### District I

1625 N. French Dr , Hobbs, NM 88240

District II

1301 W Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

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

June 16, 2008 For temporary pits, closed-loop sytems, and below-grade

Form C-144

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

220 S. St. Francis Dr., Santa Fe, NM 87505	appropriate NMOCD District Office.
Pit, Closed-Loop System,	Below-Grade Tank, or KCVD JUL 22 '08
Proposed Alternative Method Per	mit or Closure Plan Application OIL CORS. DIV.
Type of action: X Permit of apply Tosed Don't system	, below-grade tank, or proposed alternative method
	n, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individu	
environment. Nor does approval relieve the operator of its responsibility to comply with	th 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	OSMDII. 14250
Facility or well name: San Juan 30-6 Unit #433	
· · · · · · · · · · · · · · · · · · ·	D Permit Number:
U/L or Qtr/Qtr: L(NWSW) Section: 11 Township: 30N	Range: 6W County: Rio Arriba
	ongitude: 107.43660'W NAD: X 1927 1983
	I Trust or Indian Allotment
X Pit: Subsection F or G of 19.15.17.11 NMAC	Closed-loop Systems: Subsection H of 19.15.17.11 NMAC
Temporary: Drilling X Workover	Drying Pad Tanks Haul-off Bins Other:
Permanent Emergency Cavitation	Lined Unlined
X Lined Unlined	Liner type: Thickness mil LLDPE HDPE PVC
Liner type: Thickness 20 mil X LLDPE HDPE PVC	Other:
Other X String-Reinforced	Seams: Welded Factory Other:
Seams: X Welded X Factory Other	Volume:bblyd3
Volume: <u>7000</u> bbl Dimensions: L <u>120'</u> xW <u>55'</u> xD <u>12'</u>	Dimernsions: Lengthx Width
Below-grade tank: Subsection I of 19 15.17.11 NMAC	Fencing: Subsection D of 19 15.17 11 NMAC
Volume: bbl Type of fluid:	Chain link, set feet in height. Evel strangs of barbed wire at top
Tank Construction Material:	Four foot scient, loss strands by barbed wire evenly spaced between
Secondary containment with look detection	Netting: Subsection E of 19.15.17.11
Die Company	Screen Netting Other
Visible sidewalls and liner	Monthly inspections
Visible sidewalls only	Signs: Subsection C of 19 15.17.11 NMAC
Other:	12"x 24", 2" lettering, provided Operator's name, site location, and
Liner type: Thickness: mil HDPE PVC	emergency telephone numbers
Other:	X Signed in compliance with 19.15.3.103 NMAC
	Signed in compriance with 15.15.5.105 (NMAC
Alternative Method:	Administrative Approvals and Exceptions:
Submittal of an exception request is required. Exceptions must be	Justifications and/or demonstrations of equivalency are required. Please
submitted to the Santa Fe Environmental Bureau office for consideration of approval.	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:
	X Administrative approval(s): Requests must be submitted to the
	appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval. (Fencing in Design Plan)
	Exception(s): Requests must be submitted to the Santa Fe
	Environmental Bureau office for consideration of approval.

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	X No		
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	X No		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo		
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	$\prod$ 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)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA			
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	Yes	X No		
- 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 inspection (certification) of the proposed site	Yes	XNo		
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	□Yes	XNo		
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	XNo		
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 de	ocuments ar	e attached.		
X   Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC   X   Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC   X   Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC   X   Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   X   Operating and Maintence Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   X   Closure Plan - 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 API Number: 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 (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations (required 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 - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC				

