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

<u>District IV</u> 1220 S St Francis Dr , Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources

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

July 21, 2008
For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office

Form C-144

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

1882

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application on: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method.

Type of action:

Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method

Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method

Modification to an existing permit

X Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: San Juan 28-5 Unit 76N
API Number: 30-039-30400 OCD Permit Number
U/L or Qtr/Qtr: D(NW/NW) Section: 21 Township: 28N Range: 5W County: Rio Arriba
Center of Proposed Design: Latitude: 36.390462°N Longitude: 107.223378°W NAD: X 1927 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
X Pit: Subsection F or G of 19 15 17.11 NMAC Temporary: X Drilling Workover Permanent Emergency Cavitation P&A X Lined Unlined Liner type: Thickness 12 mil X LLDPE PVC Other X String-Reinforced Liner Seams: X Welded X Factory Other Volume: 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 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 RECEIVED RECEIVED RECEIVED Thickness Thi
Below-grade tank: Subsection I of 19 15 17.11 NMAC Volume: bbl Type of fluid Tank Construction material: Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner Type. Thickness mil HDPE PVC Other
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19 15 17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) 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 X Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top.					
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					
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 consultance of the Santa Fe Environmental Bureau office for consideration of approval.	ideration of ap	pproval.			
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	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) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□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) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes XNA	No			
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo			
- NM Office of the State Engineer - 1WATERS 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	X No			
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 Society; Topographic map	Yes	XNo			
Within a 100-year floodplain	Yes	XNo			

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					
X Hydrogeologic Data (Temporary and Emergency Pits) - 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 11 NMAC					
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC					
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15.17.9 NMAC and 19.15.17.13 NMAC					
Previously Approved Design (attach copy of design) API or Permit					
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					
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.					
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 Overlyte Control/Quality Assurance Construction and Installation Plan					
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)					
XOn-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)					
15					
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.					
Please indicate, by a check mark in the box, that the documents are attached.					
Protocols and Procedures - 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					

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16						
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions. Please identify the facility or facilities for the disposal of liquids, dri	<u>l Steel Tanks or Haul-off Bins Only:</u> (19.15.17.13.D NMAC) illing fluids and drill cuttings. Use attachment if more than two fa	icilities				
are required						
Disposal Facility Name:						
Disposal Facility Name						
Will any of the proposed closed-loop system operations and associated act Yes (If yes, please provide the information No		ervice and oper	ations?			
Required for impacted areas which will not be used for future service and operat Soil Backfill and Cover Design Specification - based upon the appr		7				
Re-vegetation Plan - based upon the appropriate requirements of St		_				
Site Reclamation Plan - based upon the appropraite requirements o	f Subsection G of 19.15.17.13 NMAC					
17						
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 N						
Instructions—Each string criteria requires a demonstration of compliance in the closure p certain siting criteria may require administrative approval from the appropriate district of for consideration of approval—Justifications and/or demonstrations of equivalency are re-	office or may be considered an exception which must be submitted to the					
Ground water is less than 50 feet below the bottom of the buried waste		Yes	XNo			
- NM Office of the State Engineer - (WATERS database search; USGS) Data	a obtained from nearby wells	□N/A				
Ground water is between 50 and 100 feet below the bottom of the buried v	vaste	Yes	X No			
- NM Office of the State Engineer - (WATERS database search; USGS, Data	obtained from nearby wells	□N/A				
Ground water is more than 100 feet below the bottom of the buried waste		X Yes	No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	∏N/A				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other si (measured from the ordinary high-water mark).	gnificant watercourse or lakebed, sinkhole, or playa lake	Yes	XNo			
- Topographic map, Visual inspection (certification) of the proposed site						
Within 300 feet from a permanent residence, school, hospital, institution, or church Visual inspection (certification) of the proposed site; Aerial photo; satellite is	••	Yes	XNo			
		Yes	X No			
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site						
Within incorporated municipal boundaries or within a defined municipal fresh was pursuant to NMSA 1978, Section 3-27-3, as amended	·	Yes	XNo			
 Written confirmation or verification from the municipality: Written approva Within 500 feet of a wetland 	obtained from the municipality	Yes	X No			
- US Fish and Wildlife Wetland Identification map, Topographic map; Visua	l inspection (certification) of the proposed site	Птез	Z NO			
Within the area overlying a subsurface mine		Yes	X No			
- Written confiramtion or verification or map from the NM EMNRD-Mining	and Mineral Division		_			
Within an unstable area	Yes	XNo				
 Engineering measures incorporated into the design; NM Bureau of Geology Topographic map 	& Mineral Resources, USGS, NM Geological Society;					
Within a 100-year floodplain FEMA map		Yes	XNo			
18						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: E by a check mark in the box, that the documents are attached.	ach of the following items must bee attached to the closur	e plan. Please	indicate,			
X Siting Criteria Compliance Demonstrations - based upon the appropriate American Compliance Demonstrations - based upon the appropriate Compliance Demonstration - based upon the appropriate Compliance Demonstration - based upon the compliance Demonstration - based upon the compliance - base	priate requirements 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 appropriate 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 NMAC						
X 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						
X Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC						
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) X Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC						
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 Peclamation Plan - based upon the appropriate requirements of Subsection C of 10.15.17.13 NMAC						

