#### District I 625 N French Dr , Hobbs, NM 88240

State of New Mexico **Energy Minerals and Natural Resources**  Form C-144 July 21, 2008

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

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

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

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### Pit, Closed-Loop System, Below-Grade Tank, or 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 X Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method 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

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

environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

Operator: Burlington Resources Oil & Gas Company, LP  OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: San Juan 27-4 Unit 42N
API Number: 30-039-30273 OCD Permit Number
U/L or Qtr/Qtr: N(SESW) Section: 8 Township: 27N Range: 4W County: Rio Arriba
Center of Proposed Design: Latitude: 36.58394' N Longitude: 107.27732' W NAD: 1927 X 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
2   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   20   mil   X   LLDPE   HDPE   PVC   Other     X   String-Reinforced     Liner Seams:   X   Welded   X   Factory   Other   Volume:   4400   bbl   Dimensions   65'   x   W   45'   x   D   10'
Closed-loop System:   Subsection H of 19 15.17.11 NMAC     Type of Operation:   P&A   Drilling a new well   Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)   Drying Pad   Above Ground Steel Tanks   Haul-off Bins   Other     Lined   Unlined   Liner type. Thickness   mil   LLDPE   HDPE   PVD   Other     Liner Seams:   Welded   Factory   Other   DECEIVED
Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume
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, inst	stution or chur	ch)
Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate Please specify 4' hogwire fence with a single strand of barbed wire on top.		
Anchiate Trease speeny 4 hogwire tence with a single strain of barbed wire on top.		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		
Screen Netting Other		
Monthly inspections (If netting or screening is not physically feasible)		
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		
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	deration of ap	proval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
10		
Siting Criteria (regarding permitting): 19.15.17.10 NMAC  Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable		
source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the		
appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria		
does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	No
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		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial		□No
application.		Пио
(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)	□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 purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	∐Yes	∐No
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended  Written confirmation or varification from the municipality. Written approved obtained from the municipality.	Yes	No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland.	Yes	No
<ul> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within the area overlying a subsurface mine.</li> </ul>	∏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 - FEMA map	Yes	No

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application Please indicate, by a check mark in the box, that the documents are attached.  Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15.17.9 NMAC  Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15.17.9  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17 10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17 9 NMAC and 19.15.17 13 NMAC  Previously Approved Design (attach copy of design)  API or Permit
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 appropriate requirements of 19.15.17.19  Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC  Previously Approved Design (attach copy of design)  API  Previously Approved Operating and Maintenance Plan API
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 (1) of Subsection B of 19.15.17 9 NMAC  Stting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Climatological Factors Assessment  Certified Engineering Design Plans - based upon the appropriate requirements of 19.15 17.11 NMAC  Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC  Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  Quality Control/Quality Assurance Construction and Installation Plan  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17 12 NMAC  Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Nuisance or Hazardous Odors, including H2S, Prevention Plan  Emergency Response Plan  Oil Field Waste Stream Characterization  Monitoring and Inspection Plan  Erosion Control Plan  Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14   Proposed Closure: 19.15.17 13 NMAC   Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type:   X   Drilling   Workover   Emergency   Cavitation   P&A   Permanent Pit   Below-grade Tank   Closed-loop System   Alternative
Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15 17.13 NMAC

Form C-144 Oil Conservation Division Page 3 of 5

16 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel 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 fluids and drill cuttings. Use attachment if more than two face required.	acılıtıes								
Disposal Facility Name, Disposal Facility Permit #:									
Disposal Facility Name: Disposal Facility Permit #-									
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future s  Yes (If yes, please provide the information No	ervice 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 requirements of Subsection H of 19 15 17.13 NMA  Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC	С								
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided belocertain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.									
Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - IWATERS database search; USGS: Data obtained from nearby wells	Yes X No								
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 obtained from nearby wells	N/A								
Ground water is more than 100 feet below the bottom of the buried waste	X Yes No								
- NM Office of the State Engineer - iWATERS database search; USGS, Data obtained from nearby wells	N/A								
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes X No								
- Topographic map, Visual inspection (certification) of the proposed site	Dv. Vn								
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes X No								
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site  Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	Yes XNo								
- Written confirmation or verification from the municipality; Written approval obtained from the municipality  Within 500 feet of a wetland  US Fig. and Wildlife Watened Identification man. Topographic man. Visual inspection (confification) of the proposed visual inspection (confirmation) of the proposed visual inspection (confirmation) of the proposed visual inspection (confirmation).	Yes X No								
<ul> <li>US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspection (certification) of the proposed site</li> <li>Within the area overlying a subsurface mine.</li> <li>Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	Yes XNo								
Within an unstable area.  - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society,	Yes XNo								
Topographic map 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 closury by a check mark in the box, that the documents are attached.	re plan. Please indicate,								
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC									
X Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC									
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC									
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 1	9.15 17 11 NMAC								
X Protocols and Procedures - based upon the appropriate requirements of 19.15 17 13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC									
X Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC									
Waste Matchar Sampling Flair - based upon the appropriate requirements of subsection F of 19 13 17.13 NMAC      Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards ca	nnot be achieved)								
X Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC									
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC									
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC									

