District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

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

July 21, 2008

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

Form C-144

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

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

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

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

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

Address: PO Box 4289, Farmington, NM 8	7400		OGRID#: 2178	317
Facility or well name: STATE COM AE 27R			The contract of	
		OCD D	1	
API Number: 300452466		OCD Permit Num		
	Township: 30N	Range:		San Juan
Center of Proposed Design: Latitude: Surface Owner: Federal X St.	36.770359°N	Longitude:		NAD: X 1927 1983
Surface Owner: Federal X St	ate Private T	ribal Trust or Ind	nan Allotment	
Temporary: Drilling Workover Permanent Emergency Cavitation Lined Unlined Liner type: String-Reinforced Liner Seams: Welded Factory	P&A Thickness mil Other		HDPE PVC	Other x W x D
Drying Pad Above Ground Steel Ta Lined Unlined Liner type:	new well Workover of notice of int	tent) Other		uire prior approval of a permit or

,0		
Fencing: Subsection D of 19.15-17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tani Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permi		or church)
Four foot height, four strands of barbed wire evenly spaced between one and four feet	m n residente, se anne, nospitat, assimation	(Charten)
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		
X Screen Netting Other		
Monthly inspections (If netting or screening is not physically feasible)		
Signs: Subsection C of 19.15.17.11 NMAC		
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		
X Signed in compliance with 19.15.3.103 NMAC		
Administrative Approvals and Exceptions:		
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.		
Please check a box if one or more of the following is requested, if not leave blank:		
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe E	nvironmental Bureau office for consideratio	n of approval.
(Fencing/BGT Liner)		
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of	approval.	and the state of
10		F
Siting Criteria (regarding permitting): 19.15.17.10 NMAC		
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Reconstructions and are provided below. Requests regarding changes to certain siting criteria may require administ.	The state of the s	
appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environn		
consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for does not apply to drying pads or above grade-tanks associated with a closed-loop system.	or guidance. Siting criteria	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearb		Yes XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lake		Van VNa
lake (measured from the ordinary high-water mark).	bed, sinkhole, or playa	es Aiso
- Topographic map; Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence a	t the time of initial	es X No
application.		
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)		A
 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	f initial application.	es No
(Applied to permanent pits)	XN	A
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 		
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use f purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of init		es X No
purposes, or within 1900 norizontal rect of any other fresh water wen or spring, in existence at the time of this	iai application.	
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of	the proposed site.	E TOTAL
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under	a municipal ordinance	es X No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended		1
 Written confirmation or verification from the municipality; Written approval obtained from the mu Within 500 feet of a wetland. 	Inicipality Y	es X No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification		IS AINO
Within the area overlying a subsurface mine.	□Y	es X No
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division		
Within an unstable area.	Ye	es X No
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources;	USGS; NM Geological	
Society; Topographic map Within a 100-year floodplain		m VN-
- FEMA map		es X No

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
X 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
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of
19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
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 X Below-grade Tank Closed-loop System Alternative
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.
X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17 13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Form C 144 Oil Conservation Division

Page 3 of 5

Waste Removal Closure For Closed-bog System That Utilize Above Ground Steel Tanks or Haul-off Bin Onloy (19.15.17.13 NAC) by the Committee of the Committee of the disposal of biguines. Arithmic final and affiliate Onloy (19.15.17.13 NAC) by the Committee of t
Disposal Facility Name: Disposal Facility Permit #: Wil any of the proposed closed loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information No No Required for imported areas which will not be used for future service and operations:
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Will not of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information No No No No No No No
Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC) Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC) Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC) Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC) Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC) Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC) Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC) Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC) Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC) Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC) Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC) Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC) Siting Criteria (Regarding on-site only; 19.15.17.10 NMAC Siting Criteria (Regarding on-site only; 19.15.17.10 NMAC Siting Criteria (Regarding on-site only; 19.15.17.10 NMAC Siting Criter
Siting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC formations. Fach string criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes in cross-cases string criteria may require administrative approval from the appropriate district office or may be considered on everytion which must be submitted to the Santa Fe Environmental Barcan office or consideration of approval. Instifications unifor demonstrations of equivalency are required. Please refer in 19.15.17.10 NMAC for guidance. Ground water is less than 50 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells NNA Ground water is between 50 and 100 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells Ground water is more than 100 feet below the bottom of the buried waste. NM Office 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 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 Within 500 horizontal feet of a private, domestic fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iNATERS database; Visual inspection (certification) of the proposed site Within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - inATERS database; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. Within the area overlying a subsurface mine. Wit
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Topographic map
- FEMA map
8 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closure plan. Please indicate, y 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 F of 19.15.17.13 NMAC
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Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11.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 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 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 19.15.17.11 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 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
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 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
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 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

