

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

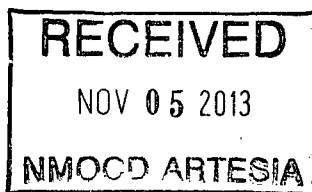
FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**5. Lease Serial No.  
NMNM0554499  
6. If Indian, Allottee or Tribe Name  
7. If Unit or CA/Agreement, Name and/or No.1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.  
ROSS DRAW UNIT 282. Name of Operator  
RKI EXPLORATION & PROD LLCContact: JODY NOERDLINGER  
E-Mail: jnoerdlinger@rkixp.com9. API Well No.  
30-015-358653a. Address  
210 PARK AVE SUITE 900  
OKLAHOMA CITY, OK 731023b. Phone No. (include area code)  
Ph: 405-996-5774  
Fx: 405-996-577210. Field and Pool, or Exploratory  
ROSS DRAW, DELAWARE EAST4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 26 T26S R30E SESW 660FSL 1980FWL  
32.00769 N Lat, 103.85368 W Lon11. County or Parish, and State  
EDDY COUNTY, NM

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Drilling Operations
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

RKI Exploration and Production is proposing to plug and abandon the subject well, as detailed in the attached Plugging and Abandonment Procedures. Also attached is the current wellbore schematic.

RECLAMATION PROCEDURE  
ATTACHEDAccepted for record  
NMOCDSEE ATTACHED FOR  
CONDITIONS OF APPROVAL

JRD 11/6/13

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

Name (Printed/Typed) JODY NOERDLINGER

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 10/03/2013

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>James R. Ames</u>	Title <u>SEPS</u>	Date <u>11-3-13</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Carlsbad <u>CFD</u>

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# RKI Exploration & Production, LLC

## Ross Draw Unit #28

### Plug and Abandonment Procedure

Ross Draw- Delaware Field

Section 26-T26S-R30E  
Eddy County, New Mexico

API # 30-015-35865  
Property No. 253500

**Spud Date:** 11/03/07  
**Comp Date:** 5/21/08

**Producing Formation:** Delaware 5,964'-6,010'

**KB Elev:** 3,018'  
**GL Elev:** 3,006'

**TD:** 6,900'  
**PBTD:** 6,855'

**Marker Joint:** DV Tool @ 5,291' per report

#### CASING SUMMARY:

Safety Factor = 80% of new applied to burst, collapse and tension parameters in table.

Size	Depth (ft)	Weight (#/ft)	Grade psi	Connection Type	Capacity (bbls/ft)	ID (in)	Drift (in)	Burst (psi)	Collapse (psi)	Tension (lbs)
13 3/8"	759'	48	H-40	STC	0.1497	12.715	12.559	1,385	616	257,000
8 5/8"	3,370'	24/32	J-55	LTC	0.0609	7.921	7.700	2,360	1,100	195,000
5 1/2"	6,900'	17	N-80	LTC	0.0233	4.892	4.767	6,190	5,025	278,400

Surface: 13 3/8" 48# H-40 STC: 0-759' - TOC @ surface  
Intermediate: 8 5/8" 24/32# J-55 STC: 0' - 3,370' - TOC @ surface  
Production: 5 1/2" 17# N-80 LTC: 0' - 6,900' - DV Tool @ 5,291'; TOC @ 4,446' per report

**COMPLETION HISTORY TO DATE:** Delaware (5,964'-6,010') perforated and fracture stimulated 6/09. Well on rod pump production.

**OBJECTIVE:** Plug and abandon the well.

**RKI REQUIRES THAT HARD HATS, STEEL TOE BOOTS, FIRE RETARDANT CLOTHING, AND SAFETY GLASSES BE WORN ON LOCATION**

**HOLD SAFETY MEETING PRIOR TO COMMENCING PERFORATING, WIRE LINE AND PUMPING OPERATIONS**

**NO IGNITION SOURCES WITHIN 100 FT OF THE WELLHEAD, FLOWBACK TANKS OR MANIFOLD.**

#### **PROCEDURE:**

- 1) Test safety anchors. SI flowline. Pressure test tubing to 400 psi using PU to pressure up tubing. Open flowline.
- 2) MI RU Service Unit. HO PU and unseat pump. **IF NECESSARY**, Hot oil tubing w/ 20 BO. ROH, LD rods/pump.
- 3) ND flange/tubinghead. NU BOP.

