District I

1625 N French Dr., Hobbs, NM 88240

District II

1301 W Grand Ave , Artesia, NM 88210

District III

1000 Rio Brazos Rd, Aztec, NM 87410

1220 S St Francis Dr , Santa Fe, NM 87505

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

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

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

Form C-144

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 1836 Proposed Alternative Method Permit or Closure Plan Application Type of action:

Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

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

Please be advised that approval of this request does not relieve the operation of hability should operations result in pollution of surface water, ground water or the environment. Not 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	OURID#. 14336
Facility or well name: Huerfanito Unit 103F	
API Number: 30-045-34413	OCD Permit Number.
U/L or Qtr/Qtr: L(NWSW) Section: 3 Township: 26N	Range: 9W County: San Juan
Center of Proposed Design: Latitude: 36.51418' N	Longitude: <b>107.78290' W</b> NAD: 1927 X 1983
Surface Owner: X Federal State Private T	Tribal Trust or Indian Allotment
X   Pit: Subsection F or G of 19.15.17.11 NMAC     Temporary   X   Drilling   Workover     Permanent   Emergency   Cavitation   P&A     X   Lined   Unlined   Liner type: Thickness   20 mil     X   String-Reinforced     Liner Seams:   X   Welded   X   Factory   Other	X LLDPE HDPE PVC Other  Volume. 4400 bbl Dimensions L 65' x W 45' x D 10'
Closed-loop System: Subsection H of 19.15.17.11 NMAC   Type of Operation: P&A Drilling a new well Workover of notice of in   Drying Pad Above Ground Steel Tanks Haul-off Bins   Lined Unlined Liner type: Thickness mil   Liner Seams Welded Factory Other	or Drilling (Applies to activities which require prior approval of a permit or stent)  Other  LLDPE HDPE PVD Other  RECENTER
Visible sidewalls and liner Visible sidewalls only	er, 6-inch lift and automatic overflow shut-off
5 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to	

Fencing: Subsection D of 19.15 17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution from the four foot height, four strands of barbed wire evenly spaced between one and four feet  X Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top.  Netting: Subsection E of 19.15 17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)  Signs: Subsection C of 19 15.17.11 NMAC  12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	tution or chure	.h)
X Signed in compliance with 19 15.3.103 NMAC	<del></del> _	
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 consideration of approval.	ideration of ap	proval.
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	□NA	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applied to permanent pits)	Yes XNA	No
- 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	XNo
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	XNo
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	XNo
Society; Topographic map  Within a 100-year floodplain  - FEMA map	Yes	XNo

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15 17.9 NMAC
X   Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19 15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of
19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design)  API or Permit
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC   Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.   Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9   Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC   Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9  NMAC and 19 15.17.13 NMAC
Previously Approved Design (attach copy of design)  API
Previously Approved Operating and Maintenance Plan API
13
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17 9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19 15.17 9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17 10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15 17 11 NMAC  Leak Detection Design - based upon the appropriate requirements of 19.15 17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
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
O <sub>1</sub> l Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan  Glosura Plan hand your the appropriate accuracy at a f Subsection C of 10.15.17.0 NIMAC and 10.15.17.13 NIMAC
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19 15.17.13 NMAC
Proposed Closure: 19.15.17 13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: X Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System
Alternative
Proposed Closure Method: Waste Excavation and Removal
Waste Removal (Closed-loop systems only)
X On-site Closure Method (only for temporary pits and closed-loop systems)
X In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19 15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17 13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15.17.13 NMAC

