District I $1625\ N$ $\ French\ Dr$, Hobbs, NM 88240District II 1301 W Grand Ave., Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

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

District III

District IV

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

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

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.

Pit, Closed-Loop System, Below-Grade Tank, or ative Mathed Darmit or Closure Dlan Application

Propose	u Anemanye Memou	Ferniti of Closure Fla	ii Application	
Type of action:	,	ystem, below-grade tank, or pro system, below-grade tank, or pr ermit		
	Closure plan only submitted to below-grade tank, or propose	for an existing permitted or non d alternative method	-permitted pit, closed-l	loop system,
Instructions: Please submit one application Please be advised that approval of this environment. Nor does approval relieve the	cation (Form C-144) per indiversely to the control of the control	vidual pit, closed-loop system, hability should operations result in pollu	tion of surface water, ground v	water or the
Operator: Burlington Resources Oil &	Gas Company, LP	OGRID#	#: 14538	
Address: PO Box 4289, Farmington, N	М 87499			
Facility or well name: Howell A #1B				
API Number: 30-04	5-34737	OCD Permit Number:		
U/L or Qtr/Qtr: J(NWSE) Section: Center of Proposed Design: Latitude: Surface Owner: X Federal	8 Township: 30N 36.823183' N State Private		County: San Juan 6352' W NAD: nt	: 1927 X 1983
Temporary: Drilling Workove Permanent Emergency Cavit. X Lined Unlined Liner t X String-Reinforced Liner Seams: X Welded X Factor	ation [7]P&A ype: Thickness <u>20</u> m		PVC Other other x W	/ <u>55'</u> x D <u>12'</u>
	notice of teel Tanks Haul-off Bins he: Thickness mi	Other	which require prior appro	oval of a permit or 202122232
4 X Below-grade tank: Subsection I of I	Type of fluid: Produced Metal ion X Visible sidewalls, 1	iner, 6-inch lift and automatic over	rflow shut-off	RECEIVE
5 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, insti-	tution or churc	(h)
Four foot height, four strands of barbed wire evenly spaced between one and four feet		
X Alternate Please specify Please see Design Plan		
7		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		İ
X 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 cons	ideration of an	proval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	actuation of ap	p. 0 .
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.		
Cusped water is less than 50 feet below the better of the terror with a supercontact with on below goods to be	□v₀	VIN.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	∐Yes	X No
	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).		AINO
- 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	X No
application.		
(Applies to temporary, emergency, or cavitation pits and below-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.	Yes	No
(Applied to permanent pits)	X 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	Yes	X No
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.		
- 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	∏Yes	X No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended	□	<u> </u>
- Written confirmation or verification from the municipality; Written approval obtained from the municipality		
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within the area overlying a subsurface mine.	Yes	XNo
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Lies	ച്ച
Within an unstable area.	Yes	X 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	X 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. X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17 9 NMAC
X Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17 9 NMAC
X Situng Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15.17.10 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
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
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
Situng 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 X Below-grade Tank Closed-loop System
Alternative
Proposed Closure Method: X Waste Excavation and Removal (Below Grade Tank)
Waste Removal (Closed-loop systems only)
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.
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 Disposed Facility Name and Parasit Number (fee limite drilling fluids and drill puttings)
 X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17 13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15 17 13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Form C-144 Oil Conservation Division

16 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Ste	el Tanks or Haul-off Bins Only: (19.15 17.13.D NMAC)	
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling are required.	fluids and drill cuttings. Use attachment if more than two fa	icilities
Disposal Facility Name.	Disposal Facility Permit #	<u> </u>
Disposal Facility Name:	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activities Yes (If yes, please provide the information No	es occur on or in areas that will not be used for future se	rvice and operations?
Required for impacted areas which will not be used for future service and operations Soil Backfill and Cover Design Specification - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Reclamation Plan - based upon the appropriate requirements of Sulfill Site Recla	ction I of 19.15.17.13 NMAC	
17		
Siting Criteria (Regarding on-site closure methods only: 19 15 17.10 NMA) Instructions Each siting criteria requires a demonstration of compliance in the closure plan a certain siting criteria may require administrative approval from the appropriate district office for consideration of approval. Justifications and/or demonstrations of equivalency are require	Recommendations of acceptable source material are provided belor 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 X No
- NM Office of the State Engineer - iWATERS database search; USGS. Data obta	ained from nearby wells	∐N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste		Yes X No
- NM Office of the State Engineer - iWATERS database search; USGS, Data obta	lined from nearby wells	∐N/A
Ground water is more than 100 feet below the bottom of the buried waste.	NG A SHE	X Yes No
- NM Office of the State Engineer - iWATERS database search, USGS; Data obta	ined from nearby wells	∐N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significance (measured from the ordinary high-water mark)	cant watercourse or lakebed, sınkhole, or playa lake	Yes X No
- Topographic map; Visual inspection (certification) of the proposed site	avu tanga at the time of initial application	Yes X No
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
Within 500 horizontal feet of a private, domestic fresh water well or spring that less th purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exis - NM Office of the State Engineer - iWATERS database, Visual inspection (certifi	tence at the time of the initial application.	
Within incorporated municipal boundaries or within a defined municipal fresh water v pursuant to NMSA 1978, Section 3-27-3, as amended.		Yes X No
Written confirmation or verification from the municipality; Written approval obt Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inst		Yes XNo
Within the area overlying a subsurface mine.	years (Community of the proposed site	Yes X No
- Written confiramtion or verification or map from the NM EMNRD-Mining and	Mineral Division	
Within an unstable area. - Engineering measures incorporated into the design, NM Bureau of Geology & M	Ineral Resources; USGS; NM Geological Society;	Yes X No
Topographic map Within a 100-year floodplain.		Yes X No
- FEMA map		
On-Site Closure Plan Checklist: (19.15.17 13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached.	of the following items must bee attached to the closur	re plan. Please indicate,
X Siting Criteria Compliance Demonstrations - based upon the appropriat	te requirements of 19.15.17.10 NMAC	
X Proof of Surface Owner Notice - based upon the appropriate requireme		
Construction/Design Plan of Burial Trench (if applicable) based upon t	he appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a dry		9.15.17.11 NMAC
X Protocols and Procedures - based upon the appropriate requirements of		
Confirmation Sampling Plan (if applicable) - based upon the appropriat	-	
X Waste Material Sampling Plan - based upon the appropriate requirement		nnat ha aghiavad
 Disposal Facility Name and Permit Number (for liquids, drilling fluids Soil Cover Design - based upon the appropriate requirements of Subsection 		imoi de achieved)
X Re-vegetation Plan - based upon the appropriate requirements of Subset		
X Site Reclamation Plan - based upon the appropriate requirements of Su		

