District I 1625 N French Dr , Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210 District III

1000 Rio Brazos Rd, Aztec, NM 87410

District IV

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

Pit, Closed-Loop System, Below-Grade Tank, or

Form C-144 July 21, 2008

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

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

Proposed Alternative Method Permit or Closure Plan Application
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 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 hability 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: Valdez 7N
API Number: 30-039-30491 OCD Permit Number:
U/L or Qtr/Qtr: F(SENW) Section: 28 Township: 28N Range: 4W County: Rio Arriba Center of Proposed Design: Latitude: 36.633694' N Longitude: 107.260166' W NAD: 1927 X 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 HDPE 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
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:
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 (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								
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)								
8								
Signs: Subsection C of 19 15.17 11 NMAC								
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers								
X Signed in compliance with 19.15.3.103 NMAC								
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 constant	ideration of ap	proval						
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.								
10 Siting Critoria (regarding permitting), 10 15 17 10 NMAC								
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	İ							
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.								
tions not apply to anything plant of above grade tames associated with a crossed roop system.								
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.	Yes	No						
- 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	Yes	No						
lake (measured from the ordinary high-water mark).								
- Topographic map; Visual inspection (certification) of the proposed site		1						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes	□No ·						
application.	l							
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	Ŭ NA							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No						
(Applied to permanent pits)	│ □NA	_						
- 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		□No						
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	[_].**	□····						
		1						
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.	l							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes	No						
adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality								
Within 500 feet of a wetland.	∏Yes	□No						
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗀 😘	□						
Within the area overlying a subsurface mine.	Yes	□No						
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division								
Within an unstable area.	Yes	No						
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological		-						
Society; Topographic map		{						
Within a 100-year floodplain	Yes	□No						
- FEMA map	I	1						

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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									
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC									
She reciamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC									
	She Reciantation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC								

16								
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Stee Instructions: Please identify the facility or facilities for the disposal of liquids, drilling	e <u>l Tanks or Haul-off Bins Only:</u> (19.15 17.13.D NMAC) fluids and drill cuttings. Use attachment if more than two fo	wilities						
are required			}					
Disposal Facility Name:	Disposal Facility Permit #							
Disposal Facility Name:	Disposal Facility Permit #	<u>-</u>	l					
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? 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 appropri Re-vegetation Plan - based upon the appropriate requirements of Subset Site Reclamation Plan - based upon the appropriate requirements of Sul	ate requirements of Subsection H of 19.15 17.13 NMAC ction I of 19 15.17.13 NMAC	C						
She Rectamation Fian - based upon the appropriate requirements of Sur	osection G of 19.13.17.13 NMAC							
Siting Criteria (Regarding on-site closure methods only: 19.15.17 10 NMAI Instructions: Each siting criteria requires a demonstration of compliance in the closure plan certain siting criteria may require administrative approval from the appropriate district office for consideration of approval Justifications and/or demonstrations of equivalency are required.	Recommendations of acceptable source material are provided belo or may be 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.		 =	X No					
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtain	ained from nearby wells	∐N/A						
Ground water is between 50 and 100 feet below the bottom of the buried waste	2	Yes	X No					
- NM Office of the State Engineer - (WATERS database search; USGS, Data obta	ined 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 - (WATERS database search, USGS; Data obtained)	nned from nearby wells	□N/A	_					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signific (measured from the ordinary high-water mark)	cant watercourse or lakebed, sinkhole, or playa lake	Yes	X No					
- Topographic map; Visual inspection (certification) of the proposed site								
Within 300 feet from a permanent residence, school, hospital, institution, or church in - Visual inspection (certification) of the proposed site; Aerial photo, satellite image		Yes [X No					
		Yes	X No					
Within 500 horizontal feet of a private, domestic fresh water well or spring that less the purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exist - NM Office of the State Engineer - iWATERS database; Visual inspection (certification)	tence at the time of the initial application.							
Within incorporated municipal boundaries or within a defined municipal fresh water w pursuant to NMSA 1978, Section 3-27-3, as amended.		Yes	XNo					
 Written confirmation or verification from the municipality, Written approval obt Within 500 feet of a wetland 	ained from the municipality	Yes	X No					
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual insp	pection (certification) of the proposed site							
Within the area overlying a subsurface mine. - Written confirantion or verification or map from the NM EMNRD-Mining and N	Muneral Division	Yes	XNo					
Within an unstable area.	Villicial Division	Yes	X No					
- Engineering measures incorporated into the design; NM Bureau of Geology & M Topographic map	Ineral Resources; USGS; NM Geological Society;		::],,o					
Within a 100-year floodplain FEMA map		Yes [XNo					
On-Site Closure Plan Checklist: (19.15 17.13 NMAC) Instructions: Each	of the following items must bee attached to the closur	e plan. Please in	ndicate,					
by a check mark in the box, that the documents are attached.								
X Siting Criteria Compliance Demonstrations - based upon the appropriat	•							
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								
Construction/Design Plan of Temporary Pit (for in place burial of a dry		9.15.17.11 NMA	.C					
X Protocols and Procedures - based upon the appropriate requirements of								
Confirmation Sampling Plan (if applicable) - based upon the appropriate	•							
X Waste Material Sampling Plan - based upon the appropriate requirement								
X Disposal Facility Name and Permit Number (for liquids, drilling fluids a	<u>*</u>	nnot be achieved) 					
X Soil Cover Design - based upon the appropriate requirements of Subsec Re-vegetation Plan - based upon the appropriate requirements of Subsec								
X Re-vegetation Plan - based upon the appropriate requirements of Subsection Lot 19.15.17.13 NMAC X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC								

