Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED OMB NO. 1004-0135 Expires July 31, 2010

HOBBS OCD

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 MAR 20 2012

5. Lease Serial No. NMNM01244A

	NMNM01244A	
6.	If Indian, Allottee or Tribe Name	

SUBMIT IN TRIF	7 If Unit or CA/Agree 891001066B	ment, Name and/or No.						
1. Type of Well				CEIVED	8. Well Name and No	tic /		
Oil Well Gas Well 🛛 Oth	er UNKNOWN OTH			:	BELL LAKE UNIT	% 0 -		
Name of Operator KAISER-FRANCIS OIL COMP	BURG	9. API Well No. 30-025-08483						
3a Address P. O. BOX 21468 TULSA, OK 74121-1468		. (include area code 11-4314	e)	10 Field and Pool, or NORTH BELL L	Exploratory AKE DEVONIAN /			
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Desgription	n)			11 County or Parish, a	and State		
Sec 6 T23S R34E SWSE 660 32.328085 N Lat, 103.506667	LEA COUNTY, NM							
12. CHECK APPR	COPRIATE BOX(ES) TO	O INDICATE	NATURE OF	NOTICE, RI	EPORT, OR OTHER	RDATA		
TYPE OF SUBMISSION			ТҮРЕ С	F ACTION				
- Notice of Intent	☐ Acidize	□ Dee	Deepen Produc		ion (Start/Resume)	☐ Water Shut-Off		
Notice of Intent	Alter Casing	☐ Frac	ture Treat	☐ Reclam	ation	☐ Well Integrity		
☐ Subsequent Report	Casing Repair	n New	_ ,		olete	Other		
Final Abandonment Notice	Change Plans	_			arily Abandon			
9	Convert to Injection	r Plug		☐ Water I				
13. Describe Proposed or Completed Ope If the proposal is to deepen directional	lly or recomplete horizontally,	give subsurface	locations and meas	sured and true ve	ertical depths of all pertin	ent markers and zones.		
Attach the Bond under which the wor following completion of the involved testing has been completed Final Ab determined that the site is ready for fi	operations If the operation re- andonment Notices shall be fil	sults ın a multipl	le completion or rec	completion in a	new interval, a Form 316	0-4 shall be filed once		
Attached is plugging procedure	e & wellbore diagram.				RECLAMATION	PROCEDURE		
Approximately starting date is	April 16, 2012.		·		ATTAC	HED		
SEE ATTACHED FOR CONDITIONS OF APPROVAL								
14. I hereby certify that the foregoing is	ı System							
	2012 ()							
Name (Printed/Typed) CHARLOT	TE VAN VALKENBURG	Title TECHN	NICAL COOR	DINATOR				
Signature (Electronic S			Date 02/15/2					
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE US	SE			
Approved By Amus 6	Pero-		Title SE	PS		3-/2-/2 Date		
Conditions of approval, if any, are attached certify the the applicant holds legal or equivalent would entitle the applicant to condu	l. Approval of this notice does itable title to those rights in the experations thereon	not warrant or e subject lease	Office CF	D				
Title 8 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a tatements or representations as	crime for any pe to any matter w	erson knowingly an	d willfully to ma	ake to any department or	agency of the United		

Kaiser-Francis Oil Company North Bell Lake Unit #2-6

Recomplete to Morrow

660' FSL, 1980' FEL Section 6, T23S, R34E Lea County, New Mexico API # 30-025-08483

WELL DATA

TD:

16.506

PBTD:

14.734'

Elevation:

GL Elev. = 3465'

KB Elev. = 3485'

Surface Casing:

20" @ 890', cemented w/ 1200 sx, circ.

Intermediate Csg: 13-3/8" @ 5810' cemented w/ 3100 sx, circ.

Intermediate Csg:

9-5/8" 43.5, 47, & 53.5# @ 11,910' cemented w/ 2080 sx.

TOC @ 5600' by TS.

Production Csg:

7" 26# & 35# N80 & P110 @ 14,165', cemented w/ 65 sx.

TOC @ 11,625' by TS.

Production Liner:

5" 17.93# / 18# FJ from 14,003' - 14,900'

Existing Perfs:

Devonian 14,568-94', 14,609'-39', 14,622'-714'

Proposed Perfs:

4th Morrow: 13,419'-27'

3rd Morrow: 13,243'-48'

2nd Morrow: 13,039-56', 13,020'-32', 13,006'-14'

1st Morrow: 12.868'-78'

Correlation Log:

Schlumberger Induction-Electric log for Continental Oil Bell

Lake Unit #6 (attached).