19 Operator Applica	ntion Certification:				
		with this application is true, a	ccurate and complete to the	best of my knowledge and belief.	
Name (Print)	E	thel Tally	Title:	Staff Regulatory Technician	_
Signature:	- Scheli	Jally	Date:	10-3-08	_
e-mail address	Ethel.Tally@	ConocoPhillips cort	Telephone.	505-599-4027	_
20 OCD 4	□ to A == ti== ti== t	talanda atalah P	∇	Moon of the control	
		including closure plan)	- `	OCD Conditions (see attachment)	
OCD Representat	tive Signature:	Brund Sa	4	Approval Date:	1-03
Title: £	Ensina Lener		OCD Par	nit Number:	
Title.	-VIOINO 15 PEC		OCD Ten	int (vanide):	
Instructions Operate report is required to	ors are required to obtain a be submitted to the division		or to implementing any clos letion of the closure activiti n completed	C ure activities and submitting the closure report. Please do not complete this section of the fo Completion Date:	
22					
Closure Method:	vation and Removal	On-site Closure Method	Alternative Closure	e Method Waste Removal (Closed-loop s	vstems only)
	rom approved plan, please of		Atternative Closure	waste Removal (Closed-100p s	ystems omy)
	rom approveu plan, piedse e	Aprain			
	identify the facility or faci		drilling fluids and drill cutt	round Steel Tanks or Haul-off Bins Only: ings were disposed. Use attachment if more th y Permit Number:	
Disposal Facility				y Permit Number:	
	_	associated activities perform		of be used for future service and opeartions?	
	please demonstrate complila		No	•	
	acted areas which will not a ation (Photo Documentation	be used for future service and	l operations:		
=	ling and Cover Installation	1)			
=	on Application Rates and Se	eding Technique			
24					
Closure Repor	t Attachment Checklist documents are attached.	: Instructions: Each of the	following items must be att	ached to the closure report. Please indicate, by	a check mark in
	osure Notice (surface ow	ner and division)			
므	eed Notice (required for o	*			
Plot Plan (fe	or on-site closures and te	mporary pits)			
Confirmation	on Sampling Analytical R	esults (if applicable)			
Waste Mate	erial Sampling Analytical	Results (if applicable)			
Disposal Fa	cility Name and Permit N	Number			
	lling and Cover Installation				
	on Application Rates and	• •			
_	nation (Photo Documenta				-
On-site Clo	sure Location: Latitud	le	Longitude	NAD	1983
	the information and attachi	nents submitted with this clo. requirements and condition.		and complete to the best of my knowledge and closure plan.	belief Lalso certify that
Name (Print)			Title:		
Signature -			Date:		·
e-mail address:			Telephone:		

