

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

UCD-HOBBS

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**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.*

**HOBBS OCD**  
**RECEIVED**  
JAN 03 2018

5. Lease Serial No. NMNM68820 ✓
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <b>WDW</b>	8. Well Name and No. FEDERAL 19 01
2. Name of Operator <b>ENDURANCE RESOURCES LLC</b> ✓ Contact: ABIGAIL MONTGOMERY E-Mail: Abbym@bcmmandassociates.com	9. API Well No. 30-025-24676-00-S1 ✓
3a. Address 203 WEST WALL SUITE 1000 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-580-7161
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T23S R34E NENE 660FNL 660FEL ✓	10. Field and Pool or Exploratory Area WILDCAT;WOLFCAMP
	11. County or Parish, State LEA COUNTY, NM

COG

12. CHECK THE 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/
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans <input checked="" type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Aban
	<input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> Water Disposal

INT TO PA **pm**  
P&A NR \_\_\_\_\_  
P&A R \_\_\_\_\_

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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

- Set CIBP @ 5100'. Circulate hole w/ mud laden fluid. Pressure test csg. Spot 45 sx @ 5100-4800'. WOC & Tag.
- Spot 45 sx cmt @ 4490-4390'.
- Spot 45 sx cmt @ 3086-2950'. (8 5/8 Stub)
- Perf & Sqz 45 sx cmt @ 2000-1900'. WOC & Tag
- Perf & Sqz 75 sx cmt @ 690-590'. WOC & Tag
- Perf & Sqz 75 sx cmt @ 100'-Surface.
- Cut off well head, verify cmt to surface, install Dry Hole Marker.

*Follow attached COA's for approved abandonment*

**SUBJECT TO LIKE APPROVAL BY STATE**

**SEE ATTACHED FOR CONDITIONS OF APPROVAL**

**APPROVED**

**WITNESS**

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #382679 verified by the BLM Well Information System</b> <b>For ENDURANCE RESOURCES LLC, sent to the Hobbs</b> <b>Committed to AFMSS for processing by PRISCILLA PEREZ on 09/20/2017 (17PP0623SE)</b>	
Name (Printed/Typed) <b>ABIGAIL MONTGOMERY</b>	Title <b>AGENT</b>
Signature (Electronic Submission)	Date <b>07/26/2017</b>

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <b>Paul R. [Signature]</b> <b>12/12/2017</b>	Title <b>TPET</b>	Date
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 <b>BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE</b>		

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.

(Instructions on page 2) **\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

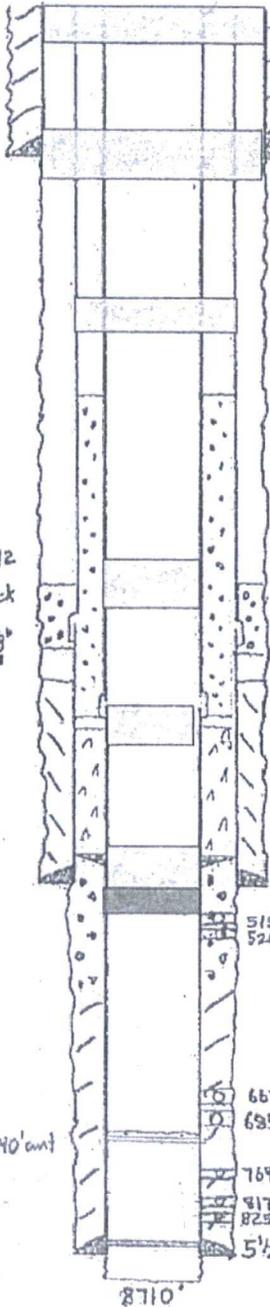
**FOR RECORD ONLY**  
**MW/OCD 01/03/18**

30-025-24676

Federal 19-1 SWD  
660' FNL, 660' FEL  
A-19-23s-31e  
Lea, NM

Zero:  
KIB:  
GL: 3500'

17 1/2'



6. Perf & Sqz 75 sx cmt @ 100'-Surface.

13 7/8" / 54 @ 639' 425 sx 'C' (casing)

5. Perf & Sqz 75 sx cmt @ 690-590'. WOC & Tag

4. Perf & Sqz 45 sx cmt @ 2000-1900'. WOC & Tag

TDC 2380' Calc

3. Spot 45 sx cmt @ 3086-2950'. (8 5/8 Stub)

TDC ??