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				
D 101 1015 1712 NIMAG				
Proposed Closure: 19.15.17.13 NMAC				
Type: Drilling X Workover Emergency Cavitation Permanent Pit Below-grade Tank Closed-loop System Alteri	native			
Proposed Closure Waste Excavation and Removal				
Non-site Closure Method (only for temporary pits and closed-loop				
XIn-place On-site Trench				
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau f	or			
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC				
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommentations 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. Justification and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.				
Ground water is less than 50 feet below the bottom of the buried waste.	Yes X No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ <sup>NA</sup> □			
Ground water is between 50 and 100 feet below the bottom of the buried waste	X Yes □ No			
- NM Office of the State Engineer - iWATERS database serach; USGS; Data obtained from nearby wells	∐NA			
Ground water is more than 100 feet below the bottom of the buried waste.	☐ Yes X No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□NA			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lal	∏Yes XNo			
(measured from the ordinary high-water mark).				
- Topographic map; Visual inspection (certification) of the proposed site	□ V = • ™ N =			
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes <b>X</b> No			
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic	Yes X No			
or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time	L resigno			
of 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	Yes X No			
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.				
proposed site				
Within the area overlying a subsurface mine.	Yes X No			
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	LIESTINO			
·				
Within an unstable area.				
Fingingering measures incorporated into the decign: NM Divious of Coolem. 9- Mineral Decomposition NIM	Yes X No			
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society: Tonographic man	Yes X No			
Geological Society; Topographic map				
	Yes X No			

