Print 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       [] Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method         Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank, or proposed alternative request         Print colspan="2">ORRIDE: Submitted to an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative request         Plant colspan="2">Plant colspan="2">Plant colspan="2">Plant colspan="2">Plant colspan="2">Plant colspan="2">Plant colspan="2">Plant colspan="2"         Plant colspan="2"         Plant colspan="2"         Plant colspan="2"         Plant colspan="2"         OCRIDE: 1         Plant colspan="2"         Plant colspan="2"         Colspan="2"         Plant colspan="2"         Plant colspan="2"         Plant colspan="2"         Plant colspan="2"         Plant colspan="2"	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 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-144 July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
Type of action:	Duonos		
Closure 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         Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank, or proposed alternative method         Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tanks or alternative request         Pene to edviced angreened of this regulation contexts even in policiton or starter submit one are not encomposed alternative method         Operator:       Barlington Resources OII & Gas Company, LP       OGRID#:       14538         Address:       PO Box 4289, Farmington, NN 87499         Facility or well name:       OSWELL FEDERAL I         API Number:       3004508805       OCD Permit Number:         U/L or Qir/Qir:       #       Section:       4         Tornship:       29N       Range:       11W       County:       San Juan         Center of Proposed Design:       Laitude:       36/37557N       Longitude:      107.99942*W       NAD:       [3]1927]1983         Surface Owner:       Poderal       State       Private       Thebal Trust or Indian Allotment         2       If:       Susteeve of for Go 19.15.17.11 NMAC       Tornsping:       DW			
Modification to an existing permit:             Closure plus only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank or alternative method                 Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request                 Plane be absted that reports of this request des not tileve the operator of tability load apentions reading system, below-grade tank or alternative request                Plane be absted that reports of this request des not tileve the operator of tability load apentions reading system, below-grade tank or alternative request                Plant introduction of the operator of tability load apentions reading system, below-grade tank, or alternative request                Poperator:              Burlington Resources Oil & Cas Company, LP             OGRID#: 14538                 Address:              PO Box 4289, Farmington, NM 87499                 Facility or well name:              OSUL of CP(20;             F.g. Section: 4             Township: 20N             Range: 11W             County: San Juan                 Center of Proposed Design:             Latified             Variation             Private Tribula Trust or Indian Alloanent                  2             Bit:             Subsection F or G of 19.15.17.11 NMAC             Trapon Origing Reainforced             Liner Seam:             Weided             Factory             Other                   Volume:                 bbi Dimensions L	Type of action:		
Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method Instructions: Please submit ane application (Prom C-144) per individual pit, ic. closed-loop system, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of tablity should operations result in pollution of order over, ground vister or the environment. Net does approval telies the operator of its insponsibility scoredy with any obse applicable percentered automy's nets, regulations or ordinances.  Operator: <u>Burlington Resources OII &amp; Gas Company, LP</u> OGRID#: <u>14538</u> Address: <u>PO Box 4289, Farmington, NM 87499 Facility or well name: OSWELL FEDERAL 1 API Number: <u>3004508805</u> OCD Permit Number: U/L or Qur(Qt: <u>7</u> Section: <u>4</u> Township: <u>29N</u> Range: <u>11W</u> County: <u>San Juan</u> Center of Proposed Design: Latitude: <u>36,157555N</u> Longitude: <u>-107,99942?W</u> NAD: []1927]1983 Surface Owner: <u>Federal</u> [X] State <u>Private</u> Tribal Trust or Indian Allotment  2 2 Eff. Subsection F or G of 19,15,17,11 NMAC Temporary: <u>bold</u> Mined Liner type: Thickness <u>mil</u> <u>LLDPE</u> HDPE <u>PVC</u> Other</u>			tank, or proposed alternative method
below-grade tank, or proposed alternative method  Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request  Preate be advised tankproposed of this requests or failute request or fablic system, below-grade tank, or alternative request  Preate submit and system of this requests on relieve the previous of fablic system, below-grade tank, or alternative request  Preate submit and system of this requests on relieve the previous of fablic system, below-grade tank, or previous or ordinances.  Operator: Burlington Resources OII & Gas Company, LP OGRID#: 14538  Address: PO Box 4289, Farmington, NM 87499  Facility or well name: OSWELL FEDERAL 1  API Number: 3004508805 OCD Permit Number: UL or Qir(7)t: F Section: 4 Township: 29N Range: 11W County: San Juan Center of Proposed Design: Latitude: 36.57555N Longitude:			
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request         Place teaking that sequent does not relieve the operator of liability shuld operators realt in pollution of utifice water, grand water or the environment. Nor does approval relieve the operator of liability shuld operators realt in pollution of utifice water, grand water or the environment. Nor does approval relieve the operator of liability is comply with any other applicable government authority in his, regulations or ordinances.         Operator:       Burlington Resources Oil & Gas Company, LP       OGRID#: 14538         Address:       PO Box 4289, Farmington, NM 87499         Facility or well name:       OSWELL FEDERAL 1         API Number:       3004508805       OCD Permit Number:         U/L or Qir/Qir,       F       Section:       4         Center of Proposed Design:       Linda:       36,7555***       Longitude:       -07.99942**         Surface Owner:       F Cederal       X       State       Private       Tribal Trust or Indian Allotment <sup>2</sup> PfLir       Subsection F or G of 1915.17.11 NMAC       Trapper portiling (Applies to activities which require prior approval of a permit or notice of intem)       Playing Reinforced         Liner Stams:       Weldel       Factory       Other			tted or non-permitted pit, closed-loop system,
Plase be advised that approval relieve the operator of liability to comply with any other applicable provemmental authority's rules, regulations or ordinances.         Operator:       Burlington Resources OH & Gas Company, LP       OGRID#: 14538         Address:       PO Box 4289, Farmington, NM 87499         Facility or well name:       OSWELL FEDERAL 1         API Number:       3004508805       OCD Permit Number:         U/L or Qtr/Qtr:       F       Section:       4         Township:       29N       Range:       11W       County:       San Juan         Center of Proposed Design:       Latitude:       36,75755YN       Longitude:      107,99942PW       NAD:       XI 1927]       1983         Surface Owner:       F Gederal       X State       Private       Tribal Trust or Indian Allotment       Image:	Instructions: Please submit one a		pp system, below-grade tank or alternative request
I       Operator:       Burlington Resources Oil & Gas Company, LP       OGRID#:       14538         Address:       PO Box 4289, Farmington, NM 87499       Facility or well name:       OSWELL FEDERAL 1         API Number:       3004508805       OCD Permit Number:       UL or Qtr/Qtr:       r       Section:       4       Township:       29N       Range:       11W       County:       San Juan         Center of Proposed Design:       Latitude:       36.75755*N       Longitude:      107.99942*W       NAD:       [X] 1927       1983         Surface Owner:       F Federal       K       State       Private       Tribal Trust or Indian Allotment         2       Pft:       Subsection F or G of 19.15.17.11 NMAC       Temporary:       Denling       Workover         Permanent:       Energency       Cavitation       P&A			
Address:       PO Box 4289, Farmington, NM 87499         Facility or well name:       OSWELL FEDERAL 1         API Number:       3004508805       OCD Permit Number:         U/L or Qtr/Qtr:       F       Section:       4       Township:       29N       Range:       11W       County:       San Juan         Center of Proposed Design:       Latitude:       36.75759N       Longitude:       .107.099429W       NAD:       X 1927[] 1983         Surface Owner:       Federal       X state       Private       Tribal Trust or Indian Allotment         2       Pil:       Subsection F or G of 19.15.17.11 NMAC         Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation       P&A         1 Lined       Unlined       Liner type:       Thickness       mil       LLDPE       HDPE       PVC       Other         2 String-Reinforced       Liner type:       Thickness       mil       LLDPE       HDPE       PVC       Other         3 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)       D Drying Pad       Above Ground Steel Tanks       Haul-of	environment. Nor does approval rel	leve the operator of its responsibility to comply with any other applicable	governmental authority's rules, regulations or ordinances.
Address:       PO Box 4289, Farmington, NM 87499         Facility or well name:       OSWELL FEDERAL 1         API Number:       3004508805       OCD Permit Number:         U/L or Qtr/Qtr:       F       Section:       4       Township:       29N       Range:       11W       County:       San Juan         Center of Proposed Design:       Latitude:       36.75759N       Longitude:       .107.099429W       NAD:       XI 1927[] 1983         Surface Owner:       Federal       X State       Private       Tribal Trust or Indian Alletment         2       Pfit:       Subsection F or G of 19.15.17.11 NMAC       Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation       P&A	1 Operator: Burlington Resources O	il & Gas Company, LP	OGRID#: 14538
Facility or well name:       OSWELL FEDERAL 1         API Number:       3004508805       OCD Permit Number:         U/L or Qtr/Qtr:       F       Section:       4       Township:       29N       Range:       11W       County:       San Juan         Center of Proposed Design:       Latitude:       36.75759N       Longitude:       -107.99942PW       NAD:       Xi 1927       1983         Surface Owner:       Federal       Xi state       Private       Tribal Trust or Indian Allotment         2       Pfi:       Subsection F or G of 19.15.17.11 NMAC         Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation       P&A			
AP1 Number:       3004508805       OCD Permit Number:         U/L or Qtr/Qtr:       F       Section:       4       Township:       29N       Range:       11W       County:       San Juan         Center of Proposed Design:       Latitude:       36,75755°N       Longitude:      107,99942°W       NAD:       X 1927       1983         Surface Owner:       Federal       X       State       Private       Tribal Trust or Indian Allotment         2       Pfi:       Subsection F or G of 19.15.17.11 NMAC         Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation       P&A         Lined       Unlined       Liner type:       Thickness       mil       LLDPE       HDPE       PVC       Other         String-Reinforced       Liner type:       Thickness       mil       LLDPE       HDPE       PVC       Other	1		
U/L or Qtr/Qtr:       F       Section:       4       Township:       29N       Range:       11W       County:       San Juan         Center of Proposed Design:       Latitude:       36.75755°N       Longitude:       -107.99942°W       NAD:       NAD:       [X] 1927       1983         Surface Owner:       Federal       X       State       Private       Tribal Trust or Indian Allotment         2       Pfil:       Subsection F or G of 19.15.17.11 NMAC         Temporary:       Doilling       Workover         Permanent       Emergency       Cavitation       P&A         Lined       Unlined       Liner type:       Thickness       mil       LLDPE       HDPE       PVC       Other         String-Reinforced       Liner seams:       Welded       Factory       Other			C
Center of Proposed Design:       Latitude:       36.75755*N       Longitude:       -107.99942*W       NAD:       X 1927       1983         Surface Owner:       Federal       X       State       Private       Tribal Trust or Indian Allotment         2       PH:       Subsection F or G of 19.15.17.11 NMAC         Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation       P&A         1       Lined       Unlined       Liner type:       Thickness       mil       LLDPE       HDPE       PVC       Other			
Surface Owner:       Federal       X       State       Private       Tribal Trust or Indian Allotment         2       Pfit:       Subsection F or G of 19.15.17.11 NMAC         Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation       P&A         1       Lined       Unlined       Liner type:       Thickness       mil       LLDPE       HDPE       PVC       Other         3       String-Reinforced       Einer seams:       Welded       Factory       Other			
2       Pft:       Subsection F or G of 19.15.17.11 NMAC         7       Permanent       Emergency       Cavitation         9       Permanent       Emergency       Cavitation         9       Permanent       Emergency       Cavitation         9       String-Reinforced       Inner type:       Thickness       mil       LLDPE       HDPE       PVC       Other         3       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)         0       Drying Pad       Above Ground Steel Tanks       Haul-off Bins       Other         1       Lined       Unlined       Liner type:       Thickness       mtil       LLDPE       PVD       Other         4       Below-grade tank:       Subsection 1 of 19.15.17.11 NMAC       Volume:       120       bb       Type of fluid:       Produced Water         Tank Construction material:       Metal       Secondary containment with leak detection       X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off         Visible sidewalls and liner       Visible sidewalls only       Other       Unspecified       Secondary containment with leak detection </td <td></td> <td></td> <td></td>			
Temporary:       Drilling       Workover         Permanent       Emergency       Cavitation       P&A         Lined       Unlined       Liner type:       Thickness       mil       LLDPE       HDPE       PVC       Other         String-Reinforced       Liner type:       Thickness       mil       LLDPE       HDPE       PVC       Other         3       Closed-loop System:       Subsection H of 19.15.17.11 NMAC         Type of Operation:       P&A       Drilling a new well       Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)         Drying Pad       Above Ground Steel Tanks       Haul-off Bins       Other         Lined       Unlined       Liner type:       Thickness       mil       LLDPE       HDPE       PVD       Other         Liner Seams:       Welded       Factory       Other			
Closed-loop System:       Subsection H of 19.15.17.11 NMAC         Type of Operation:       P&A       Drilling a new well       Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)         Drying Pad       Above Ground Steel Tanks       Haul-off Bins       Other         Lined       Unlined       Liner type:       Thickness       mil       LLDPE       HDPE       PVD       Other         Liner Seams:       Welded       Factory       Other	Temporary: Drilling Wor Permanent Emergency ( Lined Unlined L String-Reinforced	rkover Cavitation P&A iner type: Thickness mil LLDPE	
Image: Second steel Tanks       Haul-off Bins       Other         Image: Lined       Unlined       Liner type:       Thickness       mil       LLDPE       HDPE       PVD       Other         Liner Seams:       Welded       Factory       Other	Closed-loop System: Subsec		activities which require prior approval of a permit or
Volume:       120       bbl       Type of fluid:       Produced Water         Tank Construction material:       Metal         Secondary containment with leak detection       X 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       X Other       Unspecified         5       Alternative Method:       Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	Drying Pad Above Grou	notice of intent) and Steel Tanks Haul-off Bins Other er type: Thickness mil LLDPE H	
Alternative Method:         Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	Volume:     120       Tank Construction material:       Secondary containment with leak d       Visible sidewalls and liner	bbl Type of fluid: Produced Water Metal etection X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other	
	Alternative Method:	quired. Exceptions must be submitted to the Santa Fe Environ	nmental Bureau office for consideration of approval.
Form C-144 Oil Conservation Division Page 1 of 5	Form C-144	Oil Conservation Division	Page 1 of 5

