Form C-144 Revised June 6, 2013

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, 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.

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

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

Santa Fe, NM 87505

Pit, Below-Grade Tank, or	
Proposed Alternative Method Permit or Closure Plan A	<u>pplication</u>
Proposed Alternative Method Permit or Closure Plan Age Type of action:    Below grade tank registration   Permit of a pit or proposed alternative method   Closure of a pit, below-grade tank, or proposed alternative method   Modification to an existing permit/or registration   Closure plan only submitted for an existing permitted or non-per	
or proposed alternative method	milited pit, below grade tallik,
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tan	nk or alternative request
ease be advised that approval of this request does not relieve the operator of liability should operations result in pollution avironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governments.	
Operator: Burlington Resources Oil Gas Company LP OGRID #:14538	
Address: P.O. Box 4289, Farmington, New Mexico 87499	OIL CONS. DIV DIST. 3
Facility or well name: San Juan 28-7 Unit 237P	HIN 4 0 0014
API Number: 30-039-3167 OCD Permit Number:	JUN 16 2014
U/L or Qtr/Qtr <u>J</u> Section <u>19</u> Township <u>27N</u> Range <u>7W</u> County: <u>Rio Arriba</u>	
Center of Proposed Design: Latitude 36.55532°N Longitude 107.61410°W NAD: 1927 1983	
Surface Owner: 🛛 Federal 🗌 State 🗋 Private 🗍 Tribal Trust or Indian Allotment	
☑ Pit: Subsection F, G or J of 19.15.17.11 NMAC	
Temporary: Drilling Workover	
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chlori	
Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chlori ☐ Lined ☐ Unlined Liner type: Thickness 20 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other	
Permanent	
Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chlori ☐ Lined ☐ Unlined Liner type: Thickness 20 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other	
Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chlori ☐ Lined ☐ Unlined Liner type: Thickness 20 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other ☐ String-Reinforced ☐ Liner Seams: ☐ Welded ☐ Factory ☐ Other ☐ Volume: 7700 bbl bbl Dimension	ns: L <u>120'</u> x W <u>55'</u> x D <u>12'</u>
Permanent	ns: L <u>120'</u> x W <u>55'</u> x D <u>12'</u> W Plan s
Permanent	ns: L <u>120'</u> x W <u>55'</u> x D <u>12'</u> W Plan s
Permanent	ns: L <u>120'</u> x W <u>55'</u> x D <u>12'</u> W Plan s
Permanent	ns: L 120' x W 55' x D 12'  W Plan s  off
Permanent   Emergency   Cavitation   P&A   Multi-Well Fluid Management   Low Chlori     Lined   Unlined   Liner type: Thickness 20 mil   LLDPE   HDPE   PVC   Other     String-Reinforced     Liner Seams:   Welded   Factory   Other   Volume: 7700 bbl bbl   Dimension     Below-grade tank: Subsection   of 19.15.17.11 NMAC     Wolume:   bbl Type of fluid:   Variance   Gradient   Gradient   Gradient     BY:   Jonathan Kelly   DATE:	ns: L 120' x W 55' x D 12'  W Plan s  off
Permanent   Emergency   Cavitation   P&A   Multi-Well Fluid Management   Low Chlori   Lined   Unlined   Liner type: Thickness 20 mil   LLDPE   HDPE   PVC   Other   String-Reinforced   Volume: 7700 bbl bbl   Dimension   DENIED   DIMENSION	ns: L <u>120'</u> x W <u>55'</u> x D <u>12'</u> W Plan s
Permanent   Emergency   Cavitation   P&A   Multi-Well Fluid Management   Low Chlori   Lined   Unlined   Liner type: Thickness 20 mil   LLDPE   HDPE   PVC   Other   String-Reinforced   Volume: 7700 bbl bbl   Dimension   DENIED   Dimension   Dimension   DENIED   Dimension   Dimension   DENIED   Dimension   Dim	ns: L <u>120'</u> x W <u>55'</u> x D <u>12'</u> W Plan s
Permanent   Emergency   Cavitation   P&A   Multi-Well Fluid Management   Low Chlori   Lined   Unlined   Liner type: Thickness 20 mil   LLDPE   HDPE   PVC   Other   String-Reinforced	au office for consideration of approval.
Permanent Demergency Cavitation P&A Multi-Well Fluid Management Low Chloric Liner Liner type: Thickness 20 mil LLDPE HDPE PVC Other  String-Reinforced Liner Seams: Welded Factory Other Volume: 7700 bbl bbl Dimension  Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume: bbl Type of fluid: Prince Construction material: Bry Jonathan Kelly Secondary containment with leak detection Visible sidewans, DATE: 078214 (505) 334-6178 Ext. 122  Visible sidewalls and liner Visible sidewalls only Other  Liner type: Thickness mil HDPE PVC Other  Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Burer of Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent pits, 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 pits)	au office for consideration of approval.
Permanent   Emergency   Cavitation   P&A   Multi-Well Fluid Management   Low Chlori   Linet   Unlined   Liner type: Thickness 20 mil   LLDPE   HDPE   PVC   Other   String-Reinforced   Liner Seams:   Welded   Factory   Other   Volume: 7700 bbl   bbl   Dimension   DENIED   Dimension   Dimension   DENIED   Dimension   Dimension   Dimension   DENIED   Dimension   D	au office for consideration of approval.

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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)	
7.	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☑ Signed in compliance with 19.15.16.8 NMAC	
8.	
<u>Variances and Exceptions:</u> 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:	
<ul> <li>✓ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.</li> <li>☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</li> </ul>	
Exception(s). Requests must be submitted to the statuta to Environmental Bareau office for consideration of approval.	
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 accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	☐ Yes ☒ No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☑ NA
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. ( <b>Does not apply to below grade tanks</b> )  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☑ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks)  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ⊠ No
Within a 100-year floodplain. (Does not apply to below grade tanks)  - FEMA map	☐ Yes ☑ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured	□ Vaa □ Na
from the ordinary high-water mark).	Yes No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	☐ Yes ☑ No
application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet 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 search; Visual inspection (certification) of the proposed site	☐ Yes ☑ No

Within 100 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
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 No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
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).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 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 ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached.  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 NMAC 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. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:  or Permit Number:	NMAC 15.17.9 NMAC
11.  Multi-Well Fluid Management Pit 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 document of the following items must be attached.  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  A List of wells with approved application for permit to drill associated with the pit.  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC  Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Previously Approved Design (attach copy of design) API Number:	.15.17.9 NMAC
The violation repriesed besign (attach copy of design) Att induiter.	

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12. 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 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	
<ul> <li>☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan</li> <li>☐ Emergency Response Plan</li> <li>☐ Oil Field Waste Stream Characterization</li> <li>☐ Monitoring and Inspection Plan</li> <li>☐ Erosion Control Plan</li> </ul>	. ·
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: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative  Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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 C 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 H of 19.15.17.13 NMAC	
15. 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 sout provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. I 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Ground water is more than 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 No
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
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 ☑ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ⊠ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
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 the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes ⊠ No
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.	
- FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC  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 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC  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 H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
0perator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and bell	ief.
Name (Print): PATSY CLUGSTON Title: Staff Regulatory Technician	
Signature: Patsy (lust Date: 6-13-14	
J. J	
e-mail address: Patsy.L.Clugston@conocophillips.com Telephone: 326-9518	
18.  OCD Approval: Permit Application (inclu  CD Conditions (see attachment)	<u> </u>
OCD Representative Signature: Definit Application (inclu	
Title	
Title: mber:	
Title:	
19.   Closure Report (required within 60 days of closure completion): 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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.   Closure Completion Date:	complete this
19.   Closure Report (required within 60 days of closure completion): 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 is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.   Closure Completion Date:     20.   Closure Method:     Waste Excavation and Removal   On-Site Closure Method   Alternative Closure Method   Waste Removal (Closed-location)   Waste Removal   Closed-location   Closed-	pop systems only)

22. Opérator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure repobelief. I also certify that the closure complies with all applicable closure requirement	
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

#### San Juan 28-7 Unit 237P (NEW DRILL)

ConocoPhillips Companyrequests a variance for the items listed below. The requested variance per 19.15.17.15.A, provides equal or better protection of fresh water, public health & the environment.

- 1. Fencing as described in Section 5 under Alternate, COPC will construct all new fences around the temporary/permanent pit utilizing 48" steel mesh field-fence (chainlink) on the bottom with a single strand of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary/permanent pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes. If pit is located within 1000 feet of an occupied permanent residence, school, hospital, institution or church, COPC will construct all new fences utilizing 72" steel mesh field-fence (chainlink) on the bottom with two strands of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary/permanent pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes. The operator shall ensure that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 2. COPC will also be using a temporary Flat Pit Marker upon closure. 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.
- 3. COPC will notify Public Entity Surface Owners by email in lieu of certified mail. Private Entity Surface Owners will still be notified via certified mail.

## Clugston, Patricia L

From:

Clugston, Patricia L

Sent:

Friday, June 13, 2014 10:33 AM

To:

'Kelly, Mark'

Subject:

SAN JUAN 28-6 UNIT 120P - SURFACE OWNER NOTIFICATION

The subject well SJ 28-6 UNIT 120P will have a temporary pit that will be closed on-site. Please let me know if you have any questions or concerns.

Thank you

Patsy Clugston
Staff Regulatory Technician
ConocoPhillips Company
Patsy.L.Clugston@conocophillips.com
505-326-9518



# New Mexico Office of the State Engineer **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

**POD Number** 

Q64 Q16 Q4 Sec Tws Rng

Х

SJ 02314

3 17 27N 07W

266864 4050051\*

Driller License: 809

Driller Name:

CHIVERS, BONNIE

**Drill Start Date:** 

07/20/1991

**Drill Finish Date:** 

08/29/1991

Plug Date:

Log File Date:

03/20/1992

**PCW Rcv Date:** 

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 5 GPM

Casing Size:

Depth Well: 5.00

355 feet

Depth Water:

320 feet

Water Bearing Stratifications:

Top Bottom Description

Other/Unknown

**Casing Perforations:** 

Top Bottom

315

316

355

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties,

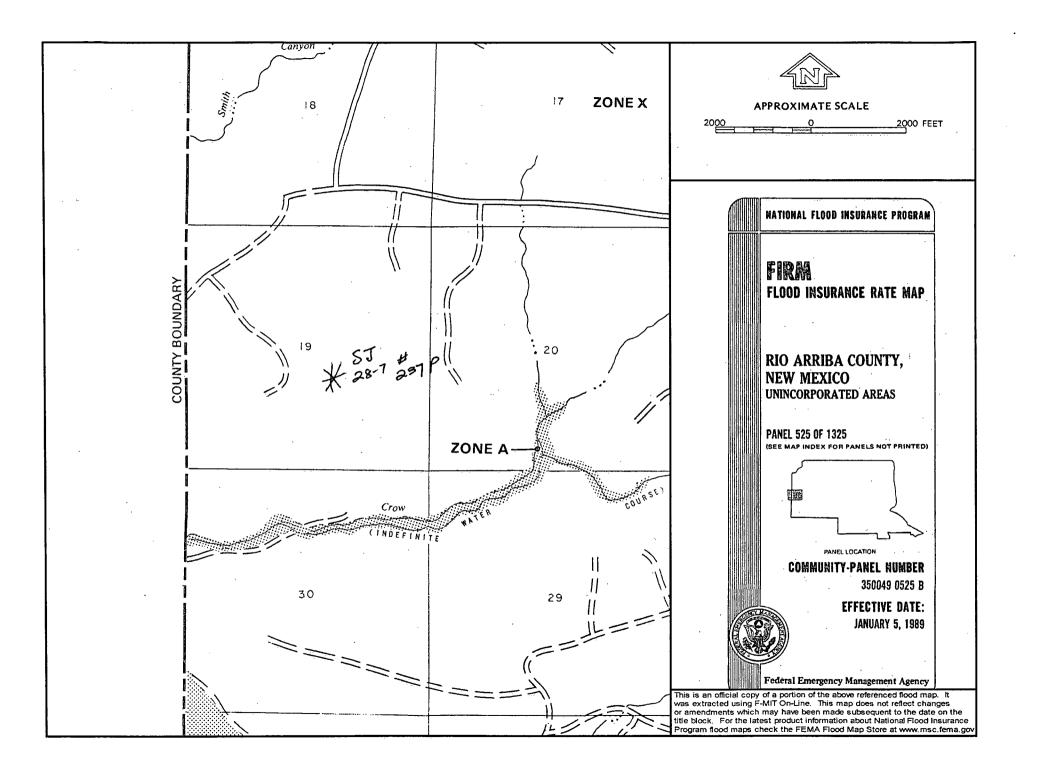
6/13/14 11:39 AM

POINT OF DIVERSION SUMMARY

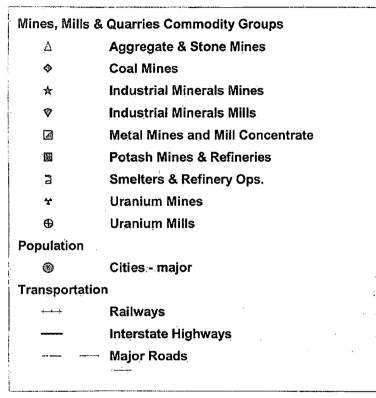
<sup>\*</sup>UTM location was derived from PLSS - see Help

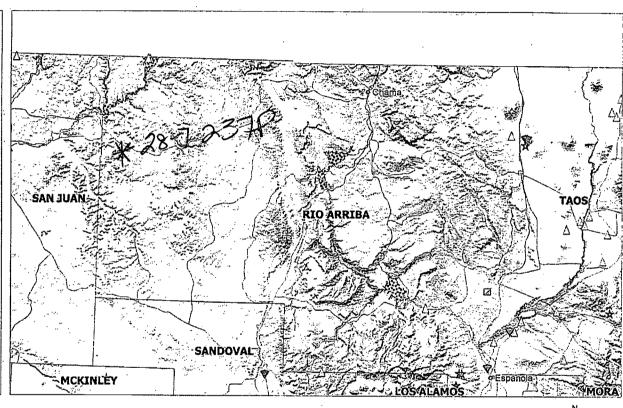
# SAN. JAN 28-7 JN '237P'OPO NAP Legend DSM All Wells I WATERS REFERENCE GROUND WATER @ 320' iWater POD WATERS COP Cathodic Wetlands 6621 Water Vulnerable Areas SAN JUAN 28-7 UNIT 237P **NEW WELL** ELEVATION - 6627' 66161 ConocoPhillips Text Date: Date: 6/13/2014

SAN. JAN 28-7 UN ' 237P AER A L N AP Legend 320^ DSM All Wells I WATERS REFERENCE GROUND WATER @ 320 iWater POD WATERS COP Cathodic Wetlands Water Vulnerable Areas SAN JUAN 28-7 UNIT 237P NEW WELL ELEVATION - 6627' ConocoPhillips Text



# Mines, Mills and Quarries









### **Siting Criteria and Compliance Demonstrations**

Well Name: San Juan 28-7 Unit 237P

1. Depth to groundwater (should not be less than 25 feet):

Depth to groundwater is >100'. The nearest recorded well with available water-depth information is the (iWaters SJ 02314) with groundwater @ (320') as indicated in the iWaters Data sheet attached.

2. <u>Distance to watercourse (should not be within 100 feet of a continuously flowing watercourse other significant watercourse or 200 feet from lakebed, sinkhole, or playa lake):</u>

Aerial map attached indicates that there are no lakebeds, sinkholes, playa lakes, or watercourses within 200 feet of the proposed pit.

3. <u>Distance to buildings (should not be within 300 feet of any permanent buildings):</u>

Aerial map attached indicates that the pit will not be within 300 feet of any of these locations.

4. <u>Distance to springs or wells (should not be within 300 feet of a private, domestic fresh</u> water well or spring used by less than five (5) households or within 300 feet of any other fresh water well or spring):

Aerial map attached indicates that the pit will not be within 300 feet of any recorded well or spring.

5. <u>Location within a 100 year floodplain (should not be located within a 100 year floodplain)</u>

FEMA map attached indicates that the pit will not be within a 100 year floodplain.

6. Distance to wetlands (should not be within 300 feet):

During initial onsite the well pad was evaluated for Wetland proximity. No wetland was identified within 300 feet of the proposed well pad. See attached Aerial map.

7. Location above subsurface mine (should not overlie a subsurface mine):

The pit will not overlie a mine. The 2010 Mines, Mills, and Quarries map attached indicates that there are no subsurface mines in the area.

8. Presence within unstable area (should not be within an unstable area):

The attached topographic map indicates that the location will not be within an unstable area.

## Hydrogeological report for San Juan 28-7 Unit 237P

#### 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.

DISTRICT 1625 H. French Dr., Hobbs, N.M. 68340 Phones (675) 593-5161 Fax: (675) 893-9720 DISTRICT II 811 B. First St., Artesia, HM. 98210 Phones (570) 748–1883 Fax: (576) 748–6720 DISTRICT III 1000 Bio Brazon Ed., Arteo, H.M. 67410 Phone: (505) 534-6178 Fac: (505) 534-6170 DISTRICT IV 1920 S. St. Francis Dr., Santa Fe, KM 57505 Phones (505) 476-3480 Fee: (505) 476-3488

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised August 1, 2011

Submit one copy to appropriate District Office

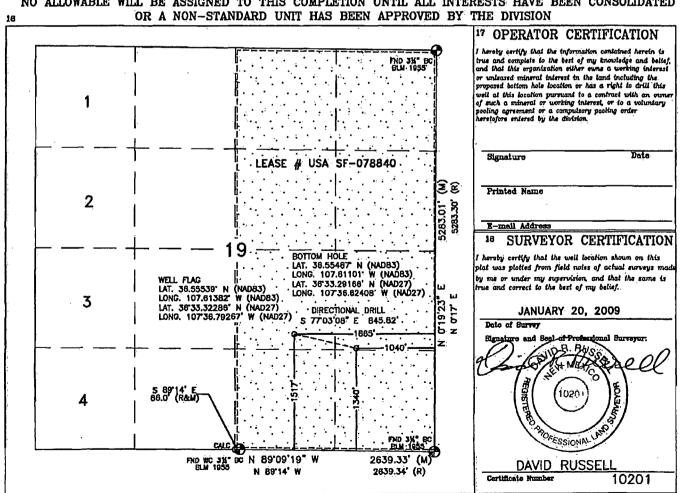
#### OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

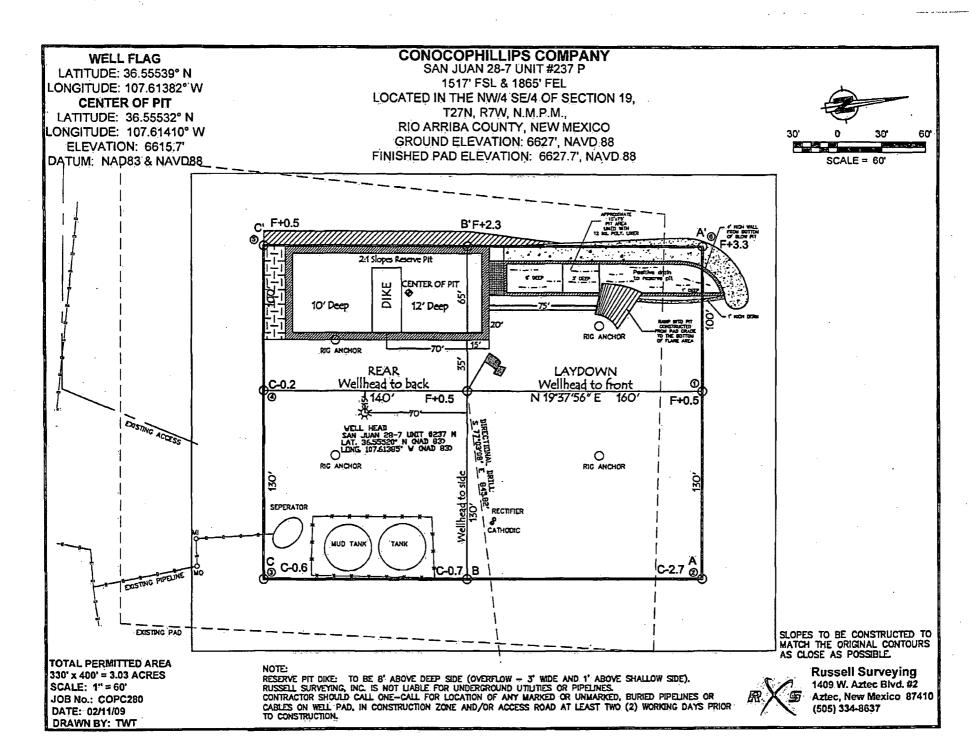
☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

' API	Number			Pool Code	:	<sup>0</sup> Pool Name					
			BLANCO MESAVERDE / BASI					BASIN	DAKOT	A	
<sup>4</sup> Property Co	ode		Property Name						Wall Number		
			SAN JUAN 28-7 UNIT						237 F	•	
OGRID No	,		*Operator Name Elevation			Operator Name					
				CONOCOPHILLIPS COMPANY						6627	?
	•				10 Surface	Location			-		
UL or lot no.	Section	Township	Renge	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County	
J	19	27N	7W		1517'	SOUTH	1865'	EA	ŚŤ	RIO	ARRIBA
		_	11 Botto	om Hole	Location I	f Different Fro	om Surface.				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wo	rt line	County	7
1 .	19	27N	7W		1340'	SOUTH	1040'	ΕÀ	ST	RIO	ARRIBA
Dedicated Acre	5	·	D Joint or	nfill	<sup>14</sup> Consolidation C	ode	u Order No.	·			··
320.00 A	RES -	E/2			:		ļ.		•		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED





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

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

#### General Plan:

- BR will design and construct a properly sized and approved temporary pit which will contain liquids and solids and should prevent contamination of fresh water and protect public health and environment.
- 2. Prior to constructing the pit, (except a pit constructed in an emergency), topsoil will be stockpiled for use as the final cover at the time of closure.
- 3. BR will sign the well location in compliance with 19.15.17.11.C NMAC.
- 4. BR will construct all new fences around the temporary/permanent pit utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary/permanent pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes.
  - If pit is located within 1000 feet of an occupied permanent residence, school, hospital, institution or church, BR will construct all new fences utilizing 72" steel mesh field-fence (hogwire) on the bottom with two strands of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary/permanent pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes. The operator shall ensure that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 5. BR shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure.
- 6. BR shall construct the pit so that the slopes are no steeper than two horizontal feet to one vertical foot (2H:1V).
- 7. Pit walls will be walked down by a crawler type tractor following construction.
- 8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- 9. Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.
- 10. All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. BR will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. BR will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. BR will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 13. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into lined drill pit.
- 16. The lower half of the blow pit (nearest lined pit) will be lined with a 20-mil, string reinforced, LLDPE liner. The upper half of the blow pit will remain unlined as allowed in Rule 19.15.17.11 F.11.
- 17. BR will not allow freestanding liquids to remain on the unlined portion of a temporary blow pit.

## Burlington Resources Oil Gas Company LPSan Juan Basin Closure Plan

In accordance with Rule 19.15.17.13 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 NMOCD within 60 days of closure of pit. 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 for Fee Wells

#### **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 in-place burial, assuming that all the criteria listed in 19.15.17.13.D are met.
- 3. The surface owner shall be notified of BR's closing of the temporary pit within 72 hours, but not more than one week, prior to closure 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 within 72 hour, but not more than and one week, via email and 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. 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 and must pass the paint filter liquids test (EPA SW-846, Method 9095) or other test methods approved by the division.
- 7. BR shall collect, at a minimum, a five point composite sample will be taken of the temporary pit to demonstrate that, after the waste is solidified or stabilized with soil or other non-waste material at a ratio of no more than 3:1 soil or other non-waste material to waste, the concentration of any contaminant in the stabilized waste is not higher than the parameters listed in table II of 19.15.17.13 NMAC. In the event that the criteria are not met, all contents will be handled per 19.15.17.13.D.7 Dig & Haul.

- 8. BR will fold the outer edges of the liner to overlap the waste material prior to the installation of a geomembrane cover. Install a geomembrane cover over the waste material in the lined temporary pit and in a manner that prevents the collection of infiltration water in the lined temporary pit and on the geomembrane cover after the coil cover is in place; the geomembrane cover shall consist of a 20-mil string reinforced LLDPE liner or equivalent cover that the appropriate division district office approves; the geomembrane cover shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions; cover compatibility shall comply with EPA SW -845 Method 9090A.
- 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 non-waste containing, uncontaminated, earthen material with chloride concentrations less that 600 mg/kg as analyzed by EP:A Method 300.0. The soil cover shall include either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. [19.15.17.13 H.3]
- 10. During the stabilization process if the liner is ripped by equipment the Aztec NMOCD 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 # NM01001.
- 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. For those portions of the former temporary pit area no longer needed for production activities, BR will seed the disturbed areas the first favorable growing season after the temporary pit is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other Division-approved methods. BR will notify the division when reclamation and revegetation is complete.

Reclamation of the temporary pit area will be considered complete when:

- Vegetative cover reflects a life form ratio of +/- 50% of pre-disturbance levels.
- Total percent plant cover of at least 70% of pre-disturbance levels (Excluding noxious weeds).

OR

- Pursuant to 19.15.17.13.H.D, BR will comply with obligations imposed by other applicable federal or tribal agencies in which their re-vegetation and reclamation requirements provide equal or better protection of water, human health and the environment.
- 14. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit.

The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

# Burlington Resources Oil Gas Company LP San Juan Basin

#### Maintenance and Operating Plan

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

#### General Plan:

- BR will operate and maintain a temporary pit to contain liquids and solids and maintain the integrity of the liner and liner system to prevent contamination of fresh water and protect public health and environment.
- 2. BR will conserve drilling fluids by transferring liquids to pits ahead of the rigs whenever possible. All other drilling fluids will be disposed at Basin Disposal Inc., permit # NM-01-005.
- 3. BR will not discharge or store any hazardous waste in any temporary pit.
- 4. If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, then BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner.
- 5. If a leak develops below the liquid's level, BR will remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner, notify the appropriate division office pursuant to 19.15.29 NMAC.
  - A Major Release shall be reported by giving both immediate verbal notice and timely written notice by filing form C-141 within 15 days pursuant to Subsection C, Paragraphs (1) and (2) of 19.15.29.7.A NMAC. A Major Release is:
  - (a) an unauthorized release of a volume, excluding natural gases, in excess of 25 barrels;
  - (b) an unauthorized release of any volume which:
    - (i) results in a fire;
    - (ii) will reach a water course;
    - (iii) may with reasonable probability endanger public health; or
    - (iv) results in substantial damage to property or the environment;
  - (c) an unauthorized release of natural gases in excess of 500 mcf; or
  - (d) a release of any volume which may with reasonable probability be detrimental to water or cause an exceedance of the standards in Section 19, Subsections A, B, C of 19.15.30.9 NMAC.
  - A Minor Release shall be reported by giving timely written notice by the filing of form C-141 within 15 days pursuant to 19.15.29.7 NMAC. A Minor Release is an unauthorized release of a volume, greater than 5 barrels but not more than 25 barrels; or greater than 50 mcf but less than 500 mcf of natural gases.
- 6. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 7. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 8. BR shall immediately remove any visible layer of oil from the surface of the temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from the pit's surface. An oil absorbent boom will be stored on-site until closure of pit.
- 9. Only fluids generated during the drilling or workover process may be discharged into a temporary pit.
- 10. BR will maintain the temporary pit free of miscellaneous solid waste or debris.

- 11. While a rig is on location, BR will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged in the IADC reports. BR will file this log with the Aztec Division office upon closure of the pit.
- 12. After drilling operations, BR will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at BR's office electronically and will be filed with the Aztec Division office upon closure of the pit.
- 13. BR shall maintain at least two feet of freeboard for a temporary pit.
- 14. BR shall remove all free liquids from a temporary pit within 60 days from the date the operator releases the drilling rig.
- 15. BR shall remove all free liquids from a cavitation pit within 48 hours after completing cavitation. BR may request additional time to remove liquids from the Aztec Division office if it is not feasible to remove liquids within 48 hours.

ial Trenches a	nd Waste Left in Place in Temporary Pits	
Constituent	Method*	Limit**
5		
Chloride	EPA Method 300.0	20,000 mg/kg
TPH	EPA SW-846 Method 418.1	100 mg/kg
ВТЕХ	EPA SW-846 Method 8021B or 8260B	50 mg/kg
Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
Chloride	EPA Method 300.0	40,000 mg/kg
	Constituent Chloride TPH BTEX Benzene	Chloride EPA Method 300.0  TPH EPA SW-846 Method 418.1  BTEX EPA SW-846 Method 8021B or 8260B  Benzene EPA SW-846 Method 8021B or 8015M

	ТРН	EPA SW-846 Method 418.1	2,500 mg/kg
51-100 feet	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	ВТЕХ	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
	Chloride	EPA Method 300.0	80,000 mg/kg
> 100 feet	ТРН	EPA SW-846 Method 418.1	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

<sup>\*</sup>Or other test methods approved by the division

<sup>\*\*</sup>Numerical limits or natural background level, whichever is greater [19.15.17.13 NMAC - Rp, 19.15.17.13 NMAC, 6/28/13]