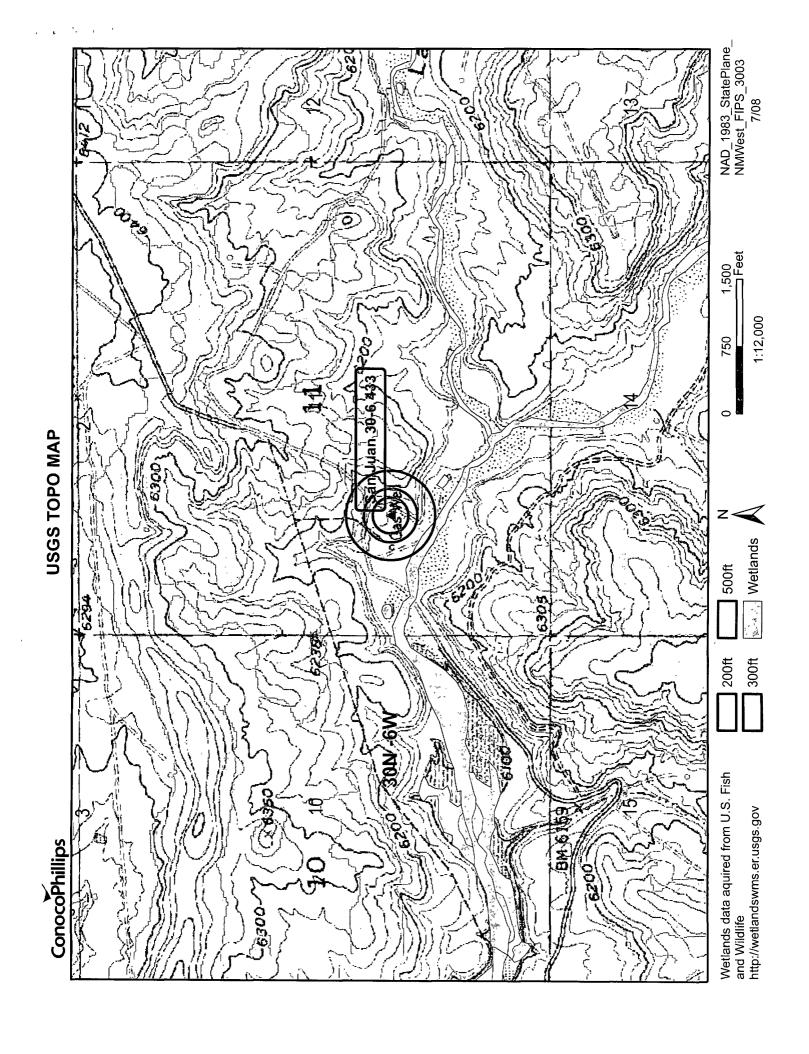
	Waste Excavation and Removal Closure Plan Checklist: (19 15.17.13 NMAC) Instructions: Each of the following items must be attached			
to the closure plan. Please indicfate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC				
Confirantion 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 Subs	ection I of 19.15 17 13 NMAC			
Site Reclamation Plan - based upon the appropriate requirements of S	absection G of 19 15.17.13 NMAC			
Waste Removal Closure for Closed-loop Systems That Utilize Haul-off facilities for the disposal of liquids, drilling fluids and drill cuttings.	Bins Only: (19 15 17 13 D NMAC) Instructions: Please identify the facility or			
Disposal Facility Name:	Disposal Facility Permit Number.			
On-Site Closure Plan Checklist: (19 15 17.13 NMAC) Instructions: Each of the check mark in the box, that the documents are attached.	following items must bee attached to the closure plan. Please indicate, by a			
X Siting Criteria Compliance Demonstrations - based upon the appropri	ate requirements of 19.15.17.10 NMAC			
X Proof of Surface Owner Notice - based upon the appropriate requirem	ents of Subsection F of 19.15.17.13 NMAC			
X Construction and Design of Burial Trench (if applicable) based upon	he appropriate requirements of 19 15 17.11 NMAC			
X Protocols and Procedures - based upon the appropriate requirements of	f 19.15.17.13 NMAC			
X Confirmation Sampling Plan (if applicable) - based upon the appropris	-			
Waste Material Sampling Plan - based upon the appropriate requirement				
X Disposal Faculity Name and Permit Number (for liquids, drilling fluids)	~			
X Soil Cover Design - based upon the appropriate requirements of Subso				
X Re-vegetation Plan - based upon the appropriate requirements of Subs				
X Site Reclamation Plan - based upon the appropriate requirements of S	absection G of 19 15 17.13 NMAC			
Operator Application Certification:				
I hereby certify that the information submitted with this application is true, accura				
Name (Print) Crystal Tafoya	Title: Regulatory Technician			
Signature: Constal Jalaya	Date <u> 1/21/08</u>			
e-mail address: <u>crystal.tafoya@conccophillips.com</u>	Telephonel 505-326-9837			
OCD Approval: Permit Application (including closure plan)	Closure Plan (only)			
OCD Representative Signature:	Approval Date:			
OCD Representative Signature:  Title:				
Title:	Approval Date:  OCD Permit Number.			
	Approval Date:  OCD Permit Number.			
Title:  Closure Report (required within 60 days of closure completion): Subsection K of 19 15	Approval Date:  OCD Permit Number.  17 13 NMAC			
Closure Report (required within 60 days of closure completion): Subsection K of 19 15  Closure Method:	Approval Date:  OCD Permit Number.  17 13 NMAC  Closure Completion Date:			
Title:  Closure Report (required within 60 days of closure completion): Subsection K of 19 15  Closure Method:	Approval Date:  OCD Permit Number.  17 13 NMAC			
Closure Method:  Waste Excavation and Removal  Title:  Closure Report (required within 60 days of closure completion): Subsection K of 19 15	Approval Date:  OCD Permit Number.  17 13 NMAC  Closure Completion Date:  ernative Closure			
Closure Report (required within 60 days of closure completion): Subsection K of 19 15  Closure Method:  Waste Excavation and Removal  on-Site Closure  All  fl different from approved plan, please explain  Closure Report Attactment Checklist: Instructions: Each of the following item box, that the documents are attached.	Approval Date:  OCD Permit Number.  17 13 NMAC  Closure Completion Date:  ernative Closure			