Operator Application	Certification	-		
Operator Application ( I hereby certify that the inf	Certification: formation submitted with this application is true, a	accurate and complete to the	best of my knowledge and belief.	
Name (Print).	Crystal Tafoya	Title:	Regulatory, Technician	_
Signature.	Constal Talous	 Date ·	11/18/08	_
e-mail address	crystal tafoya@conocophillips.com	Telephone:	505-326-9837	_
20		<b>1</b> /1 (1) (1)		
	Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)	
OCD Representative S	ignature:		Approval Date:	3-08
Title: E.A.	sirolopec	OCD Pern	nit Number:	
7.00	monspec	000101		
Instructions Operators are report is required to be suf-	red within 60 days of closure completion): e required to obtain an approved closure plan pri bmitted to the division within 60 days of the comp been obtained and the closure activities have bee	or to implementing any closi letion of the closure activitie en completed	ire activities and submitting the closure report.	1
22				
Closure Method:				
Waste Excavation	_	d Alternative Closure	Method Waste Removal (Closed-loop s	systems only)
If different from ap	pproved plan, please explain			
	ng Waste Removal Closure For Closed-loop Sys ify the facility or facilities for where the liquids,			an two facilities
were utilized.				·
Disposal Facility Name			Permit Number:	
Disposal Facility Name Were the closed-loop s	ystem operations and associated activities perform	Disposal Facility		
	demonstrate complilane to the items below)	No	of the discussion of the service and open nones	
Required for impacted	areas which will not be used for future service an	d operations.		
Site Reclamation (	Photo Documentation)			
=	nd Cover Installation			
Re-vegetation App	blication Rates and Seeding Technique			
the box, that the docum		following items must be atto	iched to the closure report. Please indicate, b	y a check mark in
	Notice (surface owner and division) otice (required for on-site closure)			
	site closures and temporary pits)			
	mpling Analytical Results (if applicable)			
	Sampling Analytical Results (if applicable)			
	Name and Permit Number			
Soil Backfilling a	and Cover Installation			
l	oplication Rates and Seeding Technique			
—	(Photo Documentation)	_		7
On-site Closure I	Location: Latitude:	Longitude:	NAD	1983
	tification: formation and attachments submitted with this clo all applicable closure requirements and condition	-		helief. I also certify that
Name (Print):	•	Title:	•	
Signature:		Date		
e-mail address:		Telephone <sup>.</sup>		

