

1. Type of Well  
GAS

**BURLINGTON  
RESOURCES**

**OIL & GAS COMPANY**

PO Box 4289, Farmington, NM 87499 (505) 326-9700

790' FNL, 1770' FWL, Sec.10, T-27-N, R-5-W, NMPM

6. If Indian, All. or  
Tribe Name

**7. Unit Agreement Name**

San Juan 27-5 Unit  
8. Well Name & Number  
San Juan 27-5 U #113E

9. API Well No.  
30-039-22638

10. **Field and Pool**  
Blanco MV/Basin DK

11. **County and State**  
Rio Arriba Co, NM

### Type of Action

## Abandonment

## Change of Plans

### Subsequent Report

## Recompletion

           New Construction

## Final Abandonment

## Plugging Back

Non-Routine Fracturing

## Final Abandonment

## Casing Repair

Water Shut off

Altering Casing

### Conversion to Injection

X Other - Commingle

It is intended to commingle the subject well according to the attached procedure.  
A down hole commingle application will be submitted.



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

Signed *[Signature]* (MR9) Title Regulatory Supervisor Date 1/28/02

(This space for Federal or State Office use)

APPROVED BY W. M. Lewis Title Petr. Eng. Date 11/31/02

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**NMOC**

San Juan 27-5 Unit 113E  
Mesa Verde/Dakota  
AIN: 5341201 and 5341202  
790' FNL & 1770' FWL  
Unit C, Sec. 10, T27N, R05W  
Latitude / Longitude: 36° 35.574' / 107° 20.928'

Recommended Commingle Procedure

**Project Summary:** The San Juan 27-5 Unit 113E is a dual Mesa Verde/Dakota well drilled in 1982. The three-month average for the Mesa Verde is 48 MCFD and has a cumulative production of 994 MMCF. The Dakota is producing 72 MCFD and has a cumulative production of 905 MMCF. We plan to commingle this well, using the 2-3/8" tubing, install production equipment and install a plunger lift in order to keep the well unloaded. This well was pulled in 1995 for a tubing repair. Estimated uplift is 75 MCFD for the Mesa Verde and 125 MCFD for the Dakota.

1. Comply with all NMOCD, BLM and Burlington safety and environmental regulations. Test rig anchors and build blow pit prior to moving in rig. Notify BROG Regulatory (Peggy Bradfield 326-9727) and the appropriate Regulatory Agency prior to pumping any cement job. If an unplanned cement job is required, approval is required before the job can be pumped. If verbal approval is obtained, document approval in DIMS. Allow as much time as possible prior to pump time in case the Agency decides to witness the cement job.
2. MOL and RU workover rig. Conduct safety meeting for all personnel on location. NU relief line. Blow down well and kill with 2% KCl water as necessary. ND wellhead and NU BOP. Test and record operation of BOP rams. Have wellhead and valves serviced at machine shop to convert to a single string wellhead (2-3/8"). Test secondary seal and replace/install as necessary.
3. Set a plug with wireline in the SN (model "F" at 7817') on the Dakota tubing. Pick up 1-1/2" tubing and RIH to the top of the Model D packer to determine if any fill is present. If fill is present, TOH w/tubing, laying down perf'd orange peeled jt. TIH w/ 1-1/2" tubing and circulate any fill off the packer. TOOH laying down the 1-1/2", 2.9#, J-55 Mesa Verde tubing (set at 6061').
4. Release seal assembly from the Model D Packer with straight pickup (no rotation required). If seal assembly will not come free, then cut 2-3/8" tubing above the packer and fish with overshot and jars. TOOH with 2-3/8", 4.7#, J-55 Dakota tubing (set at 7850').
5. PU 2-3/8", 4.7#, J-55 tubing and TIH with Model CK packer retrieval spear (PRS, with holes drilled near rotary shoe), rotary shoe, drain sub, top bushing, bumper sub, jars, and 4-6 drill collars. Mill out Model D packer at 6109' with air/mist. Note: when using air/mist, the minimum mist rate is 12 bph. Try to maintain air rate at 1,400 cfm. A hydrocarbon stable foamer should be utilized since this well makes significant amounts of condensate. After milling over the packer slips, POOH with tools and packer body.
6. TIH with 3-7/8" bit and watermelon mill on 2-3/8" tubing. Cleanout to PBTD at +/- 7911' with air/mist. . PU above the perforations and flow the well naturally, making short trips for clean up when necessary. TOOH with tubing.

