

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well  
GAS

2. Name of Operator  
**BURLINGTON**  
**RESOURCES** OIL & GAS COMPANY

3. Address & Phone No. of Operator  
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M  
1550' FNL, 1500' FWL, Sec.10, T-26-N, R-10-W, NMPM

5. Lease Number  
SF-079658

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name  
Huerfano Unit

8. Well Name & Number  
Huerfano Unit #211

9. API Well No.  
30-045-20778

10. Field and Pool  
Basin Dakota *KL*

11. County and State  
San Juan Co, NM

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

Type of Submission

Type of Action

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input checked="" 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

It is intended to recompleate the subject well to the Gallup formation according to the attached procedure and wellbore diagram.

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


Signed *Regan Cole* Title Regulatory Administrator Date 11/16/99  
trc

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ Date 12/20/99

CONDITION OF APPROVAL, if any:

*Angel Double Gallup Assoc NSL*

16	1550'	Original plat from David O. Vilven 12-30-70		17 OPERATOR CERTIFICATION	
				I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
1550'					Signature
				Peggy Cole	Printed Name
				Regulatory Administrator	Title
				11-18-99	Date
				18 SURVEYOR CERTIFICATION	
				I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.	
				Date of Survey	
				Signature and Seal of Professional Surveyor:	
				Certificate Number	

HUERFANO UNIT #211 GALLUP  
Recompletion Procedure  
F 10 26 10  
San Juan County, N.M.  
Lat-Long: 36-30.34" - 107-53.21"

**PROJECT SUMMARY:** Plugback this 1971 depleted Dakota well to the Gallup Tocito and foam frac.

1. Comply to all NMOCD, BLM, and BROG rules and regulations. MOL and RU completion rig. NU BOP w/flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line.
2. Set blanking plug in S.N. of 2-3/8" tbg @ 6919' and pressure test tbg to 3000 psi. TOH w/2-3/8" tbg (228 Jts).
3. Run 4-1/2" csg scraper on 2-3/8" tbg to 6725'. TOH. Run 4-1/2" cmt retainer on 2-3/8" tbg and set @ 6725'. Sq DK perfs w/33 sx cl "G" cmt. This will fill inside the pipe from 6725' to 6942' w/100% excess cmt. Sting out of ret and spot 5 sx cmt on top of cmt ret @ 6700'. Reverse out cmt. Close pipe rams and pressure test 4-1/2" csg to 300 psi. TOH.
4. MI wireline. Set 4-1/2" top drillable BP @ 6300'. Run CBL from 6300' to top of cmt and from DV tool @ 5057' to top of cmt. **Do not pressure csg above 300 psi.**
5. Perf Tocito w/2 spf from 6168'-84'. Total 32 holes. Perf using 3-1/8" hollow steel carrier guns loaded w/Owen HSC 13 gm. charges phased at 180 degrees. Average perf dia. = 0.48". Average penetration is 18" in Berea.
6. Fill 3 - 400 bbl. frac tanks with 1% KCL water. If necessary, filter all water to 25 microns. Two tanks are for gel and one tank for breakdown water. Usable gel water required for frac is 403 bbls.
7. TIH w/4-1/2" pkr on 2-7/8" 6.5# N-80 w/shaved collars (3.5" O.D. 2.441" I.D.) rental frac string (run 2 jts 2-3/8" N-80 on top of pkr).and set @ 6000'. Prepare to frac.
8. W/300 psi on annulus, breakdown Tocito perfs w/1500 gal 15% HCL acid and frac down frac string w/55,000 gals. of 70 quality foam using 20# gel as the base fluid and 100,000# 20/40 Arizona sand. Pump at 25 BPM. Monitor bottom hole and surface treating pressures, rate, foam quality, and sand concentration with computer van. Sand to be tagged w/ 3 RA isotope tracers. Max. pressure is 6000 psi and estimated treating pressure is 5830 psi. Pipe friction @ 25 BPM is 4430 psi. Treat per the following schedule:

<u>Stage</u>	<u>Foam Vol. (Gals.)</u>	<u>Gel Vol. (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
Acid – 1500 gal 15% HCL			
Pad	15,000	4,500	—
1.0 ppg	10,000	3,000	10,000
2.0 ppg	10,000	3,000	20,000
3.0 ppg	10,000	3,000	30,000
4.0 ppg	10,000	3,000	40,000
Flush	( 1,460)	(438)	0
Totals	55,000	16,500	100,000#

## HUERANO UNIT #211 GALLUP - RECOMPLETE TO GALLUP TOCITO

Treat frac fluid w/the following additives per 1000 gallons:

- |                      |  |
|----------------------|--|
| * 20# J-48           | (Guar Gel mix in full tank - 16,000 gal) |
| * 1.0 gal. Aqua Flow | (Non-ionic Surfactant mix in full tank)  |
| * 1.0# GVW-3         | (Enzyme Breaker mix on fly)              |
| * 1.0# B - 5         | (Breaker mix on fly)                     |
| * 3.0 gal Fracfoam I | (Foamer mix on fly)                      |
| * 0.38# FracCide 20  | (Bacteriacide mix on full tank)          |

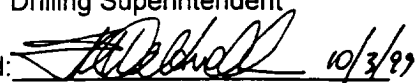
All acid on this well to contain the following additives per 1000 gal:

- |         |                |                     |
|---------|----------------|---------------------|
| 2 gal   | CI-22          | corrosion inhibitor |
| 5 gal   | Ferrotrol-300L | iron control        |
| 1 gal   | Flo-back 20    | Surfactant          |
| 0.5 gal | Clay Master-5C | clay control        |

9. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr. or less, if sand is observed. **Take pitot gauges when possible.** TOH w/pkr.
10. TIH w/notched collar on 2-3/8" tbg and C.O. to 6300' w/air/mist. Monitor gas and water returns and **Take pitot gauges when possible.**
11. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 6300'-6000'.
12. TIH w/2-3/8" 4.7# J-55 EUE tbg w/standard seating nipple one joint off bottom and again cleanout to 6300'. When wellbore is sufficiently clean, land tbg @ 6180' KB. **Take final water and gas rates.**
13. ND BOP and NU wellhead and tree. Rig down and release rig.

Recommended:  9/29/99  
Production Engineer

Approved:   
Drilling Superintendent

Approved:  10/3/99  
Team Leader

### VENDORS:

Wireline:	Basin	327-4472
Fracturing:	Howco	325-3575
RA Tag:	Pro-Technics	326-7133

PMP

# HUERFANO UNIT #211 GALLUP

UNIT F SECTION 10 T26N R10W  
SAN JUAN COUNTY, NEW MEXICO