Form C 144 Oil Conservation Division Page 4 at 5

No. of the Amelian Confidentian		
Operator Application Certification: hereby certify that the information submitted with this application is true, accur.	ate and complete to the best of m	ny knowledge and belief.
Name (Print): Crystal Tafoya	444	Regulatory Technician
Signature: Instal Talaya	Date:	12/22/2008
e-mail address:	Telephone:	505-326-9837
manufacture and another state and another state and the st		
OCD Approval: Permit Application (including closure plan)	Closure Plan (only)	CD Conditions (see attachment)
OCD Representative Signature:		Approval Date:
l'itle:	OCD Permit Num	ber:
21		
Closure Report (required within 60 days of closure completion): Subsections: Operators are required to obtain an approved closure plan prior to report is required to be submitted to the division within 60 days of the completion approved closure plan has been obtained and the closure activities have been continued to the division within 60 days of the completion approved closure plan has been obtained and the closure activities have been continued to the closure plan has been obtained and the closure activities have been continued to the closure plan prior to the completion.	implementing any closure activity of the closure activities. Please	do not complete this section of the form until an
	Closure Compi	etion Date:
Closure Method: Waste Excavation and Removal On-site Closure Method If different from approved plan, please explain.	Alternative Closure Method	Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop Systems instructions: Please identify the facility or facilities for where the liquids, drillingere utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and associated activities performed or Yes (If yes, please demonstrate compliant to the items below) Required for impacted areas which will not be used for future service and operations.	Disposal Facility Permit N Disposal Facility Permit N Disposal Facility Permit N or in areas that will not be used No	disposed. Use attachment if more than two facilities fumber: fumber:
Site Reclamation (Photo Documentation)	rations:	
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
Closure Report Attachment Checklist: Instructions: Each of the follow 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)	ing items must be attached to th	ne closure report. Please indicate, by a check mark in
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
Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	_Longitude:	NAD 1927 1983
Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	eport is ture, accurate and compl	ete to the best of my knowledge and belief. I also certify that
Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude: perator Closure Certification: nereby certify that the information and attachments submitted with this closure re-	eport is ture, accurate and compl	ete to the best of my knowledge and belief. I also certify that
Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude: perator Closure Certification: pereby certify that the information and attachments submitted with this closure reclosure complies with all applicable closure requirements and conditions specifications.	eport is ture, accurate and compl fied in the approved closure plan	ete to the best of my knowledge and belief. I also certify that