Form C-144 Oil Conservation Division Page 3 of 5

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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 facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two fare 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	
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
17	
Siting Criteria (Regarding on-site closure methods only: 19.15.17 10 NMAC Instructions: Each stung criteria requires a demonstration of compliance in the closure plan Recommendations of acceptable source material are provided belower tains stung 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	ow Requests regarding changes to Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste  - NM Office of the State Engineer - iWATERS database search; USGS. Data obtained from nearby wells	Yes X No
Ground water is between 50 and 100 feet below the bottom of the buried waste  - NM Office of the State Engineer - iWATERS database search, USGS; Data obtained from nearby wells	Yes X No
	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	
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	
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 XNo
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	Yes XNo
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes X No
Within 500 feet of a wetland	Yes XNo
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine.  - Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division	Yes XNo
Within an unstable area - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society.	Yes XNo
Topographic map	
Within a 100-year floodplain FEMA map	Yes X No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closure 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 (ıf applıcable) 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 Protocols and Procedures - based upon the appropriate requirements of 19.15.17 13 NMAC	9.15.17.11 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 Material Sampling Finite Outside upon the appropriate requirements of Sussection For Fig. 13.17.13 Novice      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	
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15 17.13 NMAC	

19 /	
Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.	
Name (Print): Crystal Tafoya Tıtle. Regulatory Technician	
Signature: Constal Taloua Date 10/3/08	
e-mail address: crystal tafoya@conocophillips.com Telephone: 505-326-9837	
	<del></del>
20 OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature: Branslan Jamel Approval Date: 1/-4-08	ļ
OCD Representative Signature:    Second   Approval Date:   1-4-08	
Title: OCD Permit Number:	
Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.  Closure Completion Date:	
22	
Closure Method:  Waste Excavation and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)  If different from approved plan, please explain.	
23	
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:  Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities	
were utilized.	
Disposal Facility Name. Disposal Facility Permit Number	
Disposal Facility Name Disposal Facility Permit Number	
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?  Yes (If yes, please demonstrate compliane to the items below)	
Required for impacted areas which will not be used for future service and operations:	
Site Reclamation (Photo Documentation)	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24  Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division)	
Proof of Deed Notice (required for on-site closure)  Plot Plan (for on-site closures and temporary pits)	
Confirmation Sampling Analytical Results (if applicable)	
Waste Material Sampling Analytical Results (if applicable)	
Disposal Facility Name and Permit Number	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
Site Reclamation (Photo Documentation)	
On-site Closure Location: Latitude: Longitude: NAD 1927 1983	
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.	that
Name (Print). Title:	
Signature: Date:	
e-mail address Telenhone	

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

Township: 2	6N Range: 0	99W Sections:		
NAD27 X:	Y: (	Zone:	Search Radius:	!
County:	Basin:		Number:	Suffix:
Owner Name: (First)		(Last) All	○ Non-Domestic	O Domestic
POD	/ Surface Data F	Report ]	Avg Depth to Water Report	
	Clear For	m [ iWATERS	Menu Help	

#### WATER COLUMN REPORT 10/01/2008

479

234

24

#### (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth Wat∈ POD Number Well Tws Rng Sec q q q Zone X Y Water Colum 2 2 3 SJ 02961 26N 09W 01 1500 SJ 02962 09W 01 3 2 3 1500 26N 2 2 3 3 SJ 01756 26N 09W 11 75 40 3 3 3 17 26N 09W 12 348 175 SJ 03811 POD1 4 2 SJ 00412 26N 09W 16 202 65 13 SJ 00214 26N 09W 26 2 4 2 946 230 71 SJ 00064 26N 09W 26 4 2 1 490 215 27

