

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Sundry Notices and Reports on Wells

2006 APR 20 PM 1 30

RECEIVED
070 FARMINGTON NM 5.1. Type of Well
GAS5. Lease Number
NMSF-078507
If Indian, All. or
Tribe Name

2. Name of Operator

BURLINGTON

RESOURCES OIL & GAS COMPANY LP

7. Unit Agreement Name

3. Address & Phone No. of Operator

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

8. San Juan 32-9 Unit
Well Name & Number

4. Location of Well, Footage, Sec., T, R, M

1650' FSL & 1650' FWL, Sec. 26, T32N, R10W, NMPM

9. SJ 32-9 Unit #28
API Well No.

30-045-11231

10. Field and Pool

Blanco Mesaverde

11. County and State
San Juan Co., NM**12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA**

Type of Submission

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment

Type of Action

☐ Abandonment☐ Recompletion☐ Plugging☒ Casing Repair☐ Altering Casing☐ Change of Plans☐ New Construction☐ Non-Routine Fracturing☐ Water Shut off☐ Conversion to Injection☐ Other -**13. Describe Proposed or Completed Operations**

Plans are to test the well for a casing leak, if found repair & test the casing and return the well to production per the attached procedure.

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct.Signed Patsy Clugston Patsy Clugston Title Sr. Regulatory Specialist Date 4/20/06

(This space for Federal or State Office use)

APPROVED BY Math Halberstam Title PETE ENGER Date 5-3-06

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.

NMOCD

San Juan 32-9 Unit 28 – Casing Squeeze
1650 FSL & 1650 FWL
K-26-32N-10W
San Juan County, NM
LAT: N36 57.241 LONG: W107 51.334
AIN: 6987201 API #: 30045112310000

GL: 6960'
KB: 6971'
PBSD: 6215'

DEMAND DATE: Work must be completed by 5/13/06.

1. Hold safety meeting. Comply with all NMOCD, BLM and Burlington safety and environmental regulations. Test rig anchors and build blow pit prior to moving in rig.
2. MIRU. Record tubing and casing pressures and report in DIMS. RU blow lines from casing valves and begin blowing down casing pressure. Kill well with 2% KCL if necessary. ND wellhead and NU BOP.
3. TOOH with tubing (detail below).
(201) Jts of 2-3/8", 4.7#, J-55 tbg
(1) 2-3/8" OD SN
(1) Jt of 2-3/8", 4.7#, J-55
4. Visually inspect tubing, record findings in DIMS, make note of corrosion, scale, and/or holes. Replace any bad joints of tubing as necessary and record in DIMS.
5. MU 4-3/4" string mill for 5-1/2", 15.5# casing and TIH to 5660' (29' above top perf). TOOH and lay down string mill.
6. PU CIBP for 5-1/2" 15.5# casing, and TIH on tubing. Set CIBP at 5639' (max 50' above top perf) top perf @ 5689'. Load 5-1/2" casing with water and attempt to pressure test 5-1/2" casing to 500 psi for 30 minutes (**Record MIT test**).
7. While testing CIBP, test wellhead seals and replace seals as necessary.
8. TOOH with tubing.
9. Run CBL from 5600' to 3000'. Report cement tops to project engineer and Sr. Rig Supervisor.
10. If CIBP and 5-1/2" casing pass pressure test, then proceed to step 12.
11. If CIBP and/or 5-1/2" casing do not pass pressure test then begin leak isolation and contact Sr. Rig Supervisor and project engineer for further instruction.
12. TIH with perforating guns and perforate 1 squeeze hole at the top of cement based on the CBL.
13. TOOH with perforating guns.
14. TIH with cement retainer and set cement retainer at 50' above the squeeze hole.
15. Squeeze perforated hole with 113 sx of cement (confirm with project engineer based on TOC, prior to squeeze). Sting out of cement retainer and reverse cement out of to the top of the retainer. WOC.