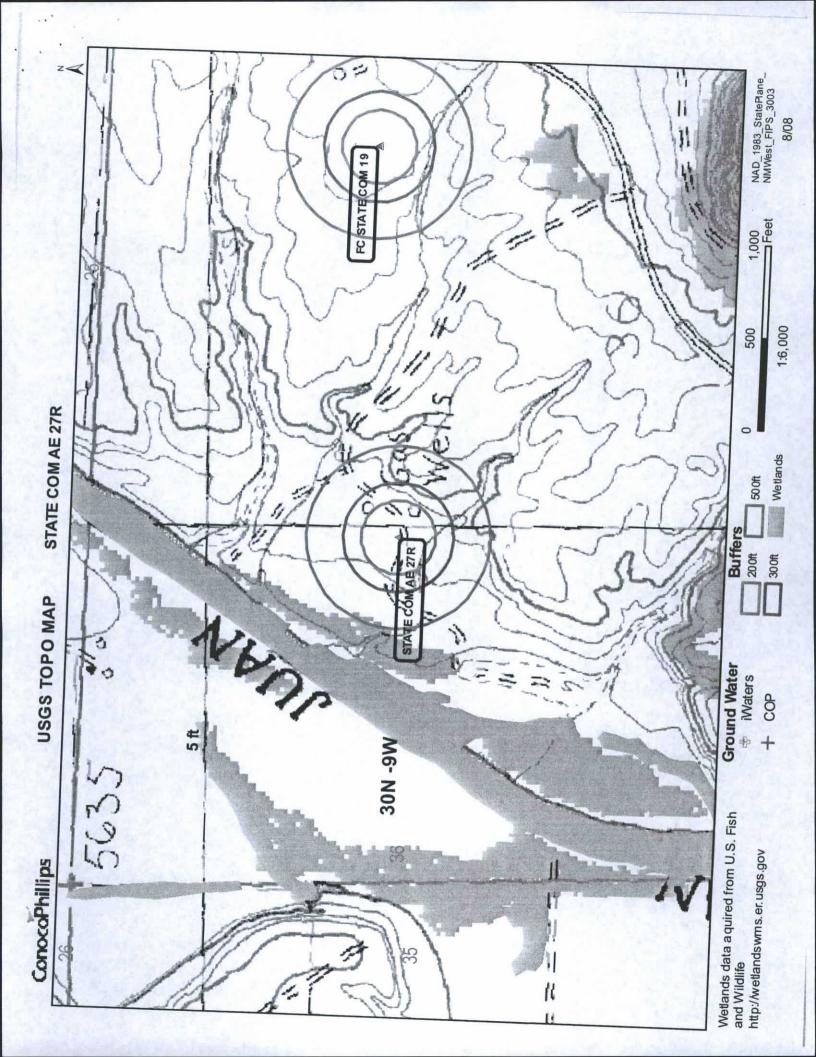
New Mexico Office of the State Engineer POD Reports and Downloads

NAD27	X:	Y:	Zone:	Search	Radius:
County:	Y	Basin:		Number:	Suffix:
Owner Name: (Fi	irst)	(Last)		− ∩ Non-Do	mestic C Domestic 6 All
POD / Surfa	ice Data R	eport Av	g Depth to Water	Report	Water Column Report

WATER COLUMN REPORT 08/21/2008

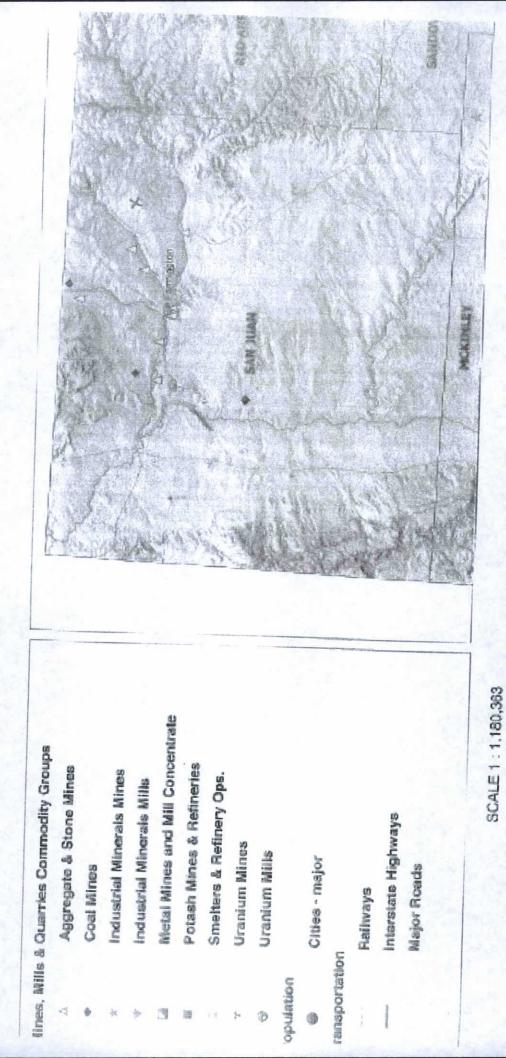
	The second secon						3=SW 4=SE) smallest)			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	q	P	Q	Zone	x	Y	Well	Water	Column		
SJ 00009	3 ON	09W	06	3						396	60	336		
SJ 00140	30N	. 09W	25	1						10				
SJ 02744	30N	09W	25	2	4	4				21	10	11		
SJ 02092	30N	09W	33	4	4	4				32	15	17		
SJ 02170	30N	09W	35	1	4	3				20	10	10		
SJ 03565	30N	09W	35	2	4	3				20				
SJ 00091	30N	09W	35	3	2	2				34				
SJ 01330	30N	09W	36	1	1	2				. 20	5	15		
SJ 02298	30N	09W	36	3						15	4	11		

