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Form 3160-5 (June 2015) DE	UNITED STATES EPARTMENT OF THE II UREAU OF LAND MANA	S NTERIOR GEMENT	OCT 2 0 20	FORM 7 OMB N Expires: J	APPROVED IO. 1004-0137 anuary 31, 2018	
SUNDRY Do not use thi abandoned we	NOTICES AND REPO is form for proposals to II. Use form 3160-3 (API	RTS ON WELLS drill or to re-enter an D) for such proposals.	•	 Lease Serial No. NMNM33015 If Indian, Allottee 	or Tribe Name	
SUBMIT IN	TRIPLICATE - Other inst	ructions on page 2		7. If Unit or CA/Agre	eement, Name and/or No.	
1. Type of Well □ Oil Well ⊠ Gas Well □ Oth	ner			8. Well Name and No WEST FORK 1	•	
2. Name of Operator COLEMAN OIL & GAS INCOR	Contact: RPORATEIMail: mhanson@	MICHAEL T HANSON		9. API Well No. 30-045-25632-0	00-S1	
3a. Address FARMINGTON, NM 87499		3b. Phone No. (include area Ph: 505-327-0356 Ext: Fx: 505-327-9425	code) 106	10. Field and Pool or BASIN FRUITL GALLEGOS GA	Exploratory Area AND COAL ALLUP	
4. Location of Well <i>(Footage, Sec., T</i> Sec 14 T26N R12W NENW 09 36.492800 N Lat, 108.084060	, R., M., or Survey Description, 940FNL 1560FWL W Lon)		11. County or Parish, State SAN JUAN COUNTY, NM		
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICATE NATUF	RE OF NOTICE	, REPORT, OR OTI	HER DATA	
TYPE OF SUBMISSION		TYI	PE OF ACTION			
 Notice of Intent Subsequent Report Final Abandonment Notice 13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the work 	 Acidize Alter Casing Casing Repair Change Plans Convert to Injection 	□ Deepen □ Hydraulic Fractu □ New Constructio ☑ Plug and Abando □ Plug Back nt details, including estimated a give subsurface locations and it the Bond No. on file with BLM	Produc ring Reclam Recom Produc Reclam Recom Produc Reclam Recom Recom Produc Reclam Recom Recom Starting date of any p measured and true v d/BIA. Required su	tion (Start/Resume) nation plete rarily Abandon Disposal proposed work and appro ertical depths of all pertin ibsequent reports must be	Water Shut-Off Well Integrity Other	
determined that the site is ready for fi Coleman Oil & Gas proposes Reclamation Plan will be subn and Tuesday September 26, 2	to P&A this well per the an inted following onsite. On 2017.	ttached procedure. site scheduled for Friday	September 20,	2017	and the operator has	
			Notii prie	fy NMOCD 24 hrs or to beginning operations		
14. I hereby certify that the foregoing is Con Name (Printed/Typed) MICHAEL	true and correct. Electronic Submission #3 For COLEMAN OIL & mmitted to AFMSS for proc T HANSON	390048 verified by the BLN GAS INCORPORATED, s essing by JACK SAVAGE Title EN	I Well Informatio ent to the Farmin on 10/18/2017 (1 GINEER	n System Igton 8JWS0011SE)		
Signature (Electronic S	ubmission)	Date 09/	27/2017	<i></i>		
	THIS SPACE FO	R FEDERAL OR STA	TE OFFICE U	SE		
Approved By_JACK SAVAGE Conditions of approval, if any, are attached certify that the applicant holds legal or equ which would entitle the applicant to condu	d. Approval of this notice does itable title to those rights in the ct operations thereon.	not warrant or subject lease Office Far	OLEUM ENGIN	EER	Date 10/18/2017	
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a statements or representations as	crime for any person knowing to any matter within its jurisdi	y and willfully to m ction.	ake to any department or	agency of the United	
(Instructions on page 2) ** BLM REV	ISED ** BLM REVISED	** BLM REVISED **	BLM REVISE	D ** BLM REVISE	D **	
	NR	MOCD ~			21	