- 4) Release TA. TOH w/ tubing.
- 5) MI RU wireline. RIH w/ JB/GR to 5,525'. RIH and set CIBP @ 5,500'+/- **(NOTE: DO NOT SET CIBP IN CASING COLLAR)**.
- 6) TIH w/ tubing to CIBP. Tag plug and PU 10'.
- 7) MI RU Cementers. Circulate wellbore with 90 bbls heavy mud. Pump 35 sx Class C cmt (14.8 ppg/6.3 gps/1.32 yield) and flush with 30 bbls. heavy mud.
- 8) TOH w/ tubing, LD 900' (27 jts.) tubing.
- 9) Weld lift sub on casing. Pull free point on 5-1/2" casing. RIH and cut-off 5-1/2" @ est 4,600'. RD MO wireline.
- 10) MI RU casing crew/tongs. TOH and LD 5-1/2" casing.
- 11) TIH w/ tubing to casing stub. Pump 60 sx Class C cmt (14.8 ppg/6.3 gps/1.34 yield) and flush with 26 bbls. heavy mud.  
*50' inside stub. Spot 150' plug, WOC Tag*
- 12) TOH and LD 1,330' (40 jts.) tubing for EOT @ 3,470'. *3554'-3320', WOC Tag*
- 13) Pump 60 sx Class C cmt (14.8 ppg/6.3 gps/1.34 yield) and flush w/ 19 bbls. mud. SI well. WOCT. RIH and tag cmt plug.
- 14) TOH, LD 2,600' (79 jts.) tubing. *Spot plug from 2928'-2800', WOC Tag*
- 15) Pump 60 sx Class C (14.8 ppg/6.3 gps/1.32 yield) and flush w/ 3 1/2 bbls. mud.
- 16) POH w/ tubing to 64'. *Spot plug from 1030' - 700', WOC Tag*
- 17) Pump 20 sx Class C (14.8 ppg/6.3 gps/1.32 yield). LD tubing.
- 18) Cut off casing 3' below ground level. WO cap with operator, well name/number and date. Remove all equipment, pull safety anchors and clean up surface location.

**RKI Contact List:**

RKI	Title	Office	Cell
Brent Umberham	Manager-Drilg & Prod Ops	405-996-5748	405-623-5080
Ken Fairchild	Production Manager	405-996-5764	469-693-6051
Gene Thompson	Production Superintendent	575-885-1313	817-908-9219
Paul Munding	Production Engineer	405-987-2140	405-820-2825
Jaime McAlpine	Engineering Consultant	405-996-5741	405-850-6685

**Emergency Contacts – New Mexico:**

Hospital: Carlsbad Medical Center (575) 887-4100  
2430 W. Pierce St., Carlsbad, NM 88220

Sheriff's Office: Lea County Sheriff Dept (575) 396-3611  
Eddy County Sheriff Dept (575) 887-7551

**Emergency Contacts – Texas:**

Hospital: Reeves County Hospital (432) 447-3551  
2323 Texas St, Pecos TX 79772

Sheriff's Office: Reeves County Sheriff Dept (432) 445-4901  
Loving County Sheriff Dept (432) 377-2411

# RKI Exploration and Production, LLC

Ross Draw Unit 28  
Section 26 T26S R30E  
Eddy County, New Mexico  
API No. 30-015-35865

**PROPOSED**

KB - 3,018'

GL - 3,006'