BH Temp:

186 deg F @ 13,400'

Tubular Specs:

<u>item</u>	ID_	Drift	Bbl/ft	Gal/ft	Burst	80% Burst	Tens
7" 26# N80	6.276					5792	
7" 35#	6.004	5.879	.03500	1.4708	N/A	N/A	
5" 18#	4.276	4.151	.01776	0.7459	N/A	N/A	
5" 23# P110 ULTFJ	4.044	3.919	.01588	0.6672	18,400	14,720	567k

<u>Item</u>	<u>ID</u>	Drift	Bbl/ft	Gal/ft	Burst	80% Burst	Tens	
4.5" 15# P110 ultfj	3.826	3.701	.01421	0.5972	N/A	N/A	344k	
2-3/8" 4.7# P-110	1.995	1.901	.00387	0.1626	15400	12320	144k	
Note: Exact depths of various weights of 7" casing are unknown. Casing grades								
are also unknown, but were reported as N80 and P110.								

PROCEDURE

- 1) Dig out WH as necessary and tie pressure gauges into 9-5/8"x13-3/8" annulus, and 7"x9-5/8" annulus. Repair well head valves as necessary. Prior to blowing well down record csg pressures. Blow down 7"x2-3/8" csg annulus. Monitor tbg, 9-5/8"x7" annulus, and 9-5/8"x13-3/8" annulus for signs of communication while blowing. Blow down tbg. RU pump truck and pump produced wtr down tbg while monitoring backside. If the well indicates circulation is possible up tbg / csg annulus, circulate produced water until csg is dead. If there is communication between tbg/csg annulus and 9-5/8"x7" annulus, circulate kill fluid down tbg/csg annulus and out 9-5/8"x7" annulus until dead. Blow down 9-5/8"x13-3/8" annulus and monitor for communication. SI annulus and pump down tbg with 20+ extra bbls in an attempt to pump swab fish down to pkr.
- 2) RU slick line. RIH w/ sinker bar and tag top of swab fish. If possible, push fish down to pkr @ 13,980'. If slick line is sticky inside of tbg, cease SL operations. RD SL.
- 3) MIRU PU. Kill well with produced wtr. ND WH, NU BOP. RU WL. RIH w/ chemical cutter and tag swab fish. Cut tbg above top of swab. RD WL. POOH and LD 2-3/8" tbg string. Note: visually check tbg string for signs of scale buildup at periodic depths.
- 4) Take delivery of +/- 14,600' of 2-3/8" P110 tbg. If swab mandrel can be pushed down to where it's close to the pkr, cut tbg above pkr and skip to Step #5. Otherwise, TIH w/ external tbg cutter and wash pipe. Work over tbg fish and make cut below depth of swab mandrel fish. POOH w/ tools and fish. TIH w/ overshot and engage top of tbg fish. RU WL. Make chemical cut above pkr. RD WL. POOH and LD tbg fish.
- 5) PU burning shoe and wash pipe. TIH, work over tbg fish and down to pkr. Cut over pkr until it begins to move down hole. Do not get rough with pkr when it starts to move so as to avoid damaging liner top. POOH. TIH w/ OS and retrieve tbg and pkr. POOH. Check packer and bottom of old production tbg for signs of scale buildup.
- 6) TIH w/ 5.875" bit and csg scraper to TOL. POOH. TIH w/ 4" bit and csg scraper. Work into top of liner and down to 14,550'. POOH.

7) Contact BLM: 575-393-3612 (Lea County) at least 4 hrs prior to setting CIBP. TIH w/ HTHP CIBP. Work into TOL and set CIBP @ 14,500'. Spot 50' of cmt (approx. 5 sx) on top of CIBP from 14,450' - 14,500'. POOH to 14,220' and spot cmt plug from 14,220' to 13,900' (approx. 40 sx). POOH w/ 3 stands, reverse tbg clean, and SD to let cmt set. TIH and tag top of cmt. Prepare to spot additional cmt if top is below 13,950'. Circ hole with plug mud. Load 7"x9-5/8" annulus. Load 9-5/8"x13-3/8" annulus. POOH to 12,850' and spot cement plug from 12,850' to 12,600'. POOH to 12,020' and spot cmt plug from 12,020' – 11800'. POOH standing back +/- 11,600' of tbg.