PLUG AND ABANDONMENT PROCEDURE

September 7, 2017

West Fork #1

Basin Fruitland Coal / Gallegos Gallup 940' FNL and 1560' FWL, Section 14, T26N, R12W San Juan County, New Mexico / API 30-045-25632

- Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.
 - 1. This project will use of an A-Plus steel waste tank to contain waste fluids circulated from the well and cemerit wash up.
 - Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
 - 3. Rods: Yes _____, No ____, Unknown _____. Tubing: Yes __X__, No ____, Unknown _____, Size __2-3/8" , Length __5210' _____. Packer: Yes __X___, No _____, Unknown _____, Type __Arrowset 1X packer at 1539.79 _____. If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
 - 4. NOTE: BLM requires a CBL log to be run on all wells where the cement did not circulate to surface or where a CBL log was not previously run. This procedure is prepared with the understanding that it may be modified based on the TOC from the CBL.
 - 5. Plug #1 (Gallup perforations and top, 5033' 4855'): Round trip mill or casing scraper to 5033', or as deep as possible. RIH and set 4.5" cement retainer 5033'. Pressure test tubing to 1000 PSI. Load casing with water and circulate well clean. Pressure test casing to 800<u>#. If casing does not test then spot or tag subsequent plugs as appropriate.</u> Mix 20 sxs Class B cement (excess due to open FtC perfs) inside casing from 5033' to isolate the Gallup perforations and top. PUH and WOC. TI H and tag cement. If necessary top off plug.
 - Plug #2 (Mancos top, 3955' 3855'): Spot 15 sxs Class B cement (excess due to open FtC perfs) and spot an underbalanced plug inside casing to cover the Mancos top. PUH and WOC. TIH and tag cement. If necessary top off plug.
 - 7. Plug #3 (Mesaverde and Chacra tops, 2320' 1785'): Spot 47 sxs Class B cement (excess due to open FtC perfs) and spot an underbalanced plug inside casing to cover the Mesaverde and Chacra tops. PUH and WOC. TIH and tag cement. If necessary top off plug.

- 8. Plug #4 (Pictured Cliffs and Fruitland tops, 1332' 1080'): RIH and set 4.5" CR at 1332'. Spot 23 sxs Class B cement and spot a balanced plug inside casing to cover the Pictured Cliffs and Fruitland tops. PUH.
- Plug #5 (8.625" casing shoe, 475' 0'): Perforate squeeze holes at 475'. Establish circulation our bradenhead with water and circulate the BH annulus clean. Mix approximately 155 sxs Class B cement and pump down the 4.5" casing and circulate good cement out BH to surface. Shut in well and WOC.
- 10. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors. Restore location per BLM stipulations

COLEMAN OIL GAS, INC. WEST FORK #1



Page 1

9/27/2017

West Fork #1 **Proposed P&A** Basin Fruitland Coal / Gallegos Gallup Today's Date: 9/7/17 Spud: 4/1/83 940' FNL, 1560' FWL, Section 14, T-26-N, R-12-W Completed: 11/9/97 San Juan County, NM, API #30-045-25632 Elevation: 6173' GL 6187' KB 8-5/8" 24#, Casing set @ 225' 12.25" hole Cement with 177 cf, circulated Ojo Alamo @ 270' Plug #5: 475' - 0' Class B cement, 155 sxs Kirtland @ 425' Perforate @ 450' TOC based on T.S. 450'. Fruitland @ 1130' Plug #4: 1332' - 1080' Set CR @ 1332' Class B cement, 23 sxs Fruitland Coal Perforations: 1382' - 1398' Pictured Cliffs @ 1400' DV Tool at 1669' 3rd Stage: Cement with 595 sxs Chacra @ 1835' Plug #3: 2320' - 1785' Class B cement, 47 sxs (excess due to open perfs) Mesaverde @ 2270' Plug #2: 3955' - 3855' Mancos @ 3905' Class B cement, 15 sxs (excess due to open perfs) DV Tool at 4213' 2nd Stage: Cement with 720 sxs TOC unknown, did not circulate Plug #1: 5033' - 4855' Gallup @ 4905' Set CR @ 5033' Class B cement, 20 sxs (excess due to open perfs) Gallup Perforations: 5083' - 5278' 4.5",10.5#, Casing set @ 5364' 1st Stage: Cement with 105 sxs 7-7/8" hole TD 5365' PBTD 5320'

