State of New Mexico Energy Minerals and Natural Resources

Form C-144 July 21, 2008

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

nergy Minerals and Natural Resourd Department 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.

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Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action:	X 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. Nor 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 28-4 Unit 35M	-
API Number: 30-039-25949	OCD Permit Number:
U/L or Qtr/Qtr: J(NWSE) Section: 33 Township: 2	28N Range: 4W County: Rio Arriba
Center of Proposed Design: Latitude: 36.613120' N	Longitude: 107.254280' W NAD: X 1927 1983
Surface Owner: X Federal State Private	Tribal Trust or Indian Allotment
Z Pit: Subsection F or G of 19.15.17.11 NMAC Temporary:	mil X LLDPE HDPE PVC Other
X String-Reinforced Liner Seams: X Welded X Factory Other	Volume: 7000 bbl Dimensions L 120' CV 55' FEB 18008
Type of Operation: P&A Drilling a new well Worken notice	over or Drilling (Applies to activities which require prior approval for continuous of intent)
Drying Pad Above Ground Steel Tanks Haul-off Bi Lined Unlined Liner type: Thickness Liner Seams: Welded Factory Other	ins Other mil LLDPE HDPE PVD Other STORING DIVED
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid: Tank Construction material: Secondary containment with leak detection Visible sidewall Visible sidewalls and liner Visible sidewalls only Liner Type: Thickness mil HDPE	Is, liner, 6-inch lift and automatic overflow shut-off Other Other Other
Submittal of an exception request is required. Exceptions must be submit	tted 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) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, inst 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.	utution or churc	ch)
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		
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 consumer of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	uderation of ap	proval
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. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
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). - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation puts and below-grade tanks)	Yes NA	XNo
- 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. (Applied to permanent pits)	Yes XNA	No
 Visual inspection (certification) of the proposed site; Aerial photo, Satellite image 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	XNo
- 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 adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	XNo
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Within an unstable area.	Yes Yes	X No 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 FEMA map 	Yes	XNo

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 X
If the state of
X Design Plan - based upon the appropriate requirements of 19.15 17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19 15.17.12 NMAC
X 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 requirements of Paragraph (3) of Subsection B of 19.15 17.9
String 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
13
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 (I) of Subsection B of 19.15.17.9 NMAC
Siting 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
14 Process Classics 10 15 17 12 20 44 C
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. Drilling X Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System
Proposed Closure Method.
Waste Removal (Closed-loop systems only)
X On-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)
15
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 hased upon the appropriate requirements of 10.15.17.13 NMAC
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 I of 19.15 17.13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15.17.13 NMAC

