District 1

1625 N French Dr , Hobbs, NM 88240

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

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

District IV

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 opriate NMOCD District Office

1220 S. St. Francis Dr., Santa Fe, NM 87505	
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	٠
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative reque	st
Please be advised that approval of this request does not relieve the operator of hability should operations result in pollution of surface water, ground water or the	
environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.	
Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538	_
Address: PO Box 4289, Farmington, NM 87499	_
Facility or well name: HANCOCK B 8S	
API Number:         30-045-34636         OCD Permit Number:	
U/L or Qtr/Qtr: M(SW/SW) Section: 27 Township: 28N Range: 9W County: San Juan	_
Center of Proposed Design: Latitude: 36.628083 °N Longitude: 107.781108 °W NAD: 1927 X 19	83
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment	
X Pit: Subsection F or G of 19.15.17.11 NMAC	
Temporary: X Drilling Workover	
Permanent Emergency Cavitation P&A  X Lined Unlined Liner type: Thickness 12 mil X LLDPE HDPE PVC Other	
X String-Reinforced	
Liner Seams: X Welded X Factory Other Volume: 4400 bbl Dimensions L 65' x W 45' x D 10	,
Enter Seattle [A] velocity [L] state [A] velo	
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	<u>`</u>
	么
Liner Seams: Welded Factory Other	
Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume: bbl Type of fluid:  Tank Construction material:  Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner Visible sidewalls only Other  Liner Type: Thickness mil HDPE PVC Other	
Volume: bbl Type of fluid: \@ case DIV DIST	3
Tank Construction material:	
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
Visible sidewalls and liner Visible sidewalls only Other	
Liner Type: ThicknessmilHDPEPVCOther	
S	
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  X Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top.				
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)				
Signs: Subsection C of 19.15 17.11 NMAC  12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  X Signed in compliance with 19.15.3.103 NMAC				
Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	leration of appi	roval.		
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 lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes	ΠŃο		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No		
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	∐NA			
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applied to permanent pits)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image				
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 verification from the municipality; Written approval obtained from the municipality	Yes	No		
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site				
Within the area overlying a subsurface mine.  - Written confirmation 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 & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes	□No		
Within a 100-year floodplain	Yes	No		

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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 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 or Permit						
12 Closed-loop Systems Permit Application Attachment Checklist:Subsection B of 19.15 17.9 NMAC						
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9						
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC						
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC						
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC						
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9  NMAC and 19.15.17.13 NMAC						
Previously Approved Design (attach copy of design)  API						
Previously Approved Operating and Maintenance Plan API						
13						
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC						
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.						
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC						
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC						
Climatological Factors Assessment						
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC						
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC						
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC						
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC						
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 Spiriting workover Emergency Cavitation F&A Fermanent Pit Below-grade rank Closed-100p System						
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 Book fill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC						
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC						
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC						