79	C OF A		
Operator Application	 Certification: Information submitted with this application is true, a 	courate and complete to the	hest of my knowledge and helief
Name (Print)	Crystal Tafoya	Title:	Regulatory Technician
Signature:	110-	Date.	1/2/09
e-mail address	crystal tafoya@conocophillos com	Telephone	505-326-9837
e-man address	Grystar taroya & comocophilippa cymi	Telephone	303-320-7037
20			
OCD Approval:	Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative	Signature: See) .//	Approval Date: 1-13-68
·	viro spec		
Title: En	viro 18pec	OCD Pern	nit Number:
21			
	ired within 60 days of closure completion):	Subsection K of 19 15 17 13 NMAC	
Instructions: Operators o	are required to obtain an approved closure plan pric	or to implementing any closi	re activities and submitting the closure report. The closure
•	wbmitted to the division within 60 days of the compl as been obtained and the closure activities have bee	•	s Please do not complete this section of the form until an
•			Completion Date:
22 Closure Method:			
Waste Excavation	n and Removal On-site Closure Method	Alternative Closure	Method Waste Removal (Closed-loop systems only)
=	approved plan, please explain.		- Tracke Temoral (etoise 100p bysicalis 6113)
23 Closure Report Regard	ing Waste Removal Closure For Closed-loop Syst	ems That Litilize Above Gr	ound Steel Tanks or Haul-off Bins Only
			ngs were disposed. Use attachment if more than two facilities
were utilized.		B 157 1	
Disposal Facility Nan Disposal Facility Nan			Permit Number:
	system operations and associated activities perform		Permit Number:
	se demonstrate compliant to the items below)	No	to be used for future service and operations:
Required for impacted	d areas which will not be used for future service and	d operations:	
Site Reclamation	(Photo Documentation)	•	
=	and Cover Installation		
Re-vegetation Ap	oplication Rates and Seeding Technique		
24 Cl D			
Closure Report At		following items must be atta	ched to the closure report. Please indicate, by a check mark in
	e Notice (surface owner and division)		
Proof of Deed N	Notice (required for on-site closure)		
Plot Plan (for or	n-site closures and temporary pits)		
Confirmation S	ampling Analytical Results (if applicable)		
Waste Material	Sampling Analytical Results (if applicable)		
Disposal Facilit	y Name and Permit Number		
Soil Backfilling	and Cover Installation		
=	Application Rates and Seeding Technique		
_	on (Photo Documentation)		
On-site Closure	Location: Latitude:	Longitude:	NAD 1927 1983
			· · · · · · · · · · · · · · · · · · ·
25 On another Classina Co.	wifi antique		
Operator Closure Ce		sure report is ture accurate	and complete to the best of my knowledge and belief. I also certify that
	rgormation and attachments submitted with this cio. I all applicable closure requirements and condition.	-	. , , , , , , , , , , , , , , , , , , ,
	•		
Name (Print):		Title.	
Signature:		Date:	
e-mail address.		Telephone:	
mun uuuncoo.		i cicpitotic.	