b 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, in	stitution or chu	urch)
Four foot height, four strands of barbed wire evenly spaced between one and four feet		,
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.		
7		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		
Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)		
8 <u>Signs:</u> Subsection C of 19.15.17.11 NMAC		
12" X 24", 2" lettering, providing Operator's name, site focation, and emergency telephone numbers		
X Signed in compliance with 19.15.3.103 NMAC		
9		
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19,15,17 NMAC for guidance.		
Please check a box if one or more of the following is requested, if not leave blank:		
Administrative approval(s): Pognosts must be submitted to the appropriate division district of the Posts F. Francesson and Posts of the Posts F.		
Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con	sideration of a	pproval.
	,	
10 <u>Siting Criteria (regarding permitting)</u> : 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	L Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa	Yes	XNo
lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	-	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)		
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No
(Applied to permanent pits)  Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA	
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering	Пүс	XNo
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.		
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes	XNo
adopted pursuant to NMSA 1978, Section 3-27-3, as amended Written confirmation or verification from the municipality; Written approval obtained from the municipality		
Within 500 feet of a wetland.	∏Yes	XNo
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site		
Within the area overlying a subsurface mine.	Yes	XNo
Within an unstable area.	ΠYes	XNo
Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological		
Society; Topographic map Within a 100-year floodplain		
FEMA map	∐ Yes	XNo

Form C-144

**Oil Conservation Division** 

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2	
Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Atta	uchment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Fach of the following items must be attached to the application. Please indicate, i	
X         Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Pa           Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements	
X         Siting Criteria Compliance Demonstrations - based upon the appropriate required	
X         Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	nents of 19, 13, 17, 10 MWAC
X         Operating and Maintenance Plan - based upon the appropriate requirements of 19	1 15 17 12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon	
19.15.17.9 NMAC and 19.15.17.13 NMAC	are appropriate requirements of Subsection C in
Previously Approved Design (attach copy of design) API	or Permit
12         Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.         Instructions: Each of the following items must be attached to the application. Please indicate, b         Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon         Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Operating and Maintenance Plan - based upon the appropriate requirements of 19.	y a check mark in the box, that the documents are attached, irrements of Paragraph (3) of Subsection B of 19,15,17,9 n the appropriate requirements of 19,15,17,10 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon t NMAC and 19.15.17.13 NMAC	the appropriate requirements of Subsection C of 19.15.17.9
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,       Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Climatological Factors Assessment       Certified Engineering Design Plans - based upon the appropriate requirements of         Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11       Leak Detection Design - based upon the appropriate requirements of 19.15.17.11         Quality Control/Quality Assurance Construction and Installation Plan       Operating and Maintenance Plan - based upon the appropriate requirements of 19         Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19       Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19         Difield Waste Stream Characterization       Monitoring and Inspection Plan	ion B of 19,15,17,9 NMAC nents of 19,15,17,10 NMAC 19,15,17,11 NMAC rements of 19,15,17,11 NMAC NMAC requirements of 19,15,17,11 NMAC .15,17,12 NMAC
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.	17.9 NMAC and 19.15.17.13 NMAC
14 <u>Proposed Closure:</u> 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the pro	
	nent Pit XBelow-grade Tank Closed-loop System
Proposed Closure Method: X Waste Excavation and Removal	
Waste Removal (Closed-loop systems only)	
On-site Closure Method (only for temporary pits and close	d-loop systems)
In-place Burial On-site Trench	
Alternative Closure Method (Exceptions must be submitted	d to the Santa Fe Environmental Bureau for consideration)
15         Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instruction         Please indicate, by a check mark in the box, that the documents are attached.         X       Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13         X       Confirmation Sampling Plan (if applicable) - based upon the appropriate requirement         X       Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cult         X       Soil Backfill and Cover Design Specifications - based upon the appropriate requirements	3 NMAC ents of Subsection F of 19.15.17.13 NMAC uttings) ements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 1	U IS LZ EX NIMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G	