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16	•				
Waste Removal Closure For Closed-loop Systems That Utilize A	boye Ground Steel Tanks or Haul-off Bins Only:(19 15.17 13 D NMAC) of liquids, drilling fluids and drill cuttings. Use attachment if more than tw	)			
facilities are required	of riquias, ariting futas and artic curings. One attachment if more than tw	0			
Disposal Facility Name	Disposal Facility Permit #:				
Disposal Facility Name:					
	associated activities occur on or in areas that will nbe used for futur				
Required for impacted areas which will not be used for future service.  Soil Backfill and Cover Design Specification - based to Re-vegetation Plan - based upon the appropriate require.  Site Reclamation Plan - based upon the appropriate require.	upon the appropriate requirements of Subsection H of 19.15.17.13 Itements of Subsection I of 19 15 17 13 NMAC	NMAC			
17					
Siting Criteria (Regarding on-site closure methods only: 19	9.15.17.10 NMAC				
	he closure plan Recommendations of acceptable source material are provided belo ate district office or may be considered an exception which must be submitted to the equivalency are required Please refer to 1915 1710 NMAC for guidance				
Ground water is less than 50 feet below the bottom of the bur	ried waste.	Yes X No			
- NM Office of the State Engineer - 1WATERS database search	; USGS Data obtained from nearby wells	□N/A			
Ground water is between 50 and 100 feet below the bottom o	f 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 l	buried waste.	X Yes No			
- NM Office of the State Engineer - iWATERS database search;		N/A			
Within 300 feet of a continuously flowing watercourse, or 200 feet o (measured from the ordinary high-water mark)	f any other significant watercourse or lakebed, sinkhole, or playa lake	Yes XNo			
- Topographic map, Visual inspection (certification) of the prop	osed site	,			
Within 300 feet from a permanent residence, school, hospital, institution - Visual inspection (certification) of the proposed site, Aerial pho	•••	Yes X No			
		Yes X No			
Within 500 horizontal feet of a private, domestic fresh water well or s purposes, or within 1000 horizontal fee of any other fresh water well - NM Office of the State Engineer - iWATERS database; Visual	• •				
F	pal fresh water well field covered under a municipal ordinance adopted	Yes X No			
- Written confirmation or verification from the municipality, Wi	ntten approval obtained from the municipality				
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographi	c man. Visual inspection (certification) of the proposed site	Yes X No			
Within the area overlying a subsurface mine.	e map, visual hispection (certification) of the proposed site	Yes X No			
- Written confiramtion or verification or map from the NM EMN	IRD-Mining and Mineral Division				
Within an unstable area		Yes X No			
, ,	u of Geology & Mineral Resources; USGS, NM Geological Society;				
Topographic map Within a 100-year floodplain FEMA map		Yes XNo			
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Inst by a check mark in the box, that the documents are attached	tructions: Each of the following items must bee attached to the cl	osure plan. Please indicate,			
·	on 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					
	ice burial of a drying pad) - based upon the appropriate requiremen				
X   Protocols and Procedures - based upon the appropriate					
=	on the appropriate requirements of Subsection F of 19.15.17.13 N	MAC			
	priate requirements of Subsection F of 19.15 17.13 NMAC				
X   Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)					
X Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC					
X Re-vegetation Plan - based upon the appropriate requi					
Y Sita Paglamation Plan hasad upon the appropriate re	quirements of Subsection G of 10 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): Mane E. Jaramillo Title. Staff Regulatoly Technician
Signature: MM L n MM W Date: 4\2\100
e-mail address: marie.e jaramillo@corocophilips com Telephone: 0505-326-9865
20 OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Brank Fell Approval Date: 8-14-09
Approval Date: 8-79-01
Title: Euriro (spec 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 Backfüling 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
25
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 that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print) Title:
Signature: Date:
e-mail address: Telephone:

Form C-144 Oil Conservation Division



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

**Section(s):** 23, 22, 21, 28, **Township:** 28N **Range:** 09W

27, 26, 33, 34,

35

Data Source Aerial flown locally Sedgewick in 2005. Wetlands Data Aquired from U S. Fish and Wildlife Http://wetlandswms.er.usgs.gov USGS Topo



**iWaters** X SEC X QTR-QTR

X QTR-QTR-QTR

**iWaters** COP

1:10,000

1,000 0 250 500 == Feet NAD\_1983\_SP\_ NM West\_FIPS\_ 3003

# TIERRA CORROSION CONTROL, INC. <u>DRILLING LOG</u>

DATE: March 11, 2009

COMPANY: ConocoPhillips

LOCATION: Hancock B 8S

LEGALS: S27 T28N R9W

COUNTY: San Juan

STATE: NM

DRILLER: Eugene Silago

BIT SIZE: 6 3/4"

CASING SIZE/TYPE: 20' X 8" PVC

DEPTH: 295'

VENT PIPE: 295'

PERF PIPE: 135' - 295'