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

Township: 28N Range: 04W Sections: 28,27,29,32,33,34,20,21,22
NAD27 X: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) O Non-Domestic O Domestic O All
POD // Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form WATERS Menu Help

WATER COLUMN REPORT 12/15/2008

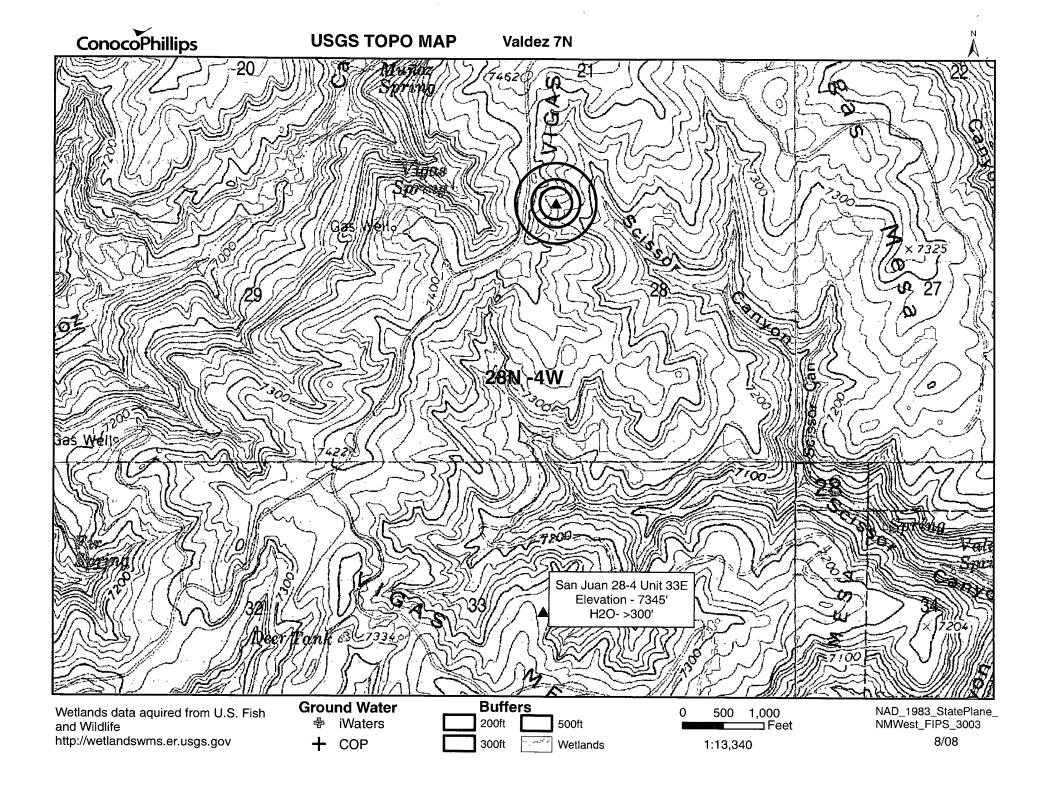
(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Tws Rng Sec q q q Zone X Y

Depth Depth Water (in feet)

Well Water Column

No Records found, try again

POD Number



TIERRA CORROSION CONTROL, INC. DRILLING LOG

COMPANY: Conoco Phillips

LOCATION: San Juan 28-4 #33E

STATE: NM BIT SIZE: 7 7/8"