19 Operator Application C	Certification:			
	ormation submitted with this application is true, accordingly	curate and complete to the b	est of my knowledge and belief.	
Name (Print):	Crystal Tafoya	Title	Regulatory Technician	
Signature:	matal Taloya	Date:	8/21/08	
e-mail address:	crystal.tafoya@conocochill.ps.com	Telephone	505-\$26-9837	
20 OCD Approval: P	ermit Application (including closure plan)		OCD Conditions (see attachment)	
OCD Representative Si		M	Approval Date: <u>8-27-68</u>	
Title: ENV.	o Ispec	OCD Perm	it Number:	
Instructions: Operators are report is required to be sub	•	r to implementing any closu etion of the closure activities a completed.	re activities and submitting the closure report. The closure Please do not complete this section of the form until an Completion Date:	
22				
Closure Method: Waste Excavation a	and Removal On-site Closure Method	Alternative Closure	Method Waste Removal (Closed-loop systems only)	
=======================================	proved plan, please explain.	Atternative closure	waste Removal (Closed-100p systems omy)	
	proved plan, please explain.			
23 Closure Report Regarding	g Waste Removal Closure For Closed-loop Syste	ems That Utilize Above Gr	ound Steel Tanks or Haul-off Bins Only:	
Instructions: Please identi			igs were disposed. Use attachment if more than two facilities	
were utilized.		Disposal Facility	Dermit Number	
Disposal Facility Name: Disposal Facility Name		Disposal Facility Disposal Facility		
	estem operations and associated activities performe			
	demonstrate complilane to the items below)	No	•	
Required for impacted o	areas which will not be used for future service and	operations:		
	Photo Documentation)			
][d Cover Installation			
Re-vegetation Appl	lication Rates and Seeding Technique			
the box, that the docum	nents are attached.	ollowing items must be atta	ched to the closure report. Please indicate, by a check mark in	
	Notice (surface owner and division)			
H	otice (required for on-site closure) site closures and temporary pits)			
=	npling Analytical Results (if applicable)			
<u>=</u>	ampling Analytical Results (if applicable)			
	Name and Permit Number			
_ ` `	nd Cover Installation			
	plication Rates and Seeding Technique			
= "	(Photo Documentation)			
On-site Closure L	ocation Latitude:	Longitude:	NAD	
		-		
25				
			and complete to the best of my knowledge and belief. I also certify	y that
Name (Print).	, , , , , , , , , , , , , , , , , , ,	Title:	•	
Signature.		Date:		
e-mail address		Telenhone		

