District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410

## State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division

Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe

<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
BGT 1	Pit, Below-Grade Tank, or	
Proposed Alter	native Method Permit or Closure P	lan Application
☐ Closure ☐ Modific	of a pit or proposed alternative method of a pit, below-grade tank, or proposed alternati ation to an existing permit/or registration plan only submitted for an existing permitted or	
Instructions: Please submit one	e application (Form C-144) per individual pit, below-	grade tank or alternative request
environment. Nor does approval relieve the operator of	relieve the operator of liability should operations result in its responsibility to comply with any other applicable go	
operator:Roddy Production CO INC	OGRID#:36845	
	ngton, NM 87401	
API Number:30-045-29282	OCD Permit Number:	
	Гownship28N Range11W	
Center of Proposed Design: Latitude36.64	.54544Longitude108.0130615_	NAD83
Surface Owner: ☐ Federal ☐ State ☐ Private ☐	Tribal Trust or Indian Allotment	
String-Reinforced	mil	
3.		
<b>Below-grade tank:</b> Subsection I of 19.15.17.	11 NMAC	
•	Visible sidewalls, liner, 6-inch lift and automatic or	
	alls only Other	
Liner type: Thicknessmil	HDPE PVC Other	
4.		
Alternative Method:	pantians must be submitted to the Santa Es Environment	ental Bureau office for consideration of approval
Submittal of an exception request is required. Exc	ceptions must be submitted to the Santa Fe Environme	and bureau office for consucration of approval.
5.  Fencing: Subsection D of 19 15 17 11 NMAC (4)	pplies to permanent pits, temporary pits, and below-g	rade tanks)
	rbed wire at top (Required if located within 1000 feet	
institution or church)		of a political residence, serious, nospitus,
Four foot height, four strands of barbed wire ev		
☑ Alternate. Please specify Per BLM Specification	ons	
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Form C-144

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adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipal confirmation of the section of the secti	ed. ipality; Written approval obtained from the municipali	ity Yes No
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the	e NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; Society; Topographic map	NM Bureau of Geology & Mineral Resources; USGS;	NM Geological Yes No
Within a 100-year floodplain FEMA map		☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Into by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate Construction/Design Plan of Burial Trench (if application Construction/Design Plan of Temporary Pit (for in-platic Protocols and Procedures - based upon the appropriate Confirmation Sampling Plan (if applicable) - based upon Waste Material Sampling Plan - based upon the appropriate Confirmation Sampling Plan - based upon the appropriate Plan Cover Design - based upon the appropriate requirements of the Cover Design - based upon the appropriate requirements.	coon the appropriate requirements of 19.15.17.10 NMA opriate requirements of Subsection E of 19.15.17.13 Nuble) based upon the appropriate requirements of Subsection E of 19.15.17.13 Nuble) based upon the appropriate requirements of 19.15.17.13 NMAC open the appropriate requirements of 19.15.17.13 NMAC open the appropriate requirements of 19.15.17.13 NMAC dis, drilling fluids and drill cuttings or in case on-site of the appropriate requirements of 19.15.17.13 NMAC dispersion of Subsection H of 19.15.17.13 NMAC irements of Subsection H of 19.15.17.13 NMAC	AC NMAC ection K of 19.15.17.11 NMAC te requirements of 19.15.17.11 NMAC
Operator Application Certification:  I hereby certify that the information submitted with this app	•	
Name (Print): Vanessa Fields	Title: Agent/Regulatory Compliance M	Nanager
Signature:	Date:5/9/2021	
e-mail address: vanessa@walsheng.net	Telephone:505-787-9100	
OCD Approval: Permit Application (including closure	e plan) 🗖 Closure Plan (only) 🗌 OCD Conditions	(see attachment) 5/19/2021
OCD Representative Signature:		oval Date:
Title: Environmental Specialist	BG7 OCD Permit Number:	1
Closure Report (required within 60 days of closure comp Instructions: Operators are required to obtain an approve The closure report is required to be submitted to the division section of the form until an approved closure plan has bee	d closure plan prior to implementing any closure action within 60 days of the completion of the closure ac	tivities. Please do not complete this
20.  Closure Method:  Waste Excavation and Removal ☐ On-Site Closure  If different from approved plan, please explain.	Method   Alternative Closure Method   Wast	e Removal (Closed-loop systems only)
Closure Report Attachment Checklist: Instructions: Eamark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if application Waste Material Sampling Analytical Results (require Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Techni Site Reclamation (Photo Documentation) On-site Closure Location: Latitude	r private land only) uble) d for on-site closure)	sure report. Please indicate, by a check
Site Reclamation (Photo Documentation) On-site Closure Location: Latitude	Longitude	NAD: □1927 □ 1983
Form C-144	Oil Conservation Division	Page 5 of 6

Form C-144

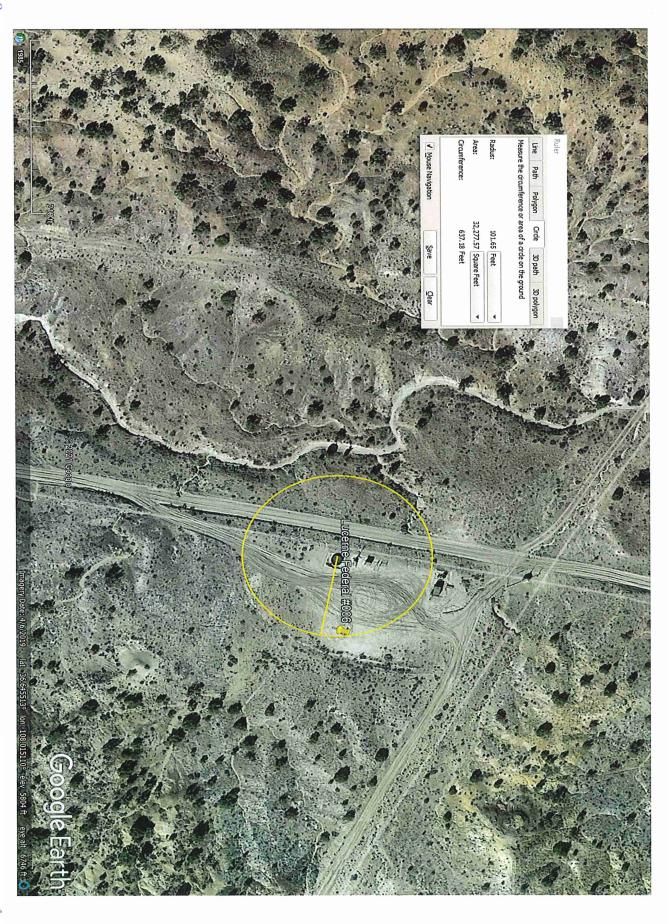
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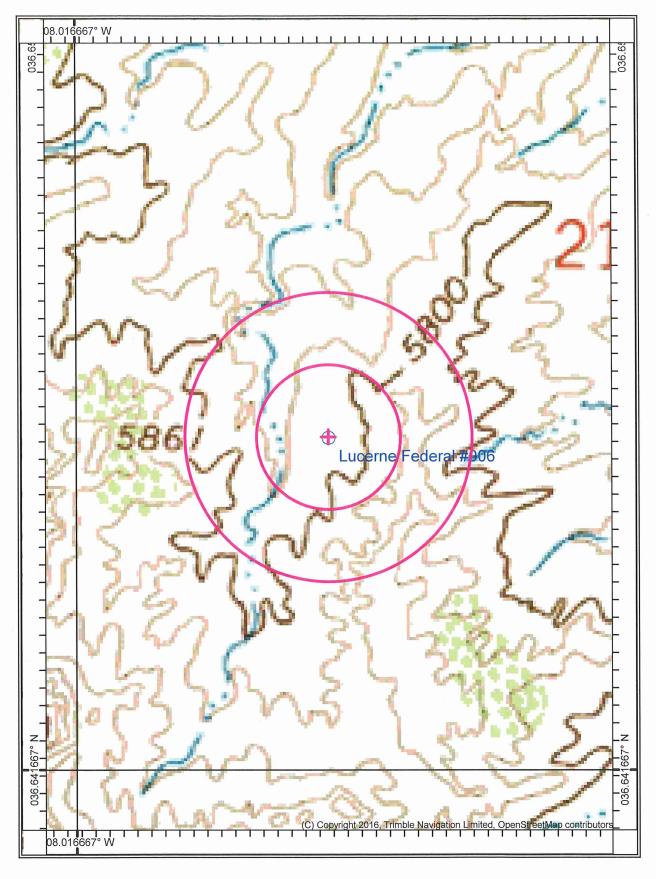
e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_

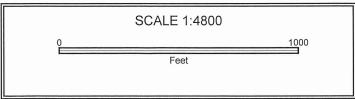
\_\_\_\_\_ Date: \_\_\_\_\_

# 30-045-29282 LUCERNE FEDERAL #006 Sitting Criteria



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# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 21

Township: 28N

Range: 11V

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/10/21 9:48 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 20

Township: 28N

Range: 11W

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/10/21 9:48 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 20

Township: 27N

Range: 11V

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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WATER COLUMN/ AVERAGE DEPTH TO WATER

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# New Mexico Office of the State Engineer POD Reports and Downloads

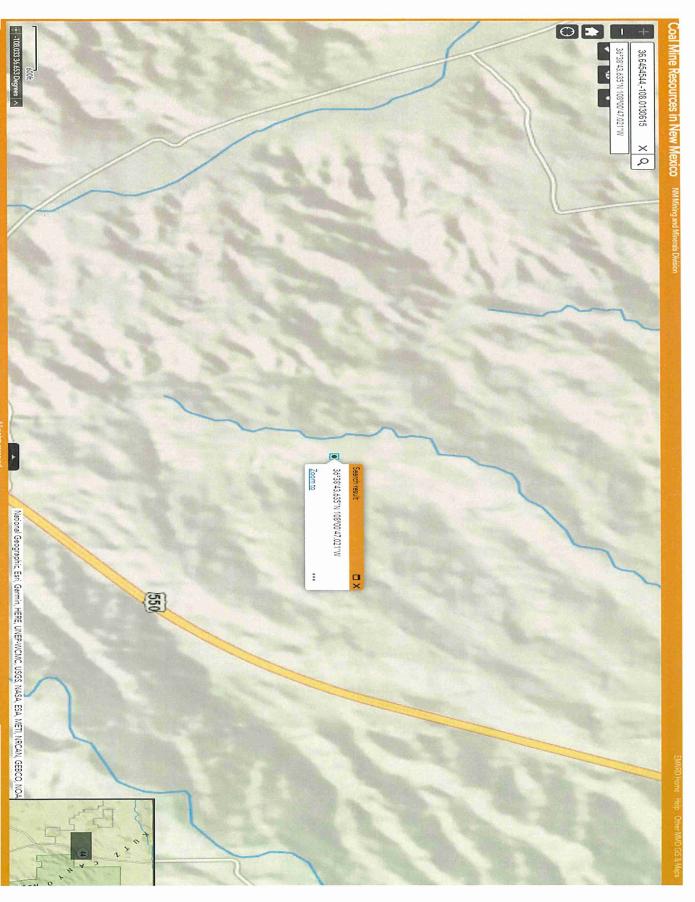
Township: 28N Range:	11W Sections:
NAD27 X: Y:	Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First)	(Last) C Non-Domestic C Domestic C All
POD / Surface Data Report	Avg Depth to Water Report Water Column Report
Clear Fo	orm   IWATERS Menu   Help

### WATER COLUMN REPORT 08/21/2008

	(quarter	B are	3 T=1	MAA	4=	-ME	3=5M 4=5E)						
	(quarter	s are	e big	jge	est	: to	smallest)			Depth	Depth	Water	(in
POD Number	Tws	Rng	Sec	a	a	<b>q</b>	Zone	X	Y	Well	Water	Column	
SJ 03193	28N	11W	07	3	4	3				80	35	45	
SJ 02916	28N	11W	07	3	4	4				98	70	28	

Record Count: 2

# 30-045-29282 LUCERNE FEDERAL #006 Mine Map



# National Flood Hazard Layer FIRMette

108°1'6"W 36°38'58"N





# Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS







Regulatory Floodway With BFE or Depth Zone AE, AO, AH, VE, AR Without Base Flood Elevation (BFE) Zone A, V, A99



**Future Conditions 1% Annual** areas of less than one square mile Zone

depth less than one foot or with draina of 1% annual chance flood with average 0.2% Annual Chance Flood Hazard, Area

Levee. See Notes. Zone X Area with Reduced Flood Risk due to Chance Flood Hazard Zone X

NO SCREEN Area of Minimal Flood Hazard Zone X

Area with Flood Risk due to Levee Zone D

OTHER AREAS OF FLOOD HAZARD

Effective LOMRs Area of Undetermined Flood Hazard Zone

OTHER AREAS

STRUCTURES | 1111111 Levee, Dike, or Floodwall Channel, Culvert, or Storm Sewer

GENERAL

B 20.2 Cross Sections with 1% Annual Chance

Water Surface Elevation Base Flood Elevation Line (BFE) Coastal Transect

Limit of Study

Profile Baseline **Coastal Transect Baseline Jurisdiction Boundary** 

**FEATURES** 

Hydrographic Feature

OTHER

Digital Data Available

No Digital Data Available

Unmapped

MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location.

accuracy standards The basemap shown complies with FEMA's basemap digital flood maps if it is not void as described below This map complies with FEMA's standards for the use of

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/10/2021 at 12:04 PM and does not reflect changes or amendments subsequent to this date and ime. The NFHL and effective information may change or ecome superseded by new data over time.

unmapped and unmodernized areas cannot be used for FIRM panel number, and FIRM effective date. Map images for elements do not appear: basemap imagery, flood zone labels, This map image is void if the one or more of the following map

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1,000

1,500

2,000

005 Pag@gd 200 AREA OF MINIMAL FLOOD HAZARD San Juan County Feet 1:6,000 108°0'28"W 36°38'29

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## **Below Grade Tank Closure Plan**

Lucerne Federal #006

U/L: K, Section 21, TWN: 28N. RNG: 11W

San Juan County, New Mexico

As stipulated in Rule 19 .15 .17 .13 NMAC, the following information adheres to the requirements established in closing below-grade tanks (BGTs) on Roddy Production CO INC well sites. This plan will address the standard protocols and procedures for closure of BGTs.

Roddy Production CO INC proposes to close its existing BGTs that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or are not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC in accordance with this closure plan and the transitional provisions of Subsection E of 19.15.17.17 NMAC.

The following outline addresses all requirements for closure of Roddy Production CO INC BGTs:

- 1.Prior notification of Roddy Production CO INC intent to close the BGT will follow 19.15.17.13J (I) and (2).
  - a. Roddy Production CO INC will notify the surface owner by certified mail, return receipt requested, of closure plans. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is enough to demonstrate compliance with this requirement.
  - b. Notification will also be given to the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice will include the operator's name and the well's name, number, and API number, in addition to the well's legal description, including the unit letter, section, township, and range.

2.RODDY PRODCUTION CO INC will remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. A list of Roddy Production CO INC approved disposal facilities is below:

Fluid disposal:

## **Agua Moss**

Sunco well #1

U/L=E, SWNW, Section 2, T29N-RI2W San Juan, New Mexico

Permit #NM-01-0009

## Basin Disposal Inc.

Basin Disposal well # 1

U/L=F, SWNW, Section 3, T29N-RI 1 W San Juan, New Mexico

Permit #NM-01-0005

Solid disposal: Envirotech Land Farm

**Disposal Facility** 

Section 6, T26N-R10W, County Road #7175 San Juan, New Mexico

Permit #NM-01-0011

- 3.RODDY PRODCUTION CO INC will remove the BGT from the pit and place it at ground level adjacent to the original BGT site and dispose of it in a NMOCD approved facility or recycle, reuse, or reclaim it in a manner that the NMOCD approved. If a liner is present and must be disposed of it will be cleaned and disposed at a permitted solid waste facility, pursuant to Subparagraph (m) of Paragraph (1) of Subsection C of 19.15.35.8 NMAC.
- 4. Roddy Production CO INC will hook up necessary equipment and piping for temporary tank use. At this time, any on-site equipment not necessary to the operation of the tank will be removed from the site.
- 5.Roddy Production CO INC will test the soils beneath the original BGT location to determine whether a release has occurred. At a minimum, a five (5) point composite sample will be collected in addition to individual grab samples from areas that are wet, discolored, or showing other evidence of a release. The samples will be analyzed for BTEX, TPH (GRO DRO MRO, and chlorides to demonstrate that they do not exceed certain concentrations. The testing methods and closure standards for those constituents are as follows:

		Table I	
	Closure Criteria for	Soils Impacted by a Release	
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Notes: mg/Kg= milligram per kilogram; BTEX = benzene, toluene, ethylbenzene, and total xylenes; TPH = total petroleum hydrocarbons. Other EPA methods that the division approves may be applied to all constituents listed. The Chlorides closure standards will be determined by whichever concentration level is greatest.

6.Roddy Production CO INC will notify the division District III office of the soil test results on Form C-14 l. It is understood that the NMOCD may require additional delineation upon review of the results.

7. If it is determined that a release has occurred, then Roddy Production CO INC will comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

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- 8. If the confirmation sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then Roddy Production CO INC will backfill the excavation with compacted, non-waste containing, earthen material; construct a division prescribed soil cover; re-contour the site; and move the fiberglass tank onto the newly backfilled and compacted site. The division-prescribed soil cover, re-contouring, and re-vegetation requirements shall comply with Subsections G, H, and I of 19.15.17.13 NMAC.
- 9. Reclamation will follow 19.15.17.130 (1) and (2).
- a. The BGT location and all areas associated with the BGT, including associated access roads, if applicable, will be reclaimed to a safe and stable condition that blends with the surrounding undisturbed area. It is understood that Roddy Production CO INC shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19 .15 .1 7 .13 NMA C and recontour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography.
- b. Re-vegetation will not be completed at the time the BGT pit is reclaimed but will instead be applied for as part of the P&A process when the well is plugged and abandoned. 10.Soil cover will follow 19.15.17.13H (1) and (3).
  - a. The soil cover for closures where the BGT has been removed or contaminated soil has been remediated to the NMOCD's satisfaction will consist of the background thickness of topsoil or one (1) foot of suitable material to establish vegetation at the site, whichever is greater.
  - b. The soil cover will be constructed to the site's existing grade, and all possible efforts will be conducted to prevent ponding of water and erosion of the cover material.
- 11.Within 60 days of closure completion, Roddy Production CO INC will submit a closure report on NMOCD's Form C-144, with necessary attachments to document all closure activities, including sampling results; information required by 19.15.17 NMAC; and details on backfilling, capping, and covering, where applicable. Roddy Production CO INC will certify that all information in the report and attachments is correct and that Roddy Production CO INC has complied with all applicable closure requirements and conditions specified in the approved closure plan.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

## **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 27827

### **CONDITIONS OF APPROVAL**

Operator:			OGRID:	Action Number:	Action Type:
RODDY PRODUCTION CO INC	4001 N. BUTLER, BLDG 7101	Farmington, NM87401	36845	27827	C-144B

OCD Reviewer	Condition
csmith	CP Only