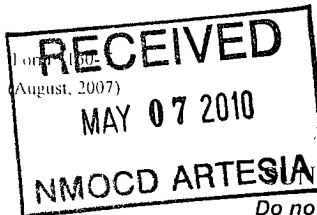


# OCD-ARTESIA



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No 1004-0137  
Expires July 31, 2010

**DRY 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 page 2**

1 Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <b>WIW</b>		5 Lease Serial No <b>NMLC028793A</b>
2 Name of Operator <b>Marbob Energy Corporation</b>		6 If Indian, Allottee, or Tribe Name
3a Address <b>PO Box 227 Artesia, NM 88211-0227</b>		7 If Unit or CA Agreement Name and/or No <b>NMNM88525X</b>
3b Phone No (include area code) <b>(575) 748-3303</b>		8 Well Name and No <b>Burch Keely Unit #98</b>
4 Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>1650 FSL 760 FEL, Sec. 19-T17S-R30E, Unit 1</b>		9 API Well No <b>21366</b> <b>30-015-21366</b>
		10 Field and Pool, or Exploratory Area <b>Grayburg Jackson; SR-Q-Grbg-SA</b>
		11 County or Parish, State <b>Eddy Co., NM</b>

**12. CHECK APPROPRIATE BOX(S) 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"/> Altering 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		
	<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 recomple horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No on file with the 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 recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice 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.)

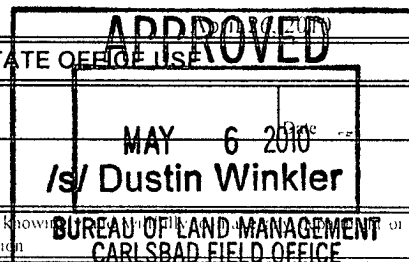
Marbob Energy Corporation proposes to plug & abandon this well.

(See detailed procedure and wellbore schematics attached)

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

**RECLAMATION PROCEDURE  
ATTACHED**

14 I hereby certify that the foregoing is true and correct Name (Printed/Typed) <b>Diana J. Briggs</b>		Title <b>Production Manager</b>
Signature <i>[Signature]</i>		Date
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by <i>[Signature]</i>	Title <b>/s/ Dustin Winkler</b>	
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.		
Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowing the contents of this notice to make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		



0108/01/15 PD

BKU 98  
1650' fsl, 760' fel  
Unit I, Sec. 19, T17S, R30E  
Eddy Co., NM  
API 30-015-21366  
Plug and Abandonment Procedure  
15 Apr 10

RECEIVED

APR 15 2010

[...KBC...]

**Basic Data:**

8-5/8" @ 495' 100 sx. Calc TOC @ 240' Assuming 13" Hole.

4-1/2" @ 3410' 600 sx. TOC 1210' Temp Survey.

Old squeezed casing leaks in 4-1/2" 60-150'.

New casing leaks in 4-1/2" 120-233'.

Top Salt = 480', Base Salt = 955'

Grayburg and San Andres are part of a single pooled interval and don't need to be separated when well is plugged.

**Note:** Notify BLM inspectors in Carlsbad (575-361-2822) at least 24 hrs. before starting plugging operation. Class "C" cement will be used (14.8 ppg, 1.32 cfps, 6.3 gwps).

**Procedure:**

1. Pick up a work string and run bit and scraper to 2500' if necessary.
2. Install packoff, run gauge ring to 2500' if necessary and set CIBP at 2500'. Shoot 8 squeeze holes at 1005' (50' below base salt) and 545' (50' below 8-5/8" shoe).
3. RIH with tubing to CIBP at 2500', tag plug, set a few points weight onto plug to make sure it won't move, spot 25 sx. Class "C" with 2% CaCl<sub>2</sub> on top of CIBP, pull up to 2000', circulate 30 bbls of 9 ppg brine mixed with 25 sx per 100 bbls of salt gel into well, TOO H with tubing and pick up a packer.
4. RIH with packer to 800', establish injection rate into perfs at 1005' (50' below base of salt, open valve on 4-1/2" x 8-5/8" annulus), pump 50 sx Class "C" with 2% CaCl<sub>2</sub>, flush cement to packer, TOO H with packer and RIH open-ended and tag cement. If can't inject into perfs at 1005', POOH with packer, RIH open-ended to 1260', spot 30 sx. Class "C" with 2% CaCl<sub>2</sub>, pull tubing to 300', WOC couple of hours and RIH and tag plug. Plug needs to be 895' or shallower. Respot plug if necessary.
5. RIH with packer to 380', establish injection rate into perfs at 545' (50' below 8-5/8" shoe, open valve on 4-1/2" x 8-5/8" annulus), pump 50 sx Class "C" with 2% CaCl<sub>2</sub>, flush cement to packer, TOO H with packer, WOC couple of hours and RIH open-ended and tag cement. Plug needs to be 430' or shallower. Respot plug if necessary.
6. RIH with open-ended tubing to 250', fill 4-1/2" with approx. 20 sx. Class "C" with 2% CaCl<sub>2</sub>, POOH with tubing, tie onto 4.5" casing, pump cement down 4-1/2" and up 4-1/2" x 8-5/8" annulus until cement circulates to surface, close 4-1/2" x 8-5/8" annulus and pump cement down 4-1/2" and attempt to circulate to surface outside the 8-5/8" casing. Have extra cement available in case needed (should take

