

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**  
Sundry Notices and Reports on Wells

FEB 21 PM 2 37

<b>1. Type of Well</b>	RECEIVED 070 FARMINGTON NM	<b>5. Lease Number</b> NMBIA #14-20-603-734
Oil Well		<b>6. If Indian, All. or Tribe Name</b> Navajo
<b>2. Name of Operator</b>		<b>7. Unit Agreement Name</b> Horseshoe Gallup
Vulcan Minerals & Energy, c/o NMOCD Aztec District Office		
<b>3. Address &amp; Phone No. of Operator</b>		<b>8. Well Name &amp; Number</b> HSGU #43
1000 Rio Brazos Road, Aztec, NM 87410 505-334-6178		<b>9. API Well No.</b> 30-045-10194
<b>4. Location of Well, Footage, Sec., T, R, M</b>		<b>10. Field and Pool</b> Horseshoe Gallup
2110' FNL and 2020' FEL, Section 32, T-31-N, R-16-W		<b>11. County &amp; State</b> San Juan County, NM

**12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA**

Type of Submission	Type of Action	
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other -	

**13. Describe Proposed or Completed Operations**

A-Plus Well Service re-entered and subsequently re-plugged and abandoned this well:

1/19/06: MOL. Remove P&A marker. RU rig. Dig out casings stubs: Found good cement inside the 4.5" casing; observed a small water flow and small gas bubbles in the 4.5" x 8.625" casing annulus. Weld on wellhead.

1/20/06 thru 1/26/06: Drill out hard cement from surface to 380' inside the 4.5" casing. Pressure test 4.5" casing to 500#, OK.

1/27/06 Continue drilling to 425', observed lots of metal in returns. Attempt to pressure test 4.5" casing to 500#, bleed down to 250# in 1 minute. BLM and NMOCD representatives said deep enough. TOH with bit. Perforate 3 squeeze holes at 423'. Unable to establish injection rate; casing bleed down with same leak.

**Re-entry Plug #1:** with tubing at 425', mix 11 sxs Type III cement (15 cf): 1<sup>st</sup> spot a balanced plug inside casing from 425' to 266'; 2<sup>nd</sup> PUH to 313' and reverse circulate well clean; 3<sup>rd</sup> POH with tubing; and 4<sup>th</sup> squeeze about 1 sxs cement outside the casing with final pressure of 500#. Shut in well and WOC.

1/30/06 Pressure test 4.5" casing to 500#, held OK. Perforate 3 squeeze holes at 250'. Unable to establish injection rate, pressured up to 1000# then bleed down to 750# in 2 minutes. Perforate 3 additional holes at 200'. Unable to establish injection rate; same bleed off. Then perforate at 169'. Unable to establish rate; same bleed off.

**Re-entry Plug #2:** with tubing at 313', mix 47 sxs Type III cement (62 cf) and spot a plug inside the casing from 313' to surface, circulate good cement out casing valve. TOH and LD tubing. Attempt to squeeze cement outside the casing; pressured up to 1200#. SI well with 1000# for 15 minutes. Open well. ND BOP. RD rig. Dig out casing. Found cement at surface inside the casing. Mix 10 sxs Type III cement and re-install the P&A marker. MOL.

H. Villanueva, NMOCD representative, was on location.

SIGNATURE

Contractor

February 3, 2006

(This space for Federal or State Office use)

APPROVED BY

Title

CONDITION OF APPROVAL, if any:

ACCEPTED FOR RECORD

Date

FEB 22 2006

NMOCD

FARMINGTON FIELD OFFICE

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