Record Count: 8

26N

09W 26

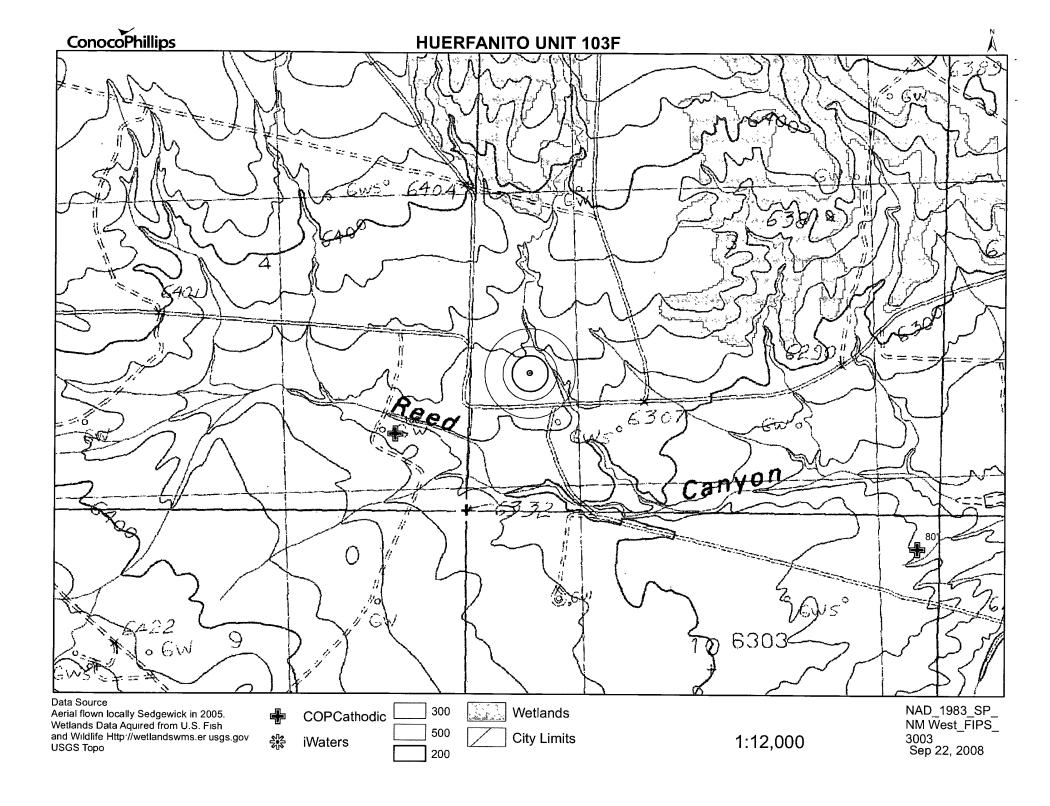
4 2 3

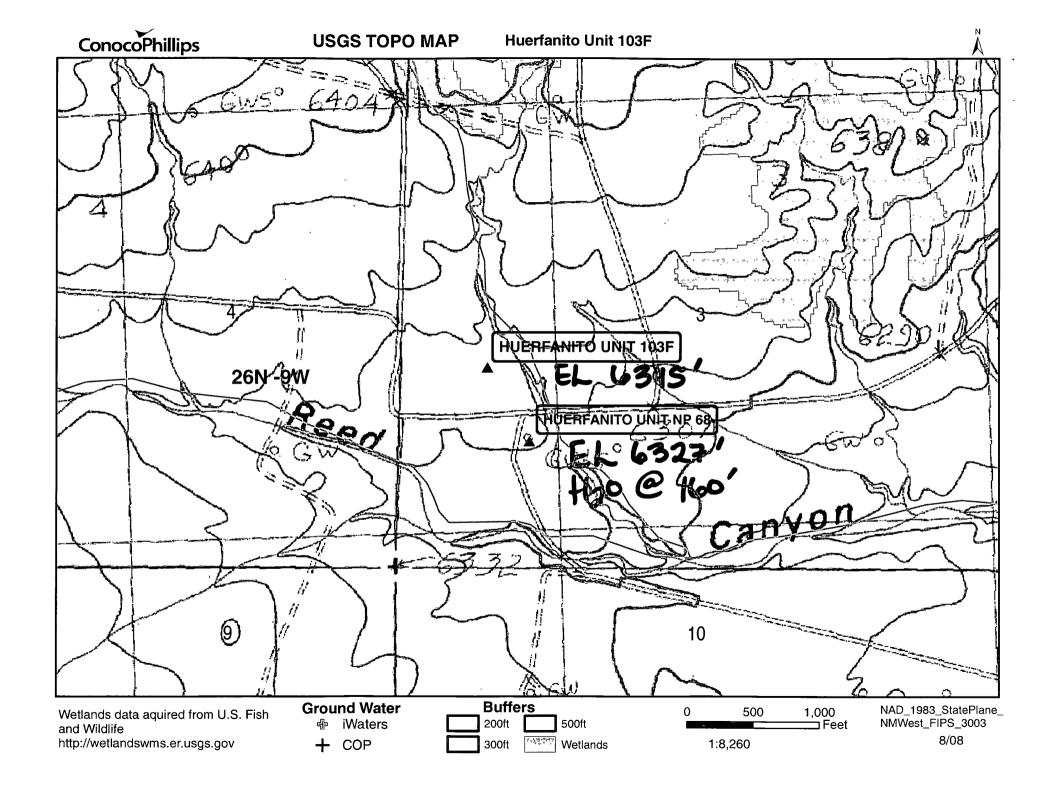
SJ 00063

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

Township: 27N	Range: 09W Sections:		
NAD27 X:	Y: [ Zone: ]	Search Radius:	
County:	Basin:,	Number:	Suffix:
Owner Name: (First)	(Last) O	O Non-Domestic	ODomestic
POD / Sui	face Data Report Av Water Column Repo	g Depth to Water Report	)
	Clear Form   iWATERS M	enu Help	
	WATER COLUMN F	REPORT 10/01/2008	
(quarter	s are 1=NW 2=NE 3=SW 4=SE s are biggest to smallest	Depth	Depth Wate

No Records found, try again





614

### 68 - 30-045 - 00008 103 - 30-045 - €11704

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

Operator MERIDIAN OIL	Location: UnitSW Sec. 3 Twp 26 Rng 9
Name of Well/Wells or Pipeline Service	ed HUERFANITO UNIT #103, #68
	cps 1013w
Elevation 6327 Completion Date 8/15/75	Total Depth 375' 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	n placed, show depths & amounts used
Depths & thickness of water zones with Fresh, Clear, Salty, Sulphur, Etc.	
Depths gas encountered: N/A	
Type & amount of coke breeze used:	34 SACKS
Depths anodes placed: 320', 310', 300',	290', 255', 235', 225', 215', 205', 175'