approx. 130 sx. to fill 4-1/2", 4-1/2" x 8-5/8" annulus and 8-5/8" x open hole annulus from 200' to surface).

7. Cut wellhead and casings off 3' below ground level and remove. Weld plate onto 8-5/8" stub. Weld a 4" diameter dry hole marker onto plate such that 4' of it is above ground level. The following information needs to be placed on the marker:

Marbob Energy, BKU 98, 1650' fsl, 760' fel, Unit 1, Sec. 19, T17S, R30E, 30-015-21366

Date well plugged

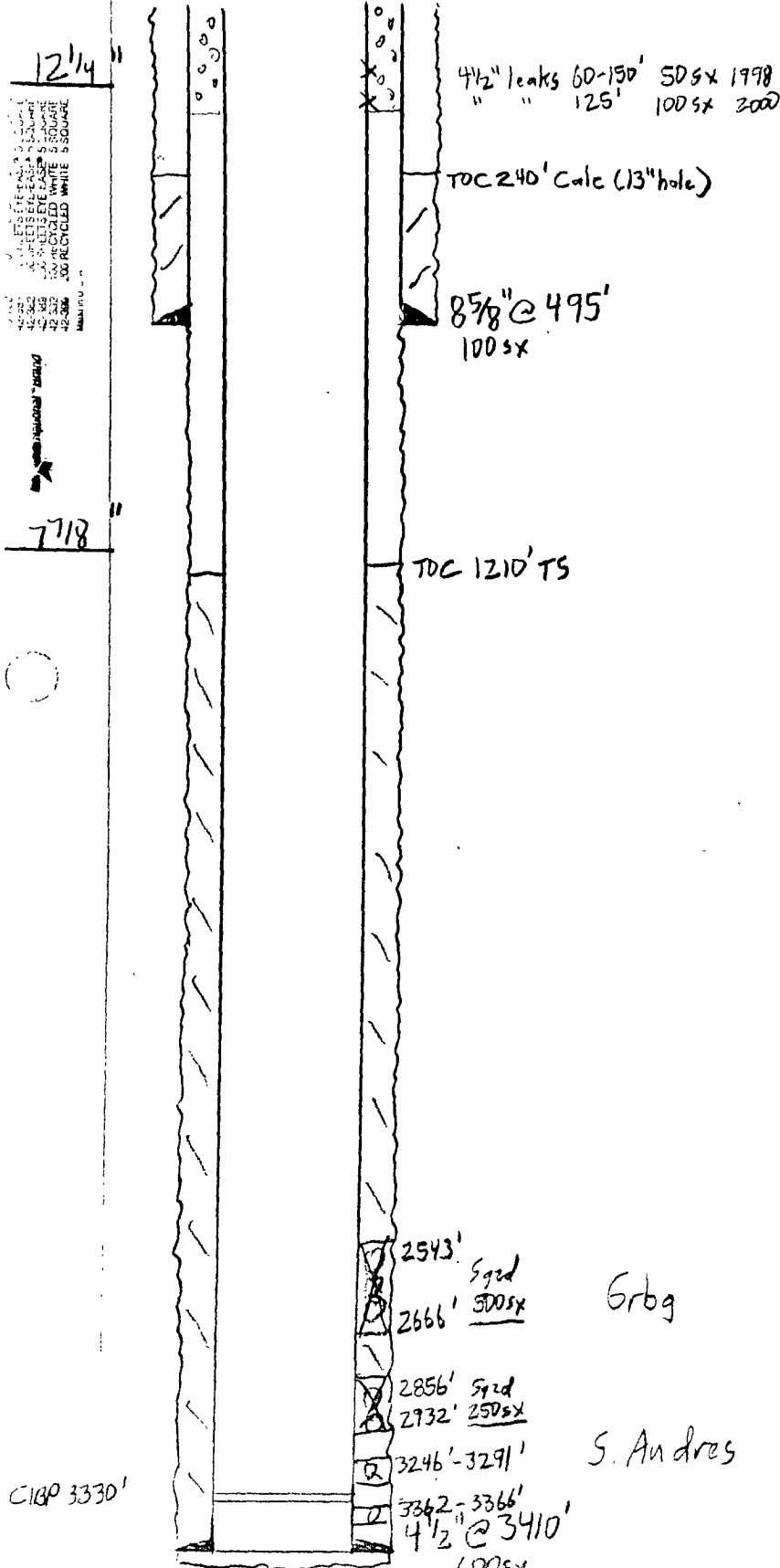
8. Cut off anchors, and reclaim location per BLM specs.