8 5/8" collapsed, 3500-3927' & swaged out

TDC 3790' T5

2. Spot 45 sx cmt @ 4490-4390'.

Cut & pull csg from 4440' Tieback to surface 5 1/2" / 15.5 & cement 300 sx 'C' 493

1. Set CIBP @ 5100'. Circulate hole w/ mud laden fluid. Pressure test csg. Spot 45 sx @ 5100-4800'. WOC & Tag.

5 1/2" / 15.5, 17 / K55 Tieback 0-4840' 50 sx 'C'

8 5/8" / 24.32 @ 4901' 300 sx 'C'

Corroded casing ± 5040 - 6670'

6670 - ???

6856 - 6883' (21)

6758 - 6768' (20)

7690 - 7730'

8174 - 92'

8256 - 87' (21)

(8074 - 8092' ??)

(8256 - 8305' ??)

5 1/2" / 17 / K55

Liner 4840 - 8564' 450 sx H, 5/2 liner top 100 sx C

150 sx 'C' 7/92  
8 5/8" tieback  
0 - 3033'  
Cut & pull 8 5/8"  
from 3036'

11"

7 1/8"

CIBP 695' + 40' amt

CIBP 8550'

4 3/4"

8710'

32.2955856  
-103.5027542

30-025-24676

Federal 19-1 SWD  
660' FNL, 660' FEL  
A-19-23s-31e  
Lea, NM

Zero:  
HOB:  
GL: 3500'

SWD-1067  
6670-6883'  
1334 psi max  
Feb 6, 2007

17 1/2"

13 7/8" / 54 @ 639' 4255x"C" (circ)

Lamar 5010'  
Ramsey 5050'  
Bone Spring 8548'

7 1/2"

11"

TDC 2380' Calc

1505x"C" 7/92  
8 5/8" Tieback  
O-3037  
Cut & pull 8 5/8"  
from 3036'

TDC ??

8 5/8" collapsed 3500-3827'  
& swaged out

TDC 3790' 75

Cut & pull csg from 4440' Tieback to surface 5 1/2" / 15.5 & cut 3005x"C" 4/93

5 1/2" / 15.5, 17 / K55 Tieback O-4840' 505x"C"  
8 5/8" / 24, 32 @ 4901' 3005x"C"

5153-5166' Spz 505x"C"  
5205-5206' Spz 405x" cut

Corroded  
Casing  
± 5040 - 6670'

7 1/8"

6670 - ??? 6758-6768' (2D)  
6956-6883' (21)

CIBP 6956' + 40' cut

7690-7730'  
8174-92' (8074-8092' ??)  
8256-87' (21) (8256-8345' ??)

CIBP 8550'  
4 3/4"

5 1/2" / 17 / K55 Liner 4840-8564' 4505x H, Spz liner top 1005x"C"

8710'

32.2956856  
-103.5027542

**Bureau of Land Management  
Carlsbad Field Office  
620 East Greene Street  
Carlsbad, New Mexico 88220  
General Plugback & Plg Guidelines**