Depths vent pipes placed: N/A  Vent pipe perforations: 200'	DECEIVE
Remarks: \ge #1	MAY 31 1991
	OILCON, DIV

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

<sup>\*</sup>Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

#### WELL CASING

CATHODIC PROTECTION CONSTRUCTION RE

DAILY LOG

/	_		-	<b>34</b>
PORT	// 1	بر	10 miles	
L	19			
Com	! pletion [	ate	3/15	/>:
			. เมื่อวาวสอบได้เหลื	1

Drilling Log (Attach Hereto).

	- Fair	- UNIT	8103			,		
Well Name	il il	•	68	ocation Sw - 3	- 26-	9	CPS No.	0/3 W
Type & Size	Bit Used	34"					_	er No.5 ++ 4 7, 17 3
Anode Hole D	epth ·	Total Drillin	Rig Time	Total Lbs. Coke		Circulation Mat	1 Used No. Sack	4 May 270 Mark or 144 275
Anode Depth # 1320.	# 2 3/	o'   # 3 <b>30</b> 0	). # 4 <b>29</b> (		•	5 # 7 22.	5. # 8 215	/ # 9 <b>205</b> # 10 / 75
Anode Output	(Amps)	<b>3</b> # 3 <b>5</b> .		1	i	İ	_	
Anode Depth #.11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19 # 2003
Anode Output # 11	(Amps) # 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19. # 20
Total Circuit Volts	Resistance	Amps /8	Ohms	.67	No: 8-C.P:	Cable Used	and a state of the	No. 2.C.P. Cable Used 1.