New Mexico Office of the State Engineer POD Reports and Downloads

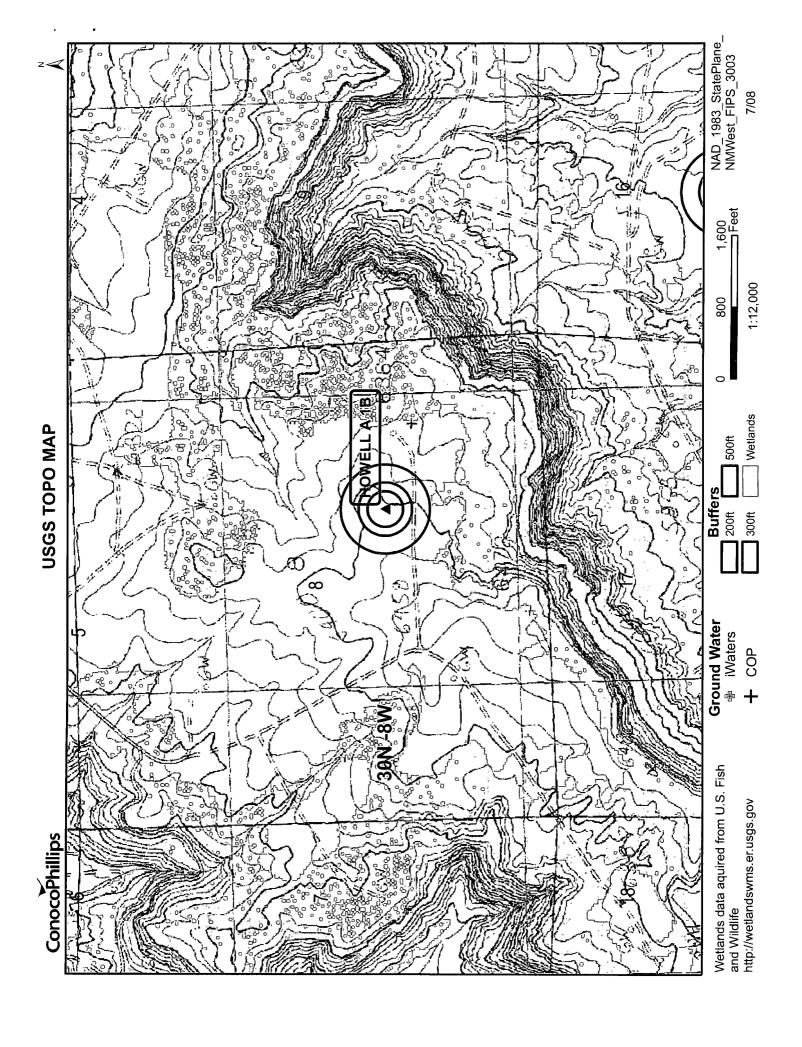
Range: 08W Sections: 4,5,6,7,8,9,18,17,16 Township: 30N NAD27 X: Y: Zone: Search Radius: County: Number: Suffix: Basin: Owner Name: (First) O Domestic (Last) Non-Domestic Water Column Report POD / Surface Data Report Depth to Water Report iWATERS Menu Clear Form Help

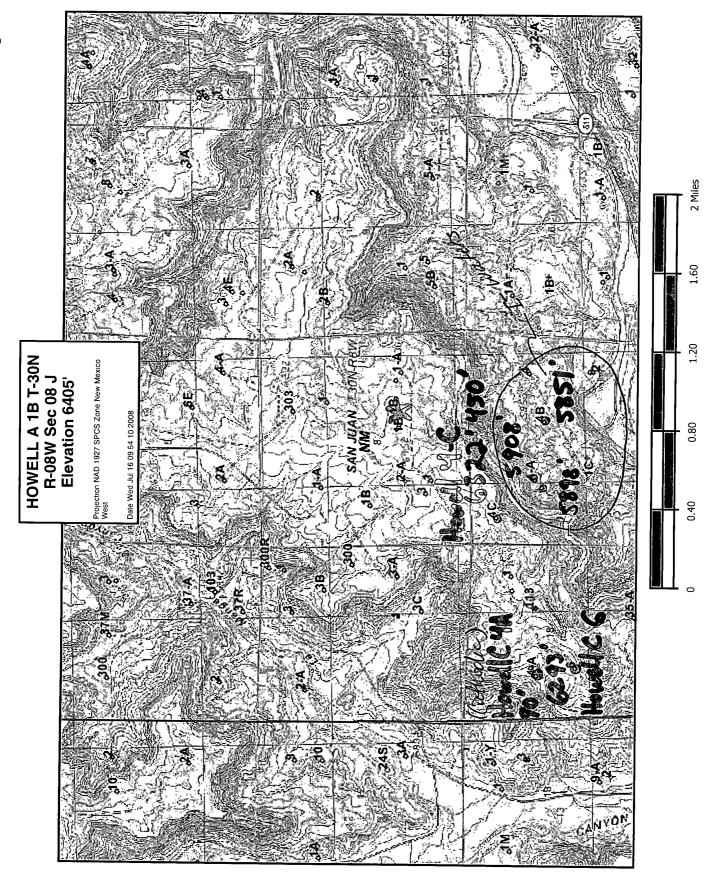
WATER COLUMN REPORT 07/16/2008

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Form 9-330 (Rev. 5-63)	是安全的程序的	W.		STAT		SUBM			, "Y	Form	approved.	-R955 5
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SI 282 34. DISPOSITION OF G	SI 906 AS (Sold, used fo	r fuel, ver	nted, etc.)				4.5	2	, n	TEST WITNESSED	7 7 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
35. LIST OF ATTACH	MENTS						157	5	RE(Anni Ne da r	Eka ja a a a a a a a a a a a a a a a a a	6 <u>2</u> 1
36. I hereby certify	that the foregoi	ng and a	ttached in	formation	ia compl	lete and corre	1 5 5	E)	a cap	R 25 1979		
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	*(Se	e Instru	ctions an	d Space	s for A	dditional [Data d	n Reve	rse Side	2) = # E E # # 8	1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 ဗ် ပ်