1. Within a wellbore, all penetrated formation tops of usable-quality water, oil, gas, or geothermal bearing resources, prospective valuable deposit of minerals, and/or receive disposal fluids with a potential to migrate between formations via the wellbore shall be isolated with cement plugs covering the drilled wellbore diameter from 50ft or more below to 50ft or more above when abandoned.
2. Casing shoes, casing stubs, liner tops, and DV Tools shall be isolated with cement plugs covering the drilled wellbore diameter from 50ft or more below to 50ft or more above.
  - a. Below 7500ft, use Class "H" neat cmt mixed 16.4#/gal, 1.06ft<sup>3</sup>/sx, 4.3gal/sx water, with a WOC time of 8hrs..
  - b. Above 7500ft, use Class "C" neat cmt mixed 14.8#/gal, 1.32 ft<sup>3</sup>/sx, 6.3gal/sx water, with a WOC time of 4hrs.
3. Mix formation isolation cmt plugs (**never use less than 25sx**) for a vertical depth of 100ft plus 10ft for every 1,000ft to the bottom of the plug, rounding the number of necessary sacks up to the nearest 5 sacks.
  - a. A plug set from 8000ft in 7" casing with bonded cement would require 180ft of cement slurry or 35sx.
  - b. A 25sx plug set from 800ft in 5 ½" csg with bonded cement will cover 250ft. The plug will exceed 100ft plus 10ft per 1000ft.
4. Verify all plug tops by tagging with tbg and always pressure test cmt plugs set above wellbore flow.
5. Place mud (25sx saltwater gel/100bbls mixed in 9lb/gal brine) between plugs.
6. If at plug depth cmt/csg bonding is missing, perforate at lowest plug depth and sqz cmt behind csg or cut and pull csg prior to cementing the drilled wellbore diameter.
7. Within a formation isolate with:
  - a. A cmt plug at the bottom of open hole completions.
  - b. Two 100ft plugs for a extremely thick single formation In open hole. The plugs are to cover from 50ft or more below to 50ft or more above the formation base and from 50ft or more below to 50ft or more above the formation top.
  - c. A cmt plug opposite open perforations with cmt/csg bonding. Extend the plug 50ft or more below to 50ft or more above the perf'd interval.
  - d. A CIBP set less than 100' above open perfs with cmt/csg bonding.
  - e. Dump bail 35'of cmt on top of CIBP(s) set to abandon the lower nonproducing perforations within a formation.
  - f. A balanced cmt plug set with tbg above the topmost CIBP of a formation.
8. Space cmt plugs no more than 2000ft apart in open hole and no more than 3000ft apart in cased hole.
9. In the designated R-111-P Secretary Potash Area, balance a solid cmt plug from 50ft or more below to 50ft or more above the salt section in the drilled wellbore diameter. Mix this cmt slurry with 10lb/gal brine common to this salt section and no more than 03% CaCl wt. to cmt wt. whenever possible.
10. Outside the R-111-P area, isolate the salt section by placing a cmt plug from 50ft or more below to 50ft or more above the base of salt and top of salt section.
11. Isolate a drilled wellbore from the Capitan Reef and Cave Karst horizons by placing a cmt plug from 50ft or more below to 50ft or more above the base.
12. Set a cmt plug to surface (less than 25sx OK) from 60ft or below ground level. Verify the drilled wellbore diameter plugged with cmt and no annular space extends to the surface from the drilled hole below.

Operator: Endurance Resources LLC  
 Surface Lease: NM68820 BHL: NM68820  
 Case No: NM68820 Lease Agreement