Prilled 160 with Air Thon indested water. VENT pipe ON "I Anode, perferATed 200%

263,19

333.50 3010.17 All Construction Complete

GROUND BED LAYOUT SKETCH

Original & 1 Copy All Reports

### NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico

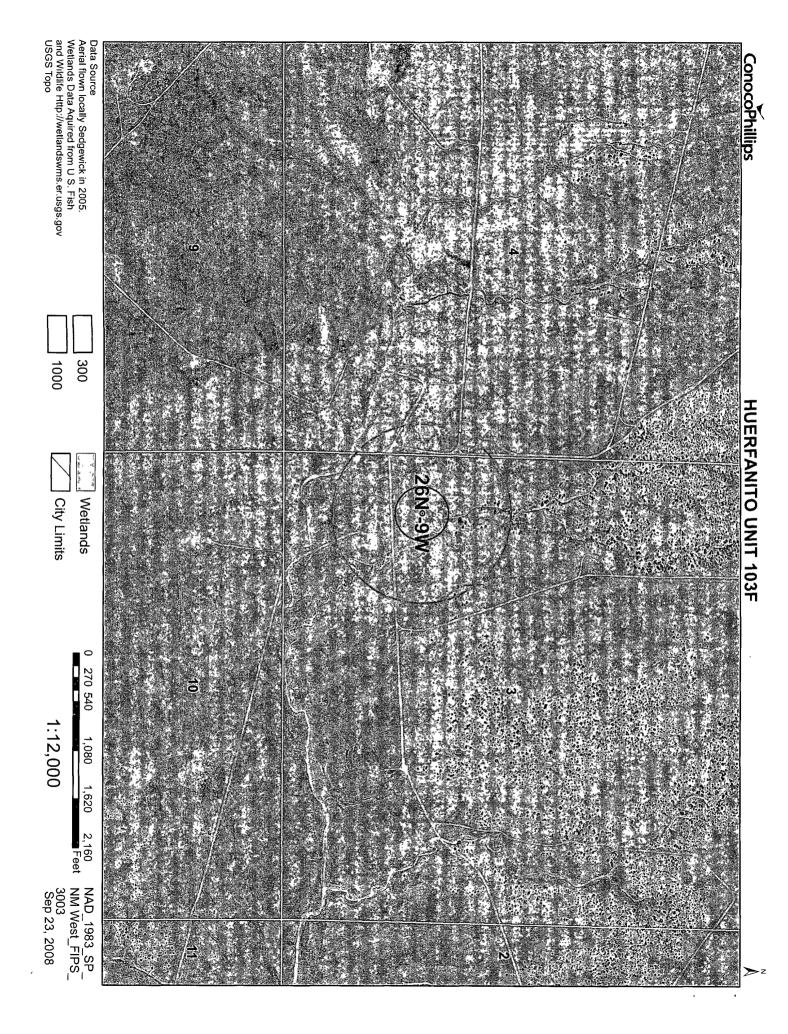
(Form C-104) Revised 7/1/57

### REQUEST FOR (OIL) - (GAS) ALLOWABLE

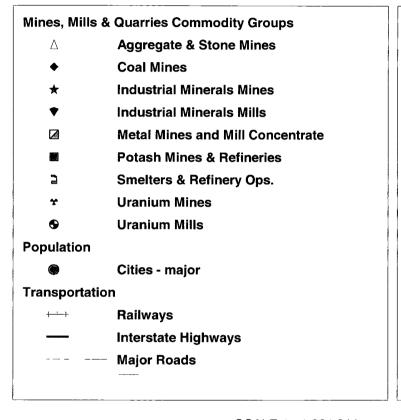
New Well Recompletion

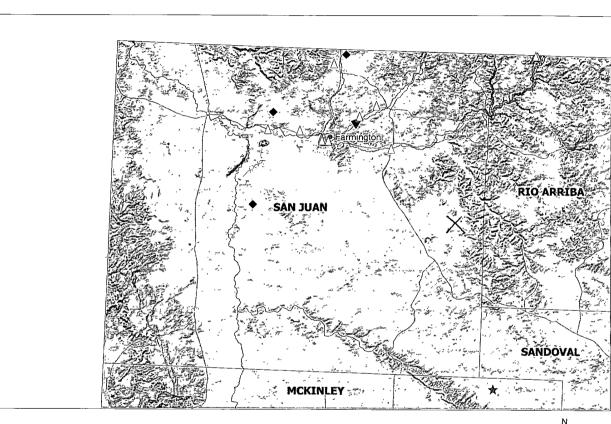
This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Cas must be reported on 15.025 psia at 60° Fahrenheit.