Page 3 of 5

Form C-144 Oil Conservation Division

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Ste Instructions. Please identify the facility or facilities for the disposal of liquids, drillin	eel Tanks or Haul-off Bins Only: (19 15 17 13.D NMAC) of fluids and drill cutings. Use attachment if more than two fa	cilities
are required.	·	
Disposal Facility Name.		
Disposal Facility Name		
Will any of the proposed closed-loop system operations and associated activiting Yes (If yes, please provide the information No	es occur on or in areas that will not be used for future ser	rvice and operations?
Required for impacted areas which will not be used for future service and operations Soil Backfill and Cover Design Specification - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirem	ection I of 19 15 17 13 NMAC	
Siting Criteria (Regarding on-site closure methods only: 19.15 17.10 NMA Instructions Each siting criteria requires a demonstration of compliance in the closure plan certain siting criteria may require administrative approval from the appropriate district office for consideration of approval Justifications and/or demonstrations of equivalency are required.	Recommendations of acceptable source material are provided below cor 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 ob	tained from nearby wells	Yes X No
Ground water is between 50 and 100 feet below the bottom of the buried wast	e	Yes X No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obt	ained from nearby wells	□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 obt	ained from nearby wells	□N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signiful (measured from the ordinary high-water mark).	icant watercourse or lakebed, sınkhole, or playa lake	Yes X No
- Topographic map; Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church ii - 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 the purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exit - NM Office of the State Engineer - iWATERS database, Visual inspection (certif	stence at the time of the initial application.	Yes <u>X</u> No
Within incorporated municipal boundaries or within a defined municipal fresh water pursuant to NMSA 1978, Section 3-27-3, as amended.	·	Yes XNo
 Written confirmation or verification from the municipality; Written approval of Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map, Topographic map, Visual ins 		Yes X No
Within the area overlying a subsurface mine.		Yes X No
- Written confirantion or verification or map from the NM EMNRD-Mining and	Mineral Division	Yes X No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & N Topographic map	Anneral Resources; USGS; NM Geological Society,	I es A No
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 indicate,
X Siting Criteria Compliance Demonstrations - based upon the appropria	te requirements of 19.15.17.10 NMAC	
X Proof of Surface Owner Notice - based upon the appropriate requirement	-	
Construction/Design Plan of Burial Trench (if applicable) based upon	the appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a dr		0.15.17.11 NMAC
X Protocols and Procedures - based upon the appropriate requirements o		
Confirmation Sampling Plan (if applicable) - based upon the appropria	•	
X Waste Material Sampling Plan - based upon the appropriate requireme		not be achieved
 X Disposal Facility Name and Permit Number (for liquids, drilling fluids X Soil Cover Design - based upon the appropriate requirements of Subse 	•	not be achieved)
Soli Cover Design - based upon the appropriate requirements of Subscition Site Reclamation Plan - based upon the appropriate requirements of Subscition Plan - based upon the appropriate requirements of Subsc	ection I of 19 15.17.13 NMAC	

19 C - 4: C - 4: C				
Operator Application Certification I hereby certify that the information	cation: on submitted with this application is true, ac	curate and complete to the	pest of my knowledge and belief.	
Name (Print)	Kelly Jeffery,	Title:	Regulatory Technician	
Signature.		Date:	2/2/09	
e-mail address:	jeffekr@conocophillips.com	Telephone:	505-499-4025	-
20 OCD Approval: Permit OCD Representative Signatu	Application (including closure plan)		OCD Conditions (see attachment) Approval Date: 2-9.	29
	o summer po	were	Approvai Date:	<u>01</u>
Title: <u>£wiro l</u>	spec	OCD Perm	it Number:	
21				
Closure Report (required wi Instructions: Operators are requireport is required to be submitted		r to implementing any closurition of the closure activitie. a completed.	re activities and submitting the closure report. Please do not complete this section of the for Completion Date:	
Closure Method: Waste Excavation and Re If different from approved		Alternative Closure	Method Waste Removal (Closed-loop s	ystems only)
23				
	te Removal Closure For Closed-loop Syste facility or facilities for where the liquids, di		ound Steel Tanks or Haul-off Bins Only: ngs were disposed. Use attachment if more the	an two facilities
were utilized.	,			
Disposal Facility Name		_ Disposal Facility		
Disposal Facility Name:		_ Disposal Facility		
	operations and associated activities performe istrate complilane to the items below)	ed on or in areas that will no	be used for future service and opeartions?	
	which will not be used for future service and			
Site Reclamation (Photo	· · · ·	operations		
Soil Backfilling and Cove	er Installation			
Re-vegetation Application	n Rates and Seeding Technique			
24	and City delicates as a company of the company			
the box, that the documents a		ollowing items must be atta	ched to the closure report. Please indicate, by	a check mark in
Proof of Closure Notice	e (surface owner and division)			
 	required for on-site closure)			
Plot Plan (for on-site cl	osures and temporary pits)			
🗎	Analytical Results (if applicable)			
	ng Analytical Results (if applicable)			
Disposal Facility Name				
Soil Backfilling and Co	ver Installation ion Rates and Seeding Technique			
Site Reclamation (Photo				
On-site Closure Location	•	Longitude:	NAD ☐ 1927 ☐	ا 1983
On site closure Exerting	Littlede.	Longitude.	1010] 1763
25				
Operator Closure Certificati		ure report is ture, accurate	and complete to the best of my knowledge and i	belief. I also certify that
	licable closure requirements and conditions			
Name (Print)		Title.		
Signature		Date:		
e-mail address:		Telephone		