16. TIH with 4-3/4" bit and drill out cement and cement retainer to 5000', but do not drill out CIBP.
17. TOOH with bit.
18. Run CBL and log interval from 5600' to 3000' and determine TOC.
19. If the TOC is at least 150 above the 7" casing shoe (7" casing shoe @ 3820') then proceed to step 21.
20. If the TOC is not at least 150' above the 7" casing shoe, then contact Sr. Rig Supervisor and project engineer for further squeeze instruction.
21. Tie onto 7" casing valve and pressure test intermediate casing to 500 psi for 30 minutes.
22. If intermediate casing passes pressure test then proceed to step 24.
23. If intermediate casing fails pressure test then contact Sr. Rig Supervisor and project engineer for further instruction.
24. Pressure test the squeeze job inside the 5-1/2" casing to 500 psi for 30 minutes. If squeeze holds pressure, proceed to step 26.
25. If squeeze does not pressure test, then contact project engineer and Sr. Rig supervisor for further squeeze instruction.
26. TIH with 4-3/4" bit and drill out CIBP.
27. PU air package and clean out fill to PBTD @ 6215'.
28. TIH with production tubing (detail below):
 - (1) 2-3/8" saw tooth
 - (1) Aluminum Pump Out Plug (Inside SN)
 - (1) 2-3/8" OD SN (1.78" ID)
 - (1) Jt of 2-3/8", 4.7#, J-55 tubing
 - (1) 2-3/8" x 2' Marker Joint
 - ~(195) Jts of 2-3/8", 4.7#, J-55 tubing

Land Tubing @ 6175'
SN @ 6174'

NOTE: Use pup joints as necessary to obtain the proper landing depth.

29. ND BOP. NU wellhead. Make swab run if necessary, to kick off well. Notify lease operator that the well is ready to be returned to production. RDMO.

Recommended: _____

Base Asset Engineer
David Gonzales
Office: 326-9708
Cell: 486-4899

Jim Peace – Specialist
Pager: 326-8548
Mobile: 320-0210

Approved: _____

Sr. Rig Supervisor
Lyle Ehrlich
Office: 599-4002
Cell: 320-2613

Carlos Florez – Operator
Mobile: 320-5035
Pager: 324-4346

Bureau of Land Management Conditions of Approval:

- 1) If cement squeeze work is necessary, contact Matt Halbert of the BLM Farmington Field Office @ (505) 599-6350.**
- 2) Pits must be lined with an impervious material at least 12 mils thick. The pit must be fenced on three (3) sides during workover operations and on the 4th side after the rig moves off location. Pits must be closed within 90 days of completion of the workover operations. Prior to closing the pit the liner must be cut off at mud level.**

BLM CONDITIONS OF APPROVAL FOR RECOMPLETION

The following conditions of approval will apply to this well unless a particular Surface Managing Agency or private surface owner has supplied to BLM and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity.

An agreement between operator and fee land owner will take precedence over BLM surface stipulations unless (In reference to 43 CFR Part 3160) 1) BLM determines that the operator's actions will affect adjacent Federal or Indian surface, or 2) the operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimal Federal restoration requirements will be required.

Special Stipulations:

** The operator and his contractor will contact the BLM Farmington Field Office, Environmental Protection Staff (Bill Liess) to set up a pre-work meeting on any rehab or seeding done on this location at (505) 599-6321, approximately 48 hours **prior to any work being done.**

**** Reserve pits will be closed and rehabed 90 days after recompletion. All pits used in recompletion remaining open after the 90 days will need written authorization from the Authorized Officer. This requirement is addressed in the General Requirements of Onshore Order # 7.**

** Pits will be lined with an impervious material at least 12 mils thick. Prior to closing the pit, the liner will be cut off at mud level. The excess liner will be hauled to a licensed disposal area.

** Diversion ditch(es) will be reconstructed if damaged by recompletion work.

** If the cut and fill slopes of the well pad are used or damaged by completion work then the cut and fill slopes will be brought back to the original contour of the location before work was accomplished.

** All above ground structures shall be painted to blend with the natural color of the landscape and will remain the same color as was previously stipulated in the APD

** All disturbance will be seeded after the pit is closed with the appropriate seed mixture.

SEED MIX : SPECIAL: > 10 inches of precipitation

Fourwing Saltbush (<i>Atriplex canescens</i>).....	1.0 lbs.
Indian Ricegrass (<i>Oryzopsis hymenoides</i>).....	1.0 lbs.
Western Wheatgrass (<i>Agropyron smithii</i>).....	2.0 lbs.
Blue Grama (Hatcheta or Alma).....	0.25 lbs.

Small Burnet (Delar)	1.0 lbs.
Pubescent Wheatgrass	2.0 lbs.
Intermediate Wheatgrass	2.0 lbs.
Smooth Brome	2.0 lbs.
Antelope Bitterbrush	0.10 lbs.

I. LOCATION, ACCESS ROAD AND PIPELINE

1. Well area and lease premises will be maintained in a workmanlike manner with due regard to safety, conservation and appearance. All liquid waste, completion fluids and drilling products associated with oil and gas operations will be contained and then buried in place, or removed and deposited in an approved disposal site.