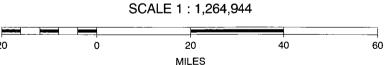
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		_			R A WELL KI		gu	. Star
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			T. 26N			Ballard P. (	<b>}.</b>	Pool
un J	uan		County. D	ate Spudded	11-23-54	Date Drilling Co	mpleted	12-23-54
	ase indicate					1 Depth 2155'		
D T	CIB		Top Oil/Gas	Pay 2072	Name Name	of Prod. Form. Pic	ctured Cl	iffs
	C   B	A	PRODUCING I	INTERVAL -				
E	F G	H	Perforation	18	Dept		<del></del>	<del></del>
•	·   ·		Open Hole	83'	Casi	ng Shae 2072	Depth Tubing	2121
			OIL WELL TE	<u>গ্ন</u> -				
ւ	KJ	I	Natural Pro	od. Testi	bbls.oil,	bbls water in	hrs,	Choke min. Size
			Test After	Acid or Fractur	e Treatment (afte	er recovery of volume	∍ of oil equa	il to volume of
M	N O	P	load oil us	sed):b	bls,oil,	bbls water in	hrs,	Choke min. Size
•	ł		GAS WELL TE	<u>si -</u>				
990 8	990 W		Natural Pro	M. Teeti	une/i	Day; Hours flowed	Choka S	i so
	asing and Ger	menting Reco				tc.):		
Size	Feet	Sax				1505 MCF/		
3 5/8	3" 941	100	1			MUF		
	7 7	100	Choke Size					
5 1/2	2072'	100	Acid or Fra	cture Treatment	(Give amounts of	f materials used, suc	h as acid, w	ater, oil, and
1"	2121'		sand): 19	5 qts. SMG	5000 gal.	oil and 8000#	sand.	
_	ELEI		Casing Press	Tubing Press	Date first oil run to	t new o tanks		····
			<b>-1</b>			Ges Products C		
		<u> </u>	Gas Transpo	rter Kl. Pr	aso Natural	Gas Company		
narks:	This we	LL.wasor				ner as the Cra		
IL Pa	so Matur	1 Gas ha	s purchase	d this well	with name	changed to the	Kl Paso	Natural
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						the best of my know	wledge.	
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					Address Box	997, Farmingt	on, Nev )	lexico