PINK — Originator File

WELL CASING CATHODIC PROTECTION CONSTRUCTION REPORT DAILY LOG

CONTRACT 2

Drilling Log (Attach Hereto).			C o mp	letion Date	10-1-	79
	ll and		10	CPS No		
Howell C#4A & # 6	Location NW18-3	0-8	G-	1378	W	
Type & Size Bit Used		1×60" Du	9.5.1	Work Order N		79 21
Anode Hole Depth Total Drilling Rig Time	Total Lbs. Coke Use			No. Sacks M		17.11
4/0 - 4/07D Anode Depth	4500					1
# 1 375 = 2 325 # 3 3/5 # 4, Anode Output (Amps)	305 295	- 6 2.8 5 -	7275	265	25 <u>5</u>	= 10 245
#12.0 #22.0 #32.2 #4	2.0 = 5 3.0	# 6 2.9	72.9 : 8	2.4	- 9 3. 3	s 102.2
Anode Depth # 11 # 12 # 13 # 14	≠ 15	# 16	17	18	<i>‡</i> . 19	i := 20
Anode Output (Amps)						1
# 11		≈ 16 No 8 C P Cable U	17 :: Sed	.8	≈ 19 No. 2 C.P. Cab	: 20 ble Used
	Ohms /. 2					
Remarks: 87 % #4A5 = .78	"6 = NONE(6	78) 2	<i>Jater</i>	at '	90 FT	
Approx. 3 GPM. C	Irilled 41	o' Logg	ed 410	1/N.	STALLE	= d
400 FT OF VENT Pi						
SLurried 45 SAC			J	per	, , , , ,	1014 3
Scurried 43 SAC	KS DF CO	ke.				
Holedepth = -90 Meter pole 40016A Rect 0:Tch+CAble=188 EXTRA CAble=155	GROUND BED L.	AYOUT SKETCH	Roha	ll Construct	Lon Completed	d
DISTRIBUTION:	130 130 1	4A →				
WHITE - Division Corrosion Office YELLOW - Area Corrosion Office	t	#6			,	A

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

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit NW Sec. 18 Twp 30 Rng 8
Name of Well/Wells or Pipeline Serviced HOWELL C #4A, #6, BAKER (ORRI) #1-12
cps 1378w
Elevation 6328' Completion Date 10/1/79 Total Depth 410' Land Type* N/A
Casing, Sizes, Types & Depths N/A
If Casing is cemented, show amounts & types used N/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. 90' SAMPLE TAKEN
Depths gas encountered: N/A
Type & amount of coke breeze used: 4500 lbs.
Depths anodes placed: 375', 325', 315', 305', 295', 285', 275', 265', 255', 245'
Depths vent pipes placed: 400'
Vent pipe perforations: 320'
Remarks: gb #1
/

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.

EL PASO NATURAL GAS COMPANY WELL COMPLETION LOG

	Name	4-C No.			
			,	Land Office San	
				Lease Number O	78596
easor El	Paso Natu	ral Gas Co.	Area Blanco	County San	Juan state New Mexic
		ON Rge. 8		_	East 931 West N.M.P.M
		DF	6 332		
measmon C	r			FORMATION	TOPS
	CAS	ING RECORD		Ojo Alamo	1832
Date	Size	Depth	Cement	Kirtland	2021
9-29-57	10 3/4"	173'	150	Fruitland	2740
	7 5/8**		250	Pictured Cliffs	3080
12-11-57	5 1/2"	3256-5360	ا الله	Lewis Cliff House	31.68
J.C. J.L. 71	7 =/=	J270 7500		Menefee	4781
Cotal Donth	5360	61		Point Lookout	<u>4889</u> 5263
HXXXXXXX		0 !		Mancos	5363
P.B.	ehm393)	V		1st Dakota	
	שיי יייע מוווייי	TOODD.	PACKER	2nd Dakota	
	UBING RI		IACKER	Morrison	
Date	Size	Depth	Date	Shinarump	
10 17 57	2"	5301'		Coconino	
L2-17-57	ے .	230T.	Туре	Rico	
		7	Depth	Pennsylvanian	
			, Dopun	Hermosa	
				Paradox	
	-		~ · · · · · · · · · · · · · · · · · · ·	Moias	
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RILL S'	TEM TEST	S :		· · · · · · · · · · · · · · · · · · ·	
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					Gage Before
om -1/6 mal		Quant	ity or Type Shot	/===	Gage Before
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	າ <i>ດ</i> -	4802' : Fro			4830 To 4840
om - 478	1.000		/m * FDS4 E310 *	5330-5340	
om 1478 URVEYS	4870 -	.4880; 5262-52			
om 478 URVEYS ELECTR	3: 4870-	4880; 5262-52 ES - 175 - 33 ¹	18; GRL-3100-53	168; IND-3351-5369; ML	-175-3347; TS-3500-5372
om 478 URVEYS ELECTR	3: 4870-	4880; 5262-52 ES - 175 - 33 ¹		168; IND-3351-5369; ML	-175-3347; TS-3500-5372
rom 478 URVEYS ELECTR TEMPER	3: 4870- IC LOGS RATURE SUR	·4880; 5262-52 ES - 175 - 33 ¹ VEYS B & R @	18; GRL-3100-53 1725'; B & R @	368; IND-3351-5369; ML	-175-3347; TS-3500-5372
URVEYS ELECTR TEMPER	3: 4870- IC LOGS RATURE SUR	.4680; 5262-52 ES - 175 - 33 VEYS B & R @ AL: Ch. Volum	18; GRL-3100-53	3415'	-175-3347; TS-3500-5372 Test Calculated A. O. F.