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

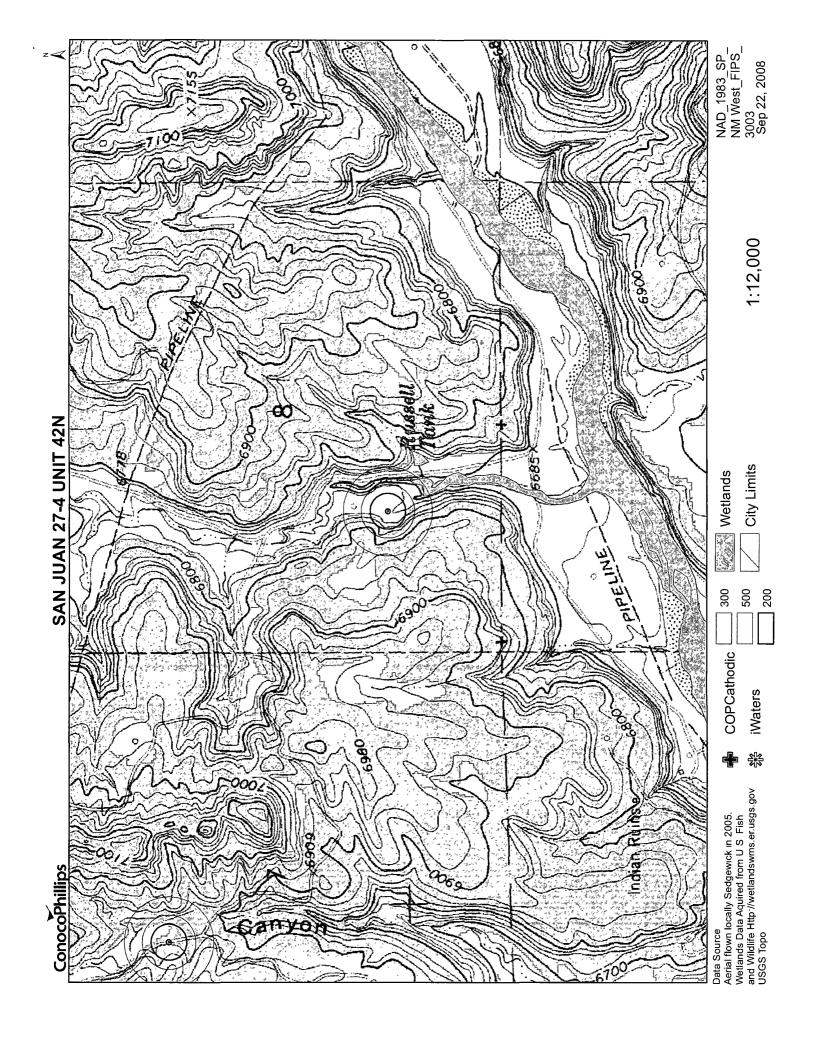
Township: 27N Range: 04W Sections:
NAD27 X: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) O Non-Domestic O Domestic All
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form iWATERS Menu Help

### WATER COLUMN REPORT 11/14/2008

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

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

Record Count: 3



- 4/2/96

NORTHWESTERN NEW MEXICO  (P-2899W)
operator Metidian Oil INC. Location: Unit K Sec. 08 Twp 27 Rng 04
Name of Well/Wells.or Pipeline Serviced
5.J. 27-4 #42 ANd #124
Elevation 6711 Completion Date 4/2/96 Total Depth 437 Land Type F
Casing Strings, Sizes, Types & Depths 3/27 Set 56 of 8 PVC (ASING.
No GAS, WATER, OF Boulders Were ENCOUNTERED During CASING.
If Casing Strings are cemented, show amounts & types used <u>Cemented</u>
WITH 14 SACKS.
If Cement or Bentonite Plugs have been placed. show depths & amounts used NONe
Depths & thickness of water zones with description of water: Fresh. Clear.
Salty, Sulphur. Etc. Hit Fresh Water AT 100.
Depths gas encountered: Nove
Ground bed depth with type & amount of coke breeze used: 437 DepTH.
Used 111 SACKS OF ASbury 218R (5550#)
Depths anodes placed: 402, 393, 375, 366, 330, 320, 300, 280, 271, 260, 250, 240, 220, +145,
Depths vent pipes placed: Surface To H37.
Vent pipe perforations: Bottom 300.
Remarks:
·

DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS

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.

# 30 59 ZHEWMERICA OIL CONSERVATION COMMISSION W LOCATION AND ACREAGE DEDICAT PLAT

Form C-102 Supersedes C-128 'Effective 1-1-65

All distances must be from the outer boundaries of the Section.