LBS COKE BACKFILL: 2,600# ANODE TYPE: 3" X 60" Duriron

DATE: August 21, 2008

LEGALS: Sec33 T28N r4W DRILLER: Gilbert Peck

CASING SIZE/TYPE: 8" X 20' PVC

VENT PIPE: 300' ANODE AMOUNT: 10

the state of the s

COUNTY: Rio Arriba

DEPTH: 300'

COKE TYPE: Asbury

PERF PIPE: 140'

BOULDER DRILLING: None

DEPTH	DRILLER'S LOG	AMPS	DEPTH	DRILLER'S LOG	AMPS
20	Casing	2	310		
25	Sand	.3	315		
30		.2	320		
35		.2	325		
40		.2	330		
45		.2	335		
50	▼	6	340		
55	Gray Shale	1 0	345		
60		16	350		
65		1.0	355		
70	Sandstone	.3	360		
75		3	365		
80		.4	370		
85	V	9	375		
90	Gray Shale	1.4	380		
95		1.3	385		
100		1.5	390		
105	<u> </u>	15	395		
110	Sandstone	.4	400		
115		.9	405		
120	Gray Shale	1.2	410		
125	Sandstone	.7	415		
130		6	420		
135		6	425		
140	Gray Shale	2.2	430		
145		2.0	435		
150		1.4	440		
155		1.1	445	·	
160	Sandstone	.9	450		
165		.7	455		
170		.6	460		
175		.7	465		
180		.7	470		
185		.8	475		
190	▼	9	480		
195	Gray Shale	1.1	485		
200		1.5	490		
205		1.6	495		
210 215		20	500		
					-
220 225		2.4			
230		2.2			
235		1.6			
240		1.5			
					-
245 250		1.2			
255		1.1			
260		1.2			
	<u> </u>				
265		1.9			
270		2.0			
275		1.6		~~~	
280		1.5			
285		12			
290		1.1			
295	Sandstone	.9			
300 305		td			
105		1	1	l	1

ANODE #	DEPTH	NO COKE	COKE
1	290	1.1	4.1
3	280	1.5	4.7
3	270	2.0	5.1
4	260	1.4	4.8
5	250	1.1	3.1 5.3
6	240	1.5	5.3
7	230	2.2	5.6
8	220	2.4	5.6
9	210	2.0	4.9
10	200	1.5	3.1
11			
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13			
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ANODE # 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26			
25			
20			
27			
28			
29			
30			

WATER DEPTH: None ISOLATION PLUGS: LOGING VOLTS: 12.23

VOLT SOURCE: AUTO BATTERY

TOTAL AMPS: 12.3

TOTAL GB RESISTANCE: .99

REMARKS:

Form 3160-4 (October 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE*

(Seu other in-tructions on

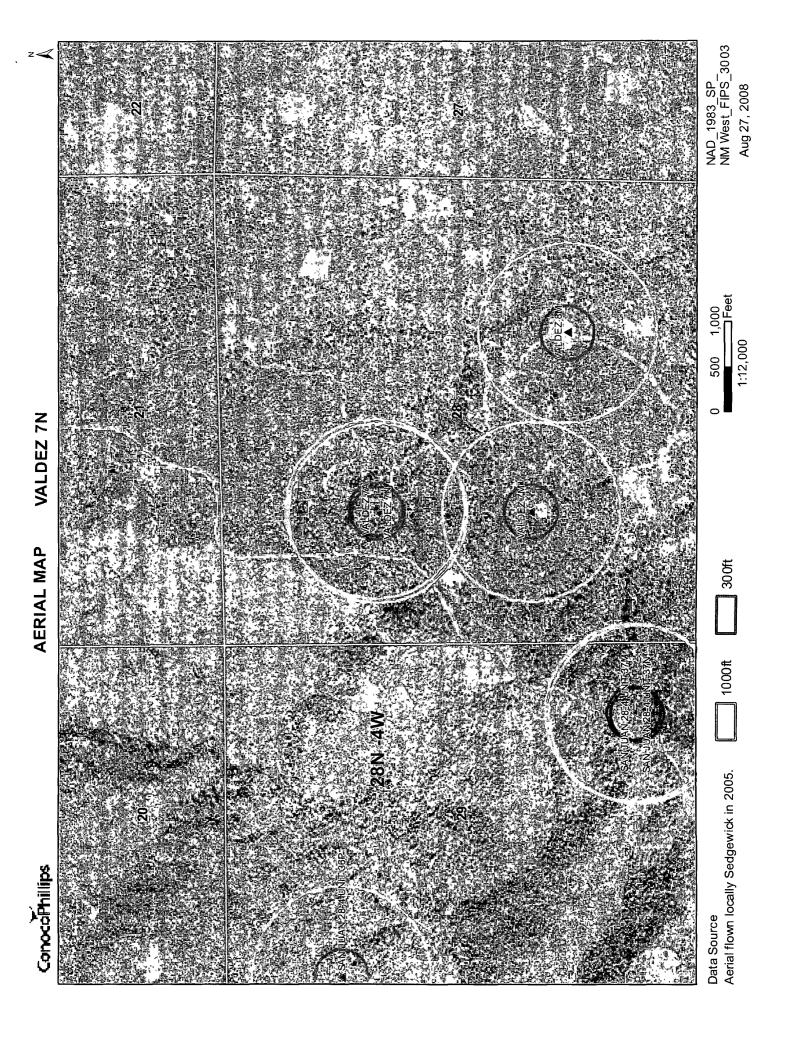
FOR APPROVED OMB NO. 1004-0137

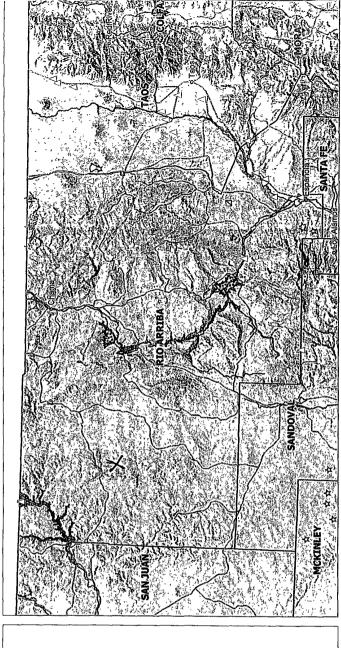
Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