Well

Water

Colun

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 27N Range: 04W Sections: 5,4,3
NAD27 X: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) O Non-Domestic O Domestic
POD // Surface Data Report Avg Depth to Water Report Water Column Report
Liclear Form iWATERS Menu Help
WATER COLUMN REPORT 01/12/2009
(quarters are 1=NW 2=NE 3=SW 4=SE)

Tws Rng Sec q q q Zone X

No Records found, try again

POD Number

New Mexico Office of the State Engineer POD Reports and Downloads

1 OD Reports and Downloads			
Township: 28N Range: 04W Sections: 29,28,27,32,33,34			
NAD27 X: Zone: Search Radius:			
County: Basin: Number: Suffix:			
Owner Name: (First) (Last) C Non-Domestic C Domestic			
POD / Surface Data Report Avg Depth to Water Report			
Water Column Report			
Clear Form iWATERS Menu Help			
WATER COLUMN REPORT 01/12/2009			
(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth Wate			

X

Well

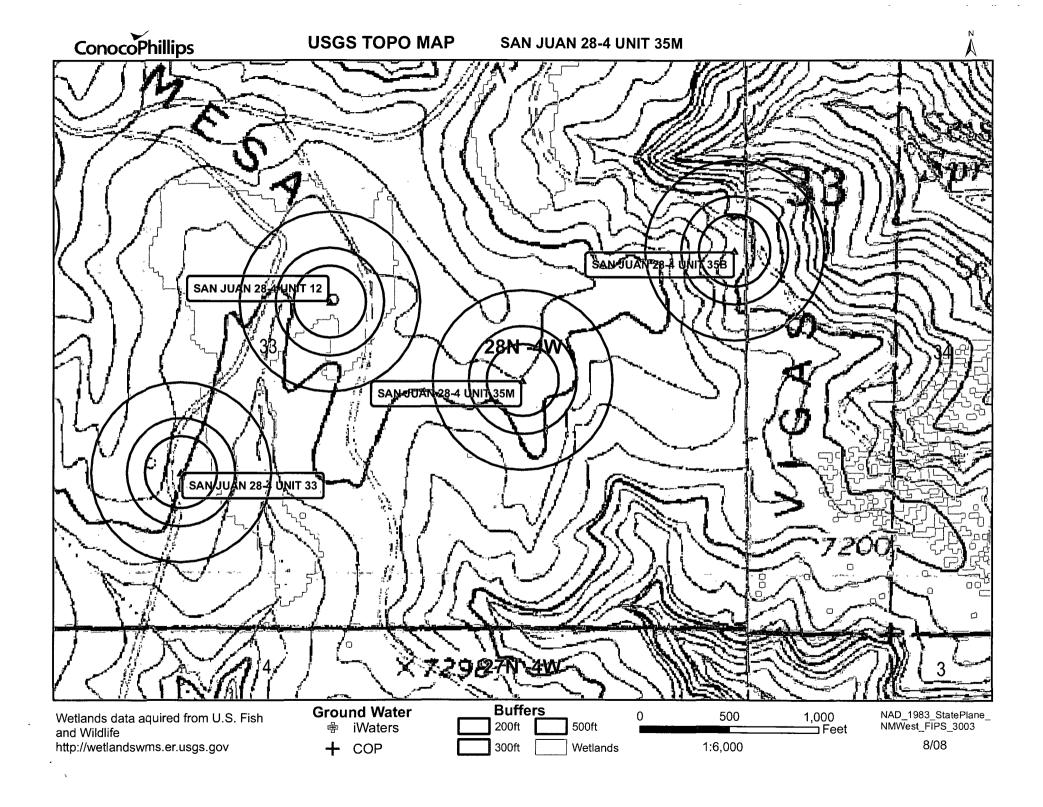
Water

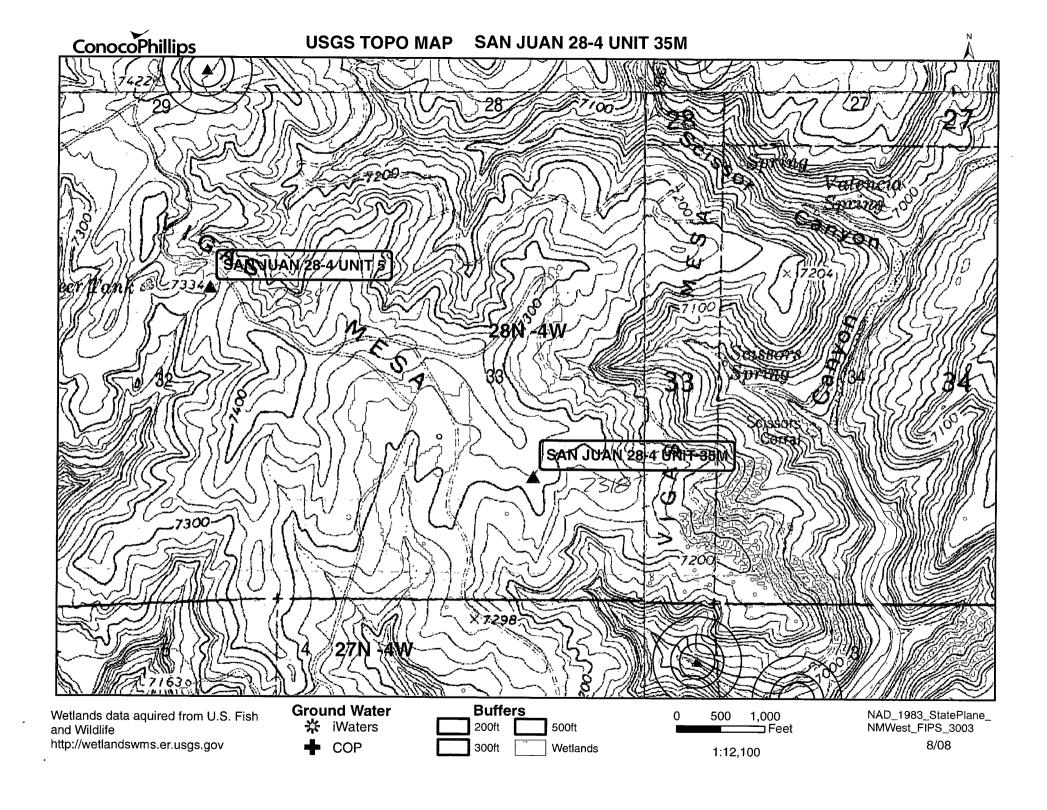
Colum

No Records found, try again

POD Number

Tws Rng Sec q q





#5 30-039-07255

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

Operator Mindian Oil Am Location: Unit # Sec. 32 Twp 28 Rng 4
Name of Well/Wells.or Pipeline Serviced
In Juan 28-4 # 5 # 32
Elevation Completion Date 10/28/95 Total Depth 367 Land Type
Casing Strings, Sizes, Types & Depths 10/28/95 Set 100 of 8" PIC
Caring No gas, water or houlders were everanteed during Caring.
If Casing Strings are cemented, show amounts & types used
Comented with 18 suchs:
If Cement or Bentonite Plugs have been placed, show depths & amounts used
None.
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. Duller reported small water seep at 170,
Ho somple was taken.
Depths gas encountered: None
Ground bed depth with type & amount of coke breeze used: 367 Depth
Used 89 such of asking who bringe & 5011 longs }
Depths anodes placed: 355 347 339 331 323 315 307 299 291 283 275, 267 220 198 180
Depths vent pipes placed: Surfree to 367
Vent pipe perforations: Bottom 250 DECENTED
Remarks:
OH CON. DIV.
DIST. 3

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.