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Oil Conservation Division

16 <u>Waste Removal Closure For Closed-foop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> (19.15.17.13.D NMAC) Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two are required,	facilities
Disposal Facility Name: Disposal Facility Permit #:	
Disposal Facility Name: Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future Yes (If yes, please provide the information No	
Required for impacted areas which will not be used for future service and operations; Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.45.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	AC
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided be certain sing criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	low. Requests regarding changes to e Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes No
	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application, - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	Yes No
<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland</li> </ul>	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine. - Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area,	
- Engineering measures incorporated into the design: NM Bureau of Geology & Mineral Resources: USGS; NM Geological Society; Topographic map	
Within a 100-year floodplain. - FEMA map	Yes No
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closur by a check mark in the box, that the documents are attached.	re plan. Please indicate,
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 F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 1	9.15.17.11 NMAC
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	
Waste Material Sampling Plan - 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 or in case on-site closure standards cannot be achieved)

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 1 of 19.15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Oil Conservation Division

к. <u>Е</u>	
19 Operator Application Certification:	
Thereby certify that the information submitted with this application is true, accur	rate and complete to the best of my knowledge and belief.
Name (Print): Crystal Tafoya	Title: Regulatory Technician
Signature: [NUStal Johow	Date: 12/22/2008
e-mail address: crystal tarva@conocophilip.com	Telephone: 505-326-9837
	Closure Plan (only)
OCD Approval: Permit Application (including closure plan)	
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
Closure Report (required within 60 days of closure completion): Sub- Instructions: Operators are required to obtain an approved closure plan prior t	o 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	on 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 c	
Č	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 System	is That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
Instructions: Please identify the facility or facilities for where the inquids, drit were utilized.	lling fluids and drill cuttings were disposed. Use attachment if more than two facilities
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 opeartions?
Yes (If yes, please demonstrate compliane to the items below)	No
Required for impacted areas which will not be used for future service and op	perations:
Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
24 Closure Report Attachment Checklist: Instructions: Each of the foll	lowing 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:	
	re report is ture, accurate and complete to the best of my knowledge and belief. I also certify that pecified in the approved closure plan.
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:
Form C-144 Oil Conservation	Division Page 5 of 5

New Mexico Office of the State Engineer

Township: 29N Rang	e: 11W Sections:	
NAD27 X: Y:	Zone: Sea	rch Radius:
County: Basin: Basin:	Number:	Suffix:
Owner Name: (First)	(Last) C Non-	Domestic O Domestic O A
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report

WATER COLUMN REPORT 08/20/2008

	(quarter:											
	(quarter:					o small	.est)		Depth	Depth	Water	(in feet)
POD Number	TWB	Rng			<b>P</b> 1	Zone	х	Y		Water	Column	
SJ 00867	29N	11W (		4					77	55	22	
SJ 01302	29N	11W (		4 1					250	210	40	
SJ 01891	29N	11W (		4 1					157			
SJ 01851	29N	11W 3		44					125	48	77	
SJ 02466 S	29N	11W 3		4 3					65			
SJ 02466	29N	11W 3		43					66			
SJ 02991	29N	11W 3		34					60			
SJ 03136	29N	11W		34	4				20			
SJ 00987	29N	11W :	13	4					415	300	115	
SJ 01426	29N	11W	14	14	-				155	10	145	
SJ 00007	29N	11W (	14	2 2	2 3				752			
SJ 03550	29N	11W 3	14	3 2	2 1				10			
SJ 01774	29N	11W	14	3 4	12				82	6	76	
SJ 03360	29N	11W (	14	3 4	1 2				40			
SJ 03175	29N	11W (	14	4 2	2 1				60	24	36	
SJ 03164	29N	11W (	14	4 2	2 1				75	56	19	
SJ 03733 POD1	29N	11W	15	4 2	2 1				64	20	44	
SJ 02378	29N	11W	15	43	3 2				75	12	63	
SJ 03579	29N	11W	15	4 4	1 1				83	30	53	
SJ 02141	29N	11W	16	4 3	3 4				110	40	70	
SJ 02926	29N	11W	17	2 4	13				375	80	295	
SJ 03399	29N	11W	17	4 2	1				100			
SJ 00487	29N	11W :	17	44	Ł				60	6	54	
SJ 02868	29N	11W	17	44	14				50			
SJ 01641	29N	11W	19	2 2	2 3				120	55	65	
SJ 02026	29N	11W :	19	3 1	L		440000	2077700	27	6	21	
SJ 02970	29N	11W :	19	4 3	3 2				100	18	82	
SJ 01250	29N	11W		44	Ł				60	20	40	
SJ 02869	29N	11W		2 2	2 1				50			
SJ 00583	29N	11W (		3 3					150	30	120	
SJ 01355	29N	-11W		4 4					36	3	33	
SJ 00452	29N	11W :		-					42	10	32	
											~ <u>-</u>	

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24							
SJ 01969	29N	11W	21	2			
SJ 00701 CLW312190	29N	11W	21	2	2		
SJ 00701	29N	11W		2	2	1	
SJ 03350	29N	11W		2	2	3	
SJ 01090	29N	11W		2	4	2	
SJ 02863	29N	11W		2	4	1	
SJ 03659	29N	11W	21	3	2	2	
		11W	21	4	2	2	
SJ 01888	29N 29N	11W	=	4	4	2	
SJ 02200			22	4	2		
<u>SJ 01557</u>	29N	11W	22	1	2		
SJ 00796	29N	11W	22	1	2		
SJ 00704	29N	11W	22	1	2		
SJ 01703	29N	11W	22	1	2	-	
SJ 03747 POD1	29N	11W		1	2	3	
SJ 02813	29N	11W		1	2	3	
SJ 01214	29N	11W		1	3	4	
SJ 00484	29N	11W	22	1	3	1	
SJ 00320	29N	11W		1	3	1	
SJ 03532	29N		22	1	3	3	
SJ 00151	29N	11W		1	3	4	
SJ 02721	29N	11W	22	1	4	_	
SJ 03503	29N		22	2	3	3	
<u>SJ 02578</u>	29N		22	2	3	3	
SJ 03093	29N	11W	22	2	3	4	
SJ 03189	29N	11W	22	3	2	1	
SJ 03188	29N	11W	22	3	2	2	
SJ 02020	29N		22	3	3		
SJ 02138	29N	11W	22	4	2	-	
SJ 02529	29N	11W	22	4	2	3	
SJ 03479	29N	11W	22	4	2	3	
SJ 03049	29N	11W	22	4	2	4	
SJ 00696	29N	11W	22	4	3	_	
SJ 01974	29N	11W	22	4	3	3	
<u>SJ 03567</u>	29N	11W		1	2	3	
SJ 03557	29N	11W	23	1	3	1	
<u>SJ 03558</u>	29N	11W		1	3	1	
<u>SJ 03559</u>	29N	11W		1	3	4	
SJ 00812	29N	11W		1	4	2	
SJ 03546	29N	11W	23	1	4	2	
SJ 03591	29N	11W		1	4	4	
SJ 01870	29N	11W		2	4	2	
SJ 03130	29N	11W		2	1	3	
SJ 03201	29N	11W		2		3	
SJ 03353	29N	11W		2	1	3	
SJ 01610	29N	11W		2	2		
SJ 01573	29N	11W		2	3	1	
SJ 03073	29N	11W		2	3	1	
SJ 03286	29N	11W		3	3	1	
<u>SJ 02799</u>	29N	11W		4	1	1	
SJ 03548	29N	11W		4	1	1	
SJ 01962	29N	11W		1	2	2	
SJ 03343	29N	11W		1	4	1	
SJ 00804	29N	11W		1	4		
<u>SJ 01808 0-5</u>	29N	11W		3	1	1	
SJ 02121	29N	11W		1	1		
SJ 02210	29N	11W		1	1		
SJ 03588	29N	11W		1	1	2	
SJ 02227	29N	11W		1	1	4	
SJ 00700	29N	11W	27	1	3	3	