			t	SUKE	AU OF L	ANL	MANAG	EMEN	• •	Č	2008 NOT		NMSF-079731	IA
WELL C	COMP	LETIC	ON OR	REC	OMP	LE	TION I	REP	ORT AND	LO	G*	_8 #	INDIAN, ALLOTTE	E OR TRIBE NAME
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b. TYPE OF	_		. —	_		,					OTO FARI	San .		HUMMIN - OFSAIC
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2. NAME O									1.	А	35	9. AF	PI WELL NO	3
			SOURCES	OIL &	GAS C	OMP	ANY LP		<i>,</i> ` `	<u>·;</u>		ļ.,	30-039-2937	
3 ADDRESS AND TELEPHONE NO. PO Box 4289, Farmington, NM 87499 (505) 326-9700											6 = \(\)	10. F	IELD AND POOL.	
									requirements)*		<u> </u>	11 5	Blanco MV/	BLOCK AND SURVEY
At surfac		(, top.	u (100011011 01	J.L. , J				-	·		. 31.9		OR AREA	,
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At top pro	od. interva		d below					4	(**).	•	· `:/	1		
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711 tour G	SAME								1			İ		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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15. DATE SPL	IDDED I	e DATE	T.D. REACHED		17. DATE	COM	PL. (Ready t	o arod \	<u> </u>	Ita E	LEVATIONS (DF. RI	VO DT	Rio Arriba	New Mexico
6/25/06			1.0. KENUNEL	' i		14/0		υ μισυ. ,			7345': GL - 73		or, e10.)*	19. ELEV. CASINGHEAD
20. TOTAL DE			21. PLUG, I	BACK T.			22. IF MULT	TIPLE CO	OMPL.,		MERVALS		Y TOOLS	'CABLE TOOLS
							Ī	HOW N	MANY"	D	RILLED BY			
8717			8719				<u> </u>	2		<u>. </u>		<u> </u>	X	<u> </u>
24. PRODUCT	TION INTER	VAL (S) OF	THIS COMPLE	T-MONT	OP, BOTTO	DM, N	AME (MD AN	D TVD)*	•				25. WAS DIRECT	
Blanco	Mesave	rde -586	8' - 6596'										SURVETIMA	Yes
26. LOGS												27. WA	S WELL CORED	
Gamma	a Ray/CC	L Acou	stic Cemen	t Bon	d Log								No	
28.						С	ASING RE	CORD	(Report all string	s set ir	n well)			
CASING SIZ	E/GRADE		HT, LB./FT.		TH SET (MD)	HOLE	SIZE			CEMENTING RECO	RD		MOUNT PULLED
9-5/8" H-40		32.3#		319'			12-1/4"		TOC- SURF				38 bbls	
7" J-55 4-1/2" L-80		20#		4493			8-3/4"		TOC- SURF				Stage tool @	3822; Circ. 81 bbis
#1/2 L-00		11.0#		8717			0-114		TOC -2650';	319 8	x (030 C1)			
		+		 			 		 					
29		and the second	LINER R	COR)			مبودعاتهن	30.	-		Τį	BING RECORD)
SIZE	TOP (ME) B(OTTOM (MD)	SAC	KS CEME	MT.	SCREEN	(MD)	SIZE		DEPTH SET (MD)	P/	ACKER SET (MD)
									2-3/8" 4.7# J	-55	8621			
1 PERFORA	TION BECO	DD (feteral)	ol are and a	<u> </u>			ļ		<u> </u>					<u> </u>
Mesaverde (BI, SIAU AND NUN	wer)			32.	THE MOTE	ACII ERVAL (MD)	D, SHO	OT, FRACTURE,			
PT/LKT - 63			10ies				6384' - 6		ERVAL (MD)	10 555	15% HCL; 47.5		D KIND OF MATER	
INF - CLH -											,090# 20/40 Brad			
							5868' - 6	348'						water N2 foam
		Total	65 holes							w/10	0,0003 20/40	Brady	sand & 1,426,	000 scf N2
33. DATE FIRST PRO	OCUCTION		PRODUC	THOMAS	ETHOD (F	laudina	as lift num		RODUCTION				(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	roducing or shul-in)
SI	ODUCTOR		'''		flowing		i, gas lift, pun	thu id-ar	za anu typa or pump	,			SI	roouding or sharm)
DATE OF TEST		HOURS	TESTED	СНОК		PRO	O'N FOR	OIL-B	BL	GAS-	MCF	WATE	R-BBL	GAS-OIL RATIO
--		1					PERIOD		_ 1	Ì		}		
112/06 LOW, TUBING F	PRESS	CASING	1 hr PRESSURE	CÁI CI	LATED	<u> </u>			GAS-MCF	ــــــــــــــــــــــــــــــــــــــ	66 mct	trace		OIL GRAVITY-API (CORR.)
					JR RATE	"				1	WATER-BBI	-		OIL GROWII T-MPI (LUKIK.)
SI - 977#			880#			<u> </u>	0		1598 mcfd			1-1/2	bbls	i
34. DISPOSITIO	ON OF GAS			d, etc.)									TEST WITNESSE	D BY
35 1 KT 05 15	TACLET		e sold				·						L	
35. LIST OF AT This is a			nmingle	d we	II per	or	der DH	C 22	217AZ					
									from all available re	ecords				
	.d .;/.	1.	112 1											
SIGNED	1-10	(Kin)	Leus	pt-	Tm	E.	Sr. Regu	iatory	Specialist			DATE	9/29/06	
·		/	*(Se	e ins	tructio	ns a	nd Spac	es fo	r Additional	Data	on Reverse	Side)	ACCEPTED FOR RECORD
			•											#1 * 7-51 FOLDER PORT (C. 195()

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department of agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.







