## **REGISTERED**

State of New Mexico

Energy Minerals and Natural Resources

July 21, 2008

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

Form C-144

13v1 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Type of action:

1625 N. French Dr., Hobbs, NM 88240

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

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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District I

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

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 30-6 UNIT 47A
API Number: 3003925593 OCD Permit Number:
U/L or Qtr/Qtr: J Section: 32 Township: 30N Range: 7W County: Rio Arriba
Center of Proposed Design: Latitude: 36.76638°N Longitude: -107.5901°W NAD: X 1927 1983  Surface Owner: Federal X State Private Tribal Trust or Indian Allotment
Permanent Emergency Cavitation P&A  Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other  String-Reinforced  Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC  Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other Liner Seams: Welded Factory Other
X   Below-grade tank:   Subsection I of 19.15.17.11 NMAC
5 Alternative Method:

12/22/2008

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

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Fencing: Subsection D of 19.15.17.11 NMAC es 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 Four foot height, four strands of barbed wire evenly spaced between one and four feet  X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.	al, institution o	r church)	
- CAR AND PROCESS VIOLES AND ADDRESS OF THE STATE OF THE			
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)    X   Screen	The Court of the C	Tally Carlos Services	e trans
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:			
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for (Fencing/BGT Liner)	consideration (	of approval.	
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.  - 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.	Yes	XNo	
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)			
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐ ☐NA		
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	No	
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	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	XNo	
<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> </ul>			
Within 500 feet of a wetland.	Yes	X No	
<ul> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division</li> </ul>	Yes	X No	
Within an unstable area.		_	
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS: NM Geological Society; Topographic map	Yes	X No	
Within a 100-year floodplain - FEMA map	Yes	XNo	
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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.  X Hydrogeologic Report (Below-grade Tanks), besed were the	
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 Pite) - 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  X Siting Criteria Compliance Demonstrations - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9	
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 19.15.17.10 NMAC	
and appropriate requirements of 19.15.17.11 NMAC	
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  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  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.  Subsection B of 19.15.17.19 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     Climatological Factors Assessment     Certified Engineering Design Plans - 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     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     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: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System  Alternative  Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)  Waste Removal (Closed-loop systems only)  On-site Closure Method (only for temporary pits and closed-loop systems)  In-place Burial On-site Trench  Alternative Closure Method (Exceptions must be submitted to the Grade Fig. 19.15.17.13 NMAC	
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   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 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	

Waste Removal Closure For Closed-loop Systems That Hilling About Co. 100	
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D N Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more the are required.	MAC) an two facilities
Disposal Facility Name	
Disposal Facility Name:	The second secon
Yes (If yes, please provide the information No	uture service and operations?
Required for impacted areas which will not be used for future service and appreciate	
Soil Backfill and Cover Design Specification - based upon the appropriate requirement	NMAC
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13  Site Reclamation 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	
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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. Recommendations of acceptable source material are provide certain siting criteria may require administrative approach.	led below. Requests regarding changes to
	d to the Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.  NM Office of the State Engineer (WATERS to a second sec	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□N/A
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes 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 application.  - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes 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.  Within incorporated municipal boundaries or within a position of the proposed site.	Yes No
pursuant to NMSA 1978, Section 3-27-3, as amended	Yes No
<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland</li> </ul>	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine.	
<ul> <li>Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division</li> <li>Within an unstable area.</li> </ul>	Yes No
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society;	Yes No
Within a 100-year floodplain.	_
- FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closed wark in the box, that the documents are attached.	sure plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 10.15.17.10.2004.	
Troof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 10.15.17.12 NAAG	
Constitution/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 10.15.17.14.24.24.24.24.24.24.24.24.24.24.24.24.24	
Construction Design Flan of Temporary Pit (for in place burial of a drying pad) - based upon the	19 15 17 11 NMAG
- are appropriate requirements of 19.15.17.13 NM AC	- 1
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
The state of Subsection F of 10 15 17 12 NAMES	1
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards of Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	annot be achieved)
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	

