1625 N French Dr , Hobbs, NM 88240

State of New Mexico

Energy Minerals and Natural Resources

July 21, 2008 For temporary pits, closed-loop sytems, and below-grade

Form C-144

District II $1301\;W\;$ Grand Ave , Artesia, NM $\;88210\;$ District III

1000 Rio Brazos Rd, Aztec, NM 87410

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

tanks, submit to the appropriate NMOCD District Office

For permanent pits and exceptions submit to the Santa Fe

<u>strict IV</u> 20 S. St. Francis Dr., Santa Fe, NM 87505	Environmental Bureau office and provide a copy to the appropriate NMOCD District Office
Pit, Closed-Loop System, Belo	ow-Grade Tank, or
Proposed Alternative Method Permi	t or Closure Plan Application
Type of action: Permit of a pit, closed-loop system, bel	low-grade tank, or proposed alternative method
Closure of a pit, closed-loop system, be	elow-grade tank, or proposed alternative method
Modification to an existing permit	
X Closure plan only submitted for an exist below-grade tank, or proposed alternat	sting permitted or non-permitted pit, closed-loop system, ive method
Instructions: Please submit one application (Form C-144) per individual pit	t, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of hability sho environment. Nor does approval relieve the operator of its responsibility to comply with any of	•
perator: Burlington Resources Oil & Gas Company, LP	OGRID#: <u>14538</u>
ddress: PO Box 4289, Farmington, NM 87499	
cility or well name: San Juan 27-4 Unit 22M	
PI Number: 30-039-30450 OCD I	Permit Number.
L or Qtr/Qtr: L(NWSW) Section: 14 Township: 27N R	tange: 4W County: Rio Arriba
	gitude:107.225986' W NAD:1927\overline{X}_1983
ırface Owner: 🛛 Federal 🗌 State 🔲 Private 🔲 Trıbal Tı	rust or Indian Allotment
X Pit: Subsection F or G of 19.15.17.11 NMAC	
Temporary: X Drilling Workover	
Permanent Emergency Cavitation P&A	
	LLDPE HDPE PVC Other
X String-Reinforced	
Liner Seams: X Welded X Factory Other Volu	me. 4400 bbl Dimensions L 65' x W 45' x D 10'
Closed-loop System: Subsection H of 19 15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drillin notice of intent)	ng (Applies to activities which require prior approval of a permit or
Drying Pad Above Ground Steel Tanks Haul-off Bins Oth	122
Lined Unlined Liner type Thickness mil	LLDPE HDPE PVD Other

Alternative Method:

Tank Construction material:

Volume:

Liner Type:

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

Other

Below-grade tank: Subsection I of 19.15.17.11 NMAC

Secondary containment with leak detection

Thickness

Visible sidewalls and liner

bbl

mil

Type of fluid:

Visible sidewalls only

HDPE

Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

Other

DEC 2008

OIL CONS. DIV. DIS

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, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet					
Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top.		i			
7	-				
Netting: Subsection E of 19 15 17.11 NMAC (Applies to permanent pits and permanent open top tanks)					
Screen Netting Other					
Monthly inspections (If netting or screening is not physically feasible)					
Signs: Subsection C of 19.15.17.11 NMAC					
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers					
X Signed in compliance with 19 15.3.103 NMAC					
9					
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance					
Please check a box if one or more of the following is requested, if not leave blank:					
Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cons	ideration of an	proval			
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	acration or ap	provai.			
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					
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					
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 helow-grade tanks)	NA				
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image					
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent puts)					
- 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	No			
- 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	No			
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Within 500 feet of a wetland.				
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	No			
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes	No			
Within a 100-year floodplain - FEMA map	Yes	No			

Form C-144 Oil Conservation Division Page 2 of 5

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15.17 9 NMAC Instructions Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached					
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15.17.9 NMAC					
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15 17.9					
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17 10 NMAC					
Design Plan - based upon the appropriate requirements of 19 15.17.11 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 or Permit					
12					
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					
Situng 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 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 X Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System					
Alternative					
Proposed Closure Method. Waste Excavation and Removal					
Waste Removal (Closed-loop systems only)					
X On-site Closure Method (only for temporary pits and closed-loop systems)					
X In-place Burial On-site Trench					
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)					
Waste Excavation and Removal Closure Plan Checklist: (19.15.17 13 NMAC) Instructions: Each of the following items must be attached to the closure plan.					
Please indicate, by a check mark in the box, that the documents are attached.					
Protocols and Procedures - based upon the appropriate requirements of 19 15.17 13 NMAC					
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC					
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)					
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC					
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC					
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC					