ANODE TYPE: 2" X 60" Duriron

ANODE AMOUNT: 10

LBS COKE BACKFILL: 2,600#

COKE TYPE: Asbury

**BOULDER DRILLING: None** 

DEPTH	DRILLER'S LOG	AMPS	DEPTH	DRILLER'S LOG	AMP
20	Sandstone		310		
25			315		
30			320		
35		.2	325		
40		2	330		
45		.2	335		
50		.2	340		
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180		1.2	470		
185		1.5	475		┪╴
190		1.6	480		<del> </del>
195		1.6	485		
200		1.6	490		<del> </del>
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220		2.0			
225		2.0			
230		20			
235		2.0			
240		2.5			
245		2.8			
250		3.0			
255		3.1			
260		3.0			
265		3.0			
270		3.2			
275		3.5			
280		3.0			1
285		2.9	<del> </del>		
290		2.9			1
295	<b>*</b>	2.0			1
300		1			†··

ANODE #         DEPTH         NO COKE         COKE           1         285         2.9         4.8           2         275         3.5         6.6           3         265         3.0         6.3           4         255         3.1         6.5           5         245         2.8         6.6           6         235         2.0         5.8           7         225         2.0         5.7           8         215         1.6         4.2           9         205         1.7         3.2           10         195         1.6         2.1           11         12         1.6         2.1           13         1.4         1.5         1.6         1.7           18         19         20         2.1         2.2         2.3           24         25         26         27         28         29           30         30         30         30         30         30		The state of the s		
1     285     2.9     4.8       2     275     3.5     6.6       3     265     3.0     6.3       4     255     3.1     6.5       5     245     2.8     6.6       6     235     2.0     5.8       7     225     2.0     5.7       8     215     1.6     4.2       9     205     1.7     3.2       10     195     1.6     2.1       11     12       13     14     15       16     17     18       19     20     21       21     22     23       24     25     26       27     28     29       30     30	ANODE #		I	
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4     255     3.1     6.5       5     245     2.8     6.6       6     235     2.0     5.8       7     225     2.0     5.7       8     215     1.6     4.2       9     205     1.7     3.2       10     195     1.6     2.1       11     12       13     14       15     16       17     18       19     20       21     22       23     24       25     26       27     28       29     30	3			6.3
5     245     2.8     6.6       6     235     2.0     5.8       7     225     2.0     5.7       8     215     1.6     4.2       9     205     1.7     3.2       10     195     1.6     2.1       11     12       13     14       15     16       17     18       19     20       21     22       23     24       25     26       27     28       29     30	4			
6     235     2.0     5.8       7     225     2.0     5.7       8     215     1.6     4.2       9     205     1.7     3.2       10     195     1.6     2.1       11     12     1.6     2.1       13     14     15     16       17     18     19     20       21     22     23     24       25     26     27     28       29     30     30	5		2.8	
7 225 2.0 5.7  8 215 1.6 4.2  9 205 1.7 3.2  10 195 1.6 2.1  11 12 13 14 15 16 16 17 18 19 20 21 19 22 23 24 25 26 27 28 29 30	6	235	2.0	
8     215     1.6     4.2       9     205     1.7     3.2       10     195     1.6     2.1       11     12     13       13     14     15       16     17     18       19     20     21       21     22     23       24     25     26       27     28     29       30     30	7	225		
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	30			