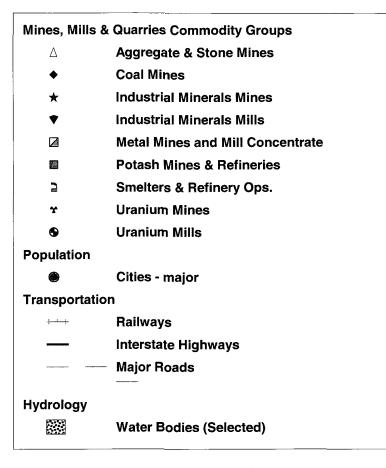
NEW MEXICO OIL CONSERVATION COMMISSION

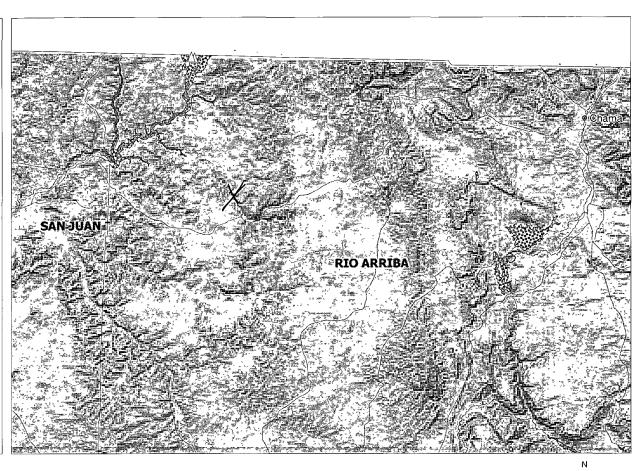
Form C-128

Well Location and/or Gas Proration Plat

Operator <u>Pacific No</u>	rthuest Pipel	iae Corp.	Lease	Init:	-	mber 17,1956
Well No	-	_	Fownship_	2811	Range	NMPM
Located 1700	Feet Fro	m North	Line,	700	Feet From	Line,
Rio Arriba		_County, N	lew Mexico	. G. L.	Elevation 7334	
Name of Producing				Blanco		Acreage 320
(N)	ote: All dista	nces must	be from ou	iter bound	aries of Section)	
	.,				1 	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		 Facific 	Northwest	Pipeline (
		USDA			x	
 		 		· .	 ., 	
NOTE This section of form is to be used for gas		USDA				RECEIVE
wells only.		 				OIL CON. COM. OIST. 3
	CALE: 1"=1000"	L			<u> </u>	
 Is this Well a I If the answer any other dually dedicated acrea 	co Question l	is yes, are	there n	repared fr nade by mo nat the sar	ertify that the al- com field notes of e or under my su ne are true and c knowledge and be	factual surveys pervision and correct to the
Name Criginal sig	ned by T. A. D	ndau		ate Surve	yed	
Position <u>Bisteriot</u> Representing <u>Pact</u> Address 405 W.B.	Engineer Lic Merthwest roadway, Farmi	Pipeline Congton, N. 1	R L	egistered and Surve	Professional En	ngineer and/or

SJ 28-4 Unit 35M Mines, Mills and Quarries









Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The San Juan 28-4 Unit 35M 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 groundwater depth is considered to be greater than 100' as determined by the topographic map and the Cathodic well data from the San Juan 28-4 Unit 5 with an elevation of 7334' and groundwater depth of 170'. The subject well has an elevation of 7318' placing ground water depth at 154'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the San Jose formation will create a stable area for this new location. This well is in the Forest and has no FEMA map.

Hydrogeological report for San Jose Formation

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.

والمنافذو معجوع

Jeffery, Kelly R

From:

Jeffery, Kelly R

Sent: To:

Monday, January 12, 2009 10:48 AM 'Ridinger John (jreidinger@fs.fed.us)' Notification to Surface owner

Subject:

Contacts:

Reidinger John

The following location temporary pit will be closed on-site. Please let me know if you have any questions. Thank you! San Juan 28-4 Unit 35M.