	Crystal Fafoya	urate and complete to the best of my knowledge and belief.  Title: Regulatory Tychnician
Signature:	Constil gafage	regulatory reclinician
e mail address:	1 13514l 13fova @ conocoprollips.com	12/22/2008
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The state of the s	nere tree nampenancies de la langue	The second secon
DCD Approval: Pern	nit Application (including closure plan)	Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signa	ature:	
Title:		Approval Date:
ine;		OCD Permit Number:
11		
losure Report (required	within 60 days of closure completion): Substitute of the completion of the completio	ection V of 10 15 17 12 Vives
pproved closure plan has been	ed to the division within 60 days of the completion obtained and the closure activities have been co	omplementing any closure activities and submitting the closure report. The closure on of the closure activities. Please do not complete this section of the form until an
	to the control activities have been to	mpleteu.
		Closure Completion Date:
losure Method:		
Waste Excavation and R	Removal Do- in Cl.	
If different from approve		Alternative Closure Method Waste Removal (Closed-loop systems only)
	Plan, piease explain.	
OSUTE Report Reporting Wa	oto D	
structions: Please identify the	ste Removal Closure For Closed-loop Systems	That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
re utilized.	yacting or factimes for where the liquias, arithmetic	That Utilize Above Ground Steel Tanks or Haul-off Bins Only:  ng fluids and drill cuttings were disposed. Use attachment if more than two facilities
Disposal Facility Name:		Disposal Facility Permit Number:
Disposal Facility Name:		Disposal F. His B
Var (16 area = 1	operations and associated activities performed on	or in areas that will not be used for future service and operations?
1 cs (ii yes, please demor	nstrate complilane to the items below)	No.
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Required for impacted areas v	which will not be used for future service and one	
Required for impacted areas (  Site Reclamation (Photo)	which will not be used for future service and oper Documentation)	
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Required for impacted areas of Site Reclamation (Photo)  Soil Backfilling and Cove Re-vegetation Application  Closure Report Attachment the box, that the documents and Proof of Closure Notice Proof of Deed Notice (red)  Proof of Deed Notice (red)  Plot Plan (for on-site clo)  Confirmation Sampling Waste Material Sampling Disposal Facility Name and Soil Backfilling and Covernity Re-vegetation Application Site Reclamation (Photo On-site Closure Location Construction of Closure Certification of Closure Certification of Closure Certification of Closure Certification of Construction of Closure Certification of Closure	which will not be used for future service and open Documentation) or Installation in Rates and Seeding Technique  Int Checklist: Instructions: Each of the following attached.  (surface owner and division) equired for on-site closure) issures and temporary pits)  Analytical Results (if applicable) and Permit Number or Installation on Rates and Seeding Technique Documentation) : Latitude:	ing items must be attached to the closure report. Please indicate, by a check mark in  Longitude:NAD
Required for impacted areas of Site Reclamation (Photo)  Soil Backfilling and Cove Re-vegetation Application  Closure Report Attachment the box, that the documents and Proof of Closure Notice Proof of Deed Notice (red)  Proof of Deed Notice (red)  Confirmation Sampling Waste Material Sampling Waste Material Sampling Disposal Facility Name and Soil Backfilling and Covered Re-vegetation Application Site Reclamation (Photo On-site Closure Location Construction of the Confirmation of t	which will not be used for future service and open Documentation) or Installation in Rates and Seeding Technique  Int Checklist: Instructions: Each of the following attached.  (surface owner and division) equired for on-site closure) issures and temporary pits)  Analytical Results (if applicable) and Permit Number or Installation on Rates and Seeding Technique Documentation) : Latitude:	ing items must be attached to the closure report. Please indicate, by a check mark in  Longitude:NAD
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#### New Mexico Office of the State Engineer POD Reports and Downloads

Township: 29N Range: 07W	Sections:
NAD27 X: Y:	Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First) (Last)	C Non-Domestic C Domestic C All
POD / Surface Data Report Avg D	epth to Water Report Water Column Report
Clear Form	WATERS Menu Help

