUG 31 2001

BY *CH*