Record Count: 9



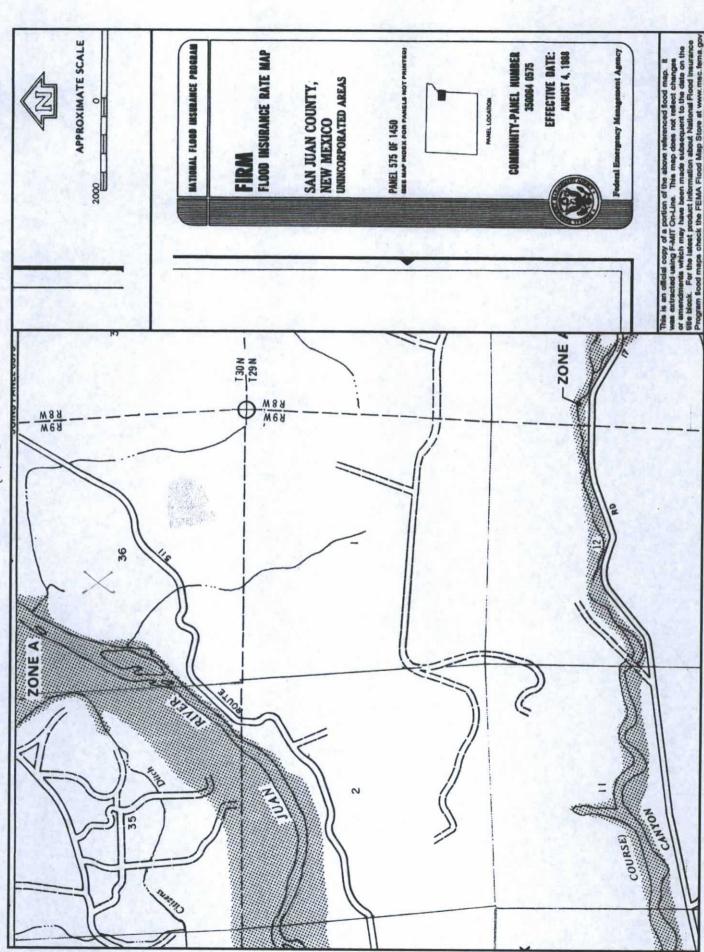
Mines, Mills and Quarries Web Map

STATE COM AE 27R Unit Letter: F, Section: 36, Town: 030N, Range: 009W



MILES

State Com AE #27 R



STATE COM AE 27R

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'STATE COM AE 27R', which is located at 36.770359 degrees North latitude and 107.73391 degrees West longitude. This location is located on the Archuleta 7.5' USGS topographic quadrangle. This location is in section 36 of Township 30 North Range 9 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 Turley, located 3.0 miles to the southwest. The nearest large town (population greater than 10,000) is Farmington, located 26.3 miles to the west (National Atlas). The nearest highway is State Highway 511, located 0.3 miles to the southeast. The location is on State land and is 549 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 1732 meters or 5680 feet above sea level and receives 12.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinion-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is -25 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 261 feet to the southwest and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 918 feet to the northwest. The nearest water body is 2,112 feet to the west. It is classified by the USGS as a perennial lake and is 0.3 acres in size. The nearest spring is 6,590 feet to the northwest. 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 1,812 feet to the northwest. The nearest wetland is a 2.0 acre Freshwater Forested/Shrub Wetland located 864 feet to the west. The slope at this location is 3 degrees to the northwest 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 'Fruitland-Slickspots complex, 0 to 3 percent slopes' and is well drained and not hydric with slight erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 16.0 miles to the northwest as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

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

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it comnformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval. Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones.

Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

Hydraulic Properties:

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

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

References:

Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, east-central San Juan Basin, New Mexico: USGS Professional Paper 552, 101 p.