**Subsurface Concerns for Casing Designs:**

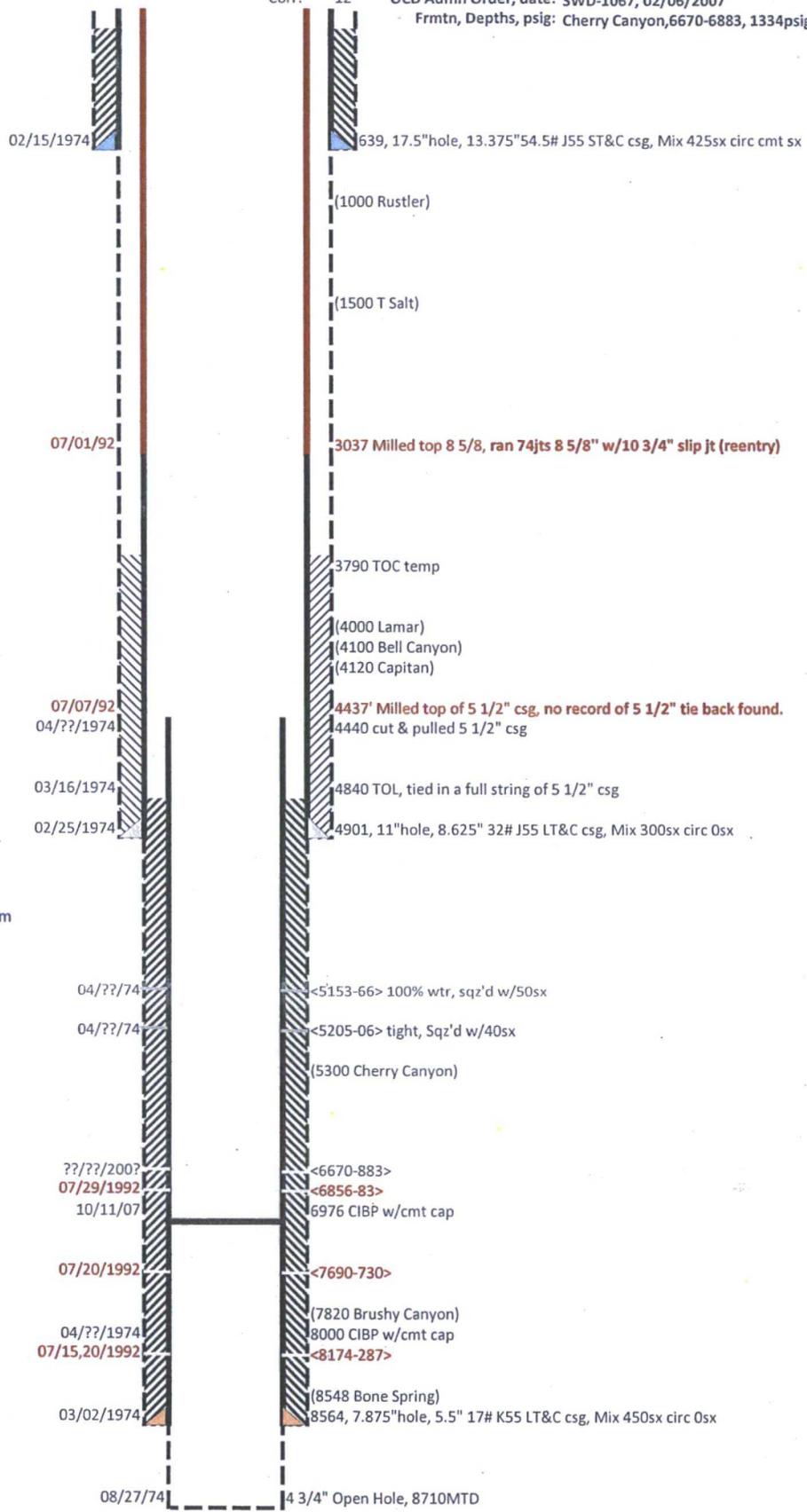
Well Status: SWD  
 Spud date: 2/14/1974  
 Plug'd Date: 12/23/1974  
 Reentry Date: 06/29/92

Well: FEDERAL 19-1  
 API: 3002524676  
 @ Srfce: T23S-R34E,19.660n660e  
 @ MTD: T23S-R34E,19.660n660e

KB: 3515  
 GL: 3503  
 Corr: 12

Estate: SIF  
 CWDW, R of W:  
 OCD Admn Order, date: SWD-1067, 02/06/2007  
 Frmtn, Depths, psig: Cherry Canyon,6670-6883, 1334psig