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 28N Range: 05W Sections: 15,16,17,20,21,22,27,28,29
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) Onn-Domestic Odmestic
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form iWATERS Menu Help
WATER COLUMN REPORT 10/04/2008 (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth Water POD Number Tws Rng Sec q q q Zone X Y Well Water Column

Record Count: 2

SJ 00047

SJ 00036

28N 05W 28

28N 05W 28 3

465

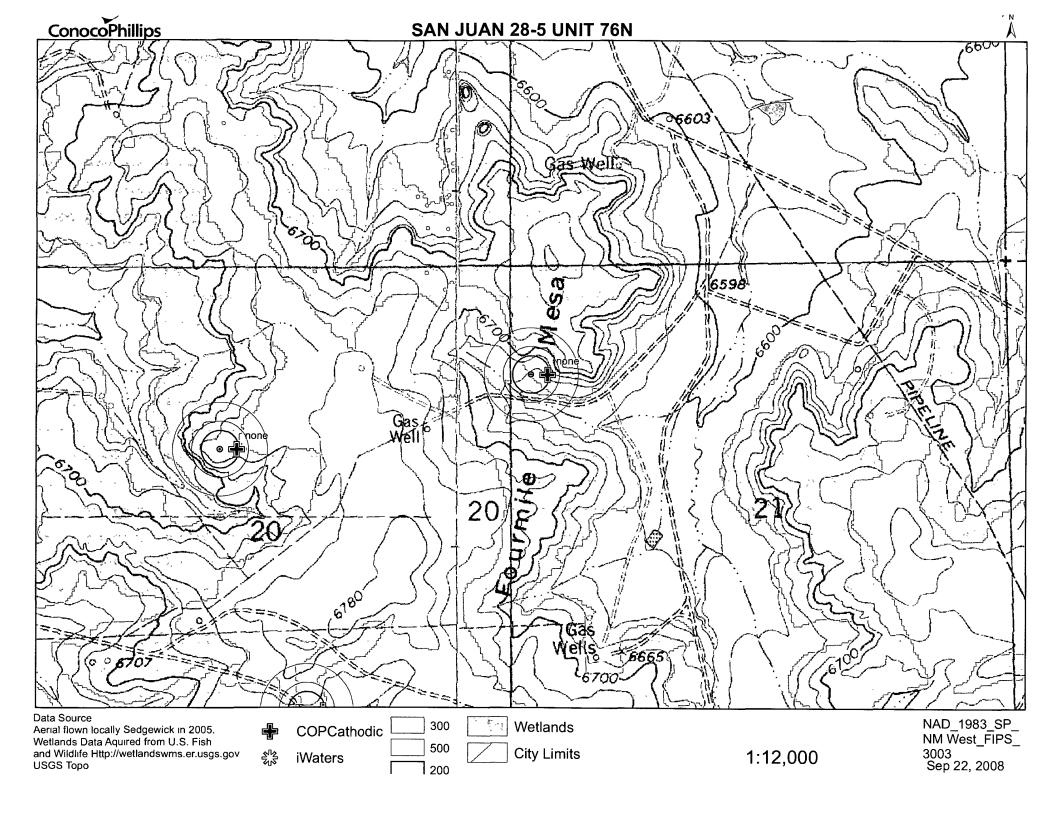
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265

