

OIL CONSERVATION DIVISION

API # 30-039-06883

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Revised 10/01/78

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 27-4 UNIT				Well No.	35
Location of Well:	Unit	N	Sect	26	Twp.	027N	Rge.	004W	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	PICTURED CLIFFS						Gas		Flow		Tubing
Lower Completion	MESAVERDE						Gas		Flow		Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour. date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	05/11/2001	120 Hours	288	
Lower Completion	Hour. date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	05/11/2001	72 Hours	763	

FLOW TEST NO. 1

Commenced at (hour,date)*		05/14/2001		Zone producing (Upper or Lower)	LOWER
TIME	LAPSED TIME	PRESSURE		PROD. ZONE	
(hour,date)	SINCE*	Upper Completion	Lower Completion	TEMP	REMARKS
05/15/2001	96 Hours	289	165		
05/16/2001	120 Hours	289			



Production rate during test

Oil	BOPD based on	Bbls. in	Hours	Grav	GOR
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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)

5331901 31E

(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 AUG 24 2001 19 _____

New Mexico Oil Conservation Division

ORIGINAL SIGNED BY CHARLIE T. FERRIN

By _____

Title DEPUTY OIL & GAS INSPECTOR, DIST. #3Operator Burlington ResourcesBy *Delano Diaz*Title Operations AssociateDate Friday, July 20, 2001

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).

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

1090' FSL, 1550' FWL, Sec. 26, T-27-N, R-4-W, NMPM

5. Lease Number
NMSF-079527

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

San Juan 27-4 Unit

8. Well Name & Number
San Juan 27-4 U #35

9. API Well No.
30-039-06883

10. Field and Pool
Tapacito Pict Cliffs/
Blanco Mesaverde

11. County and State
Rio Arriba Co, NM

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

Type of Submission

Type of Action

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☐ Recompletion

☐ New Construction

☐ Final Abandonment

☐ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injection

☒ Other - Commingle

13. Describe Proposed or Completed Operations

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 *Jeffery Call* (MR9) Title Regulatory Supervisor Date 5/29/02
no

(This space for Federal or State Office use)

APPROVED BY */s/ Jim Lovato* Title _____ Date JUN -3 2001
CONDITION OF APPROVAL, if any:

San Juan 27-4 Unit 35
Mesa Verde/Pictured Cliffs
AIN: 5331901 and 5331902
1090' FSL & 1550' FWL
Unit N, Sec. 26, T27N, R04W
Latitude / Longitude: 36° 32.3886' / 107° 13.4196'

Recommended Commingle Procedure

Project Summary: The San Juan 27-4 Unit 35 is a dual Mesa Verde/Pictured Cliffs well drilled in 1964. The Mesa Verde is producing 8 MCFD and has a cumulative production of 429 MMCF. The Pictured Cliffs is producing 21 MCFD and has a cumulative production of 614 MMCF. We plan to commingle this well, replace the tubing with 2-3/8" tubing, install production equipment and install a plunger lift in order to keep the well unloaded. This well has not been pulled since originally drilled. Estimated uplift is 50 MCFD for the Mesa Verde and 75 MCFD for the Pictured Cliffs.

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 (6308") on the Mesa Verde tubing. Pick up 1-1/4" 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 jt with bullplug. TIH w/ 1-1/4" tubing and circulate any fill off the packer. TOOH laying down the 1-1/4", 2.3#, J-55 Pictured Cliffs tubing (set at 4091').
4. Release seal assembly from the Model D Packer with straight pickup (no rotation required). If seal assembly will not come free, then cut 1-1/2" tubing above the packer and fish with overshot and jars. TOOH with 1-1/2", 2.9#, J-55 Mesa Verde tubing (set at 6344').
5. PU new or yellow banded 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 4250' 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 +/- 6434' 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 an expendable check, a seating nipple, 1 jt 2-3/8", a 2' x 2-3/8" sub and 1/2 of the 2-3/8" production string. Run a broach on sandline to insure that the tubing is clear. TIH with remaining tubing and broach this tubing. Replace any bad joints. Land tubing at approximately 6280'. ND BOP and NU WH. Pump off expendable check. Connect to casing and circulate air to assure the expendable check has pumped off. Obtain pitot gauge up the tubing. If well will not flow on its own, make swab run to SN. During cleanout operations the reservoir may be charge 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.
8. Production Operations will install plunger lift.

Recommended:

Matt Roberts
Operations Engineer

Approval:

Bruce D. Bony 1-28-02
Drilling Manager

Contacts:

Operations Engineer

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

Sundry Required YES / NO

Approved:

Reggie Calk 5-29-02
Regulatory Approval

Production Foreman

Ward Arnold
326-9846 (Office)
326-8303 (Pager)

MBR/slm

OIL CONSERVATION DIVISION

API # 30-039-06883

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Revised 10/01/78

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator BURLINGTON RESOURCES OIL & GAS CO. Lease SAN JUAN 27-4 UNIT Well No. 35

Location

of Well: Unit N Sect 26 Twp. 027N Rge. 004W 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	PICTURED CLIFFS	Gas	Flow	Tubing
Lower Completion	MESAVERDE	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in 06/13/2002	Length of time shut-in 192 Hours	SI press. psig 342	Stabilized? (Yes or No)
Lower Completion	06/13/2002	144 Hours	514	

FLOW TEST NO. 1

Commenced at (hour,date)*		06/19/2002		Zone producing (Upper or Lower)	
TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE	REMARKS
		Upper Completion	Lower Completion	TEMP	
06/20/2002	168 Hours	342	514		
06/21/2002	192 Hours	342	196		lower zone on @ 10:42a.m.
					upper zone on @ 1:00 p.m.

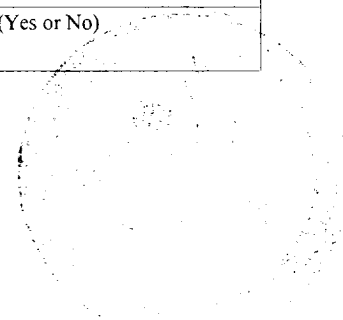
Production rate during test

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)
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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

By Charlie Therman

DEPUTY OIL & GAS INSPECTOR, BUREAU OF

Title _____

Operator Burlington ResourcesBy Delano DiazTitle Operations AssociateDate Monday, July 01, 2002

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