10/11/2007 CTI, MIT held 360-380psig 30m  
 09/25/2013 MIT held 370-360psig 30m



## Conditions of Approval

**Endurance Resources LLC  
Federal - 01, API 3002524676  
T23S-R34E, Sec 19, 660FNL & 660FEL  
December 12, 2017**

1. **Within 90 days of these conditions of approval for the processed Electronic Submission #382679 notice of intent begin wellbore operations or request an extension.**
2. **Operator is required to have the BLM approved NOI procedure with applicable conditions of approval on location during this workover operation.**
3. **Conditions of Approval reflect a procedure based on available documentation for this wellbore. The BLM workover witness and NOI approver may adjust operations so as not to hinder achievable abandonment requirements.**
4. Subject to like approval by the New Mexico Oil Conservation Division.
5. Notify 575-393-3612 Lea Co as work begins. If there is no response leave a voice mail with the API#, workover purpose, and a call back phone number.
6. Surface disturbance beyond the existing pad must have prior approval.
7. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
8. Functional H<sub>2</sub>S monitoring equipment shall be on location.
9. Blow Out Prevention Equipment 2000 (2M) to be used. All BOPE and workover procedures shall establish fail safe well control. Ram(s) for the work string(s) used is required equipment. Manual BOP closure system including a blind ram and pipe ram(s) designed to close on all (hand wheels or automatic locking devices) equipment installed regardless of BOP design. Function test the installed BOPE to 500psig when well conditions allow. Related equipment, (choke manifolds, kill trucks, gas vent or flare lines, etc.) employed when needed for reasonable well control requirements.
10. Created operation waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during any other crew-intensive operations.
11. The BLM PET is to run tbg tally and agree to cement volumes and placement. Sample each plug for cement curing time and tag and/or pressure test as requested by BLM PET witness.
12. **Cementing procedure is subject to the next three numbered paragraphs.**
13. Mix cement plugs to cover a minimum of 100ft plus 10ft for every 1,000ft to the bottom of the plug, rounding the number of necessary sacks up to the nearest 5 sacks. Never use less than 25sx. Examples: A cement plug set at 8000 in 7" casing would require a min of 35sx. A 25sx plug in 5 ½" casing should cover 250ft, which may exceed 100ft plus 10ft per 1000ft.
14. Class H > 7500ft & C < 7500ft) neat cement plugs(s) will be necessary. For any plug that requires a tag or pressure test a minimum WOC time of 4 hours(C) & 8 hours(H) is