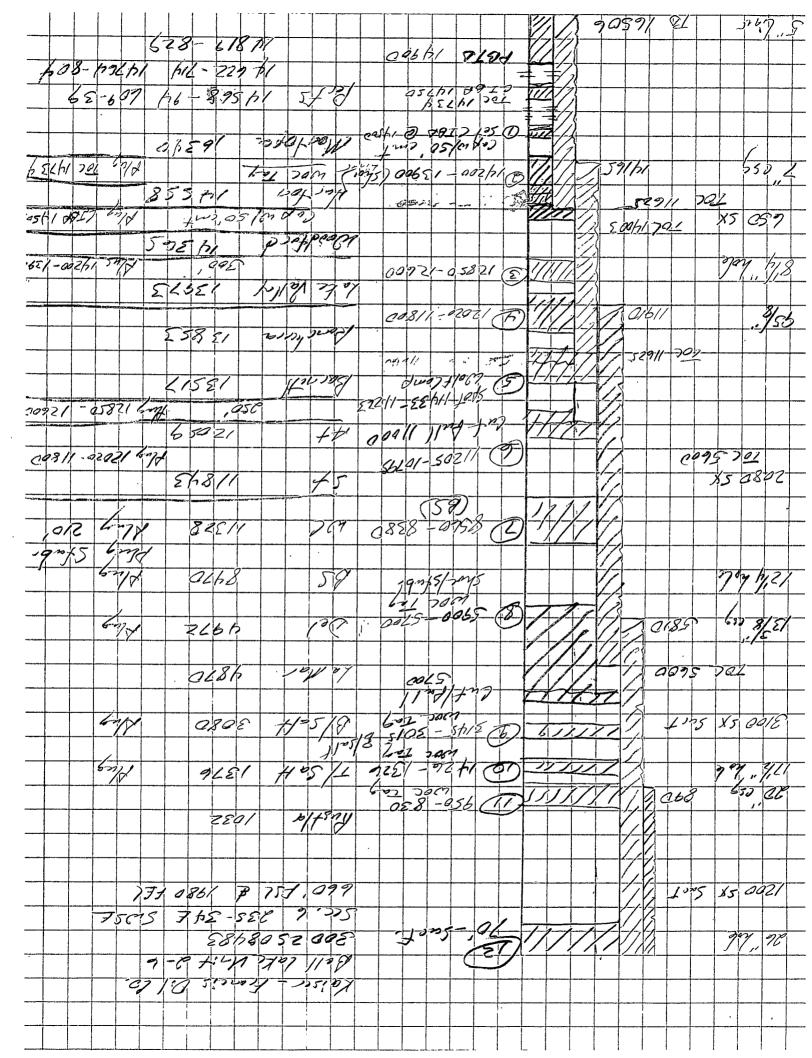
8) RUWL. FP and cut 7" csg (estimated FP depth 11,000'). RU csg crew, LD 7" csg. RUWL. FP and cut 9-5/8" csg (estimated FP depth 5500' – do not cut below 5700'). LD 9-5/8" csg.

9) TIH w/ tbg to 7" csg stub, spot cmt plug 100' below to 100' above 7" stub. POOH to 8560", spot cmt plug from 8550' to 8390'. POOH to 5900'. Spot cmt plug to 5700'. Spot cmt plug 75' below to 75' above 9-5/8" csg stub. X POOH and spot cmt plug from 1600 = 1450'. POOH and spot cmt plug from 1921-1321 950' to 830', POOH and spot cmt plug from 70' to surface.

10) Cut off wellhead and weld on plate. Backfill and reclaim location.