243

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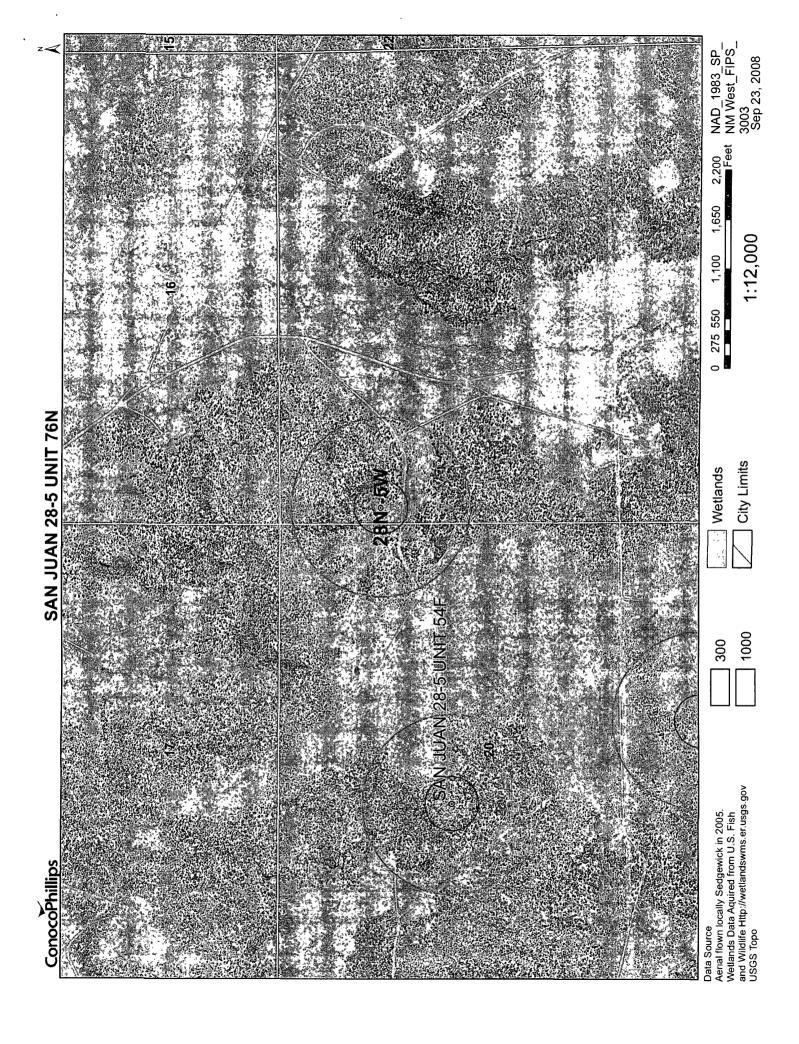
30-039-23815

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS NORTHWESTERN NEW MEXICO (Submit 3 copies to OCD Aztec Office)

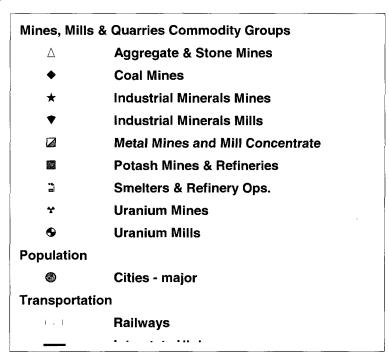
Operator MERIDIAN OIL INC. Location: Unit NW Sec. 21 Twp28 Rng 5
Name of Well/Wells or Pipeline Serviced SAN JUAN 28-5 UNIT #76M
cps 1888w
Elevation 6607' Completion Date 6/23/87 Total Depth 400' Land Type* N/A
Casing, Sizes, Types & Depths N/A
If Casing is cemented, show amounts & types usedN/A
If Cement or Bentonite Plugs have been placed, show depths & amounts used N/A
Depths & thickness of water zones with description of water when possible: Fresh, Clear, Salty, Sulphur, Etc. 80'
Depths gas encountered: N/A
Type & amount of coke breeze used: 4650 lbs.
Depths anodes placed: 340', 250', 210', 200', 190', 180', 170', 130',120', 110'
Depths vent pipes placed: 385'
Vent pipe perforations: 320'
Remarks: (gb #1)
OR CON. DIV.