			1	·		<del></del>
Operator El Paso Na	tural Gas Com	pany	Lease	San Juan 27-l	, Unit	(SF-080673)   Well No. 124
Unit Letter K	Section 8	Township 27N	R	TM ande	County Ri	o Arriba
Actual Footage Loca 18 <u>5</u> 0		outh line and	1690	0 feet	from the	West line
Ground Level Elev. 6719	Producing Form	mation Cliff-Mesa Verde	Pool Ta	Blanco Me pacito P. (	sa Vei C. Ex	rde Dedicated Acresque: tension 160.0 & 320.0
. 1. Outline the	e acreage dedicat	ted to the subject we				marks on the plat below.
2. If more th interest an		dedicated to the wel	l, outli	ine each and iden	itify the	ownership thereof (both as to working
		fferent ownership is nitization, force-pooli			ave the	interests of all owners been consoli-
X Yes	No If an	swer is "yes," type o	f consc	olidation		Unitization
		owners and tract desc	ription	s which have act	ually be	en consolidated. (Use reverse side of
No allowab						ed (by communitization, unitization,
forced-pool sion.	ing, or otherwise)	or until a non-standar	d unit,	eliminating such	interest	s, has been approved by the Commis-
	; 			1	.	CERTIFICATION .
		K		i i		I hereby certify that the information con-
]		K		1		tained herein is true and complete to the
	i ·	.		· · · · ·		best of my knowledge and belief.
	i	Ŋ		į		Nome
	+	\				Drilling Clerk
	1	N .		į		El Paso Natural Gas Company
-		Ø		1		Company S 1974
	l 	Ŋ				Date
				<u> </u>		. OCT 11 1974
S	F-080673			1		I here of OLOGICA has the well location shown on all play was planed from field
16901	 	80		1		notes of actual surveys made by me or
	i	88		1	İ	under my supervision, and that the same is true and correct to the best of my
						knowledge and belief.
				i		A LA PARTIE
	- 850	<b>X</b>				April 21, 197
×		K		 		Registered Professional Engineers
	i					Treds tendo
			CHARLE TO			Certificate No.
0 330 660	90 1320 1650 1980	2310 2640 2000	150			3950

- 4/2/96

### NORTHWESTERN NEW MEXICO operator Meridian Oil INC. Location: Unit K Sec. 08 Typ 27 Rng 04 Name of Well/Wells.or Pipeline Serviced 5.J. 27-4 #42 AND #124 Elevation 67/1 Completion Date 4/2/96 Total Depth 437 Land Type F Casing Strings, Sizes, Types & Depths 3/21 Set 56 Of 8 PVC (ASING. NO CAS, WATER OF BOULders Were ENCOUNTERED DURING CASING. If Casing Strings are cemented, show amounts & types used Cemented If Cement or Bentonite Plugs have been placed, show depths & amounts used NONE Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. WIT Fresh WATER AT 100. Depths gas encountered: Nove Ground bed depth with type & amount of coke breeze used: 437 DepTH. Used 111 SACKS OF ASBURY 218R (5550#) Depths anodes placed: 402,393,375,366,330,320,300,290,280,271,260,250,240,220,+145. Depths vent pipes placed: Surtace To 437. Vent pipe perforations: Bollom 300. Remarks:

CATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS

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.