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

Operator MERIDIAN OIL Location: Unit SW Sec. 18 Twp 30 Rng 8
Name of Well/Wells or Pipeline Serviced HOWELL C #4
cps 10w
Elevation 6322 Completion Date 10/29/73 Total Depth 660 Land Type* N/A
Casing, Sizes, Types & Depths N/A
If Casing is cemented, show amounts & types used N/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. 450'
Depths gas encountered: N/A
Type & amount of coke breeze used: 7400 lbs.
Depths anodes placed: 606', 600', 594', 588', 582', 576', 570', 550', 544', 538'
Depths vent pipes placed: N/A
Vent pipe perforations: 197'
Remarks:gb #3

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.

CATHODIC PROTECTION CONSTRUCTION REPORT

The desident

Drilling Log (Attach Hereto).

Well Name	owell	C # 4	Loca	SW /	18-30	N - 84	CPS No.	10W	
Type & Size	Bit Used 3/4	<i> </i>					Work Order	No. 210	
Anode Hole [epth 60	Total Drilling Ri	g Time To	tal Lbs. Coke Us 7,400	ed Lost Circ	ulation Mat'l Us	ed No. Sacks N	Mud Used	
Anode Depth # 1 606	# 2 600	# 3 594	# 4 588	# 5 582	± 6 576	#7 570	* 8 550	# 9 544	 # 10 538
Anode Output # 1 2. /		1	1	# 5 4.3		1	II.		# 10 2.0
Anode Depth	1	1	1	1	1	1	1	1	
# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Outpu	(Amps)		1	1	1	1	T- '	1	1
# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	 # 20
Total Circuit	Resistance				No. 8 C.P. Cat	ole Used		No 2 C.P. Cal	ole Used
Volts	//. 8 Am	ps 9.0	Ohms	1.3/ 4	1	//2			

Remarks: Driller Said Water Q 450 Water Standing Q 540

Vent Mose Perforated 197' Pumped 18 Sacks

Slurry 56 Sacks. Void Buarantee Not Enough Low

Resistance soil, spaced Less Than 5'