Jeffery, Kelly R

From:

Jeffery, Kelly R

Sent:

To: Subject: Monday, January 12, 2009 10:30 AM ' (Mark_kelly@nm.blm.gov)' Surface Owner Notification

Contacts:

Kelly Mark

The following location temporary pit will be closed on-site. Please let me know if you have any questions. Thank you! San Juan 28-4 Unit 35M.

District I PO Box 1980, Hobbs NM 88241-1980 PO Drawer KK, Artono, NM 87211-0719 Distract III 1000 Rio Brazos Rd., Azzec, NM 87410

District IV

State of New Mexico Energy, Minemaio & Natural Resources Dept

OIL CONSERVATION DIVISION

Porm '

Revised February 21.

Instructions or Submit to Appropriate District (

> State Lease - 4 (Fee Lease - 3 C

77 JUN 10 PM 1: 04

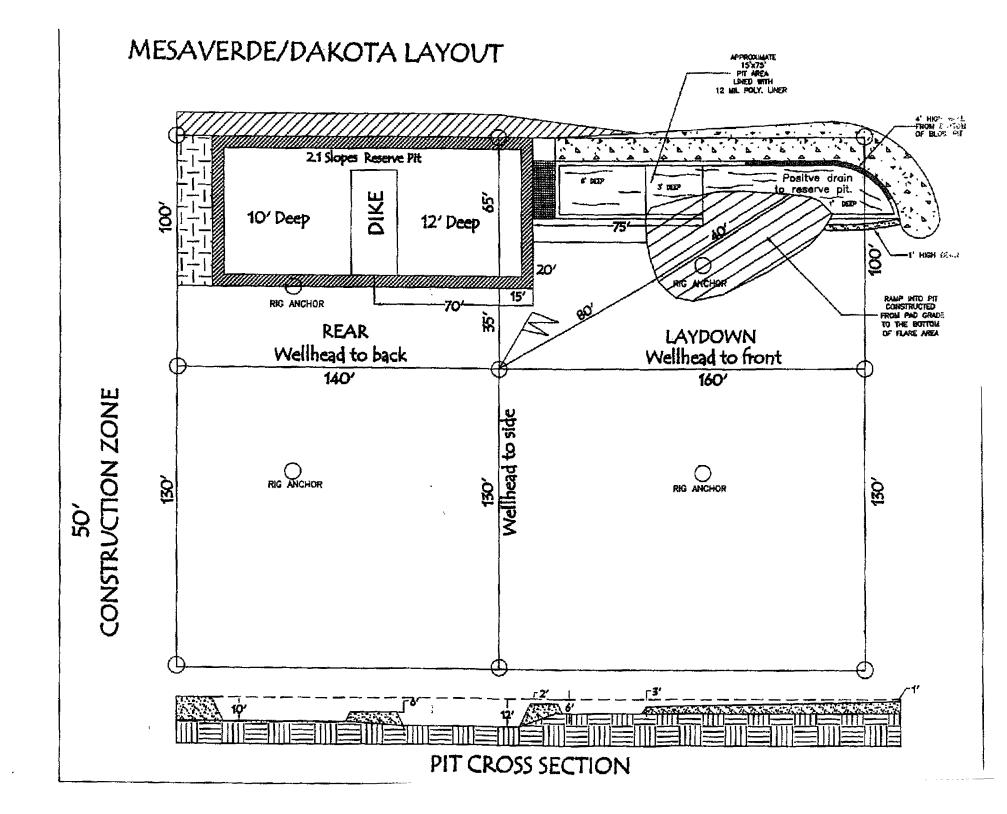
PO Box 2088

Santa Fe, NM 87504-2088

PO Box 2088, Santa Po, NM 87504-2088 AMENDED RE WELL LOCATION AND ACREAGE DEDICATION PLAT API Numb 30-039-72319/71599 Blanco Mesaverde/Basin Dakota Property Code • Well Number 7459 SAN JUAN 28-4 UNIT # 35M · OCELD No. BURLINGTON RESOURCES OIL & GAS COMPANY 7318 14538 Surface Location UL or Lot No. Bost/West line **RIO** ARI 33 28 N 4 W 1410 2050 **EAST** SOUTH Bottom Hole Location If Different From Surface 1 UL er lot no. Foot from the MV-S/320 Schot or India * Consolidation Code DK-E/320 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEREST HAVE BEEN CONSOLIDAT OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION "OPERATOR CERTIFICATI bereby certify that the information contained be true and complete to the best of my knowledge and DECEIVEN AUG 2 5 1998 Peggy Bradfield છે જાણા NMSF - 079731A " SURVEYOR CERTIFICATI I hereby certify that the well localism shows was picited from field notes of actual surveys made or under my supervision, and that the same is in: correct to the best of my belief. NMSF - 079731 April 23, 1998 Date of Survey NMSF 079731 2050' 7016 AKOI SZZZOR

· 5280'(R) 🚕 ·

7016 Certificate Number



Burlington Resources Oil & Gas Company, LP San Juan Basin Pit Design and Construction Plan

In accordance with Rule 19.15.17 the following information describes the design and construction 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.

General Plan:

- BR will design and construct a properly sized and approved temporary pit which will contain liquids and solids and should prevent contamination of fresh water and protect public health and environment.
- Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3. BR will sign the well location in compliance with 19.15.3.103 NMAC.
- 4. BR shall construct all new fences around the temporary pit utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes.
- 5. BR shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure.
- BR shall construct the pit so that the slopes are no steeper than two horizontal feet to one vertical foot.
- 7. Pit walls will be walked down by a crawler type tractor following construction.
- 8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.
- All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. BR will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. BR will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. BR will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 13. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into lined drill pit.