7. TIH with expendable check on bottom, seating nipple, one joint 2-3/8", 2' x 2-3/8" pup joint, then half of the 2-3/8" tubing. Run a broach on sandline to ensure the tubing is clear. TIH with remaining 2-3/8" tubing and then broach this tubing. Replace bad joints as necessary. CO to PBSD with air/mist using a minimum mist rate of 12 bph. Alternate blow and flow periods at PBSD to check water and sand production rates.
8. Land tubing at approximately 7850'. ND BOP and NU single string wellhead. Pump off expendable check and blow well in. Obtain final pitot gauge up tubing. Connect to casing and circulate air to assure that the expendable check has pumped off. If well will not flow on its own, make swab run to seating nipple. During cleanout operations the reservoir may be charged with air. As a result of excess oxygen levels that may be in the reservoir and/or wellbore, contact the Lease Operator to discuss the need for determining oxygen levels prior to returning the well to production. RD and MOL. Return well to production.
9. Production Operations will install plunger lift.

Recommended: Matt Roberts 01/28/02  
Operations Engineer

Approval: Bruce W. Boyer 1-28-02  
Drilling Manager

Contacts: Operations Engineer

Matt Roberts  
599-4098 (Office)  
320-2739 (Cell)

Sundry Required: YES/NO

Approved:

Gregory Cole 1-28-02  
Regulatory Approval

Production Foreman  
Specialist  
Lease Operator

Ken Johnson  
Garry Nelson  
Gerald Reeves

326-9819 (Office)  
320-2565 (Cell)  
320-9418 (Cell)

324-7676 (Pager)  
326-8597 (Pager)  
324-7273 (Pager)

MBR/slm

STATE OF NEW MEXICO  
ENERGY and MINERALS  
DEPARTMENT

## OIL CONSERVATION DIVISION

This form is not to  
be used for reporting  
packer leakage tests  
in Southeast New Mexico

## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

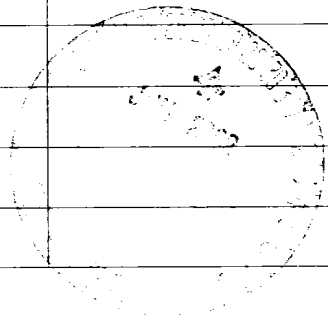
Operator BURLINGTON RESOURCES OIL & GAS CO. Lease SAN JUAN 27-5 UNIT Well No. 113ELocation of Well: Unit C Sect 10 Twp. 027N Rge. 005W County RIO ARRIBA

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (Oil or Gas)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	MESAVERDE	Gas	Flow	Tubing
Lower Completion	DAKOTA	Gas	Flow	Tubing

## PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in 05/23/2002	Length of time shut-in 168 Hours	SI press. psig 205	Stabilized? (Yes or No)
Lower Completion	05/23/2002	120 Hours	663	

## FLOW TEST NO. 1

Commenced at (hour,date)*		05/28/2002		Zone producing (Upper or Lower)		LOWER
TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP	REMARKS	
		Upper Completion	Lower Completion			
05/29/2002	144 Hours	208	155			
05/30/2002	168 Hours	210	155			

Production rate during test

Oil \_\_\_\_\_ BOPD based on \_\_\_\_\_ Bbls. in \_\_\_\_\_ Hours. \_\_\_\_\_ Grav. \_\_\_\_\_ GOR \_\_\_\_\_

Gas: \_\_\_\_\_ MCFPD; Tested thru (Orifice or Meter): \_\_\_\_\_

## MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Lower Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)

5341202 306

(Continue on reverse side)

## FLOW TEST NO. 2

Commenced at (hour, date)**			Zone producing (Upper or Lower):		
TIME (hour, date)	LAPSED TIME SINCE **	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		

Production rate during test

Oil: \_\_\_\_\_ BOPD based on \_\_\_\_\_ Bbls. in \_\_\_\_\_ Hours \_\_\_\_\_ Grav. \_\_\_\_\_ GOR \_\_\_\_\_

Gas: \_\_\_\_\_ MCFPD: Tested thru (Orifice or Meter): \_\_\_\_\_

Remarks: \_\_\_\_\_

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

Approved \_\_\_\_\_ 19 \_\_\_\_\_

New Mexico Oil Conservation Division

ORIGINAL SIGNED BY CHARLIE T. PIERSON

By \_\_\_\_\_

Title \_\_\_\_\_ DEPUTY OIL &amp; GAS INSPECTOR, DIST. #3

Operator \_\_\_\_\_ Burlington Resources

By \_\_\_\_\_

Title \_\_\_\_\_ Operations Associate

Date \_\_\_\_\_ Wednesday, June 26, 2002

## NORTHWEST NEWMEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.

2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.

3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.

4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to lack of a pipeline connection the flow period shall be three hours.

5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.

6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except

that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.

7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day tests: immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be requested on wells which have previously shown questionable test data.

24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).