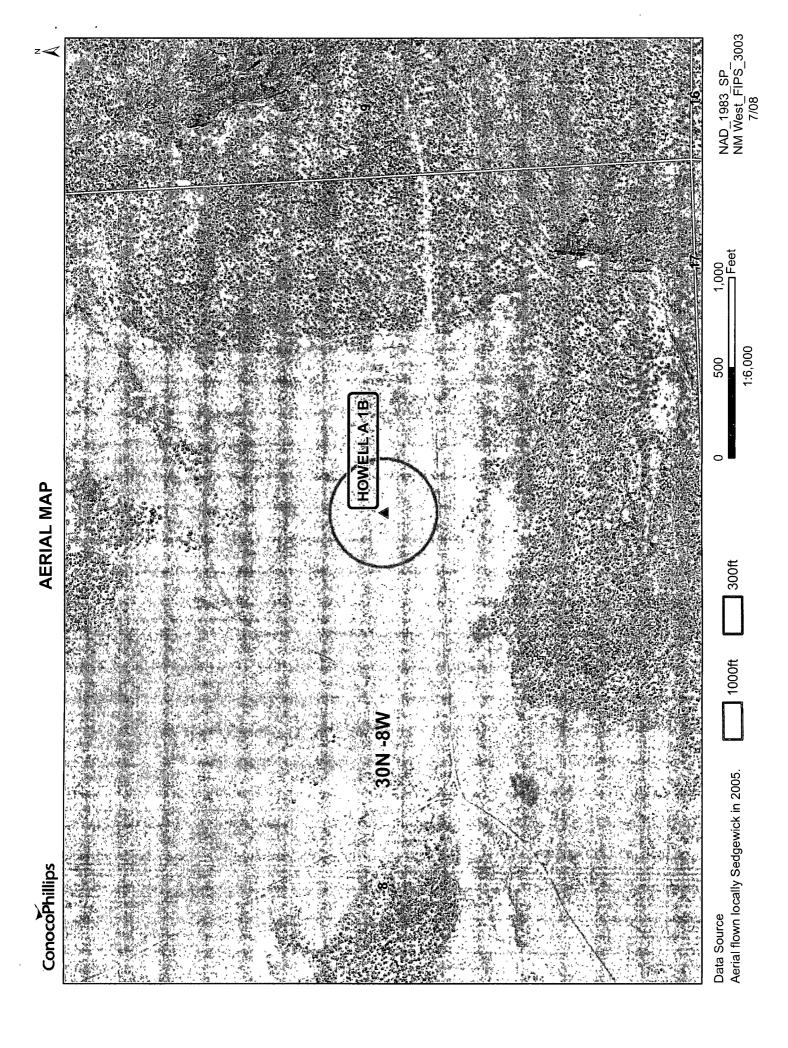
All Construction Completed

#2,230,00 563.40 Coke 11.40 CABIC 640.00 DEPTH 3,443.80 137.75 TAX 3,581.55 TOTAT

Eduard R. Paulet

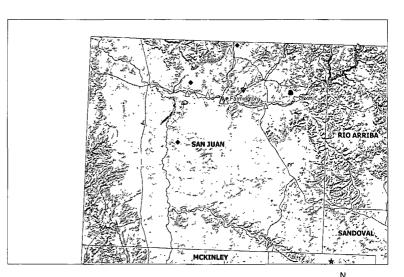
GROUND BED LAYOUT SKETCH

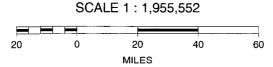
(18 ed 23 (18 ed 2) (18 ed 4)



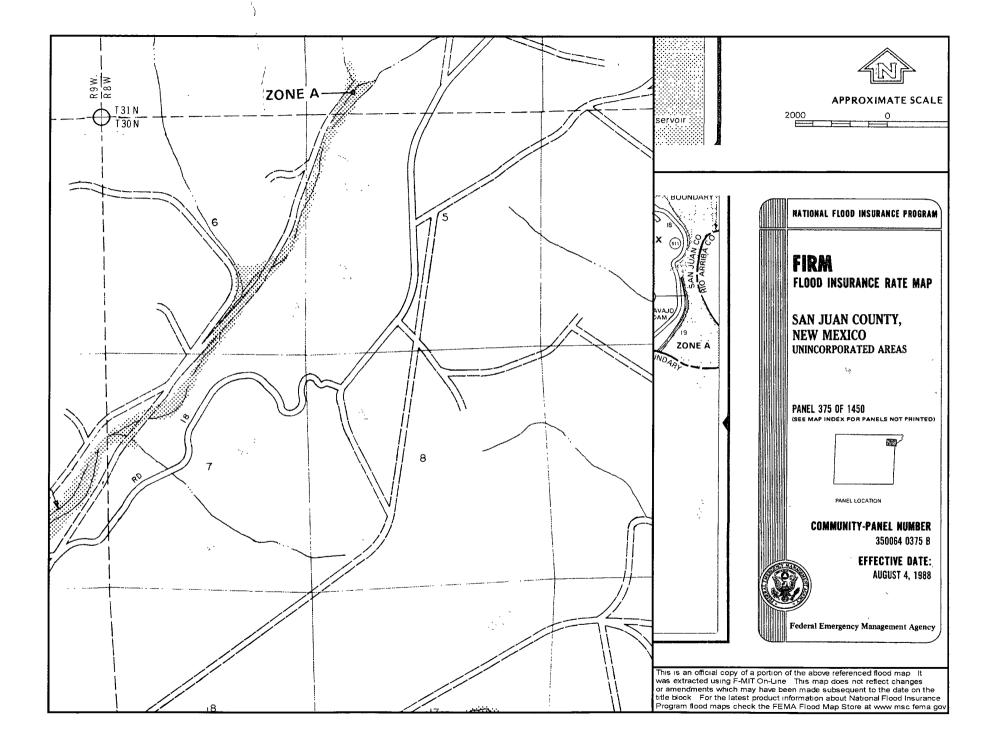
Howell A #1B Mines, Mills and Quarries Web Map

Mines, Mills	s & Quarries Commodity Groups
Δ	Aggregate & Stone Mines
•	Coal Mines
*	Industrial Minerals Mines
•	Industrial Minerals Mills
	Metal Mines and Mill Concentrate
	Potash Mines & Refineries
2	Smelters & Refinery Ops.
*	Uranium Mines
•	Uranium Mills









Siting Criteria Compliance Demonstrations

The Howell A #1B is not located in an unstable area. The location is not over a mine and is not on the side of a hill. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse.

Hydrogeological report for Howell A #1B

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:

Tafoya, Crystal

Sent:

Wednesday, August 20, 2008 2:25 PM

To: Subject: 'mark_kelly@nm.blm.gov' Surface Owner Notification

The following well locations temporary pit will be closed on-site. Please feel free to contact me at any time if you have any questions.

Howell A #1B Huerfano Unit #556 Lackey #100S Morris A #11R Heaton Com LS 8 #100

Thanks & Have a great day,

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

Email: Crystal.Tafoya@conocophillips.com

District 1 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 Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION/N 0 3 2008

State Lease - 7 Copies

Fool Lease - 3 Copies CONSERVATION DE Land of Land Management 20 South St. Francis — eau of Lang Manageme Santa Fe, NM 87505 Farmington Field Office

Fee Lease - 3 Copies

☐ AMMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-34737		2	2 Pool Code 3 Pool Name 72319 BLANCO MESAVERDE						
Property Cod 7119	c		5 Property Name HOWELL A					⁶ Well Number 1B	
7 OGRID NO 14538).		8 Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP					⁹ Elevation 6405	
	10 SURFACE LOCATION								
UL or lot no. J	Section 8	Township 30-N	Range 8-W	Lot Idn	Feet from the 1770	North/South line SOUTH	Feet from the 2020	East/West line EAST	County SAN JUAN
			11 E	Bottom H	ole Location	If Different Fro	m Surface	***************************************	
UL or lot no. J	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	13 Joint	or Infill	Consolidation	n Code	Order No.				

