

**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 LP

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

4. **Location of Well, Footage, Sec., T, R, M**
Sec., T—N, R—W, NMPM

Unit B (NWNE), 830' FNL & 1775' FEL, Sec. 29, T32N, R10W NMPM

5. **Lease Number**
SF 0786045
If Indian, All. or
Tribe Name

RECEIVED
070 FARMINGTON, NM
Unit Agreement Name

8. **Well Name & Number**

9. **Cedar Hill SWD #/
API Well No.**

30-045-26909
10. **Field and Pool**

11. **Morrison Bluff Entrada
County and State**
San Juan, NM

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

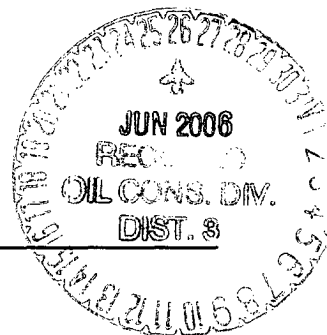
Type of Submission:

- ☒ 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

Burlington Resources plans to plug back the Morrison, Bluff & Entrada completion, and recomplete the Dakota formation according to the attached procedure & wellbore diagram. This well will no longer be a SWD, it will be a Dakota only producer.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

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

Signed Philana Thompson Title Regulatory Analyst Date 6/20/06

(This space for Federal or State Office use)

APPROVED BY Math Habbert Title PETR ENGR Date 6-23-06

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.

HOLD C-102 FOR C-102 For Basin Dakota Pool

NMOCD

8

Cedar Hill SWD #1 Sundry Procedure
Unit B, Section 29, T32N, R10W

1. MIRU completion rig.
2. Set plug in X profile nipple at 7687'. Bleed off tubing to ensure plug holding.
3. Pull seal assembly out of Otis WB packer set at 7666.
4. Pressure test casing to 500 psi for 15 minutes.
5. Lay 100' cement plug on top of the plug in X nipple at 7687'. Cement with 25sxs Type III cement (yield 1.38cuft/sk, 14.5ppg). TOC @ 7587'. TOOH with tubing.
6. Perforate and fracture stimulate the Dakota formation.
7. Flow back well. Clean out as required to new PBTD.
8. Trip in hole with tubing and land as a Dakota producer.
9. RDMO rig. Return well to production.

Cedar Hill SWD #1
830' FNL, 1775' FEL
32N-10W-29-B
San Juan, NM

GL = 6,071'

KB = 6,059'

Current Wellbore

Surface Casing:

20" 133# K-55
Cement: 875 sx TOC @ Surf
Set @ 504'

Intermediate Casing:

13-3/8" 61/68# K-55
Set @ 3,110'
DVT @ 1,216'
Cmt 1st stg 1450 sx TOC Surf
Cmt 2nd stg 900 sx TOC 1263' @ 75%

Intermediate Liner:

9-5/8" 40# N-80
Cement: 860 sx TOC @ 5200' CBL
Set @ 2954' - 5770'

Production Casing:

7" 23# N-80
Cement: 2732 sx TOC @ 4280' CBL
Set @ 8,775'

Current Tubing:

3-1/2" 9.3# N-80
Set @ 7687
Top SN @ 7665
Otis WB Packer @ 7666', 20,000# compression
Bottom SN @ 7687

Ojo Alamo	1,380'
Kirtland	1,483'
Fruitland Coal	2,467'
Pictured Cliffs	2,853'
Lewis	3,022'
Mesa Verde	4,400'
Menefee	4,779'
Point Lookout	5,135'
Mancos	5,580'
Gallup	6,473'
Greenhorn	7,186'
Graneros	7,243'
Dakota	7,322'
Morrison	7,576'
Bluff	8,140'
Entrada	8,428'

9-5/8" shoe squeeze with 200sxs then perf'd 2 sqz holes at 5765'. Sqzd with 200sxs. TOC @ 5200'.

2 sqz perms shot at 7220'. Squeezed with 825sxs. TOC @ 4280'.