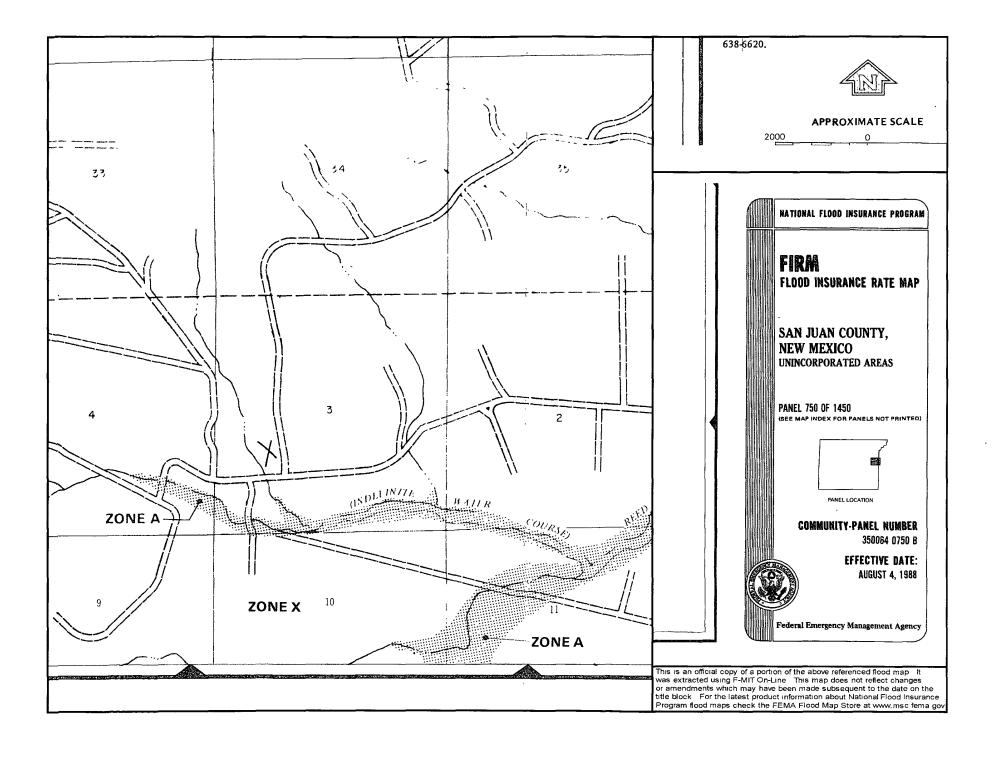
## Huerfanito Unit 103F Mines, Mills and Quarries Web Map











#### Hydrogeological Report for Huerfanito Unit 103F

#### **Regional Geological context:**

The Nacimiento Formation is of Paleocene age (Baltz, 1967, p. 35). It crops out in a broad band inside the southern and western margins of the central basin and in a narrow band along the west face of the Nacimiento Uplift. The Nacimiento is a nonresistant unit and typically erodes to low, rounded hills or forms badland topography.

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it commformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval.

Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones. Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

#### **Hydraulic Properties:**

Reported well yields for 53 wells completed in either the Animas or Nacimiento Formations range from 2 to 90 gallons per minute and the median yield is 7.5 gallons per minute. The primary use of water from Nacimiento and Animas Formations is domestic and livestock supplies. There are no known aquifer tests for the Animas or Nacimiento Formations, but specific capacities reported for six wells range from 0.24 to 2.30 gallons per minute per foot of drawdown (Levings et al., 1990).

The Animas and Nacimiento Formations are in many ways hydrologically similar to the San Jose Formation because sands in both units produce approximately the same quantities of water. However, the greater percentage of fine materials in the Animas and Nacimiento Formations may restrict downward vertical leakage to the Ojo Alamo Sandstone or Kirtland Shale. The poorly cemented fine material is highly erodible, forms a badland terrain, and supports only spotty vegetation. These conditions are more conductive to runoff than retention of precipitation.

#### **References:**

Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, east-central San Juan Basin, New Mexico: USGS Professional Paper

552, 101 p.

Brimhall, R.M., 1973, Ground-water hydrology of Tertiary rocks of the San Juan Basin, New Mexico, in Fassett, J.E., ed., Cretaceous and Tertiary rocks of the Southern Colorado Plateau: Four Corners Geological Society Memoir, p. 197-207.

Fassett, J.E., 1974, Cretaceous and Tertiary rocks of the eastern San Juan Basin, New Mexico and Colorado, in Guidebook of Ghost Ranch, central-northern New Mexico: New Mexico Geological Society, 25th Field Conference, p. 225-230.

Fassett, J.E., and Hinds, J.S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: USGS Professional Paper 676, 76 p.

Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6.

#### Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Huerfanito Unit 103F is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. The groundwater depth is considered to be greater than 100' as determined by the topographic map and the Cathodic well data from the Huerfanito Unit NP 68 with an elevation of 6327' and groundwater depth of 160'. The subject well has an elevation of 6345' which is slightly greater than the Huerfanito Unit NP 68, 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 Cathodic data provided the indication of groundwater depth is greater than 100'. The hydro geologic analysis indicates the groundwater depth and the Nacimiento formation will create a stable area for this new location.

#### Tafoya, Crystal

From:

Tafoya, Crystal

Sent:

Thursday, July 10, 2008 8:16 AM

To:

'mark\_kelly@nm.blm.gov'

Subject:

**OCD Pit Closure Notification** 

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

Allison Unit 2B

Allison Unit 40N

Angel Peak B 27E

Ballard 11F

Cain 725S

Canyon Largo Unit 250N

Canyon Largo Unit 279E

Canyon Largo Unit 288E

Canyon largo Unit 297E

Canyon Largo Unit 465E

Carson SRC 4E

Day B 4P

Day B 5A

East 17S

**EPNG A 1B** 

EPNG B 1M

Federal A 1E

Filan 5M

Filan 5N

Fogelson 4 100

Fogelson 4 100S

Grambling C 202S

Hagood 19

Hamner 9S

Hardie 4P

Hare 295

Heaton Com 100

Helms Federal 1G

Howell 12

Huenfanitotunit\_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

Osstrict I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210

Energy, Minerals & Natural Resources Department

Form C-102
Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr. AUG 2 9 2007

Form C-102
Revised October 12, 2005
Instructions on back
State Lease - 4 Copies
Fee Lease - 3 Copies
Santa Fe, NM 87505

AUG 2 9 2007

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

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

Bureau or Land Management RepORT Farmington Field Office

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-045-	*Poo1 Code 71599	Podl Name BASIN DAKOTA	
Property Code 7138		*Property Name HUERFANITO UNIT	
'OGRID No. 14538	•	"Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY, LP	

					<sup>10</sup> Surface	Location			`
U, or lot no.	Section 3	Township 26N	Range 9W	Let Joh	Feet from the 1530	AbruySouth 33ne SOUTH	Feet from the 665	East/Heat Tire WEST	SAN JUAN
	16 Bottom Hole Location If Different From Surface								
UL or lot no.	Section	Township	Range	Lot lon	Feet from the	North/South line	Feet from the	East/Next 1sns	County
320.89 Acres - W/2				Buloink or Infall	14 Consolidation Code	IF Order No.	<u> </u>	<u></u>	

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

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION						
1336.50° ¤	2638 L.OT 4	3.68 LOT 3	, LOT 2	LOT 1	1331.88	TOPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this arganization either owns a working interest or unlessed mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location oursaint to a contract with an owner of such a mineral or working interest, or to a voluntary ponling agreement or a compulsory pooling order haretofore entered by the division.
1320 65'	LEASI SF-0	E USA 78135			1320.00	Signature Date  Kandis Roland Printed Name  **BURVEYOR CERTIFICATION** I horeby certify that the well location shown on this plat was plotted from field notice of actual surveys made by we or indermy supervision, and that the same is true and content to the beat of my belief.
1320.33°	.OIII	LAT: 36 "30.8502 N LONG: 107 "45.9370" W DATUM NAD27 LAT: 35.51418 "N LONG: 107.78290 "N GATUM: NAD83			.00.	Date of Survey: JUNE 13, 2007 Signature and Seal of Professional Surveyor  C. EDINAL  MEXICO
1320.33	,0 <u>53</u> 0	5196	) 3.16		2640	JASON C. EDWARDS Certificate Number 15269

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

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

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

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

#### General Plan:

- All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division—approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011).
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
- 3. The surface owner shall be notified of BR's closing of the temporary pit prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email, or verbally. The notification of closure will include the following:
  - i. Operator's name
  - 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	<del>-50</del> 0
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. BLM stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

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

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

Source No. One (poor quality)

Purity

50 percent

Germination

40 percent

Percent PLS

20 percent

Source No. two (better quality)

Purity

80 percent

Germination

63 percent

Percent PLS

50 percent

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

1 lb. PLS 1 lb. PLS

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