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		5228.5' (R) 5223.8' (M)	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. All Walke 3/10/08
			Signoture Crystal Walker Printed Norme Regulatory Technician Title and E-mail Address March 10th, 2008 Date IB SURVEYOR CERTIFICATION
WELL FLAG NAD 83 LAT: 36.823183° N LONG: 107.696352° NAD 27 LAT:36°49.390662' I LONG: 107°41.7442		2020,	I hereby certify that the well location shown on this plat was plotted from feith 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. Oate of Survey: 1/21/08 Signature and Seal of Professional Surveyor:
S 87*48'00" W S 87*42'05" W	1770'	≥ ≥ 200,721.b; b; c;	Certificate Number 384 1385

C.C.I. SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO UNMARKED BURIED (2) WORKING DAYS PRIOR TO CONSTRUCTION

BURLINGTON RESOURCES OIL AND GAS COMPANY LP

10 1 1 1 1 1 W

PIT CROSS SECTION NOTES: 220, × 400, = 2.03 YCKEZ P O. BOX 326 CCI 0.21 10.0° 막 ۱.0′ 90 LO **②** DHKE: .O+ L .09 L .8 ,V **6**) co **c.** 520, × 200, **©** ಠ ROAD 125" -NEM VCCERR 50 EDGE RIG ANCHOR RIG ANCHOR 130 ä 읶 (OVERFLOW-3' DISTURBANCE 1001 LΗ Þ∃ WELLHEAD TO FRONT WELLHEAD TO BACK **(1) (b)** TALDOMN 2 32.E REAR OF FLARE AREA CONSTRUCTED
CONSTRUCTED
CONSTRUCTED
CONSTRUCTED
CONSTRUCTED
CONSTRUCTED ₩DE RIG ANCHOR TI'Y OTNI YMAR A AND 1. HICH BERM N N 15, OEED 4330 ,OL SHALLOW 21 SLOPES RESERVE PIT FROM BOTTOM OF BLOW PIT 4. HICH MATT @c 213 TINED MILH 15 WIL POLY, LINER SIDE). - APPROXIMATE 15X75' PIT AREA NEW ACCESS 125' GROUND ELEV.: 6405 NAVD88 DATE: JANUARY 21, 2008 SAN JUAN COUNTY, NEW MEXICO **ZECTION 8, T-30-N, R-8-W, N.M.P.M.**, 1770' FSL, 2020' FEL HOWELL A 1B

NAD 83 LAT.: 36.823183°N / LONG.: 107.696352°W

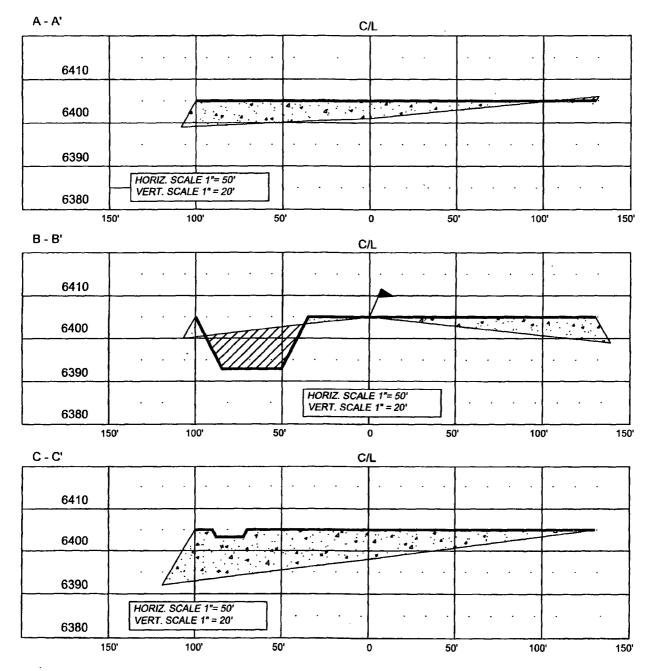
CHENAULT CONSULTING INC. BLOOMFIELD, NM, 87413

BURLINGTON RESOURCES OIL AND GAS COMPANY LP

HOWELL A 1B 1770' FSL, 2020' FEL

SECTION 8, T-30-N, R-8-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

ELEV.: 6405 NAVD88



NOTE: CCI IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD PRIOR TO CONSTRUCTION.

REVISIONS			
NO.	DESCRIPTION	REVISED BY	DATE
1	ISSUED FOR REVIEW	L.H	11/26/07
2	WELL MOVE	TJR	1/21/08
			

CCI

P.O BOX 328 BLOOMFIELD,NM, 87413 PHONE: (505)325-7707

CHENAULT CONSULTING INC.