2. Surface disturbance and vehicular traffic will be limited to the approved location and approved access road.

3. Mud and blow pits will be constructed so as not to leak, break or allow discharge of liquids or produced solids. At least half of the capacity of the reserve pit must be in cut. The top of the outside wall of reserve pit should be smoothed-off with a minimum of one blade width. The pit should have adequate capacity to maintain 2 feet of free board. Pits are not to be located in natural drainages. Pit walls are to be "walked down" by a crawler type tractor following construction and prior to usage. Any plastic material used to line pits must be removed to below-ground level before pits are covered. The final grade of reserve pit (after reclamation) shall allow for drainage away from pit area.

4. All unguarded pits (reserve/production/blow pits) containing liquids will be fenced with woven wire. Drilling pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced. All fencing must be a legal fence in accordance with New Mexico State Law. Liquids in pits will be allowed to evaporate, or be properly disposed of, before pits are filled and recontoured. (This office will be notified 24 hours prior to fluid hauling). Under no circumstances will pits be cut and drained. Aeration of pit fluids must be confined within pit area. Upon completion of the well the reserve pit will be covered with screening or netting and remained covered until the pit is reclaimed. All production pits 16 feet in diameter or larger will be covered with screening or netting.

5. No gravel or other related minerals from new or existing pits on federal land will be used in construction of roads, well sites, etc., without prior approval from the Surface Managing Agency.

6. Berms or firewalls will be constructed around all storage facilities sufficient in size to contain the storage capacity of tanks, or the combined capacity of tanks if a rupture could drain more than one tank. Berm walls will be compacted with appropriate equipment to assure proper construction.

7. All roads on public land must be maintained in good passable condition.

8. The holder shall conduct all activities associated with the construction, operation, and termination of the right-of-way within the authorized limits of the right-of-way.

9. A copy of these stipulations, including exhibits and the Plan(s) of Operation (if required), shall be at the project area and available to persons directing equipment operation.

10. Disposal of all liquid and solid waste produced during operation of this right-of-way shall be in an approved manner so it will not impact the air, soil, water, vegetation or animals.

11. The holder shall not violate applicable air and water quality standards or related facility siting standards established by or pursuant to applicable Federal and State law.

12. Use of pesticides and herbicides shall comply with applicable federal/state laws. Pesticides and herbicides shall be used only in accordance with their registered uses and within limitations imposed by the Secretary of the Interior. Prior to the use of pesticides, holder shall obtain from the AO written approval of a plan showing the type and quantity of material to be used, pest(s) to be controlled, method of application, location of storage and disposal of containers, and any other information deemed necessary. Emergency use of pesticides shall be approved in writing by the AO prior to use.

13. The holder shall be responsible for weed control and selective control of invasive weeds on disturbed and reclaimed areas within the limits of the well pad, associated road and pipeline ROW. The holder is responsible for consultation with the AO and/or local authorities for acceptable weed control methods within limits imposed in the conditions of approval.

14. The holder shall minimize disturbance to existing fences and other improvements on public land. Holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be H-braced on both sides of the passageway prior to cutting the fence.

15. Construction sites shall be maintained in a sanitary condition at all times; waste materials at those sites shall be disposed of promptly at an appropriate waste disposal site. **Waste** means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, petroleum products, ashes and equipment.

16. The holder shall maintain the ROW in a safe, useable condition, as directed by the AO. (A regular maintenance program shall include, but is not limited to, soil stabilization.)

17. Unless otherwise approved in writing by the AO, this road will be designed and constructed to conform with the BLM, NM road construction/maintenance policy.

18. Public access along this road will not be restricted by the holder without specific written approval being granted by the AO. Gates or cattleguards on the public land will not be locked or closed to public use unless specifically determined by the AO.

19. Unless otherwise approved in writing by the AO, drainage dip location for grades over two (2) percent shall be determined by the formula:

$$\text{Spacing Interval} = \frac{400}{\text{road slope \%}} + 100'$$

Example: For a road with a four (4) percent slope.
Spacing Interval = $\frac{400}{4\%} + 100' = 200$ feet

20. Unless otherwise approved in writing by the AO, all turnout ditches shall be graded to drain water with a one (1) percent minimum to three (3) percent maximum ditch slope. The spacing interval for turnout ditches shall be determined according to the following table, but may be amended depending upon existing soil types and centerline road grade:

SPACING INTERVAL FOR TURNOUT DITCHES

<u>Percent Slope</u>	<u>Spacing Interval</u>
0 - 4%	150 - 350 feet
4 - 6%	125 - 250 feet
6 - 8%	100 - 200 feet
8 - 10%	75 - 150 feet

21. Maintain the road so that user traffic remains within right-of-way and erosion is mitigated. Roads and road segments where serious erosional damage is occurring will be handled on a case-by-case basis. "Flat blading" will be avoided. A exemption would be permitted where bedrock is exposed at the surface. Roads will be maintained so that over time a proper road prism and good drainage is achieved. Maintenance will include drainage dips, turnout ditches, crowning and/or out-sloping/in-sloping, low water crossings and vehicle turnouts. Cattleguards and culverts will be cleaned and repaired or replaced. Surfacing may be required.