* Spot B/Salt plug 3145-3015 WOL Tag

Kaiser-Francis North Bell Lake #2-6 660' FSL, 1980' FEL, Sec 6, T23S, API -30-025-08483 Location: **R34E** County: Lea Spud Date: 10/25/59 State: **New Mexico** Completed: 6/60 Elevation: GL - 3465' KB - 3485' Diagram: Updated - 6/13/11 Work History: 2 3/8" 4.7# N80@ 14,010' 12/59: DST #1 - Delaware 6740'-94', recov 275' drlg fluid. DST #2 -7755'-96', recov 30' mud, no O or G shows. DST #3 - 8197'-8247', 20"@ 890' w/ 1200 sxs (circ) recov 100' drig mud. DST #4 - 10,360'-452', recov 540' drig mud, no O or G. DST #5 - 11,210'-368', pkr failed. DST #6 (Devonian) -14,545'-603', F - 4.275 mmcf/d @ 300#. DST #7 - 14,603-665', F -9.4 mmcf/d @ 1355#. DST #8 - 14,663'-745', F 1047 mcf/d @ 290# / pkr failed. DST #9 - 14,747-835' - F 5.7 mmcf/d @ 650#. DST #10 - 14,859-935', pkr failed, recov 372' salty sulphur wtr. DST #11 -13-3/8" 61/68/72# @ 5810' w/ 3100 sx 14,941'-15,056', recov 500' mud, 13,250' sulphur wtr. DST #12 -(circ) 15,318-375', rec 232' sulphur wtr. DST #13 - 15,665-743', recov 90' drlg mud. Lost circ @ 16,003' (cmt sqzd). Stuck DP @ 16,467'. backed off @ 15,715', left fish in hole. PB to 14,900' w/ cmt, ran 5" Swab tool fish @ 11,486'. 6/60: Completion: PF: DEVONIAN: 14568-94; 609-39; 662-714; 764-804; 819-29 (2spf). Set Model D pkr at 13,980'. Run 2-3/8" tbg. Az 9-5/8" 43.5/47/53.5# @ 11,910' w/ 2080 sx (TOC @ 5600' by TS) w/ 2000 gals. CAOF 30.5 mmcf/day. 11/71: Set thru tbg BP at 14,750'. Top with cement to 14,734' 11/04: Acidize w/ 4000 gal 15% Hcl 5/05: KF took over operations. 10/26/05: Acidize w/2000 gal 20% NEFE acid 2/2/08: Unloaded to tank & soaped XX XX Model D 13,980' 12/08: RIH w/ SL bailer, fell thru bridge @ 14,696' & tag TD @ 14,725'. Swabbed well in. 1/3/09: Swab well. TOL 14.003' 5/09: Tag TD @ 14,731' w/ SL. Swab well, did not kick off. 7" 26#/35# P/N @ 14,165' w/ 650 sx (TOC @ 11,625' by TS) 7/09: Swab well, lost an estimated 1' of cable and swab tools in well (top of socket - 1.375", sinker bar - 1-1/2", jars 1-1/2", & mandrel / 14568'-594' nogo for 2-3/8" tbg. Tried to fish, worked fish down to 11,486' and could not recover. IB showed wire marks centralized in tbg. 14609'-639" Attempted to swab, well did not kick off. SIW. 14622'-714' PBTD 14,734' TTBP TTBP at 14,750' 14764'-804' 14819'-829' 5" 17.93/18# FJ @ 14,900' w/75 sxs 150 sx cmt plug DP Stk 16467' Cut off 15715'.



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 <u>ninety (90)</u> 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. <u>Notification</u>: 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. <u>Blowout Preventers</u>: 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. <u>Mud Requirement:</u> 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. <u>Cement Requirement</u>: 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. <u>Dry Hole Marker</u>: 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.

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. <u>Subsequent Plugging Reporting</u>: 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. <u>Show date well was plugged</u>.
- 8. <u>Trash</u>: 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.

J. Amos 3/6/11

Requirements for ground level dry hole markers <u>Well Identification Markers</u> Conditions of Approval (COA)

The BLM Carlsbad Field Office (CFO) Conditions of Approval (COA) Requires that ground level dry hole markers be placed on well within the Lesser Prairie Chicken habitat area. The dry hole markers will be to the following specifications. The operator will construct the markers as follows:

- 1. An 8 inch X 8 inch steel plate 1/8 to 3/16 of an inch thick is to be placed on the old dry hole marker stand pipe 2 inches from ground level, in the Lesser Prairie Chicken habitat area.
- 2. Steel plate may be welded or bolted approximately 2 inches from ground level on the stand pipes. If plates are bolted to the stand pipe, the person installing the plate will be required to weld a pipe collar on the plate and place a minimum of two set screws/bolt on each collar. Aluminum data plates may be bolted with minimum ¼ inch bolt and locking nuts or self tapping fine threaded screws. A minimum of one in each corner is to be installed on each plate.
- 3. An 8 inch x 8 inch aluminum plate, which is 12 gauge or .080 sign material (1/8 inch aluminum plate may be used in place of the .080 plate) with the required information for that well stamped or engraved in a minimum 3/8 inch tall letter or number.
- 4. The following information will be stamped or engraved on the 8 inch X 8 inch aluminum plate in the following order.
 - a. First row: Operators name
 - b. Second row: Well name and number
 - c. Third row: Legal location to include ¼ ¼, Section, Township, and range. If the legal location cannot be placed on one row it can be split into two rows with the ¼ ¼ (example: 1980 FNL 1980 FWL) being on the top row.
 - d. Fourth row: Lease Number and API number.
 - i. Example marker plate: (attached)

NMOCD Order No. R-12965 also required 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 ground level dry hole marker was installed as required in the COA's from the BLM.



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 predisturbance 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, redistribute 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 Environmental Protection Specialist 575-234-5909, 575-361-2648 (Cell)

Terry Gregston Environmental Protection Specialist 575-234-5958

Bobby Ballard Environmental Protection Specialist 575-234-2230

Randy Rust Natural Resource Specialist 575-234-5943

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 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

Doug Hoag Civil Engineering Technician 575-234-5979

Tanner Nygren Natural Resource Specialist 575-234-5975

John Fast Natural Resource Specialist 575-2345996