Burlington Resources Oil & Gas Company, LP San Juan Basin Pit Design and Construction Plan

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

- 1. BR will design and construct a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3. BR will post a well sign, not less than 12" by 24", on the well site prior to construction of the temporary pit. The sign will list the operator on record as the operator; the location of the well site by unit letter, section, township range; and emergency telephone numbers.
- 4. BR shall construct all new fences utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes.
- 5. BR shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure.
- BR shall construct the pit so that the slopes are no steeper than two horizontal feet to 1 vertical foot.
- 7. Pit walls will be walked down by a crawler type tractor following construction
- 8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- 9. Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.
- 10. All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. BR will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. BR will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. BR will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 13. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into lined drill pit.
- 16. The lower half of the blow pit (nearest lined pit) will be lined with the same 20 mil liner. The upper half of the blow pit will remain unlined as allowed in Rule 19.15.17.11 F.11.
- 17. BR will not allow freestanding liquids to remain on the unlined portion of a temporary blow pit.

Burlington Resources Oil & Gas Company, LP San Juan Basin Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of temporary pits on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

- 1. BR will operate and maintain a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. BR will conserve drilling fluids by transferring liquids to pits ahead of the rigs whenever possible. All other drilling fluids will be disposed at Basin Disposal Inc., permit # NM-01-005.
- 3. BR will not discharge or store any hazardous waste in any temporary pit.
- 4. If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, then BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner.
- 5. If a leak develops below the liquid's level, BR shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner. BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels BR shall notify the Aztec Division office as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.
- 6. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 7. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 8. BR shall immediately remove any visible layer of oil from the surface of the temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from the pit's surface. An oil absorbent boom will stored on-site until closure of pit.
- 9. Only fluids generated during the drilling or workover process may be discharged into a temporary pit.
- 10. BR will maintain the temporary pit free of miscellaneous solid waste or debris.
- 11. During drilling or workover operations, BR will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged in the IADC reports. BR will file this log with the Aztec Division office upon closure of the pit.
- 12. After drilling or workover operations, BR will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at BR's office electronically and will be filed with the Aztec Division office upon closure of the pit.
- 13. BR shall maintain at least two feet of freeboard for a temporary pit.
- 14. BR shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the drilling rig.
- 15. BR shall remove all free liquids from a cavitation pit within 48 hours after completing cavitation. BR may request additional time to remove liquids from the Aztec Division office if it is not feasible to remove liquids within 48 hours.

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

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

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

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

- 1. All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division—approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves.
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
- 3. The surface owner shall be notified of BR's closing of the temporary pit as per the approved closure plan using certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally. The notification of closure will include the following:
 - i. Operator's name
 - Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at a licensed disposal facility.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	-500
Chlorides	EPA 300.1	(1000/500
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- 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 or Forest Service stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (unimpacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

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

Species shall be planted in pounds of pure live seed per acre: Present Pure Live Seed (PLS) = Purity X Germination/100

Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality) Source No. two (better quality) Purity 50 percent Purity 80 percent Germination 40 percent 63 percent Germination Percent PLS 20 percent 50 percent Percent PLS 2 lb. bulk seed required to make 5 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.

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

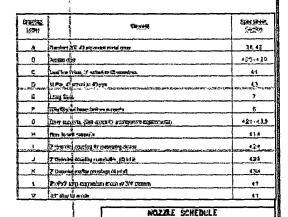
In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does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

- 1. BR will design and construct a BGT to contain liquids and to prevent contamination of fresh water and protect public health and environment.
- 2. BR will use the general location sign posted on location. If no general sign is posted a separate sign at the location of the BGT will be provided.
- 3. BR shall construct fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church.
- 4. BR will construct a expanded metal covering on the top of the BGT
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight.
- 6. The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom.
- 7. BR shall construct a below-grade tank to prevent overflow and the collection of surface water run-on.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.
- 9. BR shall equip below-grade tanks designed in this manner with a properly operating automatic high-level shut-off control device and manual controls to prevent overflows.
- 10. The geomembrane liner shall consist of 30-mil flexible PVC or 60-mil HDPE liner, or an equivalent liner material that the appropriate division district office approves. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions. The liner material shall be resistant to

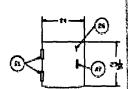
ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A.

11. The general specification for design and construction are attached in the BR document.

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Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of Below Grade Pit (BGT) on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

- 1. BR will operate and maintain a BGT to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. BR shall not allow a below-grade tank to overflow or allow surface water run-on to enter the below-grade tank.
- 3. BR shall continuously remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime.
- 4. BR shall inspect the below-grade tank at least monthly and maintain a written record of each inspection for five years.
- 5. BR shall maintain adequate freeboard to prevent overtopping of the below-grade tank.

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

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

General Requirements:

- BR shall close a below-grade tank within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- 2. BR shall close an existing below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- 3. BR shall close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on C-144
- 4. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility.
- 5. BR shall remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.
- If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 7. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100

mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.

- 8. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.
- If contamination is confirmed by field sampling. BR will follow the Guidelines For Remediation Of Leaks, Spills, and Releases NMOCD August 1993 when remediating contaminants identified
- 10. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 11. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 12. 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 the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Details on Capping and Covering, where applicable.
 - Sampling Results
- 13. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 14. BR shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

- 15. 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.
- 16. The surface owner shall be notified of BR's closing of the below-grade tank as per the approved closure plan using certified mail, return receipt requested.