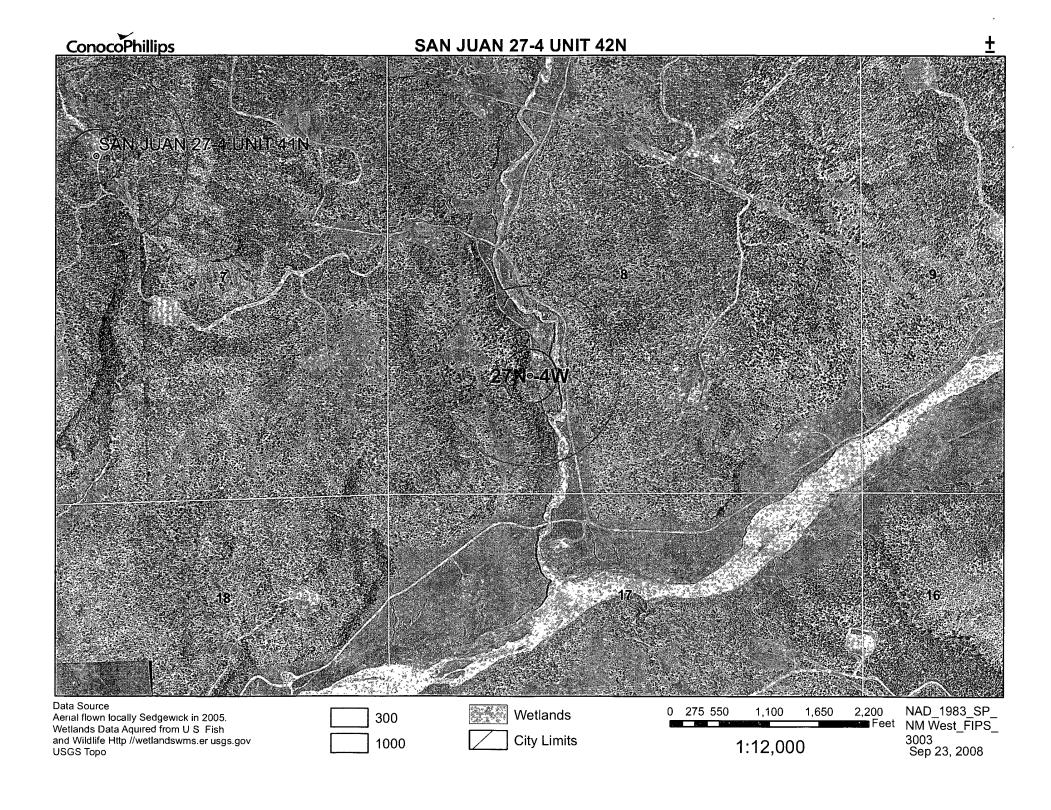
3002 01 3200

N MEXICO OIL CONSERVATION COMMISS

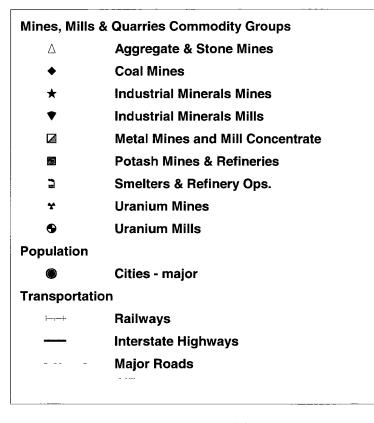
WELL LOCATION AND ACREAGE DEDICATION PLAT

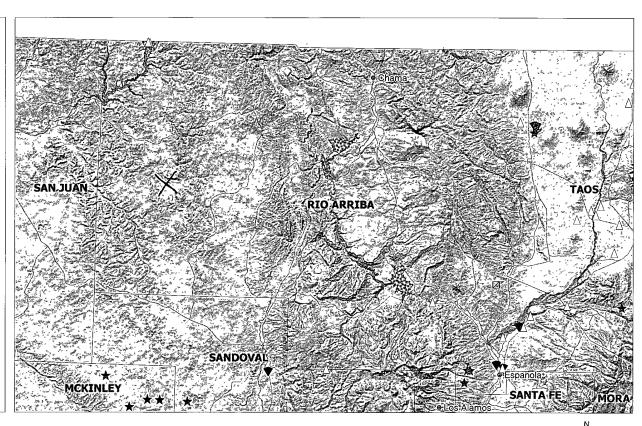
Supersedes (+128 Difective 14-6) ···· Jagan

Je rator		All distances must be from	the outer boundaries	W-12
	SO NATURAL GAS	·	AN JUAN 27-L	
K Sport Setten	Section 8	Pergrang 27-N	13 mar	RIO ARRIBA
7 ctual Post ide Lac 1500	feet from the	SOUTH	1550 ,	foot from the WEST.
6711	F. due.ng Pu	DAKOTA		DAKOTA 320.00 A.A.
- 1 Outline th	e acreage dedica	ted to the subject well	bv colored pencil	l or hachure marks on the plat below.
	an one lease is ad rovalty).	dedicated to the well, o	utline each and ic	dentify the ownership thereof (both as to working
		ifferent ownership is ded nitrzation, force-pooling.		I, have the interests of all owners been consoli-
Yes	No If ar	iswer is "yes," type of co	onsolidation	Unitization
		owners and tract descrip	ions which have a	actually been consolidated (Use reverse side of
No allowab	f necessary.) ble will be assignd ling, or otherwise)	ed to the well until all in or until a non-standard u	erests have been nit, eliminating su	n consolidated (by communitization, unitization, uch interests, has been approved by the Commis-
sion.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	77777		
		8	!	CERTIFICATION
		8	1	I hereby certify that the information con-
	i i	13	1	tained herein is true and complete to the best of my knowledge and belief.
	1	Ŋ		Carl E. Mailiew's
	- <del></del>	8		Dune
	1	ß	Ì	Petroleum Engineer
9	1	Ŋ.	1	El Paso Natural Gas Co.
, , , , , , , , , , , , , , , , , , ,	) I	Ŋ	1	August 7. 1968
s	F-080673	SECTION 8	 	Date
3	t I	N	i	I hereby certify that the well location
3	į	N		shown on this plat was plotted from field notes of actual surveys made by me or
1		Ŋ	l	under my supervision, and that the same
1550		<b>N</b>	1	is true and correct to the best of my knowledge and belief.
	+ - 1	<del></del>		
3	,0	N		Date Surveyor!
3	50	Ŋ		JUNE 26, 1968
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### San Juan 27-4 Unit 42N Mines, Mills and Quarries Web Map