#### WATER COLUMN REPORT 08/20/2008

							3=SW 4=SE) smallest)							
POD Number	Tws	Rng					Zone	x	Y	Depth Well	Depth Water	Water	(in	feet)
SJ 00580	29N	07W	05	2	3				_	***************************************	160	COTUM		
SJ 02636	29N	07W	05	3	1	2				300	200	100		
SJ 03453	29N	07W	05	4	1	4				355		100		
SJ 00541	29N	07W	06	1	4	4				360	20	335		
SJ 00807	29N	07W	06	2	4	_				290	360			
SJ 01199	29N	07W	09			4					255	35		
SJ 03390	29N	07W			2	-				265	125	140		
SJ 00053	29N	07W		3	4	-				320	120	200		
SJ 01228	29N	07W		2	1					. 536	460	76		
SJ 02891	29N	07W			3	2				285	205	80		:
SJ 03391	29N					_				210	160	50		•
SJ 03573	_	07W		_	3	_				210:				
	_ 29N	07W			4	-				900				
SJ 01112	_ 29N	07W		2		4	:			2453	900	1553		
SJ 00039	_ 29N	07W	29	3	2					585	435	150		

Record Count: 14

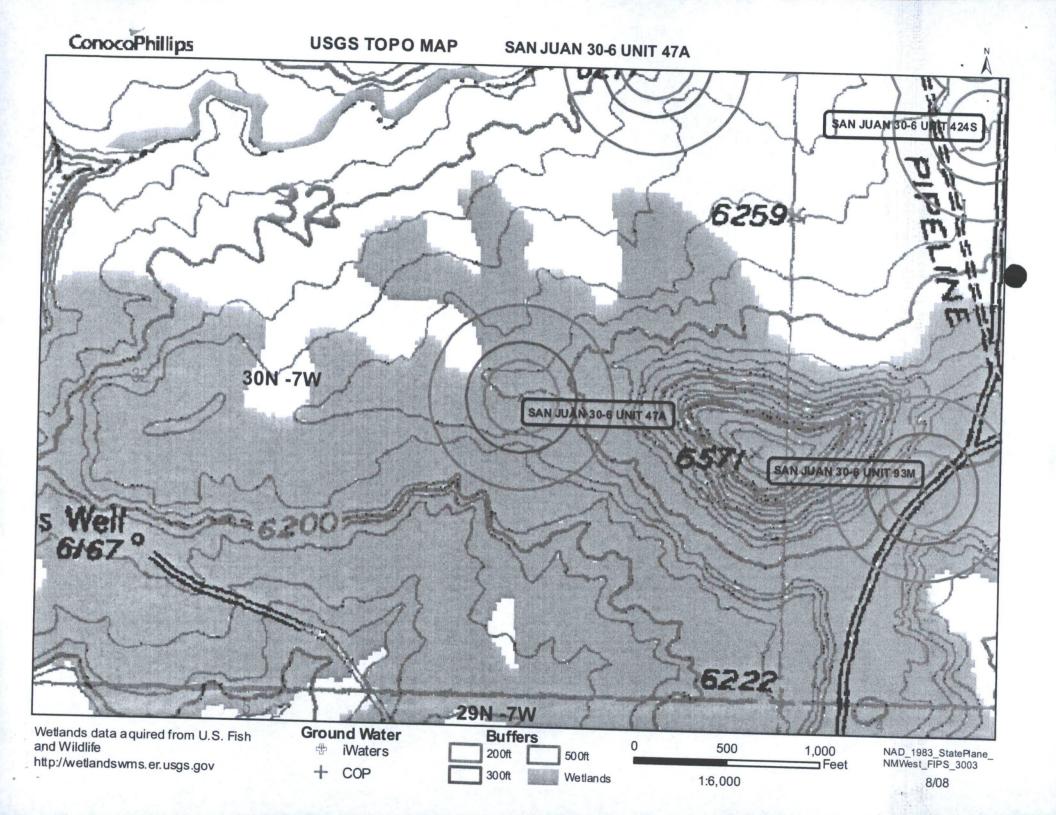
### New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30N Range: 07W Sections:
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) C Non-Domestic C Domestic C All
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form iWATERS Menu Help