- 16. The lower half of the blow pit (nearest lined pit) will be lined with a 20-mil, string reinforced, LLDPE liner. The upper half of the blow pit will remain unlined as allowed in Rule 19.15.17.11 F.11.
- 17. BR will not allow freestanding liquids to remain on the unlined portion of a temporary blow pit.

Burlington Resources Oil & Gas Company, LP San Juan Basin Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance 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.

General Plan:

- 1. BR will operate and maintain a temporary pit to contain liquids and solids and maintain the integrity of the liner and liner system to prevent contamination of fresh water and protect public health and environment.
- 2. BR will conserve drilling fluids by transferring liquids to pits ahead of the rigs whenever possible. All other drilling fluids will be disposed at Basin Disposal Inc., permit # NM-01-005.
- 3. BR will not discharge or store any hazardous waste in any temporary pit.
- 4. If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, then BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner.
- 5. If a leak develops below the liquid's level, BR shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner. BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels. BR shall notify the Aztec Division office as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.
- 6. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 7. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 8. BR shall immediately remove any visible layer of oil from the surface of the temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from the pit's surface. An oil absorbent boom will stored on-site until closure of pit.
- Only fluids generated during the drilling or workover process may be discharged into a temporary pit.
- 10. BR will maintain the temporary pit free of miscellaneous solid waste or debris.
- 11. During drilling operations, BR will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged in the IADC reports. BR will file this log with the Aztec Division office upon closure of the pit.
- 12. After drilling operations, BR will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at BR's office electronically and will be filed with the Aztec Division office upon closure of the pit.
- 13. BR shall maintain at least two feet of freeboard for a temporary pit.
- 14. BR shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the drilling rig.
- 15. BR shall remove all free liquids from a cavitation pit within 48 hours after completing cavitation. BR may request additional time to remove liquids from the Aztec Division office if it is not feasible to remove liquids within 48 hours.

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:

- 1. 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	// 1000/500

- 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. Forest Service 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.

Forest Service Seed Mix	Variety	Pounds/Acre
Indian ricegrass	Paloma	1.0
Western wheatgrass	Arriba	2.0
Blue Gramma	Hacheta or Alma	1.0
Antelope Bitterbrush	Unknown	.10
Four-wing saltbush	Unknown	.25
Pubescent wheatgrass	Luna	2.0
Intermediate wheatgrass	Oahe	2.0
Small burnet	Delar	1.0

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.