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Closure Report (required within 60 days of closure completion): Subsection K of 19 15  Closure Method:  Waste Excavation and Removal On-Site Closure Ali  If different from approved plan, please explain  Closure Report Attactment Checklist: Instructions: Each of the following item box, that the documents are attached.  Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	Approval Date:  OCD Permit Number.  17 13 NMAC  Closure Completion Date:  ernative Closure			
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Closure Report (required within 60 days of closure completion): Subsection K of 19 15  Closure Method:  Waste Excavation and Removal On-Site Closure Ali  If different from approved plan, please explain  Closure Report Attactment Checklist: Instructions: Each of the following item box, that the documents are attached.  Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Latitude:	Approval Date:  OCD Permit Number.  17 13 NMAC  Closure Completion Date:  ernative Closure  s must be attached to the closure report. Please indicate, by a check mark in the			
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Closure Report (required within 60 days of closure completion): Subsection K of 19 15  Closure Method:  Waste Excavation and Removal  If different from approved plan, please explain  Closure Report Attactment Checklist: Instructions: Each of the following item box, that the documents are attached.  Proof of Closure Notice  Proof of Deed Notice (if applicable)  Plot Plan  Confirmation Sampling Analytical Results  Waste Material Sampling Analytical Results  Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)  On-site Closure  Latitude:  Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is triclosure complies with all applicable closure requirements and conditions specified in the applicable	Approval Date:  OCD Permit Number.  17 13 NMAC  Closure Completion Date:  ernative Closure  s must be attached to the closure report. Please indicate, by a check mark in the  Longitude:  NAD:  1927  1983  1983			
Closure Report (required within 60 days of closure completion): Subsection K of 19 15  Closure Method:  Waste Excavation and Removal On-Site Closure Ali  If different from approved plan, please explain  Closure Report Attactment Checklist: Instructions: Each of the following item box, that the documents are attached.  Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Latitude:  Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is to	Approval Date:  OCD Permit Number.  17 13 NMAC  Closure Completion Date:  ernative Closure  s must be attached to the closure report. Please indicate, by a check mark in the  Longitude:  NAD:  1927  1983  1983			
Closure Report (required within 60 days of closure completion): Subsection K of 19 15  Closure Method:  Waste Excavation and Removal  If different from approved plan, please explain  Closure Report Attactment Checklist: Instructions: Each of the following item box, that the documents are attached.  Proof of Closure Notice  Proof of Deed Notice (if applicable)  Plot Plan  Confirmation Sampling Analytical Results  Waste Material Sampling Analytical Results  Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)  On-site Closure  Latitude:  Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is triclosure complies with all applicable closure requirements and conditions specified in the applicable	Approval Date:  OCD Permit Number.  17 13 NMAC  Closure Completion Date:  ernative Closure  s must be attached to the closure report. Please indicate, by a check mark in the  Longitude:  NAD:  1927  1983  1983			