Form C-144 Oil Conservation Division Page 3 of 5

16 Weste Personal Classus For Clased Ion Systems That Utilize Above Cround Steel Tonks	on Houl off Ding Only (10.15.17.12.D.NMAC)					
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids ar	d drill cuttings. Use attachment if more than two facilities.	es				
are required.	al Daville, Dannie H.					
Disposal Facility Name. Dispos Disposal Facility Name. Dispos	al Facility Permit #.					
Will any of the proposed closed-loop system operations and associated activities occur			ons?			
Yes (If yes, please provide the information No						
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection I o	f 19 15.17.13 NMAC					
Site Reclamation Plan - based upon the appropraite requirements of Subsection	G of 19.15 17 13 NMAC					
17 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 Recommen certain siting criteria may require administrative approval from the appropriate district office or may be for consideration of approval Justifications and/or demonstrations of equivalency are required Please	considered an exception which must be submitted to the Santa	Fe Environme	ntal Bureau office			
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 obtained from	m nearby wells	Yes [2	X No			
·		ᆜ _	No.			
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from	n nearby wells	∐Yes [ː ∏N/A	X No			
			\neg_{No}			
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - WATERS database search; USGS; Data obtained from	n nearhy wells	X Yes [N/A	No			
			e ly			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant water (measured from the ordinary high-water mark) - Topographic map; Visual inspection (certification) of the proposed site	ercourse or lakeded, sinknole, or playa take	Yes [X No			
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence	at the time of initial application	Yes [X No			
- Visual inspection (certification) of the proposed site, Aerial photo; satellite image	, at the time of findal application.		X No			
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five he purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the symmetry of the State Engineer - iWATERS database; Visual inspection (certification) of Within incorporated municipal boundaries or within a defined municipal fresh water well field pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality, Written approval obtained from	he time of the initial application. f the proposed site covered under a municipal ordinance adopted		X No			
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (c		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 I Within an unstable area. 	Division	Yes [X No			
Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Re Topographic map	esources; USGS; NM Geological Society,					
Within a 100-year floodplain FEMA map		Yes [X No			
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the f by a check mark in the box, that the documents are attached.	ollowing items must bee attached to the closure pla	ın. Please ir	ıdicate,			
X Siting Criteria Compliance Demonstrations - based upon the appropriate requir	ements of 19.15.17.10 NMAC					
X Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15 17.13 NMAC						
Construction/Design Plan of Burial Trench (if applicable) based upon the appro	opriate requirements of 19.15.17.11 NMAC					
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad)	- based upon the appropriate requirements of 19.15	.17.11 NMA	С			
X Protocols and Procedures - based upon the appropriate requirements of 19.15.1						
Confirmation Sampling Plan (if applicable) - based upon the appropriate require						
Waste Material Sampling Plan - based upon the appropriate requirements of Su						
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill	-	be achieved)			
X Soil Cover Design - 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 G of 19.15.17.13 NMAC 						

Form C-144 Oil Conservation Division Page 4 of 5

19	
Operator Application Certification: I hereby certify that the information submitted with this application is true, ac	ocurate and complete to the best of my knowledge and belief
Name (Print): Crystal Tafoya	Title: Regulatory Technician
Signature: Carotal Talor	11/210/08
e-mail address: crystal.tafoya@conocophillips.com	Telephone 505-326-9837
c-mail address.	303 320 7037
20 OCD Approval: Permit Application (including closure plan)	Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date: 12.3-08
Title: (Nin Gel	Approvia date:
Title: ENVIRONMENT	OCD Permit Number:
	or to implementing any closure activities and submitting the closure report. The closure etion of the closure activities Please do not complete this section of the form until an
22 Closure Method:	
Waste Excavation and Removal On-site Closure Method	Alternative Closure Method Waste Removal (Closed-loop systems only)
If different from approved plan, please explain.	
23	
Closure Report Regarding Waste Removal Closure For Closed-loop Syste	
Instructions: Please identify the facility or facilities for where the liquids, d were utilized.	lrilling fluids and drill cuttings were disposed. Use attachment if more than two facilities
Disposal Facility Name:	Disposal Facility Permit Number.
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performe	ed on or in areas that will not be used for future service and opeartions?
Yes (If yes, please demonstrate complilane to the items below)	No
Required for impacted areas which will not be used for future service and	operations:
Site Reclamation (Photo Documentation)	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
Closure Report Attachment Checklist: Instructions: Each of the father box, that the documents are attached.	following items must be attached to the closure report. Please indicate, by a check mark in
Proof of Closure Notice (surface owner and division)	
Proof of Deed Notice (required for on-site closure)	
Plot Plan (for on-site closures and temporary pits)	
Confirmation Sampling Analytical Results (if applicable)	
Waste Material Sampling Analytical Results (if applicable)	
Disposal Facility Name and Permit Number	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
Site Reclamation (Photo Documentation) On-site Closure Location: Latitude	Longitude: NAD 1927 1983
On-site Closure Location: Latitude	Longitude. NAD 1727 1763
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure complies with all applicable closure requirements and conditions	sure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that s specified in the approved closure plan.
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

New Mexico Office of the State Engineer POD Reports and Downloads

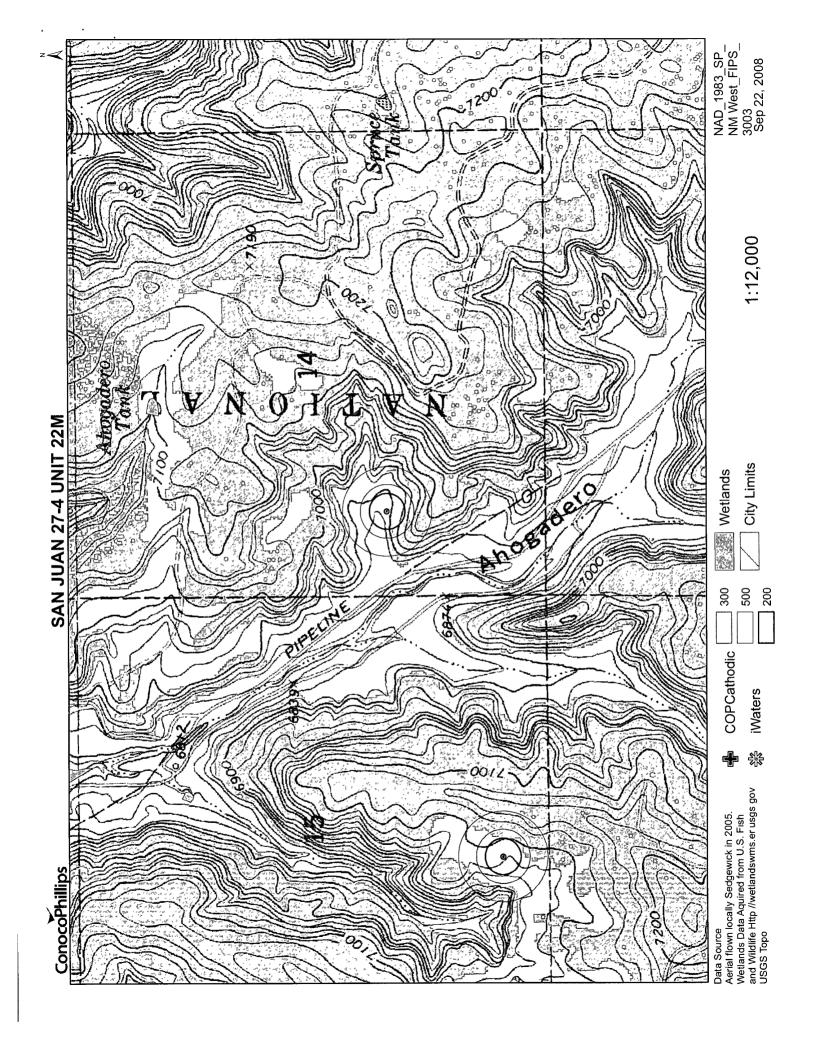
Township: 27N Range:	04W Sections:
NAD27 X: Y:	Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First)	(Last) O Non-Domestic O Domestic All
POD / Surface Data Report	Avg Depth to Water Report Water Column Report
Clear F	orm iWATERS Menu Help

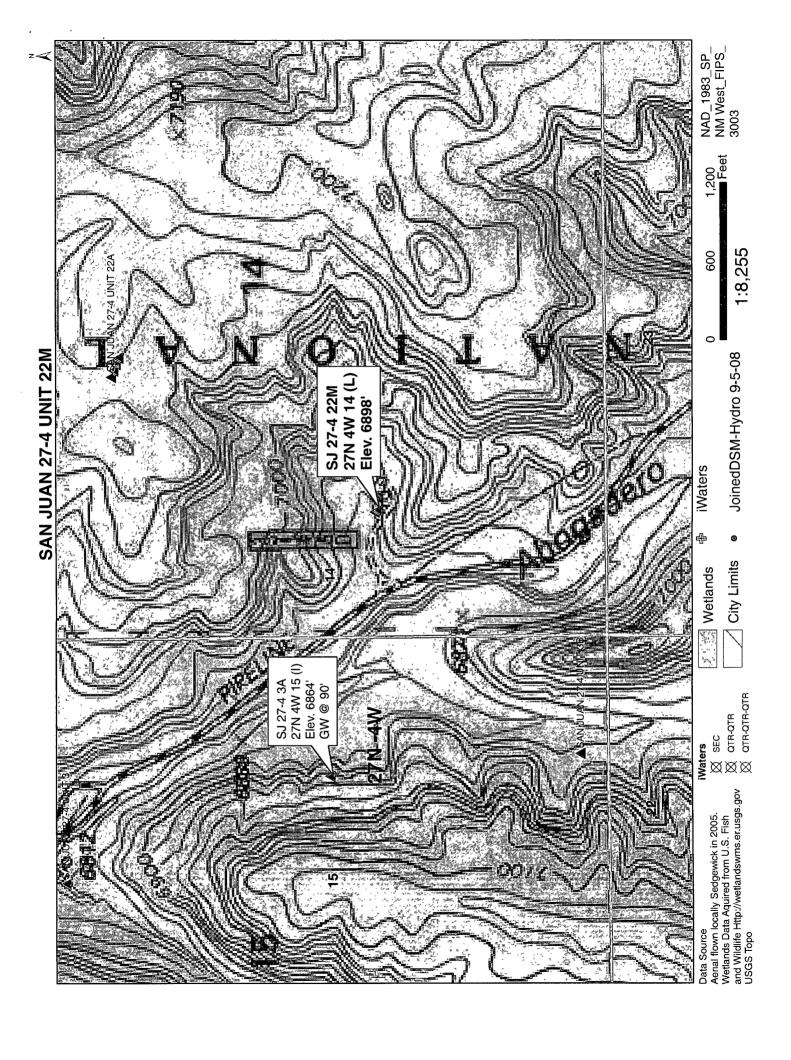
WATER COLUMN REPORT 11/18/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)

	(quarter	s are	e bi	gge	st	to	smallest)			Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	q	Œ	Œ	Zone	х	Y	Well	Water	Column	
SJ 00048	27N	04W	01							143			
SJ 01049	27N	04W	18	4	2	2				15			
SJ 01205	27N	04W	34	4	4	4				3054	750	2304	

Record Count: 3





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

Operator BullingTon RESCURCES Location: Unit 3-ASec. 15 Twp 27 Rng 4 VV
Name of Well/Wells or Pipeline Serviced
5727-4 Wait # 3A
Elevation Completion Date 5-7-99 Total Depth 320 Land Type 5F
Casing Strings, Sizes, Types & Depths
If Casing Strings are cemented, show amounts & types used
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. WATER 96'
Depths gas encountered: NOME
Ground bed depth with type & amount of coke breeze used:
Depths anodes placed: 310-304-390-381-276-276-264-258-220-214
Depths vent pipes placed: 18 370
Vent pipe perforations: 100
Remarks:
If any of the above data is unavailable, please indicate so. Copies of all ogs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included

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

State of New Mexico. Energy, Minerals & Natural Resources

Form C Revised February 21, Instructions on

Submit to Appropriate District C

State Lease - 4 C

OIL CONSERVATION DIVISION PO Box 2088 CCEIVED Santa Fe, NM 87504-2088

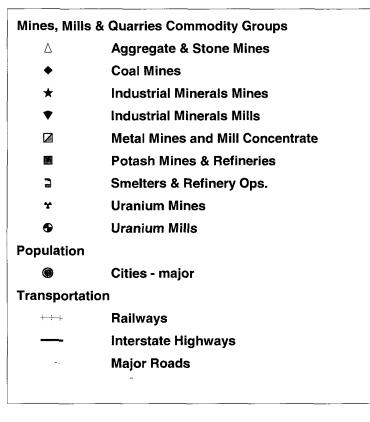
AMENDED REP

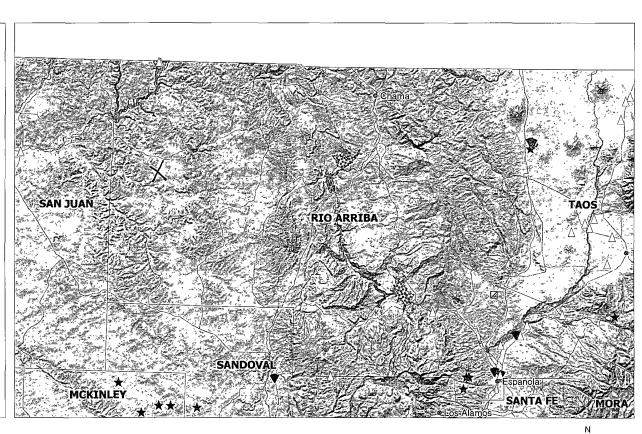
Fee Lease - 3 C

PO Box 2088, Santa Fe, NM 87504-2068 392 WELL LOCATION AND ACREAGE DEDICATION PLAT 1 Pool Code 30-039-72319/71599 Blanco Mesaverde/Basin Dakota Wall Number SAN JUAN 27-4 UNIT #3A OCEID No BURLINGTON RESOURCES OIL & GAS COMPANY 14538 6864 **Surface Location** UL or Los No. Foot from the Bost/West line County Lot Ido I 15 27 N 2145 SOUTH 630 **EAST** RIO ARP 4 W "Bottom Hole Location If Different From Surface Feet from the Best/West line 1 LIL or los no. County Tos MV-E/320 DK-S/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 I bereby certify that the information contained be true and complete to the best of my knowledge an NMSF - 080674 SURVEYOR CERTIFICAT I bereby certify that the well location shown on was piotled from field notes of actual surveys made or under my supervision, and that the same is 630' correct to the best of my belief. April 29, 1998 Desc of Survey Signature and Seg PROFESSIONAL

7016

San Juan 27-4 Unit 22M Mines, Mills and Quarries Web Map









Hydrogeological report for San Juan 27-4 Unit 22M

Regional Hydrogeological context:

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

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

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

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

Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The San Juan 27-4 Unit 22M 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 FEMA Map for the subject well is unavailable due to its location being in the forest. FEMA does not provide floodplain information for Forest Service land. This well is not located near a wash or watercourse and is not in 100 year floodplain as visible on the topographic map. The Cathodic well data from the San Juan 27-4 Unit 3A has an elevation of 6864' and groundwater depth of 90'. The subject well has an elevation of 6898' which is 34' greater than the San Juan 27-4 Unit 3A, therefore the groundwater depth is greater than 100'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the San Jose formation will create a stable area for this new location.

Tafoya, Crystal

From:

Tafoya, Crystal

- Sent:

Thursday, July 10, 2008 8:16 AM

To:

'mark_kelly@nm.blm.gov'

Subject:

OCD Pit Closure Notification

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

Allison Unit 2B

Allison Unit 40N

Angel Peak B 27E

Ballard 11F

Cain 725S

Canyon Largo Unit 250N

Canyon Largo Unit 279E

Canyon Largo Unit 288E

Canyon largo Unit 297E

Canyon Largo Unit 465E

Carson SRC 4E

Day B 4P

Day B 5A

East 17S

EPNG A 1B

EPNG B 1M

Federal A 1E

Filan 5M

Filan 5N

Fogelson 4 100

Fogelson 4 100S

Grambling C 202S

Hagood 19

Hamner 9S

Hardie 4P

Hare 295

Heaton Com 100

Helms Federal 1G

Howell 12

Huerfanito Unit 103F

Huerfanito Unit 29S

Huerfanito Unit 39S

Huerfanito Unit 47S

Huerfanito Unit 50E

Huerfanito Unit 75E

Huerfanito Unit 83E

Huerfanito Unit 87E

Huerfanito Unit 90E

Huerfanito Unit 90M Huerfanito Unit 98S

Huerfano Unit 108F

Huerfano Unit 282E

Huerfano unit 305

Huerfano unit 307

Huerfano Unit 554

Johnston Federal 24S

King 3

Lackey A Com 100S

Lambe 1C

Lambe 7S

Lively 8M

Lloyd A 100

Lloyd A 100S

Martin 100

McCord B 1F

McDurmitt Com 100S

McManus 13R

Mitchell 1S

Morris A 14

Newberry B 1N

Newsom B 503

Newsom B 8N

Pierce A 210S

Roelofs 1N

San Juan 27-4 Unit 132G

San Juan 27-4 Unit 132M

San Juan 27-4 Unit 139N

San Juan 27-4 Unit 140B

San Juan 27-4 Unit 141M

San Juan 27-4 Unit 147Y

San Juan 27-4 Unit 153B

San Juan 27-4 Unit 22M

San Juan 27-4 Unit 38P

San Juan 27-4 Unit 41N

San Juan 27-4 Unit 42N

San Juan 27-4 Unit 569N

San Juan 27-4 Unit 59N

San Juan 27-4 Unit 60M

San Juan 27-5 Unit 113F

San Juan 27-5 Unit 59N

San Juan 27-5 Unit 84N

San Juan 27-5 unit 901

San Juan 27-5 Unit 902

San Juan 27-5 Unit 903

San Juan 27-5 Unit 904

San Juan 27-5 Unit 905

San Juan 27-5 Unit 906

San Juan 27-5 Unit 907

San Juan 27-5 Unit 908

San Juan 27-5 Unit 909

San Juan 27-5 Unit 910

San Juan 27-5 Unit 912

San Juan 27-5 Unit 913

San Juan 27-5 Unit 914

San Juan 27-5 Unit 915

San Juan 27-5 Unit POW 916

San Juan 28-4 Unit 27M

San Juan 28-5 Unit 54F

San Juan 28-5 Unit 62E

San Juan 28-5 Unit 63M

San Juan 28-5 Unit 76N

San Juan 28-5 Unit 77N

San Juan 28-6 Unit 113N

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II 1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION Submit to Appropriate District Office 1220 South St. Francis Dr. State Lease - 4 Copies Sente Fe NM 87505 Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

2 2008 JAN

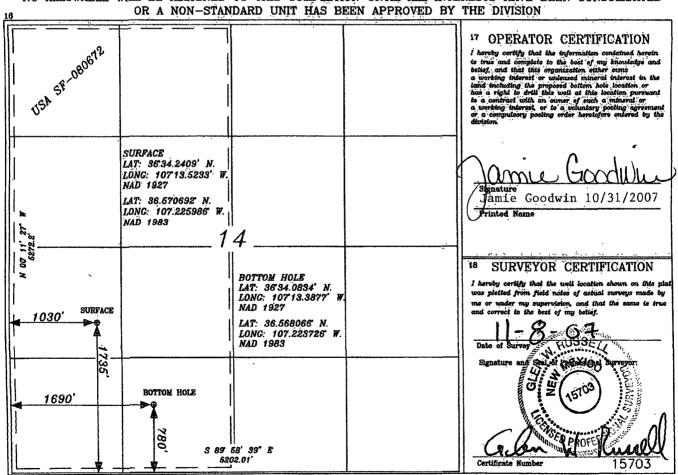
DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Bureau of Land Management AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLATICE

API Number	20160	Pool Code	Pool Name		
F , 30-039-	20450	72319/71599	BLANCO MESAVERDE/BASIN DAK	OTĄ .	
Property Code		*Property Name			
7452	SAN JUAN 27-4 UNIT 22M				
OGRID No.	⁸ Operator Name			⁰ Elevation	
14538	4538 BURLINGTON RESOURCES OIL AND GAS COMPANY LP			6898*	
		¹⁰ Surf	ace Location		

UL or lot no. Township Feet from the North/South line Feet from the East/West line Section Range County SOUTH 1030' WEST RIO ARRIBA 27-N 4-W 1735 T. 14 ¹¹ Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line Feet from the East/West line UL or lot no. Township Section Range County SOUTH WEST RIO ARRIBA 27-N 780 4 Consolidation Code Dedicated Acres Joint or Infill Order No. 320.00 W/2

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



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

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

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

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

General Plan:

- All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division—approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011).
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
- 3. The surface owner shall be notified of BR's closing of the temporary pit prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email, or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. 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	5 Q0
Chlorides	EPA 300.1	(1000/ 5 00

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