Hydrogeological report for Valdez 7N

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 Valdez 7N 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 28-4 Unit 33E has an elevation of 7345' and groundwater depth of greater than 300'. The subject well has an elevation of 7338' which is 7' less than the San Juan 28-4 Unit 33E, therefore the groundwater depth is greater than 300'. 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:

Wednesday, December 31, 2008 3:02 PM

To:

'mark_kelly@nm.blm.gov'; 'jreidinger@fs.fed.us' Tafoya, Crystal Valdez 7N

Cc:

Subject:

The subject well has a temporary pit that will be closed on-site. Please let me know if you have any questions.

Thanks,

Crystal L. Tafoya Regulatory Technician ConocoPhillips Company San Juan Business Unit Phone: (505) 326-9837

Email: Crystal.Tafoya@conocophillips.com

District (1625 N. French Dr., Hobbs, NM 88240 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 Pe, NM 87505

State of New Mexico

Form C-102 Energy, Minerals & Natural Resources Department Revised October 12, 2005
OIL CONSERVATION DIVISION Submit to Appropriate District Office
1220 South St. Francis Dr.
State Lease - 4 Copies
FEB 2 2 2008
FEB 2 2 2008

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMMENDED REPORT

	•	Fair				
API Number	² Poel Code	3 Pool Name	Basin			
10-039- 30491	71599/72319	Blanco MESAVERDE /	Basin DAKOTA			
⁴ Pròperty Code	⁵ Property N	lame	6 Well Number			
7620	VALDI	VALDEZ				
OGRID No.	⁸ Operator N		⁹ Elevation			
14538	BURLINGTON RESOURCES	7338				
	10 STREACHTC	YCATION!				

ŲL or lot no. , F.	Section 28	Township 28	Range 4	Lot Ida	Past from the 2015	North/South line NORTH	Feet from the 1365	East/West line WEST	County RIO ARRIBA
Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot ide	Feet from the	North/South line	Fact from the	East/West line	County
מ	28	28	4		785	NORTH	735	WEST	RIO ARRIBA
Dedicated Acres 3 Joint or Infill 14 Consolidation Code 5 Order No. 320 acres (W2)									

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

-	16		5,210.1' (CALC.)	_	67
	785	BOTTON NAD 83 I LAT:38:6	DATUM 30556°N	GALG	OPERATOR CERTIFICATION I haveby certify that the inflormation contained herein is true and compilete to the hest of my browningle and belief, and that this organization either owns a working interest or unboared numeral interest in the land including the reproject bottom hole tocistion or has a right to drift this well as this location pursuant to a contract
	735'	in NAD 27 I	7.262777*W DATUM 37.832780*N T* 18.730700*W		with an owner of such a mineral or vertising interest, or to a voluntary positing agreement or a Computary pooling arter hereinforce entered by the affection. DOTO Standard
	1,365				Sasha Spangler Printed Nume Regulatory Technician Title and E-mail Address
5,443.1" (CALC)			NAD 83 DATUM LAT:36.833894'N LONG:107.260166'W		12-12-07 Orde IR SURVEYOR CERTIFICATION
00-06'56" E 5.4 NORTH 5.28	DEDICATED	3863 W/2	NAD 27 DATUM LAT:36° 38.021125'N LONG:107° 15.574045'N	- •	I hereby certify that the well becation shown on this plat was plotted from fletch notes of occubir surveys made by into or under my supervision, and that the same is tree and correct to the best of my belief. Date of Survey: 12/14/06 Signature and Soal of Prafessional Surveyop—
88	:				P. PROADMIR
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
e	Marring	EAST \$ 86°59' 47	5,267.5' (R) W 5,161.7' (CALC.)	CALC	Certificate Number: No. 11393

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)500

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

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

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