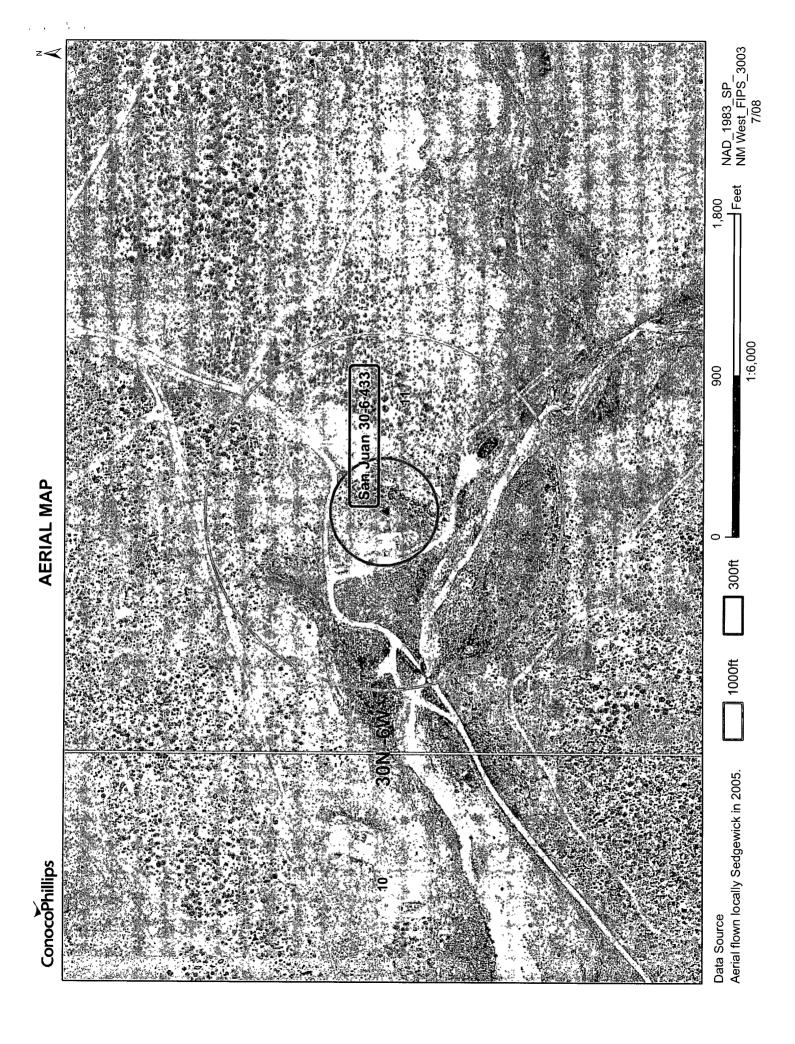
Page 4 of 4

Form C-144 Oil Conservation Division

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

Township: 30N Range: 06W Sections: 1,2,3,10,11,12,13,14,15						
NAD27 X	<b>(:</b> )	Y:	Zone:		Search Radius:	
County:		Basin:			Number:	Suffix:
Owner Name: (Fin	rst)		(Last) <b>②</b> All	, 	○ Non-Domestic	O Domestic
POD / Surface Data Report Avg Depth to Water Report  Water Column Report						
Clear Form iWATERS Menu Help						
WATER COLUMN REPORT 07/18/2008						
			2=NE 3=SW 4=S est to smalles q q Zone	-	Depth Y Well	Depth Wate Water Colum

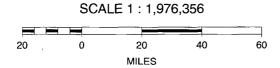




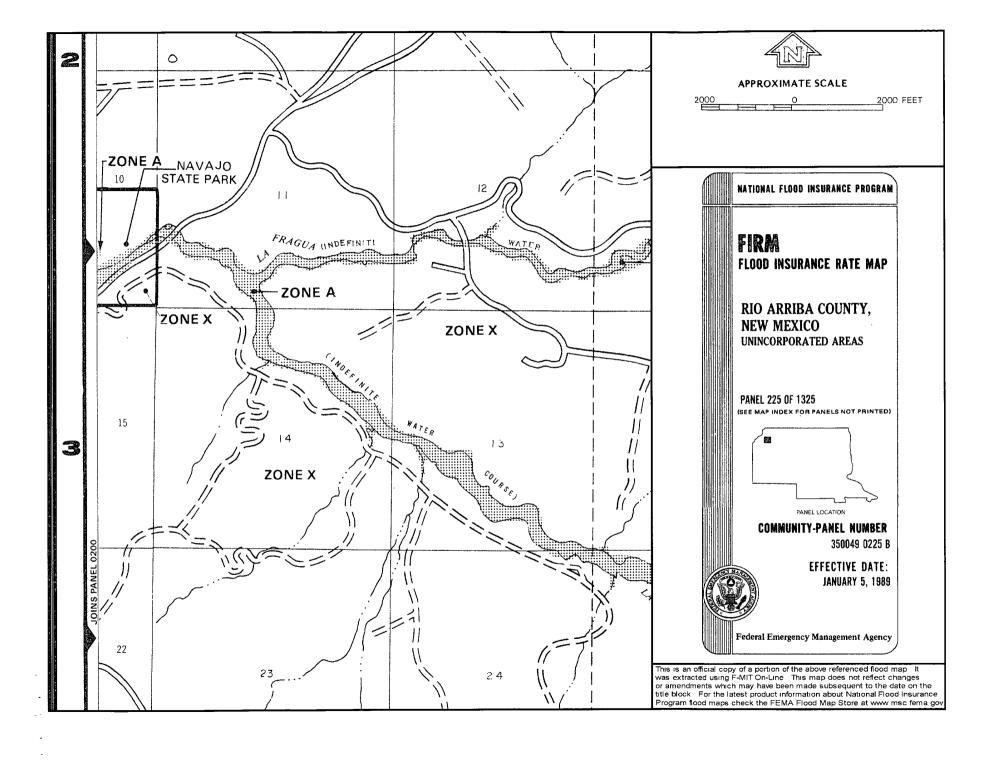
### San Juan 30-6 Unit #433 Mines, Mills and Quarries Web Map











### **Siting Criteria Compliance Demonstrations**

The San Juan 30-6 Unit 433 is not located in an unstable area. The location is not over a mine and is not on the side of a hill. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse.