Kbc/bku 98 plug

Well: BKV 98 WIW  
 (Formerly BurchAA-31)  
 Location: 1650' FSL 760' FEL  
I-19-175-30e  
Eddy NM  
30-075-21366

Zero: 10' AGL  
 KB: 3623'  
 GL: 3613'

Casing Program:				
Size	Wt.	Grade	Conn.	Depth
8 5/8"	20			495'
4 1/2"	10.5	H40	STC	3410'
2 3/8"	4.7	J55	EU/E	3202'
			Salta	



Before P&A

Grbg

S. Andres

Well: BKV 98 WIN  
 (Formerly Burch AA-31)  
 Location: 1650' FSL, 760' FEL  
I-19-175-30e  
Eddy NM  
30-015-21366

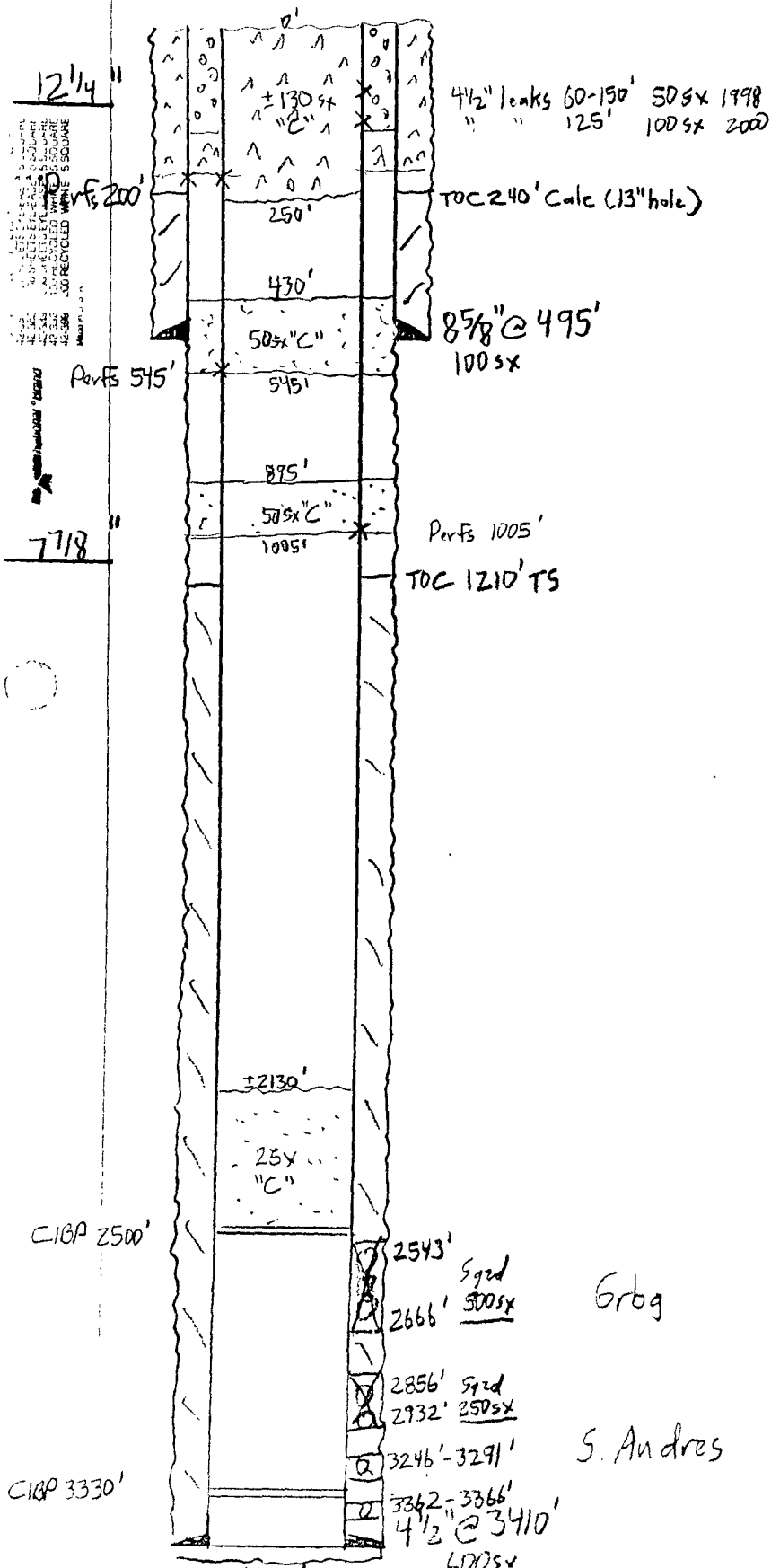
Zero: 10' AGL  
 KB: 3623'  
 GL: 3613'

Casing Program:

Size	Wt.	Grade	Conn.	Depth
8 5/8"	ZD			495'
4 1/2"	10.5	H40	STC	3410'
2 3/4"	4.7	J55	EUE	3202'
			Salta	

TDS 480'  
 BOS 955'

4 1/2" capex = .0895 CF/F  
 8 5/8" x 4 1/2" " = .2555 CF/F  
 13" O.D. x 8 5/8" " = .5160 CF/F  
 25' in 4 1/2" ht = 369'



After P&A

Grbg

S. Andres

Marbob Energy Corporation  
NMLC-028793A: Burch Keely Unit #98  
API: 30-015-21366  
Eddy County, New Mexico

RE: Plugging and Abandonment Procedure, Conditions of Approval

H2S monitoring equipment to be on location.

1. OK
2. OK
3. OK (Perfs)
4. OK (BOS)
5. OK (Casing shoe – TOS)
6. Perforations needed – Otherwise OK (Surface)
7. Verify cement to surface in all annuluses. Ground Level Dry Hole Marker required in this area – Requirements attached.
8. OK
9. Submit subsequent report, with details.

See attached standard COA.

DHW 042910

## **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. In lieu of a cement plug in a cased hole, 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. Any plug that requires a tag will have a minimum WOC time of 4 hours.

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 when the wellhead is cut off to verify that cement is to surface in the casing and all annuluses.** The well bore shall then be capped with a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement. 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 five 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.

DHW 112309





# 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

### Interim Reclamation 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.

Interim reclamation consists of minimizing the footprint of disturbance by reclaiming all portions of the well site not needed for production operations. The portions of the cleared well site not needed for operational and safety purposes are recontoured to a final or intermediate contour that blends with the surrounding topography as much as possible. Sufficient level area remains for setup of a workover rig and to park equipment. Topsoil is respread over areas not needed for all-weather operations. Production facilities should be clustered to maximize the opportunity for interim reclamation. In order to inspect and operate the well or complete workover operations, it may be necessary to drive, park, and operate on restored, interim vegetation within the previously disturbed area. This is generally acceptable provided damage is repaired and reclaimed following use.

To reduce final reclamation costs; maintain healthy, biologically active topsoil; and to minimize habitat, visual, and forage loss during the life of the well, all salvaged topsoil should be spread over the area of interim reclamation, rather than stockpiled.

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). Interim reclamation is to be completed within 6 months of well completion.

3. If you have an approved Surface Use Plan of Operation and/or an approved Sundry Notice, you are free to proceed with interim reclamation as per approved APD or Sundry Notice. 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.
4. 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.
5. 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 there are any questions, please feel free to contact any of the following specialists:

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

Cody Layton  
Natural Resource Specialist  
575-234-5959

Terry Gregston  
Environmental Protection Specialist  
575-234-5958

Trishia Bad Bear  
Natural Resource Specialist  
575-393-3612

Bobby Ballard  
Environmental Protection Specialist  
575-234-2230

Todd Suter  
Surface Protection Specialist  
575-234-5987

Randy Rust  
Environmental Protection Specialist  
575-234-5943

Doug Hoag  
Civil Engineering Technician  
575-234-5979

Linda Denniston  
Environmental Protection Specialist  
575-234-5974

Jennifer Van Curen  
Environmental Protection Specialist  
575-234-5905

Justin Frye  
Environmental Protection Specialist  
575-234-5922