9/26/13; JLM

*Surface plug @ 4'-64' w/ 20 sx cmt*

*Cmt plug 660'-860' w/ 60 sx cmt*

*Intermediate plug 3,270'-3,470'  
w/ 60 sx cmt*

*Cut off 5 1/2" @ 4,600' w/  
Stub plug 60 sx cmt*

*Set cmt plug 5,490'-5,200' w/ 35 sx cmt*

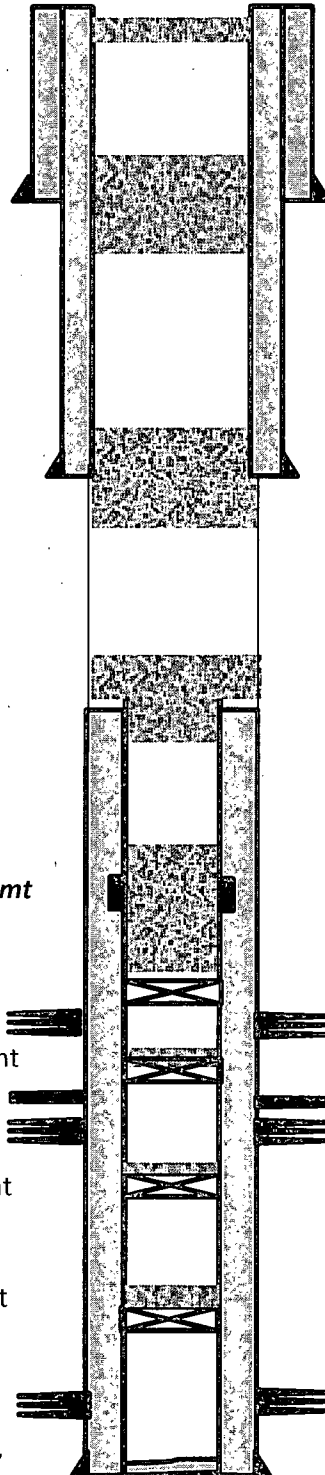
*Set CIBP @ 5,500'*

*CIBP @ 5,900' @ w/ 30' cmt*

*CIBP @ 6,065' +/- w/ 30' cmt*

*CIBP @ 6,406' w/ 2 sx cmt*

PBTD 6,855'  
TD 6,900'



13 3/8" 48# H40 8rd ST&C @ 759'

8 5/8" 24/32# J-55 ST&C @ 3,370'

TOC @ 4,666' per CBL

DV tool @ 5,291' per report

Delaware 5,540'-5,650' OA

Squeeze holes 5,948'-5,950'  
Getty 5,964'-6,010'

Pioneer 6,436'-6,456'

5 1/2" 17# N-80 LT&C @ 6,900'

# RKI Exploration and Production, LLC

Ross Draw Unit 28  
Section 26 T26S R30E  
Eddy County, New Mexico  
API No. 30-015-35865

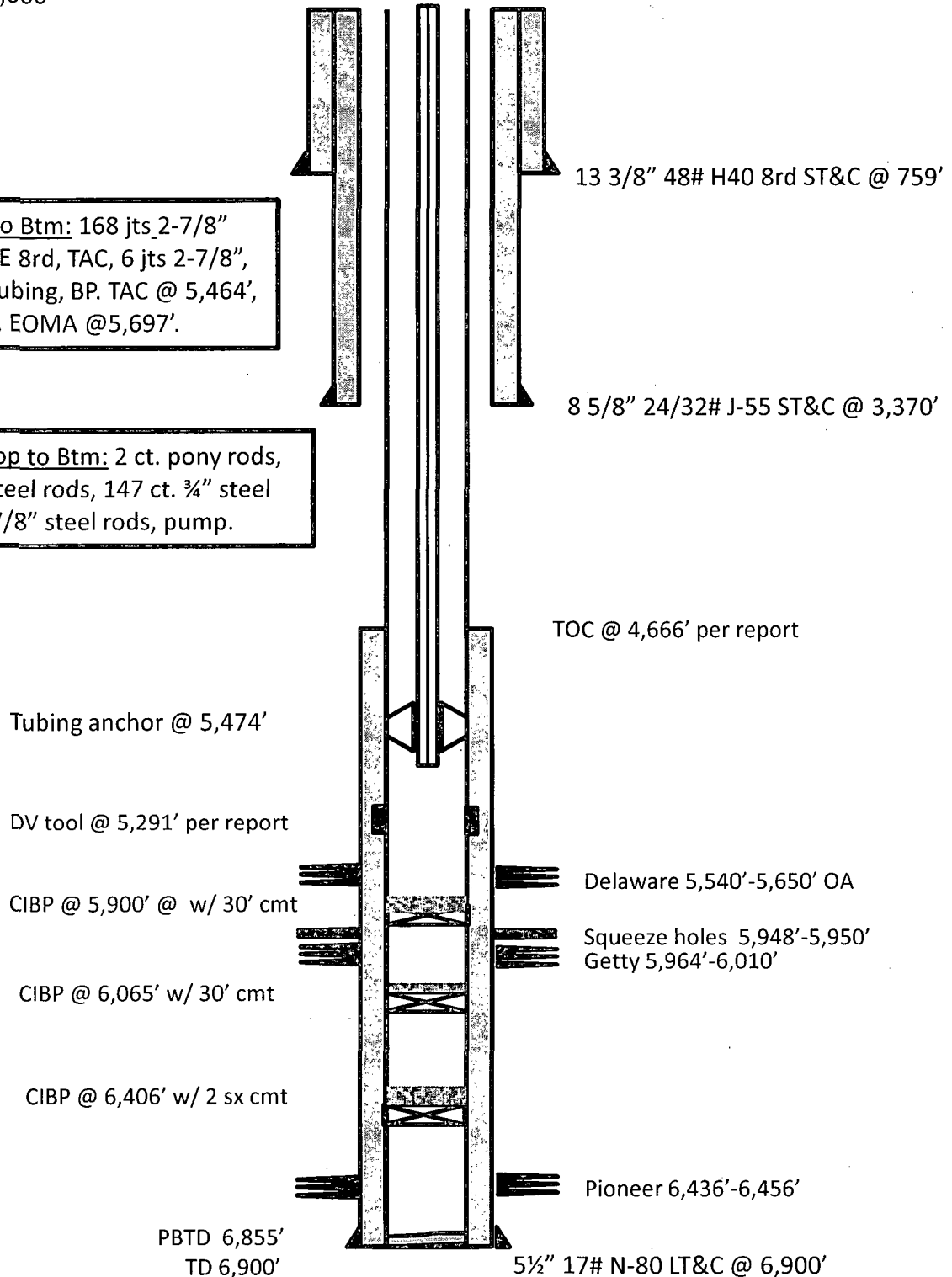
**CURRENT**

KB - 3,018'  
GL - 3,006'

7/9/13; JLM

**Tubing Top to Btm:** 168 jts 2-7/8"  
6.5# J-55 EUE 8rd, TAC, 6 jts 2-7/8",  
SN, PS, 1 jt tubing, BP. TAC @ 5,464',  
SN @ 5,660', EOMA @ 5,697'.

**Rod string Top to Btm:** 2 ct. pony rods,  
57 ct. 7/8" steel rods, 147 ct. 3/4" steel  
rods, 15 ct. 7/8" steel rods, pump.



BUREAU OF LAND MANAGEMENT  
Carlsbad Field Office  
620 East Greene Street  
Carlsbad, New Mexico 88220  
575-234-5972

Permanent Abandonment of Federal Wells  
Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

2. Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. Blowout Preventers: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. Mud Requirement: Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.

5. Cement Requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Dry Hole Marker: All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off.**

The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement, unless otherwise noted in COA (requirements will be attached). The following information shall be permanently inscribed on the dry hole marker: well name and number, name of the operator, lease serial number, surveyed location (quarter-quarter section, section, township and range or other authorized survey designation acceptable to the authorized officer such as metes and bounds).

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation procedure.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Carlsbad Field Office  
620 E. Greene St.  
Carlsbad, New Mexico 88220-6292  
[www.blm.gov/nm](http://www.blm.gov/nm)



In Reply Refer To: 1310

### Reclamation Objectives and Procedures

**Reclamation Objective:** Oil and gas development is one of many uses of the public lands and resources. While development may have a short- or long-term effect on the land, successful reclamation can ensure the effect is not permanent. During the life of the development, all disturbed areas not needed for active support of production operations should undergo "interim" reclamation in order to minimize the environmental impacts of development on other resources and uses. At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land and water are restored.