65 70 73	55 14	10 56
50 31 52 45 47 60 70 50 55 68 47 59 49 37 38 49 37 38	12 20 10 8 22 11 8 20 3 27 16 12 10 10 14 18	19 32 35 39 38 59 42 35 65 20 43 37 27 28 35 27
72 58 45 45 27 40 30 43 34 47 50 50 50 45 44	59 18 24 20 11 6 7 9 4 10 12 11 22 15 15 15	54 34 20 25 34 21 39 23 22 36 28 35 35 30
50 55 58 50 60 45 52 41	15 20 30 30 25 25 21	35 35 28 20 30 20 27 20
30 38 56 50 45 35 37 52 30 32	28 15 12 18 25 43 6 8	10 41 35 33 17 12 9 24 24
27 20	6 7	21 13

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80									
SJ 01808 0-4	29N	11W 27	2 3				32	25	7
SJ 01808 0-1	29N	11W 27	24	2			25	17	8
SJ 01808 0-2	29N	11W 27	2 4	3			27	19	8
<u>SJ 01808 0-3</u>	29N	11W 27	24				39	34	5
<u>SJ 02664</u>	29N	11W 27	3 2				40	26	14
SJ 02664 S	29N	11W 27	3 2				38	23	15
SJ 02664 S-2	29N	11W 27	3 2				34	19	15
SJ 02664 S-3	29N	11W 27	3 2				41	30	11
SJ 02664 S-9	29N	11W 27	3 2	2			33	19	14
<u>SJ 02664 S-4</u>	29N	11W 27	3 2				42	30	12
<u>SJ 02664 S-10</u>	29N	11W 27	3 2				33	19	14
<u>SJ 02664 S-5</u>	29N	11W 27	3 2				41	30	11
SJ 02664 S-6	29N	11W 27	3 2				40	28	12
SJ 02664 S-7	29N	11W 27	3 2				37	23	14
<u>SJ 02664 S-8</u>	29N	11W 27	3 2				35	25	10
<u>SJ 02148</u>	29N	11W 27	4 2				305	186	119
SJ 01808 0-6	29N	11W 27		1			50		
SJ 03762 POD1	29N	11W 28	1 1		267348	2075529	27	15	12
SJ 03476	29N	11W 28		. 2			65		
SJ 03415	29N	11W 28		1			60	20	40
SJ 02559	29N	11W 28		4			15	7	8
SJ 02330	29N	11W 28	2 1				128	115	13
SJ 03021	29N	11W 28		. 3			16	5	11
SJ 01606	29N	11W 28	2 2				35	8	27
SJ 03468	29N	11W 28	24		367704	2073506	50		
SJ 03469	29N	11W 28		3			50		
<u>SJ 02713</u>	29N	11W 28		. 1			26	12	14
SJ 02858	29N	11W 28		. 3			40		
SJ 02714	29N	11W 28	3 2				43	28	15
SJ 02708	29N	11W 28	3 2				26	12	14
SJ 03149	29N	11W 28	4 2				60	35	25
<u>SJ 03475</u>	29N	11W 29		3			40	20	20
SJ 00292	29N	11W 29		. 4			24	9	15
SJ 01554	29N	11W 29	2 2				35	18	17
SJ 02038	29N	11W 29	4 1				14	4	10
SJ 03298	29N	11W 29	4 1				70	6	64
SJ 02023	29N	11W 29	4 2				24	7	17
SJ 02182	29N	11W 29	4 2				27	11	16
SJ 00822	29N	11W 29	4 3				34	15	19
SJ 03421	29N	11W 29		3			50	28	22
<u>SJ 01391</u>	29N	11W 30	2	2			40	25	15
SJ 03348	29N	11W 30		. 3			60	1.0	
<u>SJ 01260</u>	29N	11W 30	2 2				42	16	26
SJ 01264	29N	11W 30	2 2				27	12	15
SJ 01328	29N	11W 30	2 2				28	15	13
SJ 01821	29N	11W 30	2 4				70	6	64
SJ 00875	29N	11W 30	4 1				37	20	17
SJ 02922	29N 29N	11W 31 11W 31	32	2	266420	2067001	75	4 5	20
SJ 03795 POD1					266438	2007001	75	45	30
SJ 03541	29N	11W 31 11W 32		1			80	40	40
SJ 00441	29N 29N	11W 32 11W 32		4			262		
SJ 00103	29N 29N	11W 32 11W 32					263 254		
<u>SJ 00103 S</u> SJ 03666	29N	11W 32 11W 33	4421	4			254 49	30	19
<u>au vaudu</u>	2.211	TTAA 00	4 1				47	50	19

Record Count: 145

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New Mexico Office of the State Engineer

Township: 30N Ra	nge: 11W Sec	tions:		
NAD27 X:	Y: Zo	one:	Search Radius	:
County: Basin:		Nu Nu	mber:	Suffix:
Owner Name: (First)	(Last)	(	Non-Domestic	∩ Domestic ● A
POD / Surface Data Report	Avg Dept	h to Water Repo	rt Wate	r Column Report

#### WATER COLUMN REPORT 08/21/2008

							3=8W 4	-						
							small	· · · ·			Depth	Depth	Water	(in
POD Number	Tws	Rng		đ	đ	<b>P</b>	Zone	3	X	Y	Well	Water	Column	
RG 50669	30N	11W		_	-						360	310	50	
SJ 02765	30N	11W		1	-						54	20	34	
<u>8J 00975</u>	30N	11W		1	-						60	20	40	
<u>SJ 01217</u>	30N	11W		1	-						60	30	30	
SJ 02837	30N	11W		3	4	1					150			
<u>SJ 01437</u>	3 ON	11W	03	1							40	28	12	
<u>SJ 03121</u>	30N	11W		1	_	4					36	12	24	
SJ 02049	30N	11W	03	1	3						26	8	18	
SJ 01339	30N	11W	03	1	3	1					40	15	25	
SJ 02814	30N	11W	03	1	3	2					31	8	23	
8J 00350	30N	11W	03	1	3	2					46	12	34	
<u>SJ 01441</u>	30N	11W	03	1	3	2					48	20	28	
8J 02835	30N	11W	03	1	3	2					26	8	18	
SJ 01387	30N	11W	03	1	4						40	18	22	
SJ 03698 POD1	30N	11W	03	1	4	1					40	5	35	
SJ 02785	3 ON	11W	03	1	4	2					31	5	26	
SJ 01313	3 O N	11W	03	2							70	58	12	
<u>SJ 01805</u>	30N	11W	03	2							35	20	15	
SJ 01807	30N	11W	03	2	1						50	30	20	
SJ 01202	30N	11W	03	2	1	2					35	8	27	
SJ 02781	30N	11W	03	2	1	2					48	23	25	
SJ 03758 POD1	30N	11W	03	2	1	2		268158	3	2127473	49	21	28	
SJ 03765 POD1	30N	11W	03	2	1	2		268163	3	2127605	43	20	23	
SJ 03756 POD1	30N	11W	03	2	1	2		268179	9	2127870	41	20	21	
SJ 02786	30N	11W	03	2	3	1					51	24	27	
SJ 01901	30N	11W	03	2	3	2					60	26	34	
SJ 00698	30N	11W	03	2	3	3					44	14	30	
SJ 01261	30N	11W	03	2	3	4						20	<i></i>	
SJ 02930	30N	11W	03	2	4	4					81	64	17	
SJ 02798		11W		2	4	4					80	61	19	
SJ 00402	30N	11W		3							32	1.8	14	
SJ 01734	30N	11W		3	2						33	5	28	
				~							ور ور	2	2 Q	