WATER DEPTH: None ISOLATION PLUGS: LOGING VOLTS: 11.8

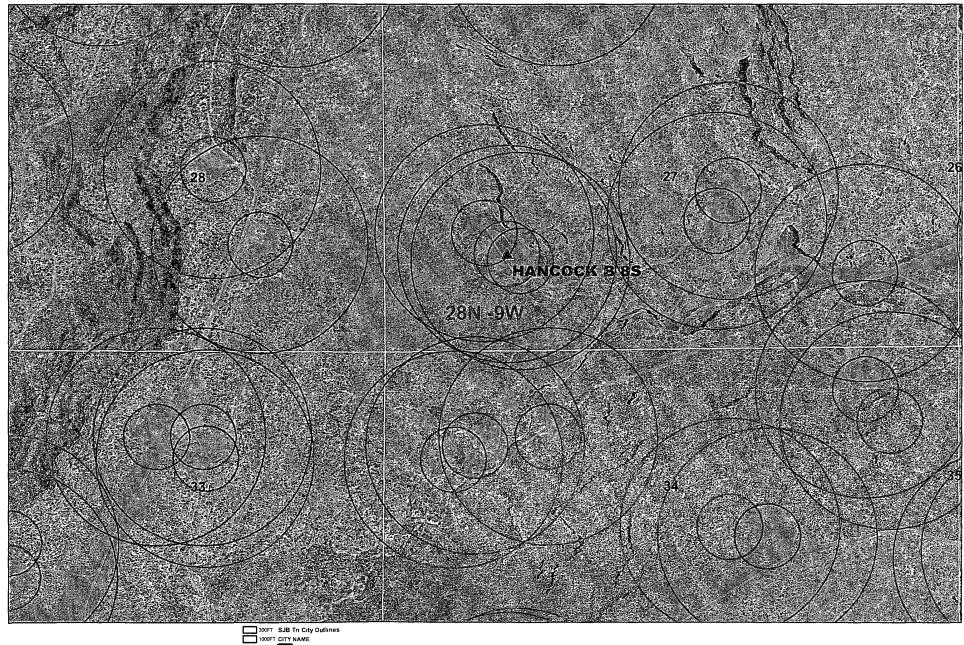
**VOLT SOURCE: AUTO BATTERY** 

TOTAL AMPS: 14.5

TOTAL GB RESISTANCE: .81

**REMARKS**:

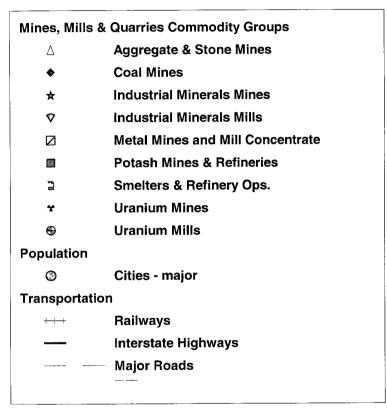


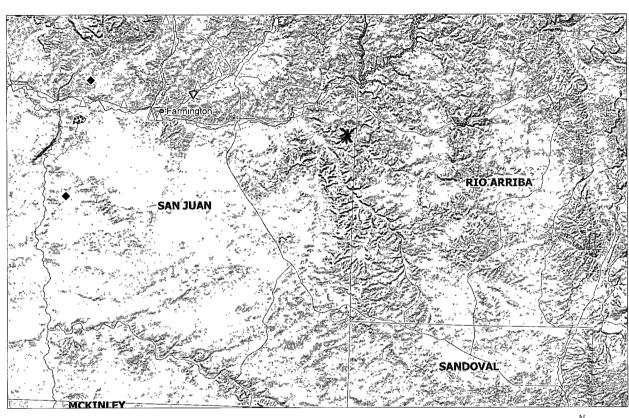


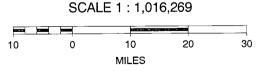
Data Source Aerial flown locally Sedgewick in 2005. Wetlands Data Aquired from U S. Fish and Wildlife Http://wetlandswms er usgs.gov USGS Topo 1:10,000