The long-term objective of final reclamation is to set the course for eventual ecosystem restoration, including the restoration of the natural vegetation community, hydrology, and wildlife habitats. In most cases this means returning the land to a condition approximating or equal to that which existed prior to the disturbance. The final goal of reclamation is to restore the character of the land and water to its pre-disturbance condition. The operator is generally not responsible for achieving full ecological restoration of the site. Instead, the operator must achieve the short-term stability, visual, hydrological, and productivity objectives of the surface management agency and take steps necessary to ensure that long-term objectives will be reached through natural processes.

To achieve these objectives, remove any and all contaminants, scrap/trash, equipment, pipelines and powerlines. Strip and remove caliche, contour the location to blend with the surrounding landscape, re-distribute the native soils, provide erosion control as needed, rip and seed as specified in the original APD COA. This will apply to well pads, facilities, and access roads. Barricade access road at the starting point. If reserve pits have not reclaimed due to salts or other contaminants, submit a plan for approval, as to how you propose to provide adequate restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations must include adequate measures for stabilization and reclamation of disturbed lands. Oil and Gas operators must plan for reclamation, both interim and final, up front in the APD process as per Onshore Oil and Gas Order No. 1.
2. For wells and/or access roads not having an approved plan, or an inadequate plan for surface reclamation (either interim or final reclamation), the operator must submit a proposal describing the procedures for reclamation. For interim reclamation, the appropriate time for submittal would be when filing the Well Completion or Recompletion Report and Log (Form 3160-4). For final reclamation, the appropriate time for submittal would be when filing the Notice of Intent, or the Subsequent Report of Abandonment, Sundry Notices and Reports on Wells (Form 3160-5). Interim reclamation is to be completed within 6 months of well completion, and final reclamation is to be completed within 6 months of well abandonment.
3. The operator must file a Subsequent Report Plug and Abandonment (Form 3160-5) following the plugging of a well.
4. Previous instruction had you waiting for a BLM specialist to inspect the location and provide you with reclamation requirements. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with reclamation as per approved APD. If you have issues or concerns, contact a BLM specialist to assist you. It would be in your interest to have a BLM specialist look at the location and access road prior to the removal of reclamation



equipment to ensure that it meets BLM objectives. Upon conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a specialist to inspect the location to verify work was completed as per approved plans.

5. The approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been reestablished. If the BLM objectives have not been met the operator will be notified and corrective actions may be required.
6. It is the responsibility of the operator to monitor these locations and/or access roads until such time as the operator feels that the BLM objective has been met. If after two growing seasons the location and/or access roads are not showing the potential for successful revegetation, additional actions may be needed. When you feel the BLM objectives have been met submit a Final Abandonment Notice (FAN), Form 3160-5, stating that all reclamation requirements have been achieved and the location and/or access road is ready for a final abandonment inspection.
7. At this time the BLM specialist will inspect the location and/or access road. If the native soils and contour have been restored, and the revegetation is successful, the FAN will be approved, releasing the operator of any further liability of the location and/or access road. If the location and/or access road have not achieved the objective, you will be notified as to additional work needed or additional time being needed to achieve the objective.

If there are any questions, please feel free to contact any of the following specialists:

**Inspection & Enforcement**

Jim Amos  
Supervisory Environmental Protection Specialist  
575-234-5909, 575-361-2648 (Cell)

Mike Burton  
Environmental Protection Specialist  
575-234-2226

Jeffery Robertson  
Natural Resource Specialist  
575-234-2230

Jennifer Van Curen  
Environmental Protection Specialist  
575-234-5905

Doug Hoag  
Civil Engineering Technician  
575-234-5979

Linda Denniston  
Environmental Protection Specialist  
575-234-5974

Solomon Hughes  
Natural Resource Specialist  
575-234-5951

**Permitting**

Cody Layton  
Natural Resource Specialist  
575-234-5959

Trishia Bad Bear  
Natural Resource Specialist  
575-393-3612

Todd Suter  
Surface Protection Specialist  
575-234-5987

Tanner Nygren  
Natural Resource Specialist  
575-234-5975

Amanda Lynch  
Natural Resource Specialist  
575-234-5922

Legion Brumley  
Environmental Protection Specialist  
575-234-5957

**Realty, Compliance**

Randy Pair  
Environmental Protection Specialist  
575-234-6240