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SJ 00762	30N	11W 03	32				47	22	25
SJ 01440	30N	11W 03	323				41	21	20
SJ 01020	30N	11W 03	3 3				27	5	22
SJ 03242	30N	11W 03	331				23	9	14
SJ 03732 POD1	30N	11W 03	331				38	9	29
SJ 03239	30N	11W 03	3 3 3				33	12	21
SJ 01238	30N	11W 03	4 1				95	38	57
SJ 02245	30N	11W 03	4 1 3				66	30	36
SJ 01043	30N	11W 03	4 1 4				50	50	50
SJ 01249	30N	11W 03	4 2				52	22	30
SJ 02563	30N	11W 03	421				96	60	36
SJ 02824	30N	11W 03	4 2 1				70	50	20
8J 03153	30N	11W 03	4 2 1				80	60	20
SJ 03454	30N	11W 03	424				100	00	20
SJ 03291	30N	11W 03	4 3 2			1	38	18	20
8J 00366	30N	11W 03	4 4 4				33	18	15
SJ 01364	30N	11W 04	2				115	86	29
SJ 03076	30N	11W 04	223				44	10	34
SJ 02903	30N	11W 04	2 3 2				49	31	18
SJ 03039	30N	11W 04	4 1 2				53	40	13
SJ 01450	30N	11W 04	4 3				45	20	25
SJ 02941	30N	11W 04	4 3 2				58	37	21
SJ 01367	30N	11W 04	441				48	20	28
SJ 03407	30N	11W 04	444	W	453700	2124100	30	5	25
SJ 03267	30N	11W 05	2 1 3				83	60	23
8J 03245	30N	11W 06	444				80	65	15
SJ 02194	30N	11W 07					59	22	37
SJ 02140	30N	11W 07	111				70	60	10
SJ 00689	30N	11W 07	143				78	65	13
SJ 00690	30N	11W 07	143				60		
SJ 00882	30N	11W 07	1 4 3				60	50	10
<b>SJ 00889</b>	30N	11W 07	143				55		
SJ 00806	30N	11W 07	143				38	20	18
<u>SJ 00739</u>	30N	11W 07	143				70	58	12
SJ 00389	30N	11W 07	143				53		
<b>SJ 00688</b>	30N	11W 07	143				70	58	12
<u>8J 00358</u>	30N	11W 07	143				61	38	23
SJ 00397	30N	11W 07	143				56	35	21
SJ 00415	30N	11W 07	143				53	40	13
<u>SJ 00387</u>	30N	11W 07	1 4 3						
SJ 00748	30N	11W 07	143				60	41	19
SJ 03271	30N	11W 07	232						
SJ 01475	30N	11W 07	2 3 3				49	27	22
SJ 03465	30N	11W 07	234				80		
<u>SJ 00259</u>	30N	11W 07	24				25	12	13
SJ 01492	30N	11W 07	3				60	22	38
SJ 03794 POD1	30N	11W 07	313		266272	2119520	44	27	17
SJ 01172	30N	11W 07	32				50	30	20
SJ 01310 SJ 01484	30N 30N	11W 07	33				80	50	30
SJ 03630		11W 07 11W 07	33				61	10	51
SJ 01425	30N 30N	11W 07	333 34				68	24	44
SJ 01468	30N	11W 07					55	25	30
SJ 02006	30N	11W 07	34 342				60	25	35
SJ 03484	30N	11W 07 11W 07	342				50	24	26
SJ 02005	30N	11W 07	343				75	0.0	25
SJ 02715	30N	11W 07					55	20	35
SJ 02715 SJ 00135	30N	11W 07 11W 07	344 41				68	20	48
SJ_00769	30N	11W 07					180	23	157
50 00103	2.014	TIM U/	4 1				50	14	36

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<u>SJ 01406</u>	30N	11W 07	4 1		45
SJ 02936	30N	11W 07	411		38
SJ 00679	30N	11W 07	4 1 3		48
SJ 00620	30N	11W 07	413		52
SJ 00329	30N	11W 07	4 1 3		63
SJ 00162	30N	11W 07	4 1 3		58
SJ 02906	30N	11W 07	4 1 4		45
<u>SJ 00893</u>	30N	11W 07	4 2		80
<u>SJ 01667</u>	30N	11W 07	4 3		41
<u>SJ 01404</u>	30N	11W 07	4 3		40
<u>SJ 00919</u>	30N	11W 07	432		35
SJ 00604	30N	11W 07	4 3 2		38
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SJ 00920	30N	11W 07	432		35
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SJ 00183	30N	11W 08	1 1		360
8J 03154	30N	11W 08	114		40
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8J 00332	30N	11W 08	22		52
SJ 01451	3 0 N	11W 08	2 2		64
SJ 01968	30N	11W 08	2 2		40
SJ 01999	30N	11W 08	2 2		61
SJ 01814	30N	11W 08	2 2		52
SJ 03398	30N	11W 08	2 2 1		80
SJ 03210	30N	11W 08	2 2 2		60
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SJ 03381	30N	11W 08	2 2 2		50
SJ 03240	30N	11W 08	2 2 2		50
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8J 03653	30N	11W 08	2 2 4		62
SJ 03646	30N	11W 08	224		61
SJ 00228	30N	11W 08	2 2 4		67
SJ 03202	30N	11W 08	2 4 2		45
SJ 03030	30N	11W 08	242		56
<u>8</u> J 03305	30N	11W 08	242		50
SJ 03378	3 ON	11W 08	2 4 2		50
SJ 02331	30N	11W 08	2 4 2		53
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SJ 02293	30N	11W 08	242		50
SJ 00249	30N	11W 08	2 4 2		46
<u>SJ 01368</u>	30N	11W 08	3 2		59
SJ 03089	30N	11W 08	324		48
SJ 03480	30N	11W 08	324		50
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SJ 02915	30N	11W 08	341		45
SJ 03367	30N	11W 08	344		29
SJ 01570	30N	11W 08	4 1		59
SJ 00925	30N	11W 08	4 1 2		32
SJ 03642	30N	11W 08	4 1 2		58
SJ 01520	30N	11W 08	4 1 2		58
SJ 03313	30N	11W 08	4 1 4		58
SJ 02485	30N	11W 08	4 1 4		49
SJ 02261	30N	11W 08	4 3 2		32
SJ 03419	30N	11W 08	4 4 2		41
SJ 02241	30N	110 09	1		41

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SJ 02241

SJ 01560	30N	11W 09	1	1		36	26	10
SJ 01585	30N	11W 09	1	1		40	28	12
SJ 03499	30N	11W 09	1	L 1		53	12	41
SJ 02236	30N	11W 09	1 :	11		35	17	18
SJ 03304	30N	11W 09	1 :	12		55	30	25
SJ 03209	30N	11W 09		13		49	32	17
SJ 03726 POD1	30N	11W 09		13		47	30	17
SJ 03342	30N	11W 09	1			50	31	19
SJ_03225	30N	11W 09		4		50	21	10
SJ 03229	30N	11W_09	1			50		
SJ 00924	30N	11W 09	1 2			46	16	30
SJ 00438	30N	11W 09	1 2			29	19	10
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SJ 02237	30N	11W 09		31	2	48	28	20
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SJ 02493	30N	11W 09	1 3			49	26	23
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<u>8J 03031</u>	30N	11W 09	1 3			55	35	20
<u>SJ 01465</u>						47		25
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SJ 03482	30N	11W 09	13			50		2.0
<u>8J 03423</u>	30N	11W 09	1 3			50	20	30
SJ 00750	30N	11W 09	14			26	6	20
BJ 02975	30N	11W 09	2 1			37	12	25
SJ 03268	30N	11W 09	2 2			61	10	51
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SJ 03128	30N	11W 09	2 3			50		
SJ 00364 CLW263561	30N	11W 09	2 3			33	11	22
<u>8J 01955</u>	30N	11W 09	2 4			40	11	29
SJ 02528	30N	11W 09	24			60	28	32
SJ 02290	30N	11W 09		2		45	15	30
<u>8J 00347</u>	30N	11W 09	4			36	19	17
83 01436	30N	11W 09	4 1			210	50	160
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<u>SJ 03263</u>	30N	11W 09	4 2			63	35	28
<u>8J 03374</u>	30N	11W 09	4 3			44	29	15
<u>8J 02796</u>	30N	11W 09	4 3			100		
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SJ 03258	30N	11W 10	1			55	10	45
SJ 03444	30N	11W 10	13			60	<sup>13</sup>	~ ~
SJ 03248	30N	11W 10	1 3			90	30	60
SJ 03354	30N	11W 10	1			80	30	50
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SJ 03032	30N	11W 10	14			80	30	50
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<u>SJ 03282</u>	30N	11W 10	2 3			70	30	40
<u>SJ 03281</u>	30N	11W 10	2 3			62	32	30
SJ 03572	30N	11W 10	3 1			70		
<u>SJ 03218</u>	30N	11W 10	3 3	\$ 3		50	30	20
<u>SJ 01720</u>	30N	11W 13		_		225	90	135
SJ 03745 POD1	30N	11W 13	1 1			325	150	175
SJ_01693	30N	11W 13	1 3			225	89	136
<u>SJ 01672</u>	30N	11W 13	13			180	80	100
SJ 01294	30N	11W 13	1 3	3		92	52	40

