

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNM OIL CONSERVATION
DISTRICT
ARTESIAN
JUL 19 2016
RECEIVEDFORM 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.**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: INJECTION		5. Lease Serial No. NMLC029435B
2. Name of Operator LINN OPERATING INCORPORATED E-Mail: lmoreno@linnenergy.com		6. If Indian, Allottee or Tribe Name
3a. Address 600 TRAVIS STREET SUITE 5100 HOUSTON, TX 77002	3b. Phone No. (include area code) Ph: 713-904-6657 Fx: 832-209-4316	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 8 T17S R31E NENW 660FNL 1980FWL		8. Well Name and No. J L KEEL B 7
		9. API Well No. 30-015-05108-00-S1
		10. Field and Pool, or Exploratory GRAYBURG
		11. 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	
	<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.)

THE SUBJECT WELL FAILED AN MIT 4/16 DUE TO SUSPECTED CASING LEAK. NO EVIDENT DETRIMENTAL EFFECT IN OFFSET PRODUCTION HAS BEEN OBSERVED SINCE WELL HAS BEEN OFFLINE. THIS WELL HAS NO UTILITY IN THE CURRENT ECONOMIC ENVIRONMENT. THEREFORE, PA IS RECOMMENDED.

PROPOSED PA PROCEDURE:

- 25 2940 25 Tag at 2780
1. SET 4 1/2 CIBP @ 2780' CIRC HOLE W/MLF. SPOT 10 SX CMT ON TOP
 2. SPOT 20 SX CMT @ 1410-1210' 1460-1260
 3. PERF & SQZ 45 SX CMT @ 650-550' WOC & TAG
 4. PERF & SQZ 65 SX CMT @ 200' SURFACE
 5. CUT OUT WELLHEAD AND WELD ON DRY HOLE MARKER

RECLAMATION PROCEDURE
ATTACHED

*SEE ATTACHED CURRENT & PROPOSED WBD'S

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.		Accepted For Record NMOCD
Electronic Submission #342878 verified by the BLM Well Information System For LINN OPERATING INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by CHRISTOPHER WALLS on 07/06/2016 (16CRW0067SE)		
Name (Printed/Typed)	LAURA A MORENO	Title
Signature	(Electronic Submission)	REGULATORY ADVISOR
		Date
		06/22/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>Chloe Wells</u>	Title <u>Eng</u>	Date <u>7/7/16</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 <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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NM Schematic

Well Name: KEEL J L B 7 INJ

API/WF#	Field Name	County	State/Province	Section	Township	Range	Survey	Block
3001505108	PGM - PG-GRAYDURG WEST/CE	Eddy	NM	8	017S	031E		
Ground Elevation (ft)	Orig KB Elev (ft)	KB-Grid (ft)	Initial Spud Date	Rig Release Date	TD Date	Latitude (1) (N/S)	Longitude (1) (E/W)	Operated Yes/No
3,785.00	3,785.00	0:00-	5/25/1951			32°51'45.938"N	103°53'38.522"W	Yes

Original Hole, 5/18/2016 3 31:31 PM

Original Hole Data

MD (RKB)	Vertical schematic (actual)		Wellbores						
			North-South Distance (ft) 660.0		NS Flag FNL	East-West Distance (ft) 1,980.0	EW Flag FWL		
			Casing Strings						
			Csg Des Surface	Set Depth 600.0	OD Nom. 10.3/4	ID Nom. 10.192	Wt/Len (lb) 32.75	String Grade H-40	Run Date 5/25/1951
			Csg Des Intermediate	Set Depth 2,916.0	OD Nom. 7	ID Nom. 6.276	Wt/Len (lb) 26.00	String Grade J-55	Run Date 5/26/1951
			Csg Des Production	Set Depth 3,381.0	OD Nom. 4 1/2	ID Nom. 4.09	Wt/Len (lb) 8.50	String Grade J-55	Run Date 6/1/1964
			Cement Stages						
			Description Surface Casing Cement	Top (RKB) 0.0	Btm (RKB) 600.0	Eval Method	Comment 100 SXS CMT		
			Description Intermediate Casing Cement	Top (RKB) 980.0	Btm (RKB) 2,916.0	Eval Method	Comment 200 SXS CMT. TOC 980' (CBL)		
			Description Production Casing Cement	Top (RKB) 2,833.0	Btm (RKB) 3,381.0	Eval Method	Comment CMT W/125 SXS ENCORE & 125 GALS LAYTEX		
			Tubing Strings						
			Tubing Description Tubing	Set Depth 2,763.0	Run Date 5/10/2011	Pull Date			
			Perforations						
			Top (RKB) 2,912.0	Btm (RKB) 3,377.0	Comment				
			Top (RKB) 2,990.0	Btm (RKB) 3,258.0	Comment				
			Formations						
			Formation SALT	Final Top 575.0	Final Btm 1,408.0	Comment			
			Formation TANSILL	Final Top 1,410.0	Final Btm	Comment			
			Formation YATES	Final Top 1,600.0	Final Btm	Comment			
			Formation SEVEN RIVERS	Final Top 1,648.0	Final Btm	Comment			
			Formation QUEEN	Final Top 2,485.0	Final Btm	Comment			
			Formation GRAYBURG	Final Top 2,909.0	Final Btm	Comment			
0.0									
46.9									
975.1	SALT (final)		Surface Casing Cement; 0.0-600.0 Wellbore; 12,000.0, 0.0-600.0						
1410.1	TANSILL (final)		Surface; Casing; 0.0-600.0						
1603.1	YATES (final)								
1644.2	SEVEN RIVERS (final)		Wellbore; 8,000.0, 600.0-2,916.0						
2484.9	QUEEN (final)		Intermediate Casing Cement; 980.0-2,916.0						
2794.2									
2798.2									
2798.5									
2798.6									
2833.0									
2877.9									
2909.1	GRAYBURG (final)								
2912.1									
2916.0			Intermediate; Casing; 0.0-2,916.0						
2922.2			Production Casing Cement; 2,833.0-3,381.0						
3258.0	Perforated; 2,990.0-3,258.0		Wellbore; 8,250.0, 2,916.0-3,384.0						
3377.0	Perforated; 2,912.0-3,377.0								
3379.8									
3380.9			Production Casing; 2,833.0-3,381.0						
3382.9									
3384.0			Wellbore; 3,875.0, 3,384.0-3,821.0						
3385.9									
3386.4			Wellbore; 3,821.0						



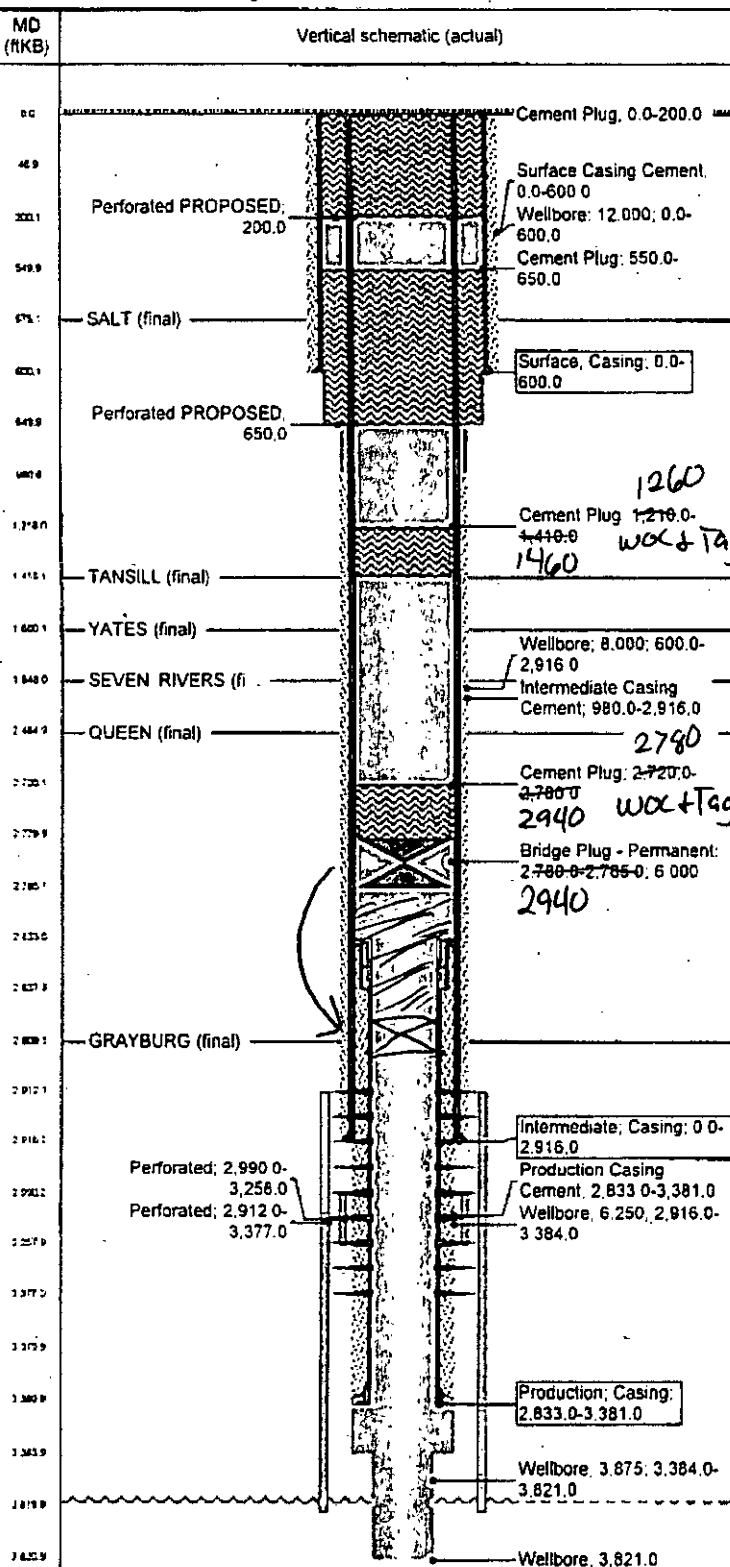
NM Schematic

Well Name: KEEL J L B 7 INJ

APR 10 2016 10:00 AM	Field Name: PBM - GRAYBURG, WEST, CEND	County: Eddy	State/Province: NM	Section: 8	Township: 017S	Range: 031E	Survey: 031E	Block: 1	Lot: 1
Ground Elevation (ft)	Orig KB Elev (ft)	KB-Grid (ft)	Initial Spud Date	Rig Release Date	TD Date	Latitude (N)	Longitude (W)	Well Name	Operator
3,785.00	3,785.00	0.00	5/25/1951			32°51'15.938"N	103°53'38.522"W	KEEL J L B 7 INJ	Yes

Original Hole, 6/20/2016 2:48:38 PM

Original Hole Data



Wellbores						
North-South Distance (ft)			NS Flag	East-West Distance (ft)		EW Flag
660.0			FNL	1,980.0		FWL
Casing Strings						
Csg Des	Set Depth	DD Nom.	ID Nom.	W/Len (ft)	String Grade	Run Date
Surface	600.0	10 3/4	10 1/2	32.75	3-40	5/25/1951
Csg Des	Set Depth	DD Nom.	ID Nom.	W/Len (ft)	String Grade	Run Date
Intermediate	2,916.0	7	6 2/8	26.00		5/26/1951
Csg Des	Set Depth	DD Nom.	ID Nom.	W/Len (ft)	String Grade	Run Date
Production	3,381.0	4 1/2	4 0/8	9.50	3-55	6/1/1964
Cement Stages						
Description	Top (ftKB)	Btm (ftKB)	Eval Method	Comment		
Cement Plug	2,720.0 2780	2,780.0 2940	2940	PROPOSED: Set CIBP at 2780'. Cap with 10 sks cmt		
Description	Top (ftKB)	Btm (ftKB)	Eval Method	Comment		
Cement Plug	1,240.0 1260	1,440.0 1460		PROPOSED: Spot 20 sks cmt 1410-1210.		
Description	Top (ftKB)	Btm (ftKB)	Eval Method	Comment		
Cement Plug	550.0	650.0		PROPOSED: Perf & Sqz 45 sks cmt 650-550.		
Description	Top (ftKB)	Btm (ftKB)	Eval Method	Comment		
Cement Plug	0.0	200.0		PROPOSED: Perf & Sqz 65 sks cmt 200-surface.		
Description	Top (ftKB)	Btm (ftKB)	Eval Method	Comment		
Surface Casing Cement	0.0	600.0		100 SXS CMT		
Description	Top (ftKB)	Btm (ftKB)	Eval Method	Comment		
Intermediate Casing Cement	980.0	2,916.0		200 SXS CMT. TOC 980' (CBL)		
Description	Top (ftKB)	Btm (ftKB)	Eval Method	Comment		
Production Casing Cement	2,833.0	3,381.0		CMT W/125 SXS ENCORE & 125 GALS LAYTEX		
Tubing Strings						
Tubing Description			Set Depth	Run Date	Pull Date	
Tubing			2,763.0	5/10/2011	6/1/2016	
Perforations						
Top (ftKB)	Btm (ftKB)	Comment				
200.0	200.0					
Top (ftKB)	Btm (ftKB)	Comment				
650.0	650.0					
Top (ftKB)	Btm (ftKB)	Comment				
2,912.0	3,377.0					
Top (ftKB)	Btm (ftKB)	Comment				
2,990.0	3,258.0					
Other in Hole						
Des	Top (ftKB)	Btm (ftKB)	Run Date	Com		
Bridge Plug - Permanent	2,780.0	2,785.0				
Formations						
Formation	Final Top	Final Btm	Comment			
SALT	575.0	1,408.0				
Formation	Final Top	Final Btm	Comment			
TANSILL	1,410.0					
Formation	Final Top	Final Btm	Comment			
YATES	1,600.0					
Formation	Final Top	Final Btm	Comment			
SEVEN RIVERS	1,648.0					
Formation	Final Top	Final Btm	Comment			
QUEEN	2,485.0					
Formation	Final Top	Final Btm	Comment			
GRAYBURG	2,909.0					

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

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 19 2016

RECEIVED

**Permanent Abandonment of Federal Wells
Conditions of Approval (LPC Habitat)**

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 90th day provide this office, prior to the 90th 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. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): 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 10th day, the BLM is to be contacted with justification to receive an extension for completing the cut off.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

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 objectives.

Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:

From March 1st through June 15th annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted



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



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:

Jim Amos
Supervisory Petroleum Engineering Tech
575-234-5909, 575-361-2648 (Cell)

Arthur Arias
Environmental Protection Specialist
575-234-6230

Linda Denniston
Environmental Protection Specialist
575-234-5974

Henryetta Price
Environmental Protection Specialist
575-234-5951

Dara Glass
Environmental Protection Specialist
575-234-5924

Shelly Tucker
Environmental Protection Specialist
575-234-5979