Form 9–331 Doc. 1973	 Form Approved. Budget Bureau No. 42–R1424
UNITED STATES	5. LEASE
DEPARTMENT OF THE INTERIOR	NM - 33015
GEOLOGICAL SURVEY	G. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
	B. FARM OR LEASE NAME.
well 🖸 gas 🔯 other	9. WELL NO.
2. NAME OF OPERATOR	<u>#1</u>
Southland Royalty Company	Gallegos Gallun Alon Str
P.O. Drawer 570, Farmington, NM 87499	11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA
below.) At surface: 940' FNL & 1560' FWL	Section 14, T 26N, R12W
AT TOP PROD. INTERVAL:	San Juan New Mexico
AT TOTAL DEPTH:	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
	13. ELEVATIONS (SHOW DF, KDB, AND WD)
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF	
FRACTURE TREAT	
SHOOT OR ACIDIZE	Girs I
PULL OR ALTER CASING \Box $\overleftarrow{\mu}^{PR}$	(NOTE: Report results of multiple completion or zone
	AL SURVER AL N. M.
ABANDON*	
(other) Spud & Surface Casing X	· · ·
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly sta including estimated date of starting any proposed work. If well is measured and true vertical depths for all markers and zones pertine	te all pertinent details, and give pertinent dates, directionally drilled, give subsurface locations and nt to this work.)*
I-1-83 Spudded 12-1/4" surface hole on 4-1-83 at 230'. Set five joints (212') of 8-5/8", 2 with 177 cubic feet of Class "B" containin pm on 4-1-83. Cement circulated to surface	1:30 pm and drilled to a TD of 4#, casing at 226'. Cemented g 3% CaCL2. Plug down at 7:30 e.
	ARE D
Subsurface Safety Valve: Manu. and Type	Set @ Pt] V.
18. I hereby certify that the foregoing is true and correct	e137 3
SIGNED MULTIPLE Secretary	DATE April 8, 1983
APPROVED BY TITLE TITLE CONDITIONS OF APPROVAL, IF ANY:	ALCEFILU FOR RECORD
*See Instructions on Reverse	Side APR 1 4 1993
	, FARMINGTON (ASTRICT
NMOCC	er ftk

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20. TOTAL DEPTH, MD 4	TVD 21. PLOT	3 1 47-	No 22.	LP MULT	IPLE COMPL.	,	23. INTE	RTALS	BOTA	BY TOOLS		CABLE TOOLS	-
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				[2-3/8	— -		<u>4/ ·</u>	·	<u>,</u>	
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35. LIST OF ATTACH	MENTS	·····							1 10	m wag	ner		
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36. I hereby certify	that the foregoi	ng and attached in	formatio	n is comp	lete and cor	rect a	s determin	ed from	all av	Linkle, Fe	6-24	TUR RECORD	Γ
SIGNED	K E.	Tille		D	istrict	Eng	ineer			DATE	_	May 27, 19	83
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	*(Se	e Instructions a	nd Spac	es for A	dditional	Date	a on Reve	erse Si	de)			/	
					MUSC		•			FAR	AINO	OH DISTRICT	
									CY	<u>X</u>	10	List	

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments

should be listed on this form, see item 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 16: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments, item 52 ead 24: If this well is completed for separate production from more than one interval some (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Nem 29: "Sacks Coment": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. Item 33: Sublait a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