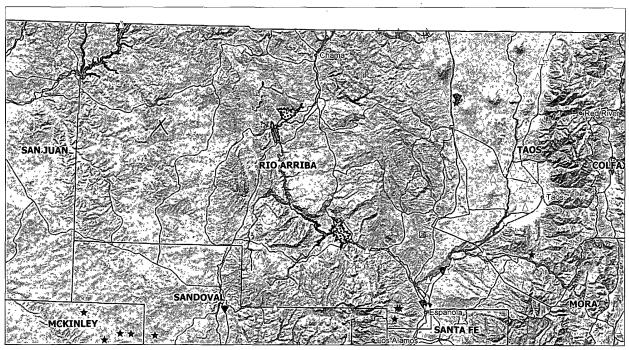
If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

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



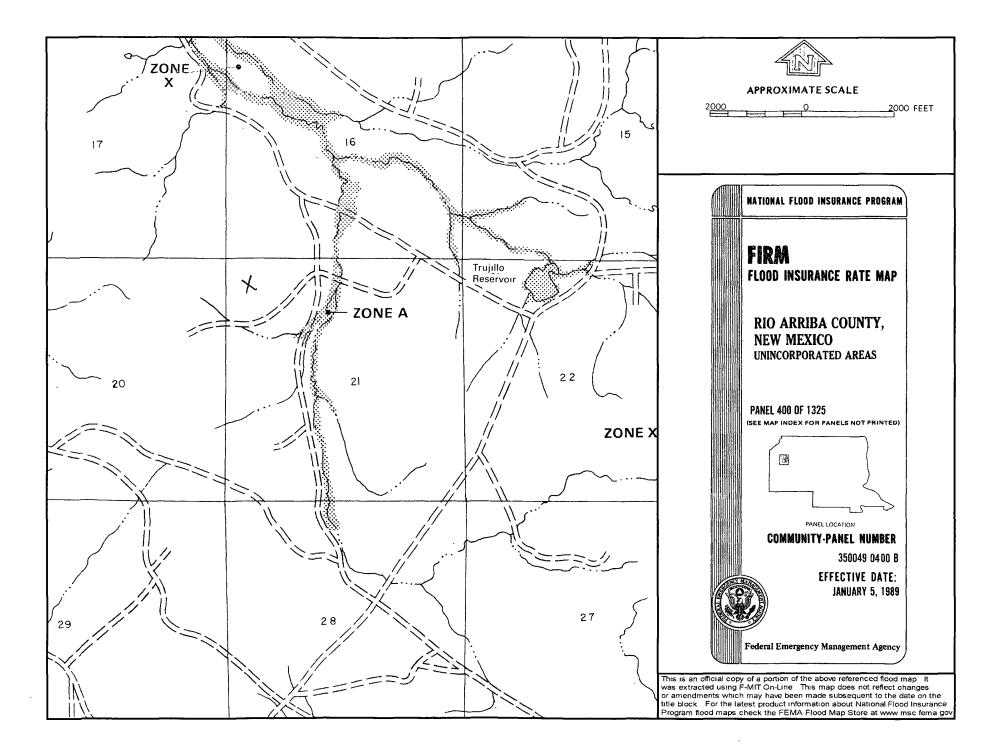
SJ 28-5 UNIT 76N /MINES, MILLS AND QUARRIES MAP











Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The San Juan 28-5 Unit 76N is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. The groundwater depth is considered to be greater than 100' as determined by the topographic map and the Cathodic well data from the San Juan 28-5 Unit 76M with an elevation of 6607' and groundwater depth of 80'. The subject well has an elevation of 6658' which is greater than the San Juan 28-5 Unit 17A, therefore the groundwater depth is greater than 100'. The iWATERS data points are located in section 28 are depths of 265' and 243' as indicated on the TOPO Map. Using these data points and the cathodic data provided the indication of groundwater depth is greater than 100'. The hydro geologic analysis indicates the groundwater depth and the San Jose formation will create a stable area for this new location.

Hydrogeological report for San Juan 28-5 Unit 76N

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.