- recommended. Isolation plugs of Class "C" neat cement to be mixed 14.8#/gal, 1.32 ft<sup>3</sup>/sx, 6.3gal/sx water and Class "H" neat cement to be mixed 16.4#/gal, 1.06ft<sup>3</sup>/sx, 4.3gal/sx water.
15. Minimum requirement for mud placed between plugs is 25 sacks of saltwater gel per 100 barrels in 9 lb/gal brine.
  16. Clean out the wellbore to the MTD 8710 in open hole.
  17. Set a 25sx balanced "H" cmt plug (calc'd for 4 3/4" open hole) from MTD 8710'. WOC, and tag the plug with tbg at 8490' or above covering the bottom of open hole, the 5 1/2" csg shoe and the Bone Spring formation top.
  18. Set a min 50sx balanced "H" cmt plug on a CIBP set within 100' of the top perf 8174'. WOC, and tag the plug with tbg at 7760' or above over the Brushy Canyon.
  19. Pressure test the casing to 500psig after a CIBP is set within 100' of the top perf 6670'
  20. Set a min 25sx balanced "C" cmt plug on a CIBP set within 100' of the top perf 6670'. WOC, and tag the plug with tbg at 6400' or above over the Cherry Canyon top perf.
  21. Set a min 25sx balanced "C" cmt plug from 5380'. WOC, and tag the plug with tbg at 5130' or above over the Cherry Canyon formation top.
  22. Set a min 25sx balanced "C" cmt plug from 4970'. WOC, and tag the plug with tbg at 4740' or above over the 8 5/8 csg shoe.
  - \* → 23. Set a min 65sx balanced "C" cmt plug from 4170' in the 8 5/8 csg. WOC, and tag the plug with tbg at 3930' or above over the Base of Salt, Lamar, and Bell Canyon formation top.
  24. Pull a freepoint on the 8 5/8" csg. Cut and pull the 8 5/8" from as deep as possible (3790' was the TOC recorded by a temperature survey).
  25. Set a 70sx "C" cmt plug from 50' or more inside the 8 5/8" csg stub. WOC, and tag the plug with tbg 140' or more above the total plug depth.
  26. Set a 70sx "C" cmt plug in open hole from 1570' or below across the Top of Salt. WOC, and tag the plug with tbg at 1440' or above.
  27. Set a 70sx "C" cmt plug in open hole from 700' across the 13 3/8" srf csg shoe. WOC, and tag the plug with tbg at 580' or above.
  28. Perf at 60' or below. Establish circulation through the 13 3/8" csg x 17 1/2" hole annulus. Fill with (±20sx) balanced "C" cmt plug and verify the 13 3/8" csg from 60' cemented to surface.
  29. File subsequent sundry Form 3160-5 within 30 days of workover procedures. Include (dated daily) descriptions of the well work, i.e. procedure descriptions and setting depths of each plug in the subsequent sundry.

\* NEED CMT PLUG ACROSS 8 5/8" TIE BACK AT 4440' MW/DCD

## Reclamation Objectives and Procedures

In Reply Refer To: 1310

**Reclamation Objective:** 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 needed. This will apply to well pads, facilities, and access roads. Barricade all access road(s) at the starting point. If reserve pits have not been adequately reclaimed due to salts or other contaminants, propose a plan for BLM approval to provide restoration of the pit area.

1. The Application for Permit to Drill or Reenter (APD, Form 3160-3), Surface Use Plan of Operations should have included 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 locations and/or access roads not having an approved plan, or an inadequate plan for surface reclamation the operator must submit a proposal describing the procedures for reclamation. The appropriate time for submittal would be when filing the Notice of Intent, or with the Subsequent Sundry Report of Abandonment on Form 3160-5. The final reclamation goal is to be completed within 6 months of wellbore abandonment.
3. With 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 may 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.
4. Upon reclamation conclusion submit a Form 3160-5, Subsequent Report of Reclamation. This will prompt a BLM specialist to inspect the location to verify work was completed as per approved plans.
5. The BLM approved Subsequent Report of Reclamation will be your notice that the native soils, contour and seedbed have been tentatively reestablished. If the objectives have not been met BLM will be notify the operator of the required corrective actions.
6. It is the responsibility of the operator to monitor these locations and/or access roads until such time the full 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 full 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 a BLM specialist will again 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 for 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)

Robertson, Jeffery  
Natural Resource Specialist  
575-234-2230, 575-706-1920 (Cell)

Trishia Bad Bear  
Natural Resource Specialist  
575-393-3612, 575-390-2258 (Cell)

Vance Wolf  
Natural Resource Specialist  
575-234-5979

Jesse Bassett  
Natural Resource Specialist  
575-234-5913, 575-499-5114 (Cell)

Brooke Wilson  
Natural Resource Specialist  
575-234-6237

Paul Murphy  
Natural Resource Specialist  
575-234-5975, 575-885-9264 (Cell)

Arthur Arias  
Environmental Protection Specialist  
575-234-6230, 575-499-3378 (Cell)

Henryetta Price  
Environmental Protection Specialist  
575-234-5951, 575-706-2780 (Cell)

Shelly Tucker  
Environmental Protection Specialist  
575-234-5905, 575-361-0084 (Cell)

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