87. SUMMARY OF PORQUE ZONES :

8-5/8" casing cemented with 177 cu.ft. of Class "B" with 3% CaCl2. PD at 7:30 PM 4-1-83. Cmt circulated. 4-1/2" casing cemented 1st stage with 124 cu.ft.of Class "B" with 1/4# celloflake per sack and 2% CaCl2. PD @ 11:00 PM 4-9-83. 2nd Stge cmtd w/846 cu.ft. of Class "B" 50/50 Poz, 1/4# celloflake, tailed in wtih 59 cu.ft. Class "B" w/2% CaCl2. PD @ 1:45 AM 4-10-83. 3rd Stge cmtd w/687 cu.ft. Class "B" 50/50 POZ with Item #28 6% gel, 1/4# celloflake, tailed in w/59 cu.ft. Cl B w/2% CaCl2. PD @ 6:30 AM 4-10-83. TOC @ 450'

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		TOP	
ESTIMATED				NAMB	MRAS. DEPTH	TROS VERT. DEPTH
Ojo Alamo Fruitland Pictured Cliffs DV Tool Chacra Cliff House Point Lookout DV Tool Gallup Total Depth	270' 1130' 5 1400' 1669' 1835' 1035 '22' 3905' 4213' 4905' 5365'	70'				
				•		

United States Department of the Interior Bureau of Land Management

Reclamation Plan

Coleman Oil & Gas, Inc

West Fork #1 Plug and Abandonment Project

Prepared by

Michael T. Hanson

Coleman Oil & Gas, Inc. 6540 East Main Farmington, New Mexico 87402

Friday, September 29, 2017

U.S. Department of the Interior Bureau of Land Management Farmington District Farmington Field Office 6251 N. College Blvd., Ste. A Farmington, NM 87402 Phone: (505) 564-7600 FAX: (505) 564-7608 BLM

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Reclamation Plan (Procedure B)

Applicant	Coleman Oil & Gas, Inc.
Project Type	Reclamation of a natural gas well site.
Well, Oil and Gas Lease, or Right-of-Way (ROW)	West Fork #1
Name	
Legal Location	NENW Section 14 (940' FNL, 1560' FWL), Township 26
	North, Range 12 West, New Mexico Principal Meridian, in
	San Juan County, New Mexico
Lease Number(s)	NMNM33015

Introduction

This reclamation plan has been prepared to meet the requirements and guidelines of the Bureau of Land Management (BLM) Farmington Field Office (FFO) Bare Soil Reclamation Procedures (BLM 2013a) and Onshore Oil and Gas Order No. 1.

The Coleman Oil & Gas, Inc contact person for this Reclamation Plan is:

Michael T. Hanson Coleman Oil & Gas, Inc. 6540 East Main Farmington, New Mexico 87402 Phone: (505) 327-0356

Vegetation Reclamation Procedure B

Completion of a Vegetation Reclamation Plan in accordance with Procedure B of the BLM/FFO Bare Soil Reclamation Procedures is required for surface disturbing actions, grants, or permits authorized by the BLM/FFO resulting in bare mineral soil **across an area greater than or equal to 1 acre**, not including a BLM/FFO approved working area. Working areas include areas routinely used to operate and maintain facilities or improvements. The FFO makes no distinction between interim and final revegetation processes and standards are the same for all revegetation activities.

Revision of the Reclamation Plan

Coleman Oil & Gas, Inc may submit a request to the BLM/FFO to revise the Reclamation Plan at any time during the life of the project in accordance to page 44 of the Gold Book (USDI-USDA 2007). Coleman Oil & Gas, Inc will include justification for the revision request.

Project Description

Coleman Oil & Gas, Inc is proposing to plug and abandon the West Fork #1 wellbore and reclaim the well pad and access road. This location and access are located on public lands managed by the BLM Southeast of Bloomfield NM. The following reclamation plan will apply to this proposed future work.