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

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

Fassett, J.E., and Hinds, J.S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: USGS Professional Paper 676, 76 p. Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

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

ConocoPhillips Company 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 ConocoPhillips Company (COPC) locations. This is COPC'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:

- COPC 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.
- COPC signage will comply with 19.15.3.103 NMAC when COPC is the operator.
 If COPC is not the operator it will comply with 19.15.17.11NMAC. COPC includes Emergency Contact information on all signage.
- 3. COPC has approval to use alternative fencing that provides better protection. COPC 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. COPC ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- COPC will construct a screened, expanded metal covering, on the top of the BGT.
- COPC 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.
- The COPC 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. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC 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. COPC 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.

- 9. COPC 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 COPC 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 COPC'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.
- The general specification for design and construction are attached in the COPC document.

MANUAL OPERATION 1) PRODUCTION TANKS DRAINLINE 2) SWABLINE DRAIN LINE 3) ENVIROMENTAL DRAIN LINE FROM COMPRESSOR SKID DRAIN FROM **SEPARATORS** AUTOMATED OPERATION 1) VENT VALVE DRAIN LINE 2) DUMP LINE FROM SEPARATORS SWABLINE 3) AUTOMATIC SHUT OFF LSHH ACTIVATES AT 10' FROM TOP OF TANK VENT LINE ENVIROMENTAL DRAIN LINE 3' TRUCK LOADOUT CONNECTION SLOPE TO DRAIN TRUCK GROUND CONNECTION TO RTU + EXPANDED METAL COVER TO RTU = DRAIN LINES LSHH Ш FROM TANKS HINGED MANWAY 3" TRUCK LOAD LINE DRIGINAL GRADE CORROGATED RETAINING WALL HEIGHT 56" 4" SLUTTED. SA-36 "SUPER MUFFLER" 3/16" PLATE SA-36 1/4" PLATE **DURASKRIM J45** IMPERMEABLE LINER FOR VISIBLE LEAK DETECTION PROPERLY CONSTRUCTED

ConocoPhillips

FOUNDATION VOID OF ANY SHARP OBJECTS

San Juan Business Unit

PRODUCED WATER PIT TANK
OPEN TOP GRAVITY FLOW TANK
INTERNALLY COATED WITH
12-14 MILS AMERON AMERCOAT 385

DURA-SKRIM®

130, 136 & 145

PROPERTIES	TEST METHOD	J3	0B B	13	688	J4	45B B
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical R Average
Appearance		Blac	ck/Black	Blace	k/Black	Blac	ck/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		**Extr	rusion laminated	with encapsula	ated tri-direction	nal scrim reinfo	rcement
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
1ª Tensila 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 M 105 lbf Di
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
Trapezoid 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
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
Aaximum Use Temperature		180° F					
Minimum Use Temperature		-70° F					

MD = Machine Direction DD = Diagonal Directions



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 hability 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 **300-635-3456**



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.

ConocoPhillips Company 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 ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

- COPC 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.
 COPC 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. COPC will not discharge into or store any hazardous waste in the BGT.
- 3. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC 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, COPC 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, COPC's multiskilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, COPC 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.
- COPC 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 COPC shall remove all liquid above the damage or leak line within 48 hours. COPC shall notify the appropriate district office. COPC 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, COPC shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. COPC 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.

OCD Aztec District III Conoco Phillips/Burlington Checklist Below Grade Tank Registration

19.15.17.9 Permit application	
Signed C-144 (Page 5 of C-144)	
✓ Site Specific Hydrogeology	
19.15.17.10 Siting requirements	
New Mexico Office of State Engineer attachment	
USGS TOPO map	
Aerial Map	
Mines, Mills and Quarries Web Map	
FIRM map (flood insurance rate map from Federal Emergency Manager	ment Agency)
The state of the s	Herit in Periol)
19.15.17.11 Design Plan Contents	
Below Grade Tank Design and Construction Plan.	
19.15.17.12 Operating and Maintenance Plan	
Below Grade Tank Operating and Maintenance Plan	
19.15.17.13 Closure Plan	
Below Grade Tank Closure Plan	
Requirements: Missing Closuse Plan	
requirements: MESSING Closure Han	
Registration Date: 2/15/2016	