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

Form C-144 July 21, 2008

District II 1301 W Grand Ave, Artesia, NM 88210 District III

1000 Rio Brazos Rd, Aztec, NM 87410

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office

10	70
18	18

1220 S St Francis Dr , Santa Fe, NM 87505 Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application Type of action Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Not does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538 Address: PO Box 4289, Farmington, NM 87499 Facility or well name: San Juan 27-4 Unit 41N API Number: 30-039-30213 OCD Permit Number: F(SENW) Section: Township: U/L or Qtr/Qtr: 7 27N Range: County: Rio Arriba Center of Proposed Design: Latitude: 36.59073' N 107.29367' W NAD: 1927 X 1983 Longitude: Private Tribal Trust or Indian Allotment Surface Owner: X Federal State X Pit: Subsection F or G of 19.15 17 11 NMAC Temporary: X Drilling Workover Permanent Emergency Cavitation P&A X LLDPE HDPE PVC Other X Lined Unlined Liner type. Thickness 20 mil X String-Reinforced Liner Seams. X Welded X Factory Other Volume. 4400 bbl Dimensions L 65' Closed-loop System: Subsection H of 19.15 17.11 NMAC P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or Type of Operation: notice of intent) Drying Pad Above Ground Steel Tanks | Haul-off Bins Other Unlined LLDPE HDPE PVD Other Lined Liner type: Thickness mıl Welded Liner Seams Factory Other OCT 2008 Below-grade tank: Subsection I of 19.15.17 11 NMAC OIL CONS. DIV. DIST Volume: bbl Type of fluid Tank Construction material 17733458 Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE ₽VC Other Alternative Method:

Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)	Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)						
Chain link, six feet in height, two strands of barbed wife at top (Required if located within 1000 feet of a permanent residence, school, hospital, inst	ttution or chur	cn)					
Four foot height, four strands of barbed wire evenly spaced between one and four feet							
X Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top.							
7							
Netting: Subsection E of 19 15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)							
Screen Netting Other							
Monthly inspections (If netting or screening is not physically feasible)							
8							
Signs: Subsection C of 19.15.17.11 NMAC							
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers							
X Signed in compliance with 19.15.3 103 NMAC							
9							
Administrative Approvals and Exceptions:							
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance							
Please check a box if one or more of the following is requested, if not leave blank:							
Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cons	ideration of ap	proval.					
Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.							
10							
Siting Criteria (regarding permitting): 19.15.17.10 NMAC							
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the							
appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for							
consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria							
does not apply to drying pads or above grade-tanks associated with a closed-loop system.							
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.	□Yes	X No					
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells		ANO					
,		E V					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes	X No					
- Topographic map; Visual inspection (certification) of the proposed site							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial	∐Yes	XNo					
application.							
(Applies to temporary, emergency, or cavitation pits and helow-grade tanks)	□NA						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No					
(Applied to permanent pits)	XNA	_					
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
	□ Ves	[V]No					
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	X No					
por poses, or minima soon not assume to or any other mean management of the mine of minima approximation							
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	∏Yes	X No					
adopted pursuant to NMSA 1978, Section 3-27-3, as amended	cs	<u> </u>					
Written confirmation or verification from the municipality; Written approval obtained from the municipality							
Within 500 feet of a wetland.	Yes	X No					
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	_						
Within the area overlying a subsurface mine.	Yes	XNo					
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division							
Within an unstable area.	Yes	X No					
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological		_					
Society, Topographic map							
Within a 100-year floodplain	Yes	X No					
- FEMA man	· -	-					

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Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC Instructions. Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Sitting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API or Permit
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15 17.9 NMAC Instructions. Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached Geologic and Hydrogeologic Data (only for on-site closure) - based upon the appropriate requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15 17 11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15.17.9 NMAC and 19 15.17.13 NMAC Previously Approved Design (attach copy of design) API Previously Approved Operating and Maintenance Plan API
Permanent Pits Permit Application Checklist: Subsection B of 19 15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17 9 NMAC Situng Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17 10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19 15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17 11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19 15.17 9 NMAC and 19.15 17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type XDrilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method Waste Excavation and Removal Waste Removal (Closed-loop systems only) XOn-site Closure Method (only for temporary pits and closed-loop systems) XIn-place Burial On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15 17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15 17 13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15 17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19 15.17.13 NMAC

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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Stee Instructions: Please identify the facility or facilities for the disposal of liquids, drilling	e l Tanks or Haul-off Bins Only: (19.15.17-13 D NMAC) fluds and drill cuttings - Use attachment if more than two fac	ılities	ì				
are required Disposal Facility Name	Disposal Facility Permit #.						
Disposal Facility Name.	Disposal Facility Permit #		}				
Will any of the proposed closed-loop system operations and associated activitie Yes (If yes, please provide the information No	-						
Required for unpacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15 17 13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15.17.13 NMAC							
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAG Instructions Each siting criteria requires a demonstration of compliance in the closure plan I certain siting criteria may require administrative approval from the appropriate district office of for consideration of approval Justifications and/or demonstrations of equivalency are required.	Recommendations of acceptable source material are provided below or may be considered an exception which must be submitted to the S						
Ground water is less than 50 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search, USGS. Data obta	nined from nearby wells	Yes X No)				
Ground water is between 50 and 100 feet below the bottom of the buried waste		Yes X No	,				
- NM Office of the State Engineer - tWATERS database search; USGS; Data obta		∏N/A					
Ground water is more than 100 feet below the bottom of the buried waste.		X Yes No	,				
- NM Office of the State Engineer - iWATERS database search; USGS; Data obta	ined from nearby wells	∏N/A	.				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signific (measured from the ordinary high-water mark)	Yes X No	,					
- Topographic map; Visual inspection (certification) of the proposed site							
Within 300 feet from a permanent residence, school, hospital, institution, or church in - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes X No						
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality, Written approval obtained from the municipality							
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map; Visual insp	pection (certification) of the proposed site	Yes X No					
Within the area overlying a subsurface mine	August Duy on	Yes X No	,				
 Written confirantion or verification or map from the NM EMNRD-Mining and N Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & M 		Yes XNo					
Topographic map	and the second of the second o]				
Within a 100-year floodplain FEMA map	Yes X No)					
On-Site Closure Plan Checklist: (19.15.17 13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached.	of the following items must bee attached to the closure	plan. Please indicat	te,				
X Siting Criteria Compliance Demonstrations - based upon the appropriate	•						
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15.17.13 NMAC							
Construction/Design Plan of Burial Trench (if applicable) based upon the		15 17 11) 34 4 6					
Construction/Design Plan of Temporary Pit (for in place burial of a dryi X Protocols and Procedures - based upon the appropriate requirements of		15.17 11 NMAC					
Confirmation Sampling Plan (if applicable) - based upon the appropriate							
X Waste Material Sampling Plan - based upon the appropriate requiremen							
X Disposal Facility Name and Permit Number (for liquids, drilling fluids a		not be achieved)	;				
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMAC X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC							

Form C-144

Operator Application Contification	
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to	the best of my knowledge and belief.
Name (Print): Crystal Tafoya Title:	Regulatory Technician
Signature: Date	19/10/08
e-mail address: <u>crystal.tatoya@conocophilluss.com</u> Telephone:	505-326-9837
20 OCD A record Decret Application (including closure plan) V Closure Plan (ac	also CCD Conditions (con ottool)
	oCD Conditions (see attachment)
OCD Representative Signature: Scanston Fourth	Approval Date:
	Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 N Instructions: Operators are required to obtain an approved closure plan prior to implementing any of report is required to be submitted to the division within 60 days of the completion of the closure activation approved closure plan has been obtained and the closure activities have been completed. Closure Report (required within 60 days of closure plan prior to implementing any complete days of the completion of the closure activities have been completed.	losure activities and submitting the closure report. The closure
22	
Closure Method:	
Waste Excavation and Removal On-site Closure Method Alternative Closure	sure Method Waste Removal (Closed-loop systems only)
If different from approved plan, please explain.	
23 <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above</u> Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill a were utilized.	
Disposal Facility Name: Disposal Fac	ılıty Permit Number.
	ility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that wi Yes (If yes, please demonstrate compliane to the items below) No	ll not be used for future service and opeartions?
Required for impacted areas which will not be used for future service and operations:	
Site Reclamation (Photo Documentation)	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24 Closure Report Attachment Checklist: Instructions: Each of the following items must be the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (if applicable) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	attached to the closure report. Please indicate, by a check mark in
Site Reclamation (Photo Documentation)	
On-site Closure Location: Latitude: Longitude	NAD 1927 1983
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is ture, accust the closure complies with all applicable closure requirements and conditions specified in the approv	
Name (Print): Title.	
Signature: Date:	
e-mail address. Telephone:	· · · - · · · · · · · · · · · · · · · ·

New Mexico Office of the State Engineer POD Reports and Downloads

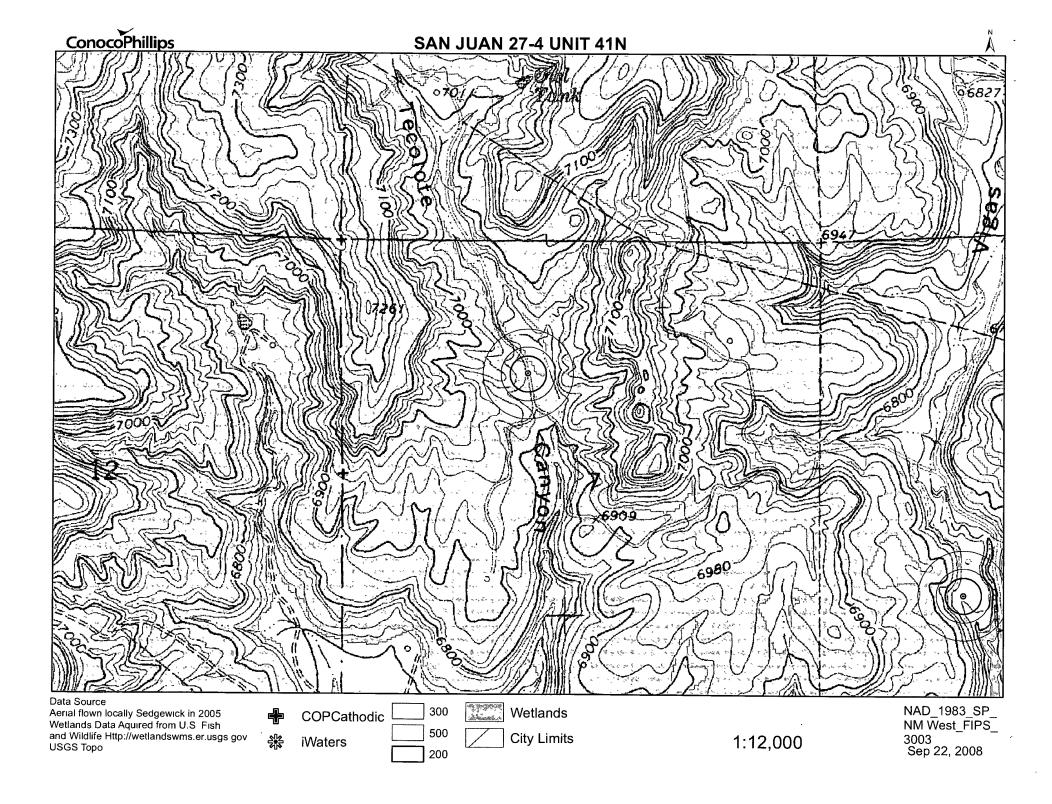
Township: 27N	Range: 04W	Sections: 5,6,	7,8,17,18	-		
NAD27 X:	Y:	Zone:	Sea	arch Radius:		
County:	Basin:		Nu	umber:	Suffix	:
Owner Name: (First)	(La	ast) (a) All	01	Von-Domestic	© Dome	stic
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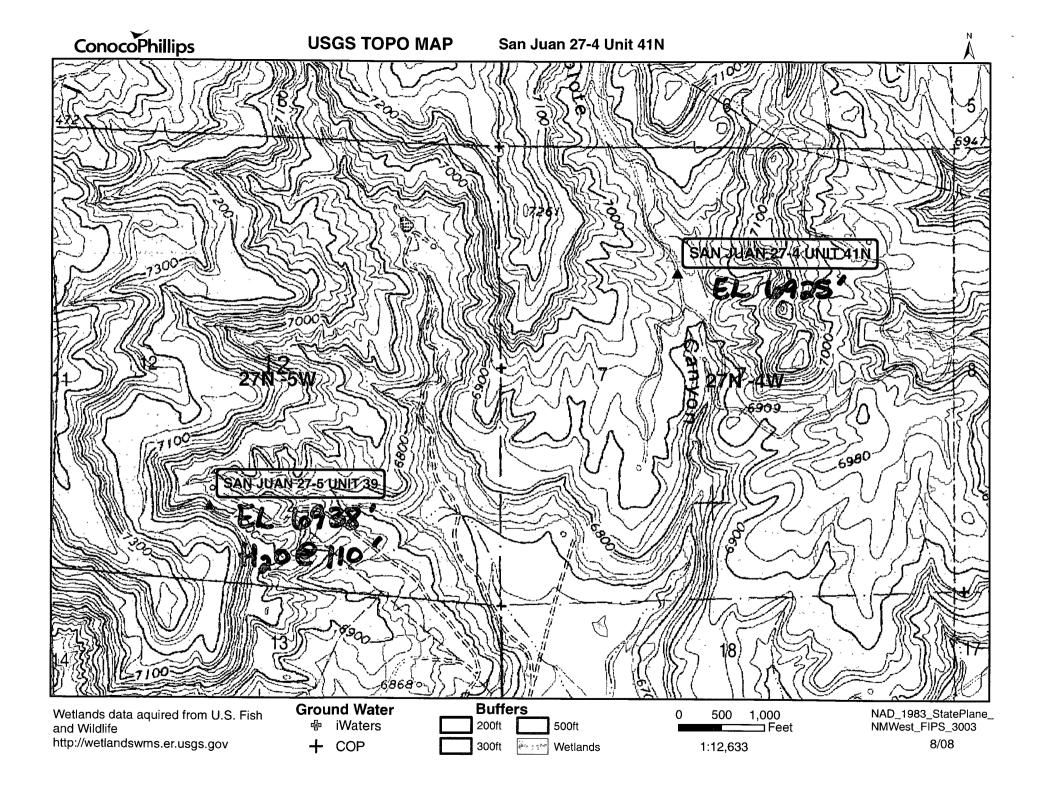
Record Count: 1

New Mexico Office of the State Engineer POD Reports and Downloads

Townshi	p: 27N Range: 05W	Sections: 1	,12			
NAD27 X:	Y:	Zone:	Sea	arch Radius:	1	
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Owner Name: (Firs	st)	(Last) All	ON	Ion-Domestic	ODomes	stic
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	Clear Form	iWATERS N	lenu Help	2		
		WATER COLUMN	REPORT 10/0	04/2008		
	quarters are 1=NW quarters are bigge Tws Rng Sec q	st to smalles		Depth Y Well	Depth Water	Wate Colum

No Records found, try again





DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS NORTHWESTERN NEW MEXICO

Operator Meridian Oil Inc. Location: Unit N Sec. 12 Two 27 Rng 05
Name of Well/Wells.or Pipeline Serviced
SAN JUAN 27-05 #39 AND # 102
Elevation 6943 Completion Date 5-13-95 Total Depth 370 Land Type F
Casing Strings, Sizes, Types & Depths 5/1 Set 99 Of 8" PVC CASING.
NO GAS, WATEL, OF BOULders Were ENCOUNTERED DUTING CASING.
If Casing Strings are cemented, show amounts & types used <u>Cemented</u> WITH 20 SACKS.
If Cement or Bentonite Plugs have been placed, show depths & amounts used
Depths & thickness of water zones with description of water: Fresh. Clear. Salty, Sulphur, Etc. Very 1. the water between 110-146'- Fresh
Depths gas encountered: None
Ground bed depth with type & amount of coke breeze used: 370 4500/65 Losesco
Depths anodes placed: 1 350 340 305 285 278 269 260 252 244 235 227 200, 170 180 170
Depths vent pipes placed: Surface to 3 70 DECEIVED
Vent pipe perforations: From 100 to 370 M JAN 1 1 1996
Remarks: No gas encountered during drilling of hole OIL COR DATE

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal: I-Indian: S-State: P-Fee. If Federal or Indian, add Lease Number.

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

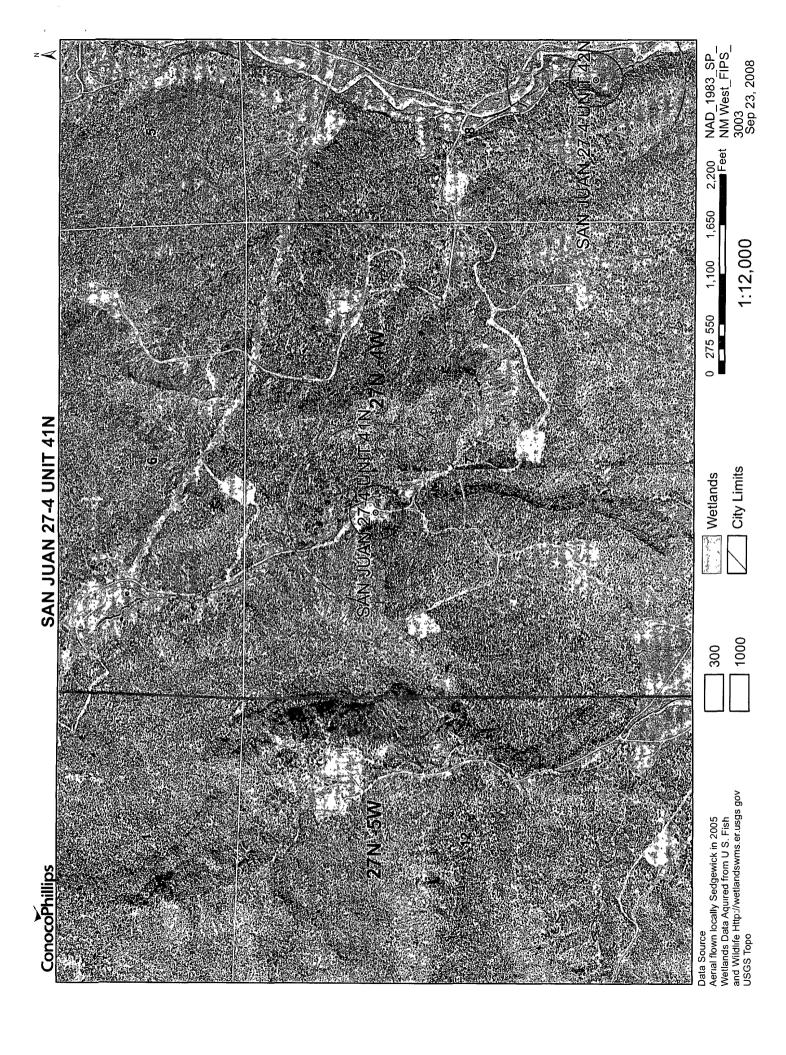
(Form C-104) Revised 7/1/57

REQUEST FOR (OIL) - (GAS) ALLOWABLE

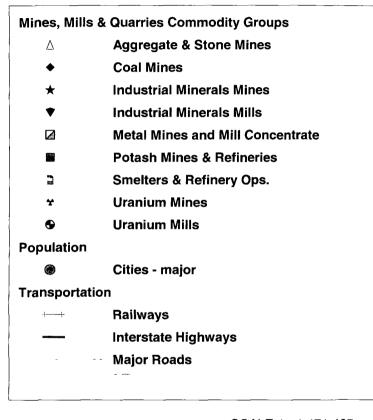
New Well Recompletion

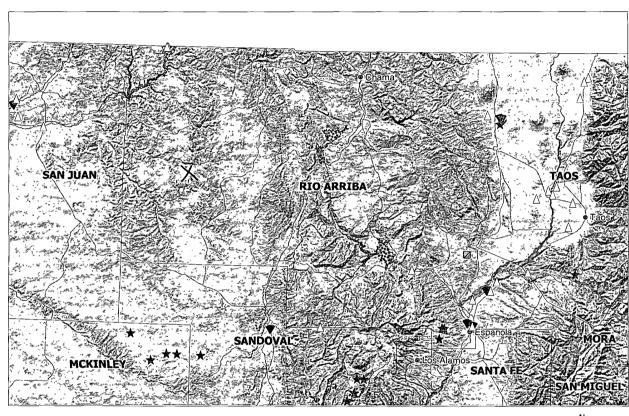
This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7 00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

						Farmington (Place)	, . New . M	exico	9-23-59 (Date)
						OR A WELL KN 5, Well No		in SE	1/2 / 2 W 1
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D	C	В	A	Top 011/Ca	s Pay 558	Name o	of Fred. Form	Mesa Ver	de
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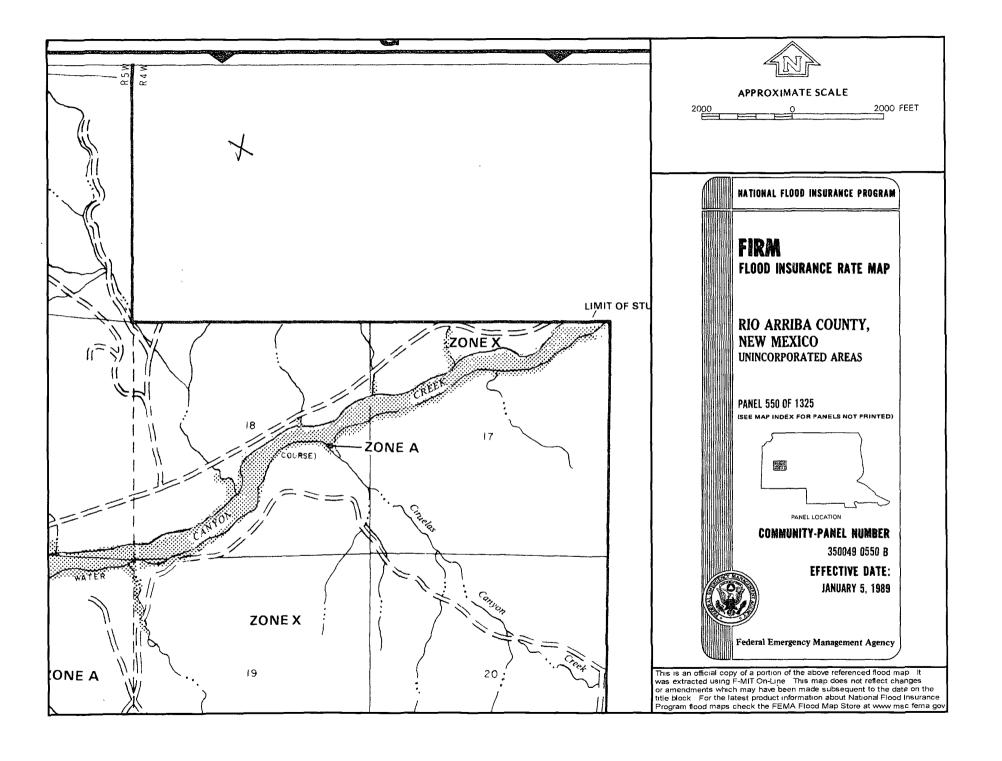
San Juan 27-4 Unit 41N Mines, Mills and Quarries Web Map











Hydrogeological report for San Juan 27-4 Unit 41N

Regional Hydrogeological context:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line.

The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use.

The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The San Juan 27-4 Unit 41N is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. The Cathodic well data from the San Juan 27-5 Unit 39 has an elevation of 6938' and groundwater depth of 110'. The subject well has an elevation of 6925' which is slightly less than the San Juan 27-5 Unit 39, therefore the groundwater depth is greater than 100'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The Cathodic data provided the indication of groundwater depth is greater than 100'. The hydro geologic analysis indicates the groundwater depth and the San Jose formation will create a stable area for this new location.

Tafoya, Crystal

From:

Tafoya, Crystal

Sent:

Thursday, July 10, 2008 8:16 AM

To:

'mark_kelly@nm.bim.gov'

Subject:

OCD Pit Closure Notification

The following temporary pits will be closed on-site. The new OCD Pit Rule 17 requires the surface owner be notified. Please feel free to contact me at any time if you have any questions. Thank you!

Allison Unit 2B

Allison Unit 40N

Angel Peak B 27E

Ballard 11F

Cain 725S

Canyon Largo Unit 250N

Canyon Largo Unit 279E

Canyon Largo Unit 288E

Canyon largo Unit 297E

Canyon Largo Unit 465E

Carson SRC 4E

Day B 4P

Day B 5A

East 17S

EPNG A 1B

EPNG B 1M

Federal A 1E

Filan 5M

Filan 5N

Fogelson 4 100

Fogelson 4 100S

Grambling C 202S

Hagood 19

Hamner 9S

Hardie 4P

Hare 295

Heaton Com 100

Helms Federal 1G

Howell 12

Huerfanito Unit 103F

Huerfanito Unit 29S

Huerfanito Unit 39S

Huerfanito Unit 47S

Huerfanito Unit 50E

Huerfanito Unit 75E

Huerfanito Unit 83E

Huerfanito Unit 87E

Huerfanito Unit 90E

Huerfanito Unit 90M

Huerfanito Unit 98S

Huerfano Unit 108F

Huerfano Unit 282E

Huerfano unit 305

Huerfano unit 307

Huerfano Unit 554

Johnston Federal 24S

Kina 3

Lackey A Com 100S

Lambe 1C

Lambe 7S

Lively 8M

Lloyd A 100

Lloyd A 100S

Martin 100

McCord B 1F .

McDurmitt Com 100S

McManus 13R

Mitchell 1S

Morris A 14

Newberry B 1N

Newsom B 503

Newsom B 8N

Pierce A 210S

Roelofs 1N

San Juan 27-4 Unit 132G

San Juan 27-4 Unit 132M

San Juan 27-4 Unit 139N

San Juan 27-4 Unit 140B

San Juan 27-4 Unit 141M

San Juan 27-4 Unit 147Y

San Juan 27-4 Unit 153B

San Juan 27-4 Unit 22M

San Juan 27-4 Unit 38P

(San Juan 27-4 Unit 41N)

San Juan 27-4 Unit 42N

San Juan 27-4 Unit 569N

San Juan 27-4 Unit 59N

San Juan 27-4 Unit 60M

San Juan 27-5 Unit 113F

San Juan 27-5 Unit 59N

San Juan 27-5 Unit 84N

San Juan 27-5 unit 901

San Juan 27-5 Unit 902

San Juan 27-5 Unit 903

San Juan 27-5 Unit 904

San Juan 27-5 Unit 905

San Juan 27-5 Unit 906

San Juan 27-5 Unit 907 San Juan 27-5 Unit 908

San Juan 27-5 Unit 909

San Juan 27-5 Unit 910

San Juan 27-5 Unit 912

San Juan 27-5 Unit 913

San Juan 27-5 Unit 914

San Juan 27-5 Unit 915

San Juan 27-5 Unit POW 916

San Juan 28-4 Unit 27M

San Juan 28-5 Unit 54F

San Juan 28-5 Unit 62E

San Juan 28-5 Unit 63M

San Juan 28-5 Unit 76N

San Juan 28-5 Unit 77N

San Juan 28-6 Unit 113N

State of New Mexico Energy, Minerals & Matural Resources Department

Form C-102 Revised August 15, 2000

LISTRICT II 311 South First, Artesia, N.M. 58210

1000 Rto Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies RCOD LEASE 5.07 Copies ☐ AMENDED REPORT

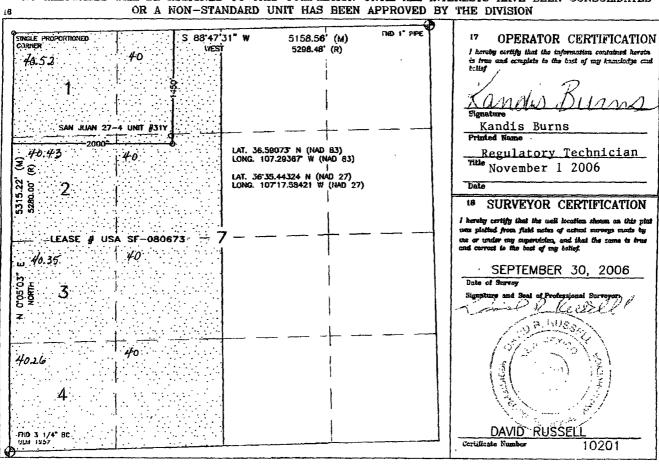
3040 South Pacheco, Santa Pe, MM 67505

OIL CONS. DIV. WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		^C Pool Code		² Pool Fame	
30-039-30	213	71599	BASIN	DAKOTA	DICT 3
*Property Code	⁶ Property liame				Tell Number
7452	SAN JUAN 27-4 UNIT				41N
OGRID Mo.		,	Operator Name		° Elevation
14538		BURLINGTON	RESOURCES O&G CO LP		6925'

Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the Cost/West line County 27N 4W 1450' NORTH 2000 WEST RIO ARRIBA ¹¹ Bottom Hole Location If Different From Surface Lot Idn UL or lot no. Feet from the North/South line Feet from the East/West line Section County Dedicated Acres Joint or Infill 14 Concolidation Code "Order No. 321156 319.57 Acres - (W/2)

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



Burlington Resources Oil & Gas Company, LP San Juan Basin Closure Plan

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of temporary pits on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of pit closure. Closure report will be filed on C-144 and incorporate the following:

- Details on Capping and Covering, where applicable.
- Plot Plan (Pit Diagram)
- Inspection Reports
- Sampling Results
- C-105
- Copy of Deed Notice will be filed with County Clerk

General Plan:

- All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division—approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011).
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
- 3. The surface owner shall be notified of BR's closing of the temporary pit prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email, or verbally. The notification of closure will include the following:
 - i. Operator's name
 - Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at the San Juan County Landfill located on CR 3100.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	(1000/\$00

- 9. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. If standard testing fails BR will dig and haul all contents pursuant to 19.15.17.13.i.a. After doing such, confirmation sampling will be conducted to ensure a release has not occurred.
- 10. During the stabilization process if the liner is ripped by equipment the Aztec OCD office will be notified within 48 hours and the liner will be repaired if possible. If the liner can not be repaired then all contents will be excavated and removed.
- 11. Dig and Haul Material will be transported to the Envirotech Land Farm located 16 miles south of Bloomfield on Angel Peak Road, CR 7175. Permit # NM010011
- 12. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Reshaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 13. Notification will be sent to OCD when the reclaimed area is seeded.
- 14. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

Туре	Variety or Cultivator	PLS/A
Western wheatgrass	Arriba	3.0
Indian ricegrass	Paloma or Rimrock	3.0
Slender wheatgrass	San Luis	2.0
Crested wheatgrass	Hy-crest	3.0
Bottlebrush Squirreltail	Unknown	2.0
Four-wing Saltbrush	Delar	.25

Species shall be planted in pounds of pure live seed per acre: Present Pure Live Seed (PLS) = Purity X Germination/100 Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality)

Purity

50 percent

Germination

40 percent

Percent PLS

20 percent

Source No. two (better quality)

Purity

80 percent

Germination

63 percent

Percent PLS

50 percent

5 lb. bulk seed required to make 2 lb. bulk seed required to make

1 lb. PLS 1 lb. PLS

15. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.