

District I
 PO Box 1980, Hobbs, NM 88241-1980
 District II
 PO Drawer DD, Artesia, NM 88211-0719
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
 PO Box 2088
 Santa Fe, NM 87504-2088

Form C-102
 Revised February 21, 1994
 Instructions on back
 Submit to Appropriate District Office
 State Lease - 4 Copies
 Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-20874		Pool Code 2170/71599	Pool Name Angels Peak Gallup/Basin Dakota
Property Code 7139	Property Name Huerfano Unit		Well Number 227
OGRID No. 14538	Operator Name Burlington Resources Oil & Gas Company		Elevation 6130' GR

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	32	27N	10W		1070'	South	1840'	East	SJ

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

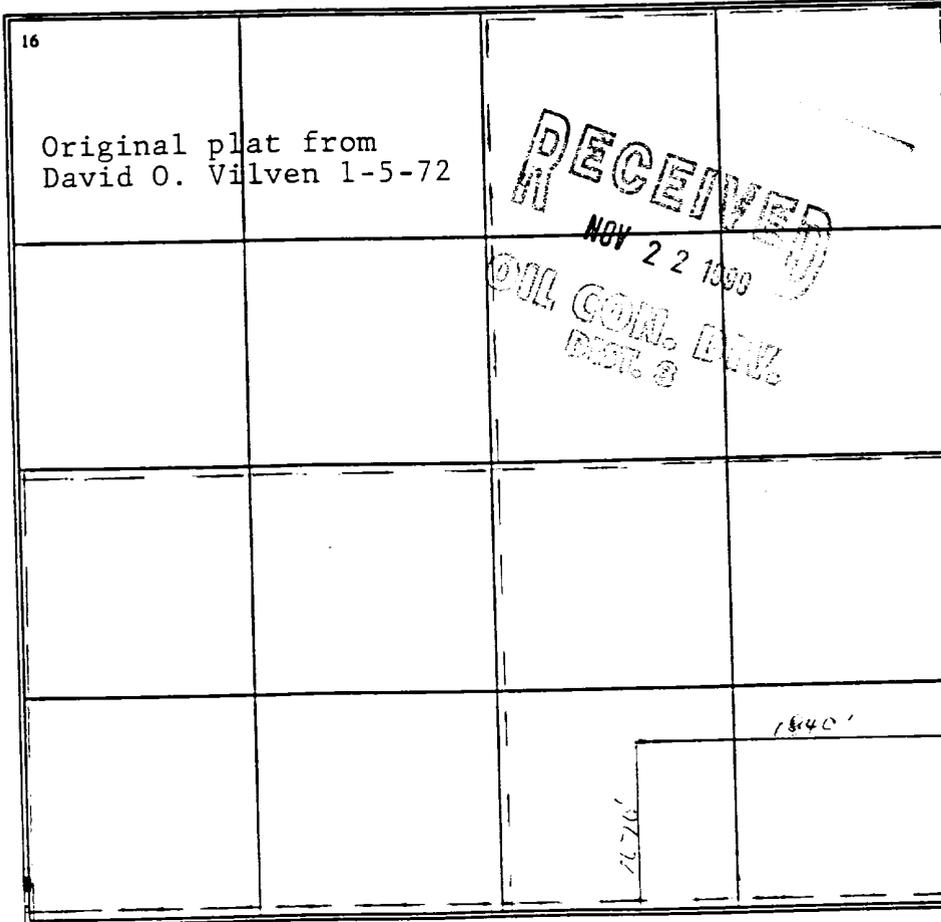
¹² Dedicated Acreage
Gal-S/320
DK-E/320

¹³ Joint or Infill

¹⁴ Consolidation Code

¹⁵ Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Peggy Cole
 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 Surveyer:
 Certificate Number

OK

HUERFANO UNIT #227 GALLUP
 Recompletion Procedure
 O 32 27 10
 San Juan County, N.M.
 Lat-Long: 36-31.64" - 107-54.93"

PROJECT SUMMARY: Plugback this 1972 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 @ 6391' and pressure test tbg to 3000 psi. TOH w/2-3/8" tbg (212 Jts) and Baker Loc-set pkr (3795').
3. Run 4-1/2" csg scraper on 2-3/8" tbg to 6222'. TOH. Run 4-1/2" cmt retainer on 2-3/8" tbg and set @ 6222'. Sq DK perms w/50 sx cl "G" cmt. This will fill inside the pipe from 6222' to 6452' w/100% excess cmt. Sting out of ret and spot 5 sx cmt on top of cmt ret @ 6200'. 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 @ 5750'. Run CBL from 5750' to top of cmt and from DV tool @ 4603' to top of cmt. **Do not pressure csg above 300 psi.**
5. Perf Tocito w/2 spf from 5654'-82'. Total 56 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 402 bbis.
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 @ 5550'. Prepare to frac.
8. W/300 psi on annulus, breakdown Tocito perms 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	<u>(1,350)</u>	<u>(405)</u>	<u>0</u>
Totals	55,000	16,500	100,000#

HUERANO UNIT #227 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)

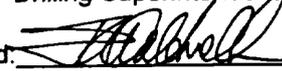
All acid on this well to contain the following additives per 1000 gal:

- 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 5750' 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 5750'-5500'.
12. TIH w/2-3/8" 4.7# J-55 EUE tbg w/standard seating nipple one joint off bottom and again cleanout to 5750'. When wellbore is sufficiently clean, land tbg @ 5700' KB. **Take final water and gas rates.**
13. ND BOP and NU wellhead and tree. Rig down and release rig.

Recommended: 
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