0 250 500 1,000 Feet NAD\_1983\_SP\_ NM West\_FIPS\_ 3003 June 23, 2009

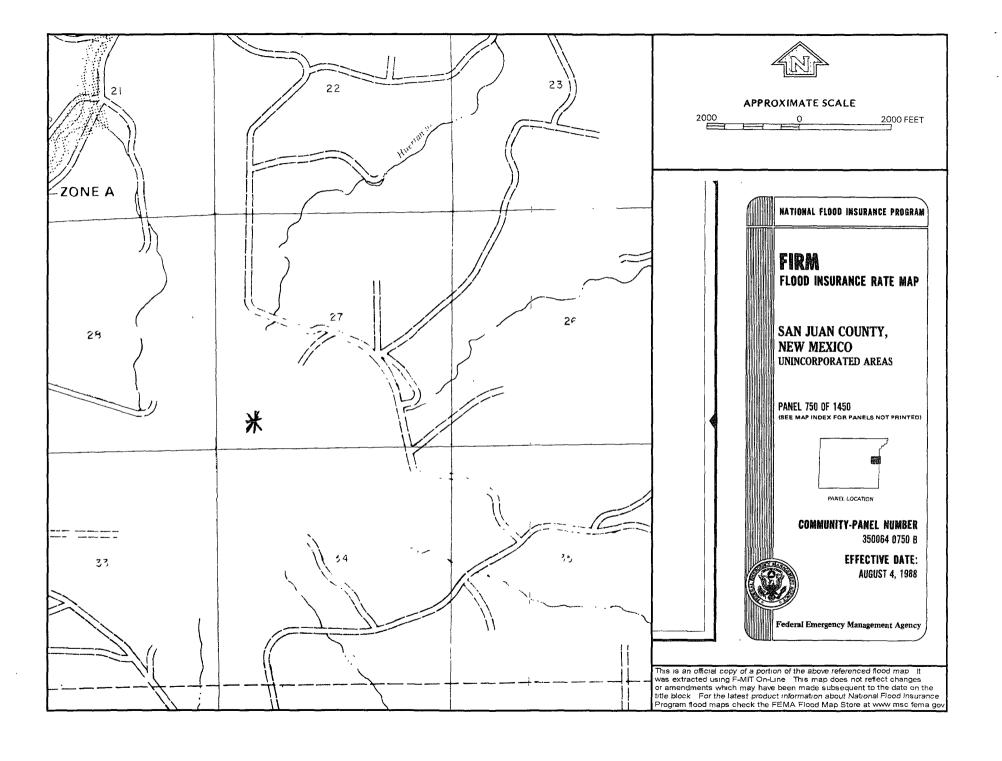
# HANCOCK B 8S MINES MILLS & QUARRIES











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

The Hancock B 8S 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 Cathodic well data from the subject well has an elevation of 6227' and no groundwater depth was found, 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 Nacimiento formation will create a stable area for this new location.

#### Hydrogeological Report for Hancock B 8S

#### **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.

### Jaramillo, Marie E

From:

Jaramillo, Marie E

Sent:

Sunday, August 02, 2009 3:21 PM

To:

Subject:

'mark\_kelly@nm.blm.gov'
OCD PIT CLOSURE NOTIFICATION 08/02/09

#### Mark,

The temporary pit at the well name will be closed on-site. The new OCD pit rule 17 requires the surface owner to be notified. Please let me know if you have any questions. Thanks

#### Hancock B 8S

Marie Jaramillo Staff Regulatory Tech. ConocoPhillips Office # (505) 326-9865 Fax # (505) 599-4062 mailto:marie.e.jaramillo@conocophillips.com District I
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

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

District IV

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 7 Copies Fee Lease - 3 Copies