Estimated Total Area of Disturbance

The existing West Fork #1 well pad is approximately 270-foot by 180-foot location with a Maximum of a 2 foot cut and a maximum of a 2 foot fill. The access road is approximately 50 feet by 15 feet wide. The well location is located on allotted surface managed by the BLM. Total surface disturbance as a result of well pad, and access road would be approximately 1.11 acres on public lands managed by the BLM.

The pre-disturbance site visit occurred on September 20, 2017 and again on September 26, 2017. The following persons were present at the site visit (Table 1).

Table 1.

Name	Affiliat	Contact Info
Robert K. Switzer	BLM/FFO	505-564-7709 rswitzer@blm.gov
James Hellekson	Consolidated	505-320-0049
Bruce Taylor	Coleman Oil & Gas, Inc.	505-320-0049 blt5@earthlink.net
Bertha Spencer	BIA Gallup	505-863-8336 bertha.spencer@bia.gov

Vegetation Community

Based on observations made during the pre-disturbance site visit, it has been determined that the vegetation community which best represents the proposed project area is Sagebrush Community. This community is comprised primarily of W yoming big sage with lesser amounts of basin big sage and minor areas of black sage. It is found on all aspects from about 5,000 to 7,200 feet but is most common on southerly and western aspects. Soils vary from clayey to fine sandy loam to loamy in texture with loamy sites being more pervasive.

Proposed Reclamation Seed Mix

Disturbance will be re-contoured and topsoil will be redistributed and prepared for seeding by the construction contractor. Ripping, disking, and seeding of the site will be done by Coleman Oil & Gas, Inc. (or its contractor) using the BLM-approved seed mix, which is shown in Table 2. The proposed reclamation seed mix takes into account the existing vegetation on the proposed project site.

Common Name	Scientific Name	Variety	Season	Form	PLS lbs/acre
Fourwing	Atriplex canescens	VNS	Cool	Shrub	2.0
Winterfat	Krascheninnikovia lanata	VNS	Cool	Shrub	2.0
Indian ricegrass	Achnatherum hymenoides	Paloma or Rimrock	Cool	Bunch	4.0
Blue grama	Bouteloua gracilis	Alma or Hachita	Warm	Sod-forming	2.0
Sand dropseed	Sporobolus cryptandrus	VNS	Warm	Bunch	0.5
Bottlebrush squirreltail	Elymus elymoides	Tusas or VNS	Cool	Bunch	3.0
Small burnet	Sanguisorba minor	Delar	Cool	Forb	2.0
Lewis flax	Linum lewisii	Apar	Cool	Forb	0.25
¹ Based on 60 pure li hydroseeded: "lbs"	ve seeds (PLS) per squa refers to pounds.	re foot, drill seeded; d	ouble this rate (120 P	LS per square foot) if	broadcast or

Table 2. Sagebrush Community Seed Mix

Vegetation Reclamation Standards

Requirements for determining reclamation and if it is successfully completed for the selected vegetation community are determined by the reclamation percent cover standards for the community, as outline in Table 3. These standards must be met during post-disturbance monitoring procedures in order for the BLM/FFO to sign off on the attainment of vegetation reclamation standards.

Table 3. Reclamation Goal for Sagebrush/Grass Community Cover

Functional Group	Percent (%) Foliar Cover	Common Species
Trees/Shrubs/Grasses/Forbs	≥35	Utah Juniper, pin on pine; big sagebrush, four-wing saltbush, antelope bitterbrush, alkali sacaton, Western wheatgrass, Indian ricegrass, galleta, sand dropseed, scarlet globemallow, wooly Indianwheat, fleabane, Penstemon sp., buckwheat, threadleaf groundsel
Invasive/undesirables 10% allowed toward meeting standard of 35%.	≤10	Plants that have the potential to become a dominant species on a site where its presence is a detriment to revegetation efforts or the native plant community. Examples of invasive species include cheatgrass, Russian thistle, and kochia.

Weed Survey

During the site visit, the proposed action area was surveyed for noxious weeds listed on the New Mexico Department of Agriculture's Class A and Class B list. During the survey, noxious weeds were documented within the proposed action area. Noxious Weeds will be sprayed prior to reclamation activity.

Soil Evaluation

The BLM/FFO representative and Coleman Oil & Gas, Inc representative collaboratively decided at the site visit that no soil testing is necessary for the proposed project area.

Reclamation Techniques for Successful Revegetation

Site Clearing

After the well is plugged the wellhead will be cut-off 3' below ground level and a 4" diameter P&A marker will be welded to the casing stub. All flow lines and anchors will be cut-off at least 3' below ground level or removed completely. Cathodic Protection will be dug out 4 feet from surface and if cased will filled cemented and capped at surface. Well site will be kept free of debris. All material and possible contaminated soils will be disposed at an approved disposal site.

Topsoil Replacement

The soil will be moved from the fill side of the pad to the cut side to re-establish the natural contours of the area. Coleman Oil & Gas, Inc. (or its contractor) will take care not to mix topsoil with the underlying subsoil horizons. Topsoil and sub-surface soils will be replaced in the proper order, prior to final seedbed preparation.

Water Management/Erosion Control Features

The BLM/FFO representative and the Coleman Oil & Gas, Inc representative will work in collaboration to develop site-specific erosion control or water management features and to identify installation locations. Sediment basins, sediment traps, check dams, silt fencing, erosion control blankets or geotextiles, and straw wattles will be placed as deemed necessary.

Coleman Oil & Gas, Inc (or its contractors) will use erosion control blankets, straw bales, or straw wattles as appropriate to limit erosion and sediment transport from any stockpiled soils.

Seedbed Preparation

For cut and fill slopes, initial seedbed preparation will consist of backfilling and re-contouring to achieve a configuration as close to pre-disturbance conditions as possible. Areas to be reclaimed will be recontoured to blend with the surrounding landscape, emphasizing restoration of existing drainage patterns and landform to pre-construction condition, to the extent practicable.

Seedbed preparation of compacted areas will be ripped to a minimum depth of 12 inches, with a maximum furrow spacing of 2 feet. Where practicable, ripping will be conducted in two passes at perpendicular directions. Disking will be conducted if large clumps or clods remain after ripping. Any tilling or disking that occurs along the contour of the slope and seed drills will also be run along the contour to provide terracing and prevent rapid run-off and erosion. If broadcast seeding is used, a dozer or other tracked equipment will track perpendicular to the slope prior to broadcast seeding.

Following final contouring, the backfilled or ripped surfaces will be covered evenly with stockpiled topsoil. Final seedbed preparation will consist or raking or harrowing the spread topsoil prior to seeding to promote a firm (but not compacted) seedbed without surface crusting.

Soil Amendments

Off of information gathered at the onsite inspection and as a result of any soil testing conducted for the proposed project area, the Coleman Oil & Gas, Inc. and BLM/FFO representatives have decided collaboratively that no soil amendments will be used during reclamation of the affected environment.

Seeding Requirements

The seed mix chosen for this project is listed in Table 2. Seeding will occur in late July, August, or September, unless authorized by BLM Farmington Field Office, after the well has been plugged and abandoned.

A Truax seed drill or modified rangeland drill that allows for seeding species from different seed boxes at different planting depths will be used to seed the disturbed areas of the project area. Thompson Engineering & Production or its reclamation contractor will ensure that perennial grasses and shrubs are planted at the appropriate depth. Intermediate size seeds (such as wheatgrasses and shrubs) will be planted at a depth of 1 to 2 inches. Small seeds (such as alkali sacaton and sand dropseed) will be planted at a depth of 0.25 inch. In situations where differing planting depths are not practicable using available equipment, the entire seed mix will be planted no deeper than 0.25 inch.

Drill seeding may be used on well-packed and stable soils that occur on gentler slopes and where equipment and drills can safely operate. Where drill seeding is not practicable due to topography, the reclamation contractor will hand-broadcast seed using a "cyclone" hand seeder or similar broadcast seeder. Broadcast application of seed requires a doubling of the drill-seeding rate. The seed will then be raked into the ground so the seed is planted no deeper than 0.25 inch below the surface.

Mulching

Hand seeding with hydro-mulch, excelsior netting, and/or mulch with netting may be required on cut and fill slopes. Mulch should be grass or straw spread at 2,000 to 3,000 pounds per acre, or approximately 1 to 2 inches deep. Mulching will consist of crimping certified weed-free straw or certified weed-free native grass hay into the soil.

Straw or native grass hay mulch can be applied by hand broadcasting or blowing to a relatively uniform depth of 2 to 3 inches, equivalent to a rate of approximately 2 tons per acre (one 74-pound bale per 800 square feet). When applied properly, approximately 20 to 40 percent of the original ground surface will be visible.

Straw or native grass hay mulch will then be anchored using one of the following methods:

- Hand Punching a spade or shovel is used to punch mulch into the topsoil at 1-foot intervals until all areas have mulch standing perpendicular to the slope and the mulch is embedded at least 4 inches into the soil.
- Roller Punching a roller is used to spread mulch over an area; the roller is equipped with straight studs not less than 6 inches long, from 4 to 6 inches wide, and approximately 1 inch thick.
- Crimper Punching similar to roller punching, a crimper is used over the soil. The crimper has serrated disk blades about 4 to 8 inches apart that force the mulch into the soil. Crimping should be done in two directions with the final pass across the slope.

Mulch applications in extremely clayey soils should be evaluated carefully to avoid developing an adobe mixture. In these cases, a soil amendment may be beneficial.

Noxious and Invasive Weed Control

Should noxious or invasive weeds be documented before or after earthwork and seeding activities, the BLM/FFO weed coordinator will provide Coleman Oil & Gas, Inc with specific requirements and instructions for weed treatments, including the period of treatment, approved herbicides that may be used, required documentation to be submitted to the BLM/FFO after treatment, and any other site-specific instructions that may be applicable.

Monitoring Requirements

Monitoring will be completed according to BLM/FFO Bare Soil Reclamation Procedure B (BLM 2013b). Monitoring activities will be initiated after the project is completed, during the postdisturbance earthwork and seeding inspection process.

Post-Reclamation Monitoring Initiation

After the well has been plugged and the reclamation work and seeding have been completed, a post-disturbance inspection at the project site will occur. The BLM/FFO representative (in collaboration with Coleman Oil & Gas, Inc) will determine site-specific monitoring locations for photo point monitoring and vegetation line point intercept transects, if necessary. The BLM/FFO will collect GPS data on the monitoring locations, take the initial monitoring photographs, and complete the initial monitoring report within 60 days of the post-disturbance earthwork and seeding inspection. The initial report will be available from the BLM/FFO.

Post-Reclamation Monitoring Photographs

The minimum photo points necessary to document post-disturbance monitoring (including annual monitoring and long-term monitoring) are described in Table 5. Photographs will be taken with a digital camera without zoom or wide-angle adjustments. GPS coordinates for each photo point will be provided by the BLM/FFO in the initial monitoring report and subsequently included with each photograph in the annual monitoring report.

Photo Point	Photographs	Location Description

Table 5. List of Minimum Required Post-Disturbance Monitoring Photographs

Annual Monitoring

Coleman Oil & Gas, Inc will begin annual monitoring of the photo points and the vegetation line point intercept transects 2 calendar years after the completion and approval of the final earthwork and seeding. Monitoring may occur any time of the year. A completed monitoring report of the permanent photo points will be submitted by Coleman Oil & Gas, Inc to the BLM/FFO by December 31 of the year the site is monitored. Within 60 days after receipt, the BLM/FFO will acknowledge that the report has been received and evaluated.

Vegetation line point intercept transects will be monitored annually until attainment of vegetation reclamation cover standards have been met. Coleman Oil & Gas, Inc will keep a record of the monitoring for future submittal to the BLM/FFO at reclamation attainment.

Attainment of Vegetation Reclamation Standards

When vegetation on a reclaimed site appears to meet the required percent revegetation standard, Coleman Oil & Gas, Inc will submit to the BLM/FFO a written request for concurrence that revegetation standards have been attained. The request will include all annual transect data sheets and a current set of monitoring photographs. The BLM/FFO will review the request and approve or deny the request within 60 days of receipt. If the request is denied, the BLM/FFO may initiate a site inspection within 60 days of the denial to analyze the site and determine if remedy actions may be appropriate.

Long-Term Monitoring

After the required percent revegetation standard has been attained, Coleman Oil & Gas, Inc will begin long-term monitoring. Every fifth year after attainment, Coleman Oil & Gas, Inc will monitor the site at all established photo points to ensure the site remains productive and stable. A completed monitoring report of the permanent photo points will be submitted to the BLM/FFO by December 31 of the year the site is monitored. The BLM/FFO will acknowledge that the report has been received and evaluated within 60 days after receipt.

Final Abandonment

If 1 or more acre of bare soil results from earthwork required in preparation for final abandonment, Coleman Oil & Gas, Inc will follow Vegetation Reclamation Plan in accordance with Procedure B of the BLM/FFO Bare Soil Reclamation Procedures (2013a).

Revegetation percent cover standards will be attained, documented, and submitted to the BLM/FFO by Coleman Oil & Gas, Inc or an exception granted before the BLM/FFO will approve a final abandonment notice (FAN) or relinquishment.

Upon final reclamation, the location will be returned to pre-disturbance conditions as practicable.

Cessation of Monitoring

Monitoring requirements will remain in effect as long as the permit, grant, or authorization remains in effect and until all infrastructure or associated facilities are abandoned by established BLM procedure and a FAN or relinquishment is issued by the BLM/FFO. Coleman Oil & Gas, Inc will document that percent cover standards have been attained when submitting a request for a FAN or relinquishment.

References

43 CFR Part 3160, "Onshore Oil and Gas Order No. 1; Onshore Oil and Gas Operations; Federal and Indian Oil and Gas Leases; approval of Operations," 72 Federal Register 44 (march 2007), pp. 10328-10338.

BLM. 2013a. Farmington Field Office Bare Soil Reclamation Procedures. Available at: http://www.blm.gov/nm/st/en/fo/Farmington Field Office/ffo planning/surface use plan of.ht ml. Accessed November 2013.

BLM. 2013b. Updated Reclamation Goals. Available at: http://www.blm.gov/nm/st/en/fo/Farmington Field Office/ffo planning/surface use plan of/updated r ecl amation.html. Accessed November 2013.

U.S. Department of the Interior, U.S. Department of Agriculture (USDI, USDA). 2007. Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development. BLM/WO/ST-06/021+307/REV 07. Bureau of Land Management, Denver, Colorado. 84 pp.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT OFFICE

6251 COLLEGE BLVD. FARMINGTON, NEW MEXICO 87402

Attachment to notice of Intention to Abandon:

Re: Permanent Abandonment Well: West Fork #1

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."

2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.

3. The following modifications to your plugging program are to be made:

- a) Set Plug #2 (4154-4054) ft. to cover the Mancos top. BLM picks top of Mancos at 4104 ft.
- b) Set Plug #4 (1448-1030) ft. to cover the Pictured Cliffs and Fruitland tops. BLM picks top of Pictured Cliffs at 1398 ft. BLM picks top of Fruitland at 1080 ft.
- c) Set Plug #5 (510-0) ft. to cover the 8.625" casing shoe, the Kirtland top, and the Ojo Alamo top. BLM picks top of Kirtland at 460 ft. BLM picks top of Ojo Alamo at 268 ft.

Operator must run a CBL to verify cement top. Submit the electronic copy of the log for verification to the following addresses: jwsavage@blm.gov aelmdadani@blm.gov Brandon.Powell@state.nm.us

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.