Tafoya, Crystal

From:

Tafova, 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

0 1 27 4 1 1 2 4 4 7 1

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

San Juan 28-6 Unit 459S

San Juan 28-7 Unit 151E

San Juan 28-7 Unit 195P

San Juan 29-6 Unit 22N

San Juan 29-6 Unit 8M

San Juan 29-7 Unit 30N

San Juan 29-7 Unit 57E

San Juan 29-7 unit 587

San Juan 29-7 Unit 588

San Juan 29-7 unit 589

San Juan 29-7 Unit 60N

San Juan 29-7 unit 67M

San Juan 29-7 Unit 70M

San Juan 30-5 Unit 27F

San Juan 30-5 Unit 71F

San Juan 30-5 Unit 73N

San Juan 30-6 Unit 441S

San Juan 31-6 Unit 24F

San Juan 31-6 Unit 27M

San Juan 31-6 Unit 31P

San Juan 31-6 Unit 39M

San Juan 31-6 Unit 3M

San Juan 31-6 Unit 45N

San Juan 31-6 Unit 49P

San Juan 31-6 Unit 4N

San Juan 31-6 Unit 4P

San Juan 31-6 Unit 6F

San Juan 31-6 Unit 7M

San Juan 31-6 Unit 8N

San Juan 32-7 Unit 18M

San Juan 32-7 Unit 19A

San Juan 32-7 Unit 71A

San Juan 32-7 Unit Com 20

San Juan 32-8 Unit 18N

San Juan 32-8 Unit 30M

San Juan 32-8 Unit 49M

Storey B LS 100

Storey B LS 100S

Sunray E 221S

Sunray G 2C

Vaughn 15N

Wood 3M

Wood 3N

Crystal L. Tafoya Regulatory Technician ConocoPhillips Company San Juan Business Unit

Phone: (505) 326-9837

Email: Crystal.Tafoya@conocophillips.com

1625 N French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals & Natural Resources Department

District II 1301 W. Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Rd., Aztec, NM 87410

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

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Revised October 12, 2005 Instructions on back

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

Form C-102

			WELL			ΑC	CREAGE DEDI				
•,	API Number	7	72:	*Pool Cod 319 / 7	-		BLANCO M	Pool Nam / ESAVERDE	_	N DAK	ATC
*Property	Code			,	°Prope SAN JUAN	•	Name 18-5 UNIT			⁵ We	11 Number 76N
'OGRID 1453		{	BURLI	NGTON P	*Opera RESOURCES		Name OIL & GAS CC)MPANY, LP		_	levat ion 6658
					¹⁰ Surfac	e l	Location				
UL or lot no	Section 21	Township 28N	Range 5W	Lot Idn	Feet from th	e	North/South line NORTH	Feet from the	East/We WE		County RIO ARRIBA
		¹¹ Bc	ttom	Hole L	ocat ion	Ιſ	f Different	From Surf	ace		
UL or lat no	Section	Township	Range	Lot Idn	Feet from th	e	North/South line	Feet from the	East/We	est line	County
¹² Deducated Acres 320.0 Acres - N/2 (MV) 320.0 Acres - N/2 (DK) 3											
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION											
'OTII		2450'	52	290.56			LEASE US NM-01288	I hereby ce herein is to knowledge a either owns mineral int proposed boto drill the to a contra	entify that inches and coind belief, a working erest in the control of the contro	t the informal that and that granterest the land in location of this location of the control or to a volsory pool:	FICATION rmation contained the best of my this organization or unleased ncluding the or has a right ation pursuant such a mineral oluntary pooling ing order sion.

Signature Date 1465 LEASE USA SF-079519-A Printed Name "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief 00 8 5280 5280 LAT 36.65078 N LONG 107.37290 W DATUM: NAD83 Date of Survey: JUNE 21, 2007 Signature and Seal of Professional Surveyor LAT. 36 *39 0462 'N LONG: 107 *22.3378 'W DATUM: NAD27 SEON C. EDWARDS SEW MEXICO POTESSIONAL PROFESSIONAL 5287.921 Certificate Number

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	500
Chlorides	EPA 300.1	(1000)500

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

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

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

Source No. One (poor quality)

Purity

50 percent

Germination

40 percent

Percent PLS

20 percent

Source No. two (better quality)

Purity

80 percent

Germination

63 percent

Percent PLS

50 percent

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

1 lb. PLS 1 lb. PLS

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