### Hydrogeological report for San Juan 27-4 Unit 42N

### **Regional Hydrogeological context:**

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

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

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

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

### Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The San Juan 27-4 Unit 42N is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The FEMA Map for the subject well is unavailable due to its location being in the forest. FEMA does not provide floodplain information for Forest Service land. This well is not located near a wash or watercourse and is not in 100 year floodplain as visible on the topographic map. The Cathodic well data from the San Juan 27-4 Unit 42 has an elevation of 6711' and groundwater depth of great than 100'. The subject well has an elevation of 6712' which is 1' greater than the San Juan 27-4 Unit 42, therefore the groundwater depth is greater than 100'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the San Jose formation will create a stable area for this new location.

### Tafoya, Crystal

From:

Tafoya, Crystal

- Sent:

Thursday, July 10, 2008 8:16 AM 'mark kelly@nm.blm.gov'

To: Subject:

OCD Pit Closure Notification

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

Allison Unit 2B

Allison Unit 40N

Angel Peak B 27E

Ballard 11F

Cain 725S

Canyon Largo Unit 250N

Canyon Largo Unit 279E

Canyon Largo Unit 288E

Canyon largo Unit 297E

Canyon Largo Unit 465E

Carson SRC 4E

Day B 4P

Day B 5A

East 17S

**EPNG A 1B** 

EPNG B 1M

Federal A 1E

Filan 5M

Filan 5N

Fogelson 4 100

Fogelson 4 100S

Grambling C 202S

Hagood 19

Hamner 9S

Hardie 4P

Hare 295

Heaton Com 100

Helms Federal 1G

Howell 12

Huerfanito Unit 103F

Huerfanito Unit 29S

Huerfanito Unit 39S

Huerfanito Unit 47S

Huerfanito Unit 50E

Huerfanito Unit 75E

Huerfanito Unit 83E

Huerfanito Unit 87E

Huerfanito Unit 90E

**Huerfanito Unit 90M** 

Huerfanito Unit 98S

Huerfano Unit 108F

Huerfano Unit 282E

Huerfano unit 305

Huerfano unit 307

Huerfano Unit 554

Johnston Federal 24S

King 3

Lackey A Com 100S

Lambe 1C

Lambe 7S

Lively 8M

Lloyd A 100

Lloyd A 100S

Martin 100

McCord B 1F

McDurmitt Com 100S

McManus 13R

Mitchell 1S

Morris A 14

Newberry B 1N

Newsom B 503

Newsom B 8N

Pierce A 210S

Roelofs 1N

San Juan 27-4 Unit 132G

San Juan 27-4 Unit 132M

San Juan 27-4 Unit 139N

San Juan 27-4 Unit 140B

San Juan 27-4 Unit 141M

San Juan 27-4 Unit 147Y

San Juan 27-4 Unit 153B

San Juan 27-4 Unit 22M

San Juan 27-4 Unit 38P

San Juan 27-4 Unit 41N

San Juan 27-4 Unit 42N

San Juan 27-4 Unit 569N

San Juan 27-4 Unit 59N

San Juan 27-4 Unit 60M

San Juan 27-5 Unit 113F

San Juan 27-5 Unit 59N

San Juan 27-5 Unit 84N

San Juan 27-5 unit 901

San Juan 27-5 Unit 902

San Juan 27-5 Unit 903

San Juan 27-5 Unit 904

San Juan 27-5 Unit 905

San Juan 27-5 Unit 906

San Juan 27-5 Unit 907 San Juan 27-5 Unit 908

San Juan 27-5 Unit 909

San Juan 27-5 Unit 910

San Juan 27-5 Unit 912

San Juan 27-5 Unit 913

San Juan 27-5 Unit 914

San Juan 27-5 Unit 915

San Juan 27-5 Unit POW 916

San Juan 28-4 Unit 27M

San Juan 28-5 Unit 54F

San Juan 28-5 Unit 62E

San Juan 28-5 Unit 63M

San Juan 28-5 Unit 76N

San Juan 28-5 Unit 77N

San Juan 28-6 Unit 113N

#trict I Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

trict II Drawer DD, Artesia, NM 88211-0719

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

Certificate Number

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## 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:**

- 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. 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
  - 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	<b>5</b> 00
Chlorides	EPA 300.1	(1000/\$00

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

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

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