### **Wetland Requirements**

The San Juan 30-6 Unit 433 is located near a possible wetland as indicated on the topographic map provided with information from the USGS. Due to this a field inspection was performed on July 15th, 2008 and it was determined the subject well does not meet the criteria of a wetland as defined by the Oil Conservation Division. I hereby certify the above statement is true and accurate to the best of my ability.

7/21/08

### Hydrogeological report for San Juan 30-6 Unit #433

### 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.

### STATE OF NEW MEXICO SMERGY MID MINERALS DÉPARTMENT

## OIL CONSERVATION DIVISION P. O. BOX 2008 SANTA FE, NEW MEXICO 87501

Fera C-102 Revised 10-1-72

All distances must be from the outer boundaries of the Section OFL, INC. SAN JUAN 30-6 UNIT (NM-06283) 433 30-N 6-W RIO ARRIBA feet from the SOUTH 1175 WEST Ground Lovel Day. Fruitland COAL Undesignated 6136 160 ACTUS 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? If answer is "yes;" type of consolidation unitization If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division CERTIFICATION I hereby certify that the information co Drilling Clerk El Paso Natural Gas JUNI 6 1988 1175' OIL CON. BIV. Dist. g ISAAC L. WEAVER Registered Projessional Engineer Certificate No. 8966 1320 1400 1900 2310 1000

# 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:

1 1

- 1. BR will design and construct a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3. BR will post a well sign, not less than 12" by 24", on the well site prior to construction of the temporary pit. The sign will list the operator on record as the operator; the location of the well site by unit letter, section, township range; and emergency telephone numbers.
- 4. BR shall construct all new fences 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 1 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.
- 9. Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.
- 10. 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 the same 20 mil 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 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.
- 9. 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 or workover 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 or workover 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.
- 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 as per the approved closure plan using 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 to the Aztec Division office between 72 hours and one week of closure 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 a licensed disposal facility.
- 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. A five point composite sample will be taken from the cavitation pit pursuant to 19.15.17.13(B)(1)(b)(i) in order to assure there has not been any type of release.

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	500

- 10. 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.
- 11. 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.
- 12. 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
- 13. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping 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.
- 14. Notification will be sent to OCD when the reclaimed area is seeded.
- 15. 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 or 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.

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) Source No. two (better quality) Purity 50 percent 80 percent Purity Germination 40 percent Germination 63 percent Percent PLS 20 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

16. 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.

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

(Submit 3 copies to OCD Aztec Office)

30-039-2424	11
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Operator MERIDIAN OIL INC.	Location: Unit L Sec. 11 Twp30 Rng 6
Name of Well/Wells or Pipeline Service	ced SAN JUAN 30-6 UNIT #433
	cps 2059w
Elevation6136' Completion Date 12/9/88	Total Depth 300' Land Type* N/A
Casing, Sizes, Types & Depths	N/A
If Casing is cemented, show amounts a	types used N/A
If Cement or Bentonite Plugs have bee	en placed, show depths & amounts used
Depths & thickness of water zones wit Fresh, Clear, Salty, Sulphur, Etc	th description of water when possible:
Depths gas encountered: N/A	
Type & amount of coke breeze used:	N/A
Depths anodes placed: 290', 265', 250', 1	85', 165', 145', 135', 125', 115', 100'
Depths vent pipes placed: 300'	DEGFIAE
Vent pipe perforations: 2601	MAY 31 1991.
Remarks: -gb #3	OIL COM. DIV.
	/ DIST: 13

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.

7.55%

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