22. Failure of the holder to share maintenance costs in dollars, equipment, materials or man-power proportionate to the holder's use with other authorized users may be adequate grounds to terminate right-of-way grant. The determination as to whether this has occurred and the decision to terminate shall rest with the AO. Upon request, the AO shall be provided with copies of any maintenance agreement entered into.

II. CULTURAL RESOURCES (ARCHAEOLOGY)

1. Discovery of Cultural Resources in the Absence of Monitoring: If, in its operations, operator/holder discovers any previously unidentified historic or prehistoric cultural resources, then work in the vicinity of the discovery will be suspended and the discovery promptly reported to BLM Field Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, BLM will evaluate the significance of discovery and consult with the State Historic Preservation Officer in accordance with 36 CFR Section 800.11. Minor recordation, stabilization, or data recovery may be performed by BLM or a permitted cultural resources consultant. If warranted, more extensive treatment by a permitted cultural resources consultant may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is completed. Failure to notify BLM about a discovery may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act of 1979 (as amended).

2. Discovery of Cultural Resources During Monitoring: If monitoring confirms the presence of previously unidentified cultural resources, then work in the vicinity of the discovery

will be suspended and the monitor will promptly report the discovery to the BLM Field Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the BLM will evaluate the significance of the discovery and consult with the State Historic Preservation Officer in accordance with 36 CFR Section 800.11. Minor recordation, stabilization, or data recovery may be performed by BLM or a permitted cultural resources consultant. If warranted, more extensive treatment by a permitted cultural resources consultant may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is completed.

3. **Damage to Sites:** If, in its operations, operator/holder damages, or is found to have damaged any previously documented or undocumented historic or prehistoric cultural resources, excluding "discoveries" as noted above, the operator/holder agrees at his/her expense to have a permitted cultural resources consultant prepare and have executed a BLM approved data recovery plan. Damage to cultural resources may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act of 1979 (as amended).

III. **RESEEDING AND ABANDONMENT**

Species shall be planted in pounds of pure live seed per acre:

Present Pure Live Seed (PLS) = Purity X Germination/100

Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality)

Purity	50 percent
Germination	40 percent
Percent PLS	20 percent

***5 lb. bulk seed required to
make 1 lb. PLS.***

Source No. two (better quality)

Purity	80 percent
Germination	63 percent
Percent PLS	50 percent

***2 lb. bulk seed required to
make 1 lb. PLS.***

Seed mixture used must be *certified*. There shall be NO primary or secondary noxious weeds in seed mixture. Seed labels from each bag shall be available for inspection while seed is being sown.

Seeding shall be accomplished between July 1 and September 15 (later date may be extended on a case-by-case basis with AO approval). Seeding shall be repeated if a satisfactory stand is not obtained as determined by the AO upon evaluation after the second growing season.

Compacted areas shall be ripped to a depth of 12" and disked to a depth of six inches before seeding. Seed with a disk-type drill with two boxes for various seed sizes. The drill rows shall be eight to ten inches apart. Seed shall be planted at not less than one-half inch deep or more than one inch deep. The seeder shall be followed with a drag, packer, or roller to ensure uniform coverage of the seed, and adequate compaction. Drilling shall be done on the contour where possible, not up and down the slope.

Where slopes are too steep for contour drilling a "cyclone" hand seeder or similar broadcast seeder shall be used. Seed shall then be covered to the depth described above by whatever

means is practical, i.e. hand raked. If the seed is not covered, the prescribed seed mixture amount (pounds/acre/PLS) will be doubled.

If, upon abandonment of wells, the retention of access road is not considered necessary for the management and multiple use of the natural resources, it will be ripped a minimum of 12" in depth. After ripping, water bars will be installed. All ripped surfaces are to be protected from vehicular travel by construction of a dead end ditch and earthen barricade at the entrance to these ripped areas. (Reseeding of affected areas may be required.)

ABANDONMENT: Ninety days prior to termination of the ROW, the holder shall contact the AO to arrange a joint inspection of the ROW. This inspection will be held to agree to an acceptable termination (and rehabilitation) plan. This plan shall include, but is not limited to, removal of facilities, drainage structures, or surfacing material, recontouring, topsoiling or seeding. The AO must approve the plan in writing prior to the holder's commencement of any termination actions.