☐ AMMENDED REPORT

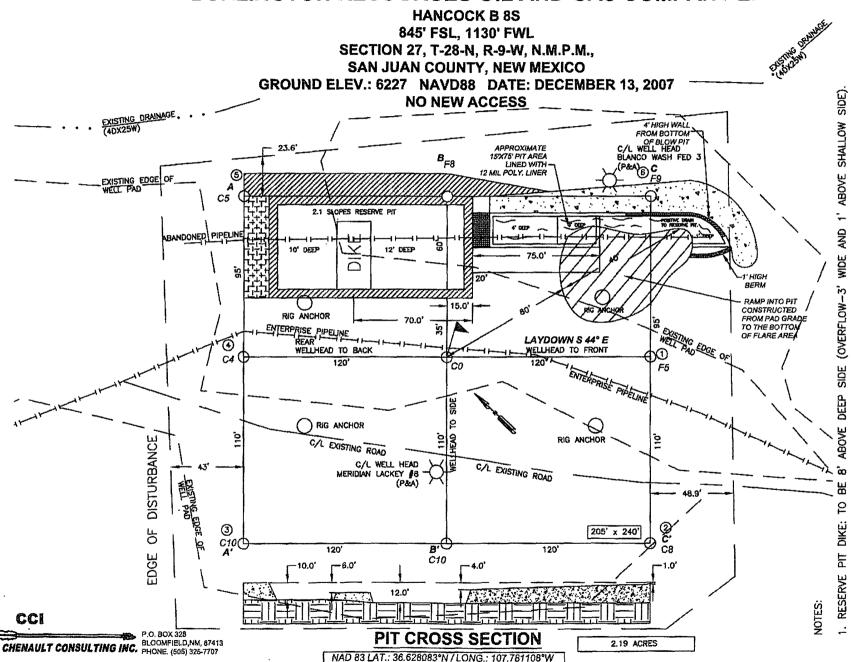
			WEL	L LOCA	ATION AND	ACREAGE DE	EDICATIO	ON PLA	AT	
1,	API Number 2 P		Pool Code 3 Pool Name FRUITLAND COAL							
<sup>4</sup> Property Code				5 Property Name         6 Well Number           HANCOCK B         8S						
<sup>7</sup> OGRID N	lo.		BURL	INGTON	8 Operator RESOURCES	or Name OIL AND GAS C	OMPANY	LP		<sup>9</sup> Elevation 6227
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Certificate Number:

2640.0' (R) 2639.2' (M)

S 89'44'31" W

# **BURLINGTON RESOURCES OIL AND GAS COMPANY LP**



PRIOR TO CONSTRUCTION, UNMARKED BURIED (2) WORKING DAYS UTILITIES OR PIPELINES. ON OF ANY MARKED OR U SS ROAD AT LEAST TWO ( FOR UNDERGROUND UTILIFICALL FOR LOCATION C C.C.I. SURVEY'S CONTRACTOR S PIPLINES OR (

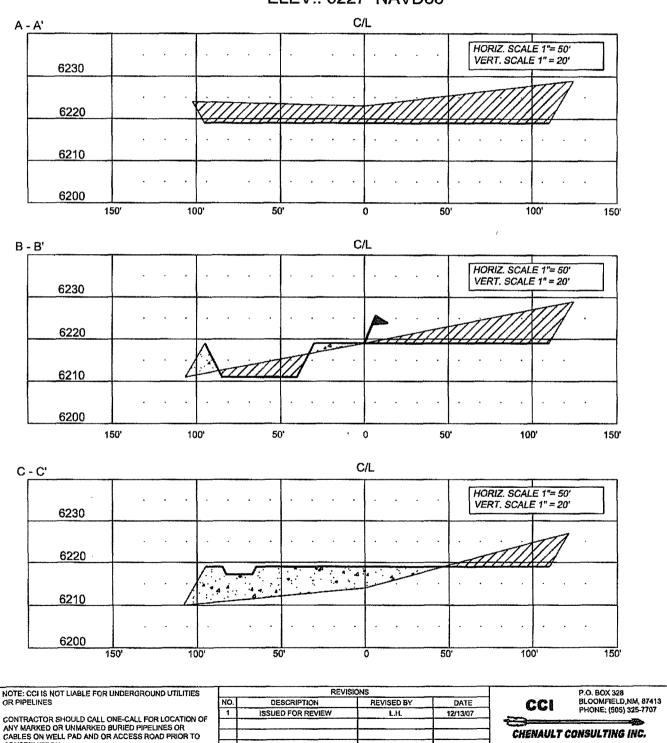
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## **BURLINGTON RESOURCES OIL AND GAS COMPANY LP**

HANCOCK B 8S 845' FSL, 1130' FWL

SECTION 27, T-28-N, R-9-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

ELEV.: 6227 NAVD88



## 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	500	
Chlorides	EPA 300.1	1000/500	

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

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

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

Source No. One (poor quality) Source No. two (better quality) 50 percent 80 percent Purity Purity Germination 40 percent Germination 63 percent 50 percent Percent PLS 20 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.