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New Mexico Office of the State Engineer

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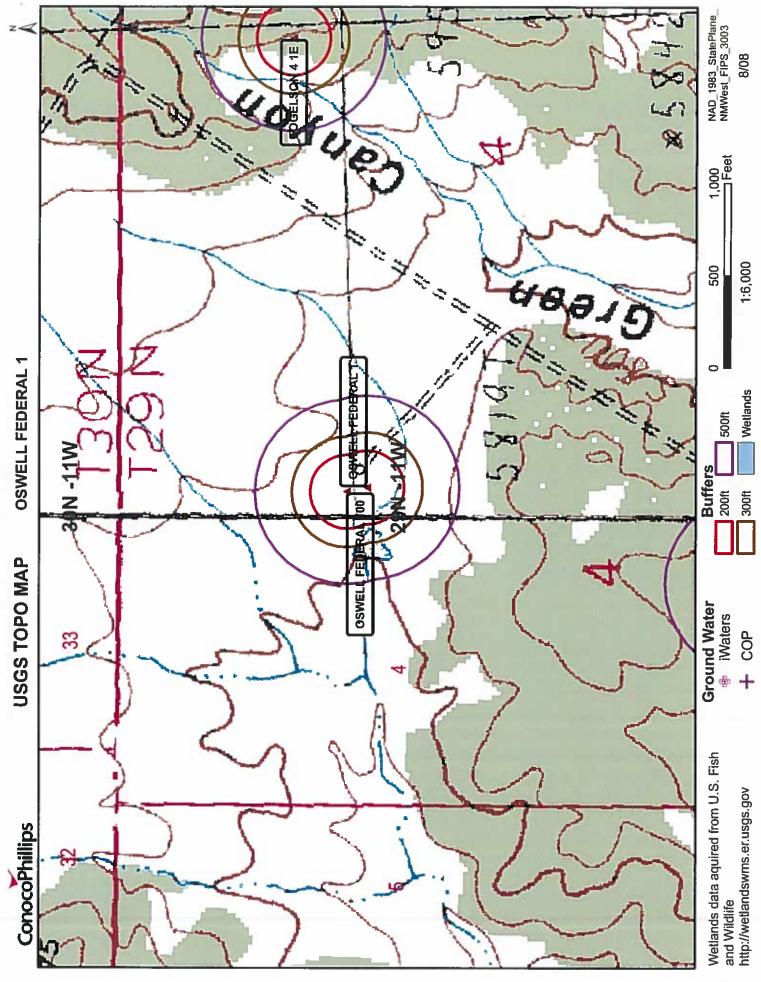
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SJ 02923	30N	11W 16	1 3 3			75	40	35
SJ 03265	30N	11W 16				90	70	20
SJ 03310	30N	11W 16				55	20	35
SJ 01082	30N	11W 16	2 2 1			80	34	46
SJ 01722	30N	11W 17	1			20	8	12
SJ 01528	30N	11W 17	11 3			26	10	16
SJ 03373	30N	11W 17	1 1 3			50	35	15
SJ 01948	30N	11W 17	1 2			21	3	18
SJ 02817	30N	11W 17	1 2 2			15	2	10
SJ 01722 POD2	30N	11W 17	124	266967 2	116417	17	3	14
SJ 01899	30N	11W 17	1 3 2	200507 2	11011/	27	7	20
SJ 03771 POD1	30N	11W 17	1 3 3	266811	211517	20	6	14
SJ 03750 POD1	30N	11W 17	1 3 3		211517	20	6	14
SJ 03319	30N	11W 17	134	200011	<u></u> ,	55	31	24
SJ 03266	30N	11W 17	143			30	10	20
SJ 03436	30N	11W 17	1 4 3			20	10	20
SJ 00745	30N	11W 17	2			54	30	24
SJ 00665	30N	11W 17	2 1			28	14	14
SJ 01342	30N	11W 17	2 1 1			26	5	21
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SJ 01057	30N	11W 17	2 3			63	28	35
SJ 01060	30N	11W 17	2 3			58	23	35
SJ 03241	30N	11W 17	233			75	20	55
SJ 03269	30N	11W 17	234			80	10	55 70
SJ 01200	30N	11W 17	2 4			50	20	30
	30N	11W 17 11W 17	2 4 2			68		
SJ 03219	30N	11W 17 11W 17	31			35	38	30
<u>SJ 00159</u> SJ 03276	30N	11W 17	314			60	8 20	27 40
SJ 03276 SJ 01296	30N	11W 17 11W 17	3 2			50	10	40
SJ 03249	30N	11W 17 11W 17	322			55	10	40
SJ 01810	30N	11W 17	34			29	9	20
SJ 00411	30N	11W 17	4 1			60	25	35
SJ 00234	30N	11W 17	4 1			54	23	31
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	30N	11W 17	412			52	18	
<u>8j 00457</u> Sj 00650	30N	11W 17	413			49	18	34 31
SJ 02018	30N	11W 17	4 2			100	40	60
SJ 00136	30N	11W 17	4 2			69	35	34
SJ 03718 POD1	30N	11W 17	4 2 2			68	41	27
SJ 03261	30N	11W 17	4 2 2			88	50	38
SJ 03215	30N	11W 18	1 1 3			52	9	43
SJ 01316	30N	11W 18	1 1 3			46	12	34
SJ 03152	30N	11W 18	1 1 3			52	22	30
SJ 02805	30N	11W 18	1 2 1			60	66	50
SJ 03463	30N	11W 18	1 2 1			70	20	50
SJ 02996	30N	11W 18	1 2 1			50	25	25
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SJ 01738	30N	11W 18	1 3			33	6	27
SJ 01733	30N	11W 18	1 3			29	9	20
SJ 01786	30N	11W 18	1 3			35	10	25
SJ 01401	30N	11W 18	1 3			33 44	10	∠⊃ 32
	30N	11W 18	131			44	14	24
SJ 03526	30N	11W 18	1 4 1				20	20
<u>SJ 03176</u>		11W 18 11W 18	141			48	20	28
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SJ 03344	- 2014	TTM 10	1 4 4			100	8	92

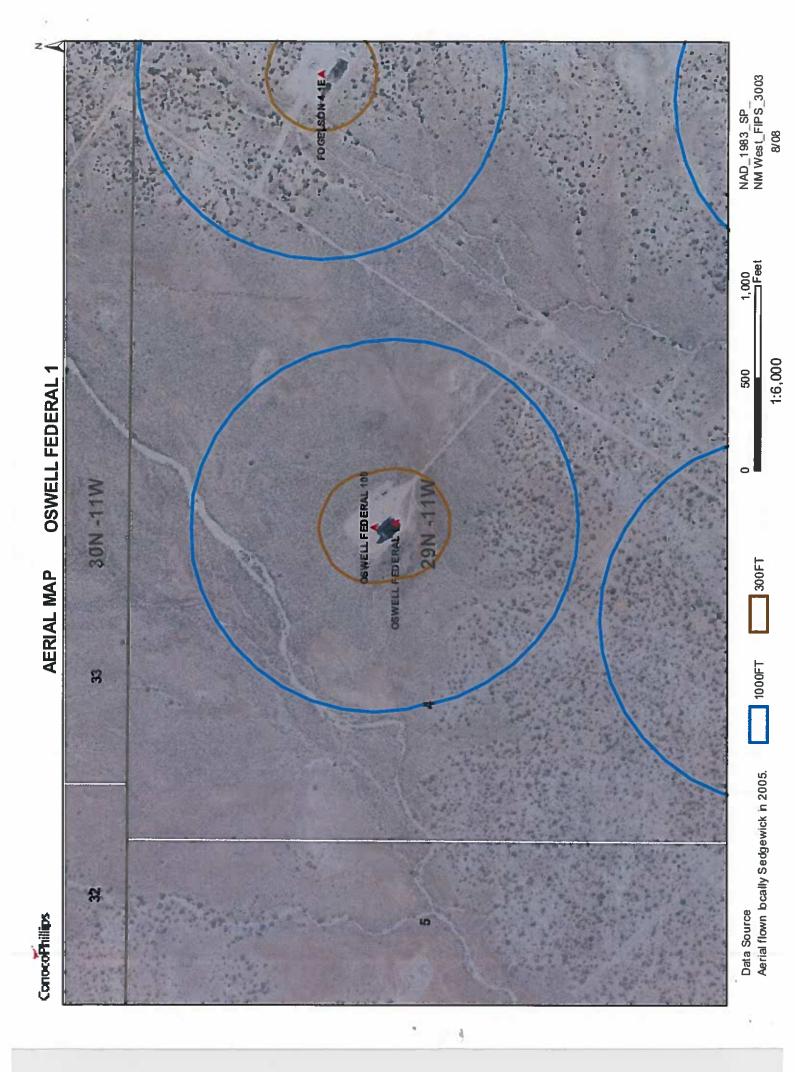
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SJ 03800 POD1	30N	11W 18	3 3	2 2		266718	2116651	21	6	15
SJ_01639	30N	11W 18	3	2 2	2			40	18	22
SJ 02098	30N	11W 18	} :	2 4				21	~ 7	14
SJ 02109	30N	11W 18		2 4				19	4	15
SJ 02123	30N	11W 18	1	2 4				22	8	14
SJ 03290	30N	11W 18		2 4	4			40	10	30
SJ 02045	30N	11W 18	4	4				480	200	280
SJ 03322	30N	11W 18	1	4 4	1			40	10	30
<u>SJ 03320</u>	30N	11W 18		4 4	3			80		
SJ 03321	30N	11W 18	4	4 4	3			80		
<u>SJ 02193</u>	30N	11W 19							105	
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<u>SJ 01636</u>	30N	11W 19	1	2 2				70	25	45
SJ 02862	30N	11W 19	1	2 2	3			20		
SJ 00284	30N	11W 19	2	2 4				200	35	165
SJ 03645	30N	11W 19	12	3 1				60	20	40
SJ 03533	30N	11W 19	- 2	31	3			20		
SJ 01621	30N	11W 19	1	3 2				40	38	2
<u>SJ 02692</u>	30N	11W 19	- 3	_	2			52	12	40
SJ 02968	30N	11W 19			2			75	5	70
<u>SJ 02812</u>	30N	11W 19	3	_	2			50		
SJ 01123	30N	11W 19	Ļ					40	15	25
SJ 03437	30N	11W 19	4		2			30		
SJ 03315	30N	11W 19	4	1 1	2			60	54	6
SJ 00284 CLW222415	30N	11W 19	4	4				200	35	165
SJ 03224	30N	11W 30	1	. 2	4			80	30	50
SJ 03077	30N	11W 30	2	2 1	1			75	70	5
SJ 03668	30N	11W 30	2	2 1	2			380	280	100
<u>SJ 03251</u>	30N	11W 32	3	4	4			150	77	73