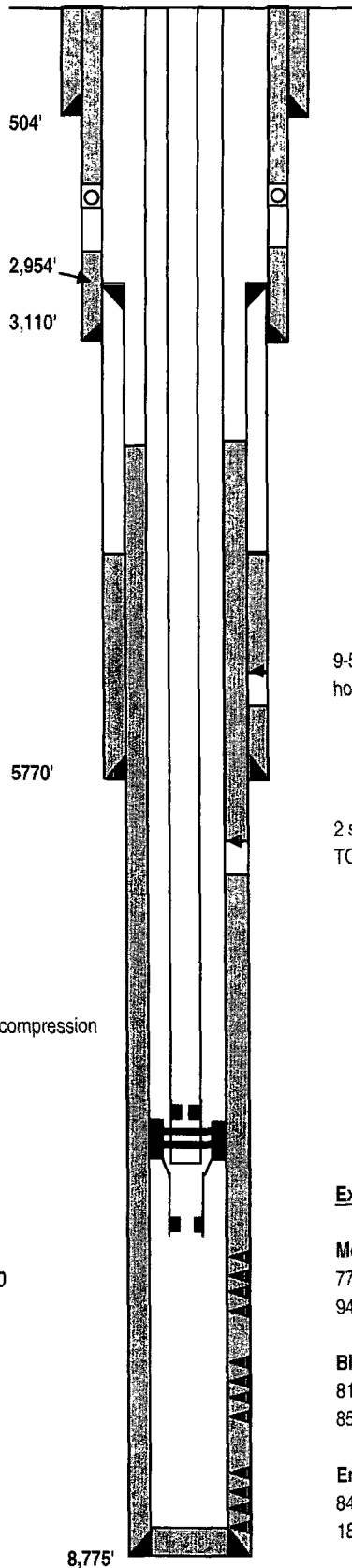
Existing Completion

Morrison:
7707' - 8088'
94k# 20/40 sd. 88.5k gal 40# gel

Bluff:
8165' - 8310'
85k# 20/40 sd. 76k gal 40# gel

Entrada:
8440' - 8654'
180k# 20/40 sd. 145k gal 40# gel

Refrac'd total completion interval in 1991 with 260k# 20/40 sd, 60.3k gal 35# xlink.



PBTD= 8,701'

TD= 8,775'

Cedar Hill #2
830' FNL, 1775' FEL
32N-10W-29-B
San Juan, NM

GL = 6,071'

KB = 6,059'

Proposed Wellbore

Surface Casing:

20" 133# K-55
Cement: 875 sx TOC @ Surf
Set @ 504'

Intermediate Casing:

13-3/8" 61/68# K-55
Set @ 3,110'
DVT @ 1,216'
Cmt 1st stg 1450 sx TOC Surf
Cmt 2nd stg 900 sx TOC 1263' @ 75%

Intermediate Liner:

9-5/8" 40# N-80
Cement: 860 sx TOC @ 5200' CBL
Set @ 2954' - 5770'

Production Casing:

7" 23# N-80
Cement: 2732 sx TOC @ 4280' CBL
Set @ 8,775'

Proposed Tubing:

2-3/8" 4.7# J-55
Set @ TBD
Top SN @ 7665

P&A'd disposal formations by setting a plug in the 3-1/2" nipple at 7687' and laying a 100' plug of cement on top. 25 sxs Type III cement. TOC @ 7587'.

Refrac'd total completion interval in 1991 with 260k# 20/40 sd, 60.3k gal 35# xlink.

Ojo Alamo	1,380'
Kirtland	1,483'
Fruitland Coal	2,467'
Pictured Cliffs	2,853'
Lewis	3,022'
Mesa Verde	4,400'
Menefee	4,779'
Point Lookout	5,135'
Mancos	5,580'
Gallup	6,473'
Greenhorn	7,186'
Graneros	7,243'
Dakota	7,322'
Morrison	7,576'
Bluff	8,140'
Entrada	8,428'

9-5/8" shoe squeeze with 200sxs then perf'd 2 sqz holes at 5765'. Sqzd with 200sxs. TOC @ 5200'.

2 sqz perms shot at 7220'. Squeezed with 825sxs. TOC @ 4280'.

Proposed Completion

Proposed Dakota:

TBD
40k# 20/40 TLC in slickwater

P&A'd Completion

Morrison:

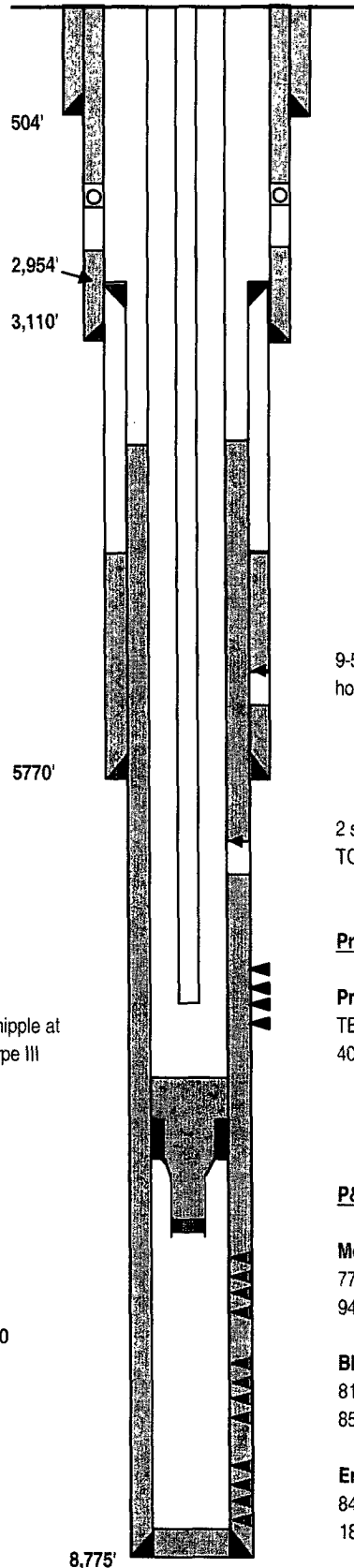
7707' - 8088'
94k# 20/40 sd, 88.5k gal 40# gel

Bluff:

8165' - 8310'
85k# 20/40 sd, 76k gal 40# gel

Entrada:

8440' - 8654'
180k# 20/40 sd, 145k gal 40# gel



8,775'

PBTD= 8,701'

TD= 8,775'

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.