#### WATER COLUMN REPORT 08/21/2008

	(quarter	s are	<b>=</b> 1=	MM	2=	=NE	3=SW	4=SE)						
	(quarter	s are	e bi	gg	est	: to	smal	lest)		Depth	Depth	ToT- 4		
POD Number	Tws	Rng					Zone	-	Y	Well	Water	Water	(in	reet)
SJ 02698	30N	07W		3	1	_			-	402		Column		
SJ 02366	30N	07W		3	1		C	114800	2117300		255	147		
SJ 03640	30N	07W		3	1	1	-	114000	211/300	345	225	120		
SJ 00837	30N	07W		4	4	_				433	241	192		
SJ 03385	30N		17	1		4				400				
SJ 03006	30N		24	1	3	_				520	460	60		
SJ 03082	30N		24	7	_	1				100				
SJ 03485				3	1	1				98	61	37		
SJ 02818	30N	07W		3	1	1				. 126	60	66		
	30N	07W		3		2				86	42	44		
SJ 03773 POD1	30N	07W		3	1	2		126639	2112238	120	70	50		
SJ 03053	30N	07W	24	3	4	4				200		30		
SJ 03075	30N	07W	25	1	2	1				165	78	87		
SJ 03774 POD1	30N	07W	25	1	3	3		126554	2107670	300	220			
SJ 02983	30N	07W	25	1	4	3				262	40	80		
SJ 00035	30N	07W	33	4	2	2				547	100	222		
SJ 03301	30N	07W	34	4	4	4					467	80		
					_					21	10	11		

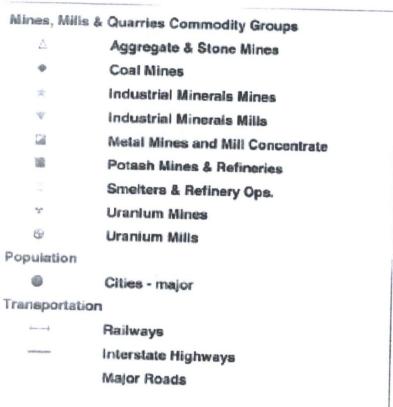
Record Count: 16



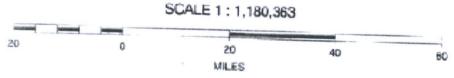
# Mines, Mills and Quarries Web Map

SAN JUAN 30-6 UNIT 47A

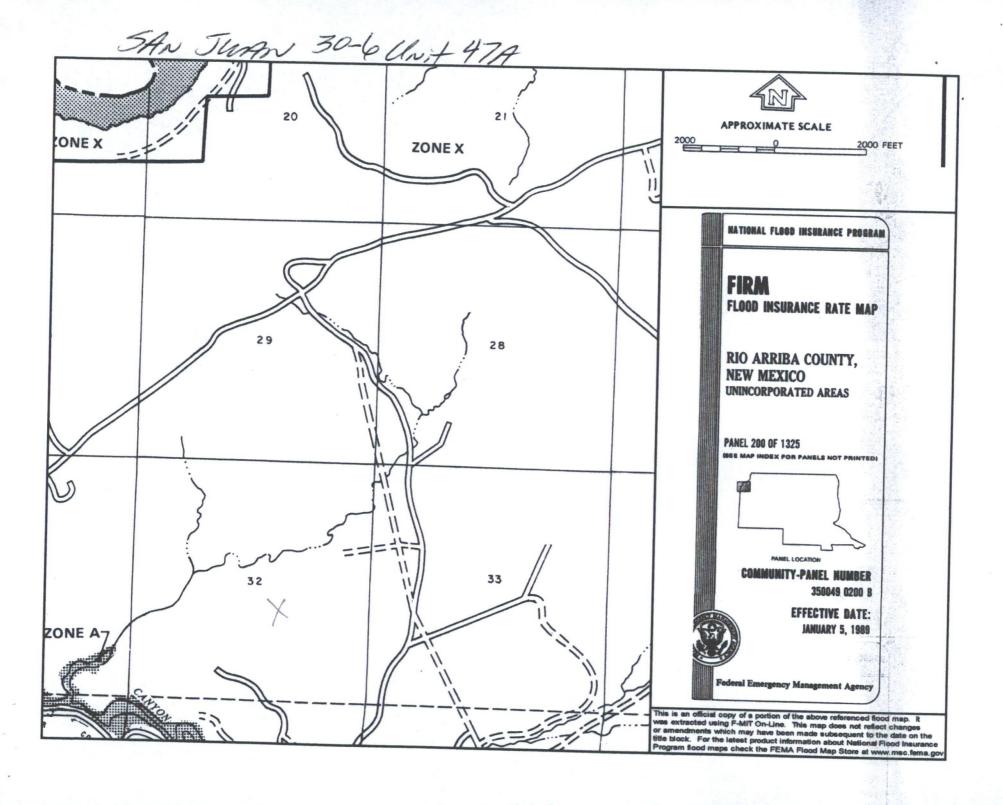
Unit Letter: J, Section: 32, Town: 030N, Range: 007W











#### SAN JUAN 30-6 UNIT 47A

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAN JUAN 30-6 UNIT 47A', which is located at 36.76638 degrees North latitude and 107.5901 degrees West longitude. This location is located on the Navajo Dam 7.5' USGS topographic quadrangle. This location is in section 32 of Township 30 North Range 7 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in Rio Arriba County, New Mexico. The nearest town is Turley, located 10.7 miles to the west. The nearest large town (population greater than 10,000) is Farmington, located 34.2 miles to the west (National Atlas). The nearest highway is State Highway 539, located 0.8 miles to the southwest. The location is on State land and is 1,329 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1920 meters or 6297 feet above sea level and receives 14 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Greasewood Flat as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 297 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' Cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 1,691 feet to the northwest and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 2,869 feet to the northwest. The nearest water body is 3,908 feet to the southeast. It is classified by the USGS as an intermittent lake and is 0.6 acres in size. The nearest spring is 18,221 feet to the northwest. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 3,555 feet to the south. The nearest wetland is a 3.9 acre Riverine located 1,719 feet to the northwest. The slope at this location is 3 degrees to the west as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is SAN JOSE FORMATION--Siltstone, shale, and sandstone with a Sandstone dominated formations of all ages substrate. The soil at this location is 'Vessilla-Menefee-Orlie complex, 1 to 30 percent slopes' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 14.9 miles to the east as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

#### 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.

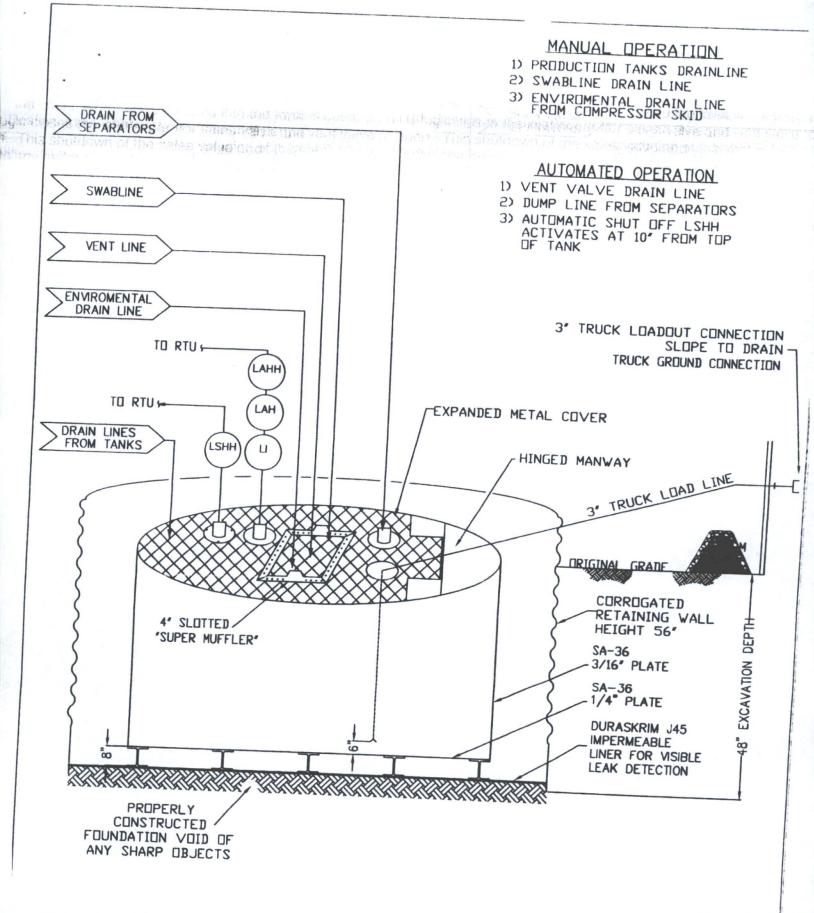
### Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to this plan.

#### General Plan:

- BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

- 9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from BR's compressor skid under normal operating conditions is in the open position. The environmental our compressor skids. The swab drain line is a manually operated drain and by normal operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- 11. The general specification for design and construction are attached in the BR document.



## ConocoPhillips

San Juan Business Unit

PRODUCED WATER PIT TANK OPEN TOP GRAVITY FLOW TANK INTERNALLY COATED WITH 12-14 MILS AMERON AMERCOAT 385

PROPERTIES	TEST METHOD		130BB	₩ 1 J	36BB	The Manual Control of the Control of	45B <b>B</b>
Anna		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Ro Averages	Min. Roll	Typical Ro
Appearance		Bla	ick/Black		ck/Black	- I agos	Averages
Thickness	ASTM D 5199	27 mil	30 mil	-		Blac	ck/Black
Weight Lbs Per MSF	ASTM D 5261	126 lbs	140 lbs	32 mil	36 mil	40 mil	45 mil
Construction	+	(18.14)	(20.16)	(21.74)	(24.19)	(27.21)	210 lbs (30.24)
Ply Adhesion	10711	"Ex	trusion laminate	d with encapsu	lated tri-direction	onal scrim reinfo	rcement
The same of the sa	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
1* Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD	550 MD	105 lbf DD 750 MD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD	750 DD 36 MD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	20 DD 100 lbf MD 100 lbf DD	36 DD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	118 lbf DD 257 lbf MD 258 lbf DD
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD
Dimensional Stability	ASTM D 1204	<1	<0.5	<1		ישט וטו טטי	191 lbf DD
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf		<0.5	<1	<0.5
Maximum Use Temperature		180° F		65 lbf	83 lbf	80 lbf	99 lbf
linimum Use Temperature			180° F	180° F	180° F	180° F	180° F
) = Machine Direction		-70° F	-70° F				

DD = Diagonal Directions



Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories.

\*Dimensional Stability Maximum Value

\*\*DURA-SKRIM J30BB, J36BB & J45BB are a four layer reinforced laminate containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. DURA-SKRIM J30BB, J36BB & J45BB are reinforced with a 1300 denier (minimum) tri-directional scrim reinforcement.

Note: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and

### PLANT LOCATION

Sioux Falls, South Dakota

#### SALES OFFICE

P.O. Box 5107 Sioux Falls, SD 57117-5107 (605) 335-0174 (605) 331-0333 FAX 800-635-3456

RAVEN INDUSTRIES