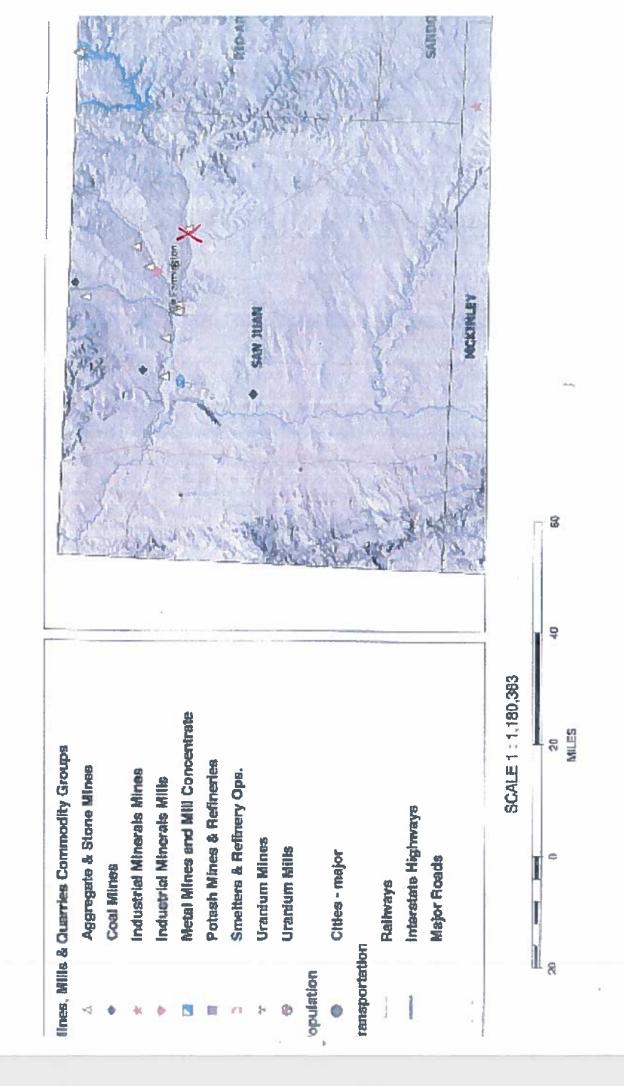
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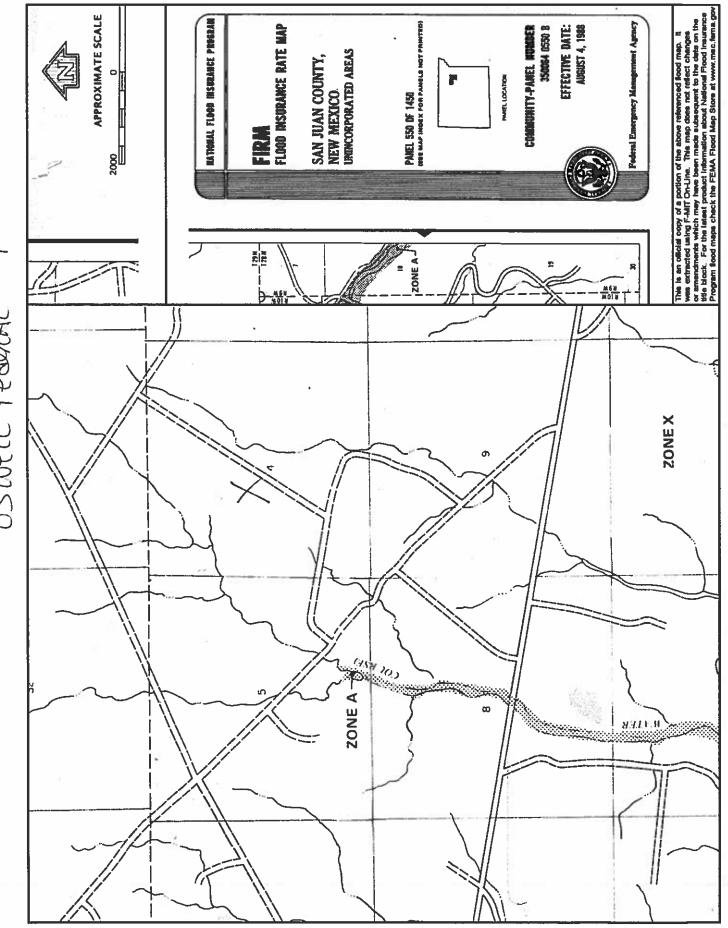
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# Mines, Mills and Quarries Web Map **OSWELL FEDERAL 1** Unit Letter: F, Section: 04, Town: 029N, Range: 011W





OSWPLL FEDERAL #

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#### **OSWELL FEDERAL 1**

#### Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'OSWELL FEDERAL 1', which is located at 36.75755 degree, North latitude and 107.99942 degree, West longitude. This location is located on the Aztec 7.5' USGS topographic quadrangle. This location is in section 4 of Township 29 North Range 11 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Bloomfield, located 3.3 miles to the south. The nearest large town (population greater than 10,000) is Farmington, located 11.5 miles to the west (National Atlas). The nearest highway is US Highway 550, located 1.1 miles to the east. The location is on BLM land and is 3,237 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1775 meters or 5822 feet above sea level and receives 10.5 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Semi-Desert Grassland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 143 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' Cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 171 feet to the south and is classified by the USGS as an intermittent stream. The nearest perennial stream is 432 feet to the west. The nearest water body is 410 feet to the west. It is classified by the USGS as an intermittent lake and is 0.5 acres in size. The nearest spring is 24,421 feet to the southeast. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 4,861 feet to the northwest. The nearest wetland is a 17.5 acre Freshwater Forested/Shrub Wetland located 12,993 feet to the south. The slope at this location is 0 degree, to the east as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION-Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Stumble-Fruitland association, gently sloping' and is somewhat excessively drained and not hydric with slight erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 14.7 miles to the west as indicated on the Mines, Mills and Quarries Map of New Mexico provided. 11:5 miles to

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

The first and the state

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.

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The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably 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 (Fasseit 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 ted 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:

States of the set

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).

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Bash, Nevr Mexico and Social Society,

Internation and Kirtland Formation and Kirtland e Chulessional Paper 676, 75 p.

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vines and Milleral Resources,

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:**

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Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, eastcentral 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, ation Hydrologic Report 6. to release similaritatina Sandose the of water, however, the creater

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

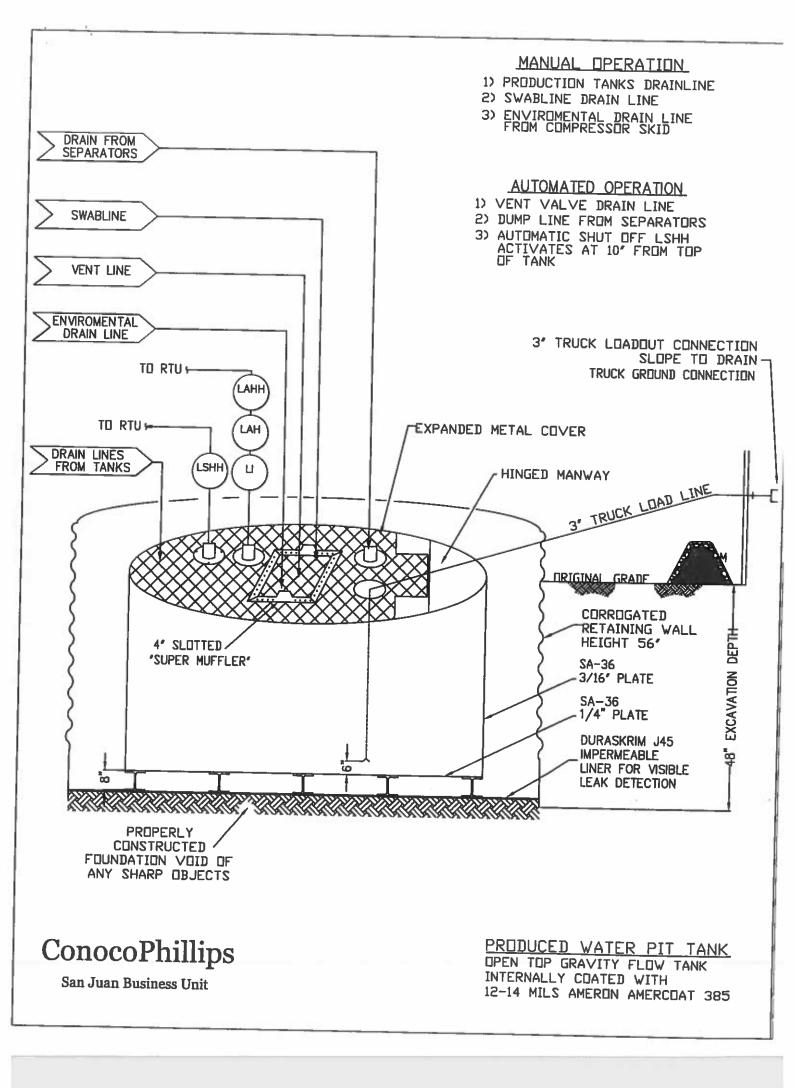
In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does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

#### General Plan:

- 1. BR will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- 2. BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. BR ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- 5. BR shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The BR below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a below-grade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. BR will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

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- 9. BR has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the BR MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from BR's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- 11. The general specification for design and construction are attached in the BR document.



# DURA-SKRIM®

# **J30, J36 & J45**

PROPERTIES	TEST METHOD	J	30BB	J3	6BB	J45BB		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Rol Averages	
Appearance	and the second se	Blac	k/Black	Black	/Black		/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil	
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)	
Construction		**Ext	rusion laminated	· · /				
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs	
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD	
1" Tensile Elongation @ Break. % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD	
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD	
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD	
Trapezold Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5	
ouncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf	
Maximum Use Temperature		180° F						
Minimum Use Temperature		-70° F	180° F -70° F					

MD = Machine Direction

DD = Diagonal Directions

OURA-SERIM-

Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories.

\*Dimensional Stability Maximum Value

\*\*DURA-SKRIM J30BB, J36BB & J45BB are a four layer reinforced laminate containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. DURA-SKRIM J30BB, J36BB & J45BB are reinforced with a 1300 denier (minimum) tri-directional scrim reinforcement.

Note: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.



PLANT LOCATION

Sioux Falls, South Dakota

### SALES OFFICE

P.O. Box 5107 Sioux Falls, SD 57117-5107 (605) 335-0174 (605) 331-0333 FAX 800-635-3456

08/06

# RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

Raven Industries Inc. warrants Dura-Skrim J30BB, J36BB, and J45BB to be free from manufacturing defects and to be able to withstand normal exposure to sunlight for a period of 20 years from the date of sale for normal use in approved applications in the U.S and Canada, excluding Hawaii. This warranty is effective for products sold and shipped from January 1, 2008 to December 31, 2008. These dates will be updated prior to December 31, 2008.

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of Raven geomembranes to harmful chemicals, atypical atmospheric conditions, abuse of Raven geomembranes by machinery, equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper application or installation. Raven geomembrane material warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree that the sale hereunder is for commercial or industrial use only.

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty extends only to Raven's geomembrane, and does not extend to the installation service of third parties nor does it extend to materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the material as Raven Industries Inc. determines to have violated the warranty provided herein. Raven Industries Inc. shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to, damages for loss of production, lost profits, personal injury or property damage. Raven industries Inc. shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser unless Raven Industries Inc. specifically authorized, in writing, said repairs, replacements, modifications or alteration in advance of them having been made. Raven Industry's liability under this warranty shall in no event exceed the replacement cost of the material sold to the Purchaser for the particular installation in which it failed.

Raven Industries Inc. neither assumes nor authorizes any person other than the undersigned of Raven Industries Inc. to assume for it any other or additional liability in connection with the Raven geomembrane made on the basis of the Limited Warranty. The Limited Warranty on the Raven geomembrane herein is given in lieu of all other possible material warranties, either expressed or implied, and by accepting delivery of the material; Purchaser waives all other possible warranties, except those specifically given. This Limited Warranty may only be modified by written document mutually executed by Owner and Raven Industries Inc.

Limited Warranty is extended to the purchaser/owner and is non-transferable and non-assignable; i.e., there are no third-party beneficiaries to this warranty.

Purchaser acknowledges by acceptance that the Limited Warranty given herein is accepted in preference to any and other possible materials warranties.

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA. RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THIS IS THE ONLY WARRANTY THAT APPLIES TO THE MATERIALS REFERRED TO HEREIN AND RAVEN INDUSTRIES INC. DISCLAIMS ANY LIABILITY FOR ANY WARRANTIES GIVEN BY ANY OTHER PERSON OR ENTITY, EITHER WRITTEN OR ORAL.

RAVEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAVEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC.

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

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

#### General Plan:

- 1. BR will operate and maintain a BGT to contain liquids and solids and maintain the integrity of the liner, liner system and secondary containment system to prevent contamination of fresh water and protect public health and environment. BR will accomplish this by performing an inspection on a monthly basis, installing cathodic protection, and automatic overflow shutoff devices as seen on the design plan.
- 2. BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a below-grade tank to overflow. BR constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, BR will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, BR shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 5. BR shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then BR shall remove all liquid above the damage or leak line within 48 hours. BR shall notify the appropriate district office. BR shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, BR shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. BR shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

11/5/2008

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

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of Below Grade Tanks (BGTs) on Burlington Resources Oil & Gas Company, LP locations hereinafter known as BR locations. This is BR's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

#### General Requirements:

- BR shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, BR will file the C144 Closure Report as required.
- 2. BR shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. BR will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. If there is any on-site equipment associated with a below-grade tank, then BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

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- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then BR shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 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
  - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- The surface owner shall be notified of BR's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. 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 federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private 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. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. BR will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. 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.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
  - Soil Backfilling and Cover Installation
  - Re-vegetation application rates and seeding techniques
  - Photo documentation of the site reclamation
  - Confirmation Sampling Results
  - Proof of closure notice

- Signed C-144 (Page 5 of C-144)
- Site Specific Hydrogeology

# **19.15.17.10 NMAC SITTING REQUIREMENTS**

- ✓ New Mexico Office of State Engineer attachment
- USGS TOPO map
- 🖌 Aerial Map
- ✓ Mines, Mills and Quarries Map
- FIRM map (flood insurance rate map from Federal Emergency Agency)

# **19.15.17.11 NMAC DESIGN PLAN CONTENTS**

Below Grade Tank Design and Construction Plan

# **19.15.17.12 NMAC OPERATING AND MAINTENCE PLAN**

Below Grade Tank Operating and Maintenance Plan

# 19.15.17.13 NMAC CLOSURE PLAN

Below Grade Tank Closure Plan

# **REGISTRATION DATE:**

07/22/2015

# NOTES: