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July 21, 2008

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

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.

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

Type of action:	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
BGT 1	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 operation environment. Nor does approval relieve the operator of its responsibility to comply with any other applications.	
Operator: ConocoPhillips Company Address: PO Box 4289, Farmington, NM 87499	OGRID#: 217817
Facility or well name: MADDOX WN FEDERAL 4	
API Number: 3004509312 OCD Permit Nur	mber:
U/L or Qtr/Qtr: M Section: 24 Township: 30N Range:	13W County: San Juan
Center of Proposed Design: Latitude: 36.7942380°N Longitude:	-108.1618550°W NAD: X 1927 1983
Surface Owner: X Federal State Private Tribal Trust or Inc	
Pit: 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 String-Reinforced Liner Seams: Welded Factory Other Volume:	
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE Liner Seams: Welded Factory Other	s to activities which require prior approval of a permit or HDPE PVD Other
X Below-grade tank: Subsection I of 19.15.17.11 NMAC 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 a Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE PVC X Other	utomatic overflow shut-off Unspecified
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Envi	ironmental Bureau office for consideration of approval.

Form C-144

Oil Conservation Division

12/22/2008

Page 1 of 5

eceived by OCD: 9/18/2021 12:53:25 PM		Page 2
Fencing: Subsection D of 19.15.17.11 NMAC (App. 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 ch	urch)
Four foot height, four strands of barbed wire evenly spaced between one and four feet		1
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 Other	and a large desired	Vision is new records at the d
Monthly inspections (If netting or screening is not physically feasible)		
8		
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		
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:		
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con (Fencing/BGT Liner)	nsideration of	approval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
10	T	
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits)	Yes X NA	No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	XNo
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society. Topographic map	Yes	XNo
Society; Topographic map Within a 100-year floodplain - FEMA map	Yes	XNo

Instructions: Each of the fo	ollowing items must be attached to the application. Please ina eport (Below-grade Tanks) - based upon the requirements	n Attachment Checklist: Subsection B of 19.15.17.9 NMAC licate, by a check mark in the box, that the documents are attached. s of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
		quirements of Paragraph (2) of Subsection B of 19.15.17.9
the later of the same of the s	mpliance Demonstrations - based upon the appropriate re	
	ed upon the appropriate requirements of 19.15.17.11 NM	
		s of 19.15.17.12 NMAC
19.15.17.9 NMAC	ase complete Boxes 14 through 18, if applicable) - based C and 19.15.17.13 NMAC	
Previously Approved	Design (attach copy of design) API	or Permit
Instructions: Each of the for Geologic and Hyd Siting Criteria Cou	rogeologic Data (only for on-site closure) - based upon the impliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.11 NM intenance Plan - based upon the appropriate requirement use complete Boxes 14 through 18, if applicable) - based	teate, by a check mark in the box, that the documents are attached, the requirements of Paragraph (3) of Subsection B of 19.15.17.9 and upon the appropriate requirements of 19.15.17.10 NMAC
Previously Approved	Design (attach copy of design) API	
	Operating and Maintenance Plan API	
13		
Instructions: Each of the fe	port - based upon the requirements of Paragraph (I) of Sumpliance Demonstrations - based upon the appropriate rectors Assessment ing Design Plans - based upon the appropriate requirement of Structural Integrity Design: based upon the appropriate requirements of 19.15. as and Compatibility Assessment - based upon the appropriately Assurance Construction and Installation Plan intenance Plan - based upon the appropriate requirements entopping Prevention Plan - based upon the appropriate reduces Odors, including H2S, Prevention Plan and the appropriate requirements of Subsection Plan and the appropriate requirements of Subsection C of	dicate, by a check mark in the box, that the documents are attached. absection B of 19.15.17.9 NMAC quirements of 19.15.17.10 NMAC ents of 19.15.17.11 NMAC erequirements of 19.15.17.11 NMAC oriate requirements of 19.15.17.11 NMAC eriate requirements of 19.15.17.11 NMAC equirements of 19.15.17.11 NMAC equirements of 19.15.17.11 NMAC
Proposed Closure: 19.1	5.17.13 NMAC te the applicable boxes, Boxes 14 through 18, in regards to t	he proposed closure plan.
		Permanent Pit X Below-grade Tank Closed-loop System
Proposed Closure Method:	X Waste Excavation and Removal (Below-Grad Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and	2.23
	In-place BurialOn-site Trench Alternative Closure Method (Exceptions must be sul	omitted to the Santa Fe Environmental Bureau for consideration)
Please indicate, by a check to X Protocols and Proce X Confirmation Samp X Disposal Facility Not X Soil Backfill and Column X Re-vegetation Plan	Removal Closure Plan Checklist: (19.15.17.13 NMAC) In mark in the box, that the documents are attached. Edures - based upon the appropriate requirements of 19.1 bling Plan (if applicable) - based upon the appropriate requirement Number (for liquids, drilling fluids and cover Design Specifications - based upon the appropriate requirements of Subsection lan - based upon the appropriate requirements of Subsection	uirements of Subsection F of 19.15.17.13 NMAC drill cuttings) requirements of Subsection H of 19.15.17.13 NMAC I of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground St Instructions: Please identify the facility or facilities for the disposal of liquids, drillin	eel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) g fluids and drill cuttings. Use attachment if more than two j	facilities	
are required.	D: 15 W. 5		
Disposal Facility Name:			
Disposal Facility Name:			
Will any of the proposed closed-loop system operations and associated activit Yes (If yes, please provide the information No		ervice and operat	tions?
Required for impacted areas which will not be used for future service and operations Soil Backfill and Cover Design Specification - based upon the appropriate of the service and operations.		C	
Re-vegetation Plan - based upon the appropriate requirements of Subse			
Site Reclamation Plan - based upon the appropraite requirements of Su	absection G of 19.15.17.13 NMAC		
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMA Instructions: Each sting criteria requires a demonstration of compliance in the closure plan. certain siting criteria may require administrative approval from the appropriate district office for consideration of approval. Justifications and/or demonstrations of equivalency are required.	Recommendations of acceptable source material are provided belt or may be considered an exception which must be submitted to the	ow. Requests regardi Santa Fe Environme	ing changes to ntal Bureau office
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS: Data ob	tained from nearby wells	Yes N/A	No
Ground water is between 50 and 100 feet below the bottom of the buried wast		☐Yes [No
NM Office of the State Engineer - iWATERS database search; USGS; Data obt			
Ground water is more than 100 feet below the bottom of the buried waste.	•		¬No
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained waster.	ained from nearby wells	Yes [No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signif			٦.,
(measured from the ordinary high-water mark).	icani watercourse or lakebed, sinkhole, or playa lake	Yes	No
- Topographic map; Visual inspection (certification) of the proposed site			
Within 300 feet from a permanent residence, school, hospital, institution, or church in		Yes [No
Visual inspection (certification) of the proposed site; Aerial photo; satellite image	e	Yes	No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less th purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exis - NM Office of the State Engineer - iWATERS database; Visual inspection (certifi	tence at the time of the initial application.		
Within incorporated municipal boundaries or within a defined municipal fresh water v pursuant to NMSA 1978, Section 3-27-3, as amended.	well field covered under a municipal ordinance adopted	Yes	No
Written confirmation or verification from the municipality; Written approval obt Within 500 feet of a wetland	tained from the municipality		٦
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual insp	pection (certification) of the proposed site	Yes	_No
Within the area overlying a subsurface mine.		Yes	No
- Written confiramtion or verification or map from the NM EMNRD-Mining and !	Mineral Division		
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & M	ineral Pescurges: USGS: NM Coological Society	Yes	No
Topographic map	meral resources, 0303, Nivi Geological Society;		
Within a 100-year floodplain.		Yes	No
- FEMA map 18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each	of the following items must bee attached to the closur	e plan. Please in	dicate.
by a check mark in the box, that the documents are attached.			
Siting Criteria Compliance Demonstrations - based upon the appropriate			
Proof of Surface Owner Notice - based upon the appropriate requirement			-
Construction/Design Plan of Burial Trench (if applicable) based upon the			
Construction/Design Plan of Temporary Pit (for in place burial of a dryi Protocols and Procedures - based upon the appropriate requirements of		.15.17.11 NMAC	
Confirmation Sampling Plan (if applicable) - based upon the appropriate			
Waste Material Sampling Plan - based upon the appropriate requiremen			
Disposal Facility Name and Permit Number (for liquids, drilling fluids a		not be achieved)	
Soil Cover Design - based upon the appropriate requirements of Subsect	tion H of 19.15.17.13 NMAC		
Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Pl			
She Recialitation Fian - based upon the appropriate requirements of Sub	Section G 01 19.15.17.13 NMAC		

19		
Operator Application	on Certification:	
		arate and complete to the best of my knowledge and belief.
Name (Print):	Crystal Tafoya	Title: Regulatory Technician
	1 2-1-1-	
Signature:	and alabo	Date: 12/22/2008
e-mail address:	- crystal.tafloya@conocophillips.com	Telephone:505-326-9837
20		
	Permit Application (including closure plan)	Closure Plan (only) OCD Conditions (see attachment)
OCD Representativ	e Signature: CRWhitehead	O-t-b4 0004
OCD Representativ	e signature: Rewnitchied	Approval Date: October 1, 2021
Title: Enviro	onmental Specialist	OCD Permit Number: BGT 1
21 Cl. D		
	uired within 60 days of closure completion): Substance required to obtain an approved closure plan prior to	section K of 19.15.17.13 NMAC to implementing any closure activities and submitting the closure report. The closure
		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 co	ompleted.
		Closure Completion Date:
22		
22 Closure Method:		
	on and Removal On-site Closure Method	Alternative Closure Method Waste Removal (Closed-loop systems only)
	a approved plan, please explain.	
	approved plant plant explain.	
23	dias Wasta Barraral Classes For Classed Inc. Sections	The Million About Country of the Land of t
		s That Utilize Above Ground Steel Tanks or Haul-off Bins Only: ling fluids and drill cuttings were disposed. Use attachment if more than two facilities
vere utilized.	may me facinity or facilities for where the aquas, area	ung fiands and a in cuttings were disposed. Ose anachment if more than two facilities
Disposal Facility Na	me:	Disposal Facility Permit Number:
Disposal Facility Na	me:	Disposal Facility Permit Number:
Were the closed-loo	p system operations and associated activities performed of	on or in areas that will not be used for future service and opeartions?
Yes (If yes, plea	ise demonstrate complilane to the items below)	No
Required for impact	ed areas which will not be used for future service and op	perations:
Site Reclamation	n (Photo Documentation)	
	and Cover Installation	
Re-vegetation A	pplication Rates and Seeding Technique	
24		
		owing items must be attached to the closure report. Please indicate, by a check mark in
The second secon	ruments are attached.	
	re Notice (surface owner and division) Notice (required for on-site closure)	
	on-site closures and temporary pits)	
	• • •	
=	Sampling Analytical Results (if applicable)	
=	Sampling Analytical Results (if applicable)	
= .	ty Name and Permit Number	
	g and Cover Installation	
_	Application Rates and Seeding Technique	
	on (Photo Documentation)	
On-site Closur	e Location: Latitude:	Longitude:NAD
25		
Operator Closure Co		
		report is ture, accurate and complete to the best of my knowledge and belief. I also certify that
e ctosure complies wit	h all applicable closure requirements and conditions spe	ecified in the approved closure plan.
ame (Print):		Title:
ignature:		Date:
-mail address:		Telephone:

Oil Conservation Division

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New Mexico Office of the State Engineer POD Reports and Downloads

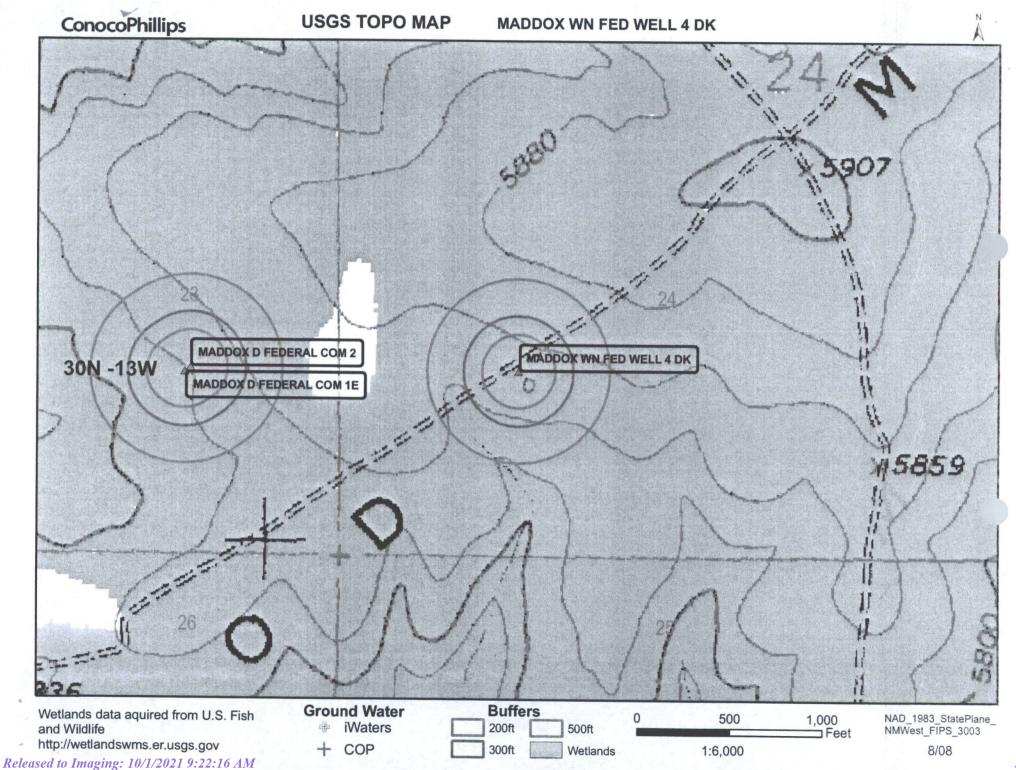
NAD27	X: [Y:	Zone:	*	Search Rac	dius:	
County:	¥	Basin:	Y	Num	ber:	Suffix:	Sentotorico.
Owner Name: (Fire	st)	(La	st)	- (Non-Domes	tic C Domestic 6	All
POD / Surfac	e Data	Report	Avg Depth to Water	Report	· J	Vater Column Report	

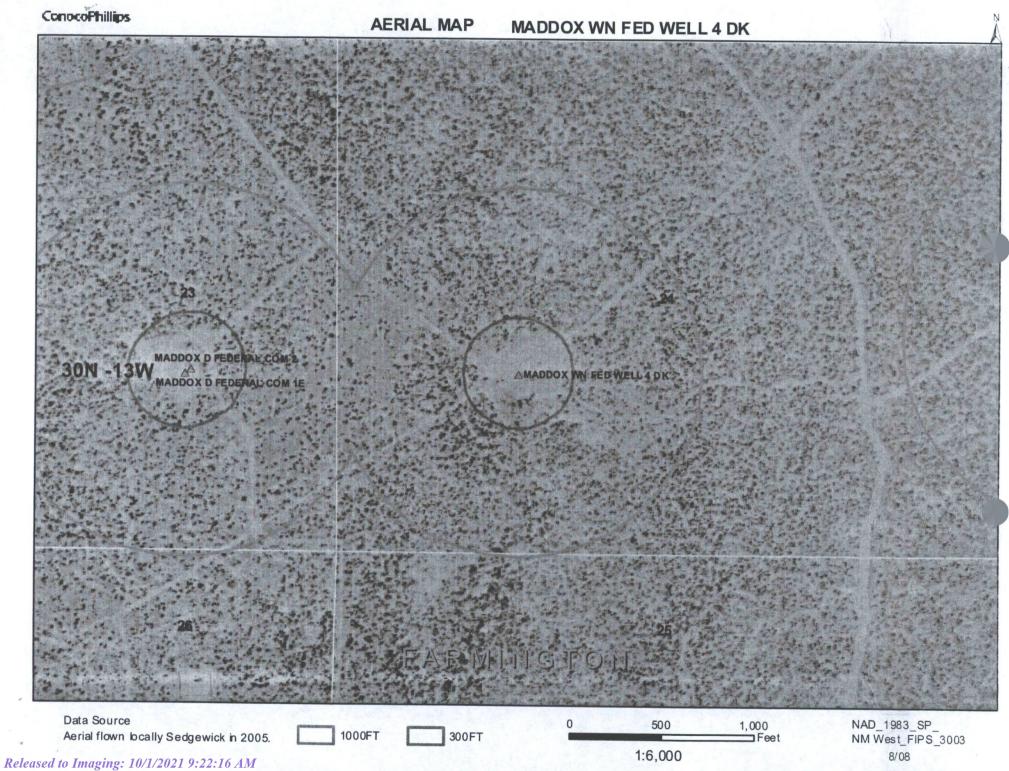
WATER COLUMN REPORT 08/21/2008

_							3=SW 4=SE)						
(đư	arter	s are	e bi	gge	est	t to	smallest)			Depth	Depth	Water	(in
POD Number	Tws	Rng	Sec	q	q	Q	Zone	x	Y	Well	Water	Column	
RG 22431	30N	13W	30	2						100	45	55	
SJ 01344	30N	13W	01	4	1	2				42	27	15	
SJ 03283	30N	13W	05	2	4	2				20	8	12	
SJ 00132	30N	13W	05	3	4	4				100	46	54	
SJ 01101	30N	13W	08	1						41	26	15	
SJ 03326	30N	13W		1	3	3				55	30	25	
SJ 00328	30N	13W	80	2						33	21	12	
SJ 02268	30N	13W	80	2						30	21	9	-
SJ 01463	30N	13W	08	2						52	30	22	
SJ 00877	30N	13W	80	2						60	30	30	
SJ 00293	30N	13W	08	2						50	30	20	
SJ 00855	30N	13W	08	2						50	25	25	
SJ 01068	30N	13W	08	2	1					53	28	25	
SJ 02326	30N	13W	80	2	1	3				42	35	7	
SJ 02735	30N	13W	08	2	3	4				43	23	20	
SJ 00587	30N	13W	80	3	4	2				72	48	24	
SJ 03195	30N	13W	80			1				60	35	25	
SJ 03328	30N	13W	08	_		1				60			
SJ 03196	30N	13W	08		1	2				41	20	21	
SJ 03160	30N	13W	08		_	4				60	8	52	
SJ 00374	30N	13W	08		2						56		
SJ 02919	30N	13W	08			4				45			
SJ 02397	30N	13W	08	4	4					31	15	16	
SJ 02396	30N	13W	08	4	4					30	10	20	
SJ 02823	30N	13W	80	4	4	3				40			
SJ 02787	30N	13W	09	1	3	1				235	140	95	
SJ 00818	30N	13W	09	3	1					130	32	98	
SJ 02725	30N	13W	09	3	1	1				110	100	10	
SJ 02647	30N	13W	11	4	3	4				76	58	18	
SJ 02943	30N	13W		2	1	2				60			
SJ 03029	30N	13W		2	2	1				65	45	20	
SJ 03017	30N	13W		2		2				37	20	17	

SJ	02574	30N	13W	1 17	2	4	4		*	
SJ	01736	30N	13W	26	1	4	3			
SJ	01119	30N	13W	26	1	4	4			
SJ	01454	30N	13W	26	3		1			
SJ	01117	30N	13W	26	3	1	4			
SJ	02225	30N	13W	26	3	2	2			
SJ	01895	30N	13W	26	3	2	4			
SJ	01181	30N	13W	26	3	3	3			
SJ	01503	30N	13W	26	4	2	2			
SJ	02674	30N	13W	27	3	4	4			
SJ	00992	30N	13W	28	2	Proof.	book			
SJ	00992 CLW303071	30N	13W	28	2	T	2			
SJ	00868	30N	13W	29	2					
SJ	00262	30N	13W	29	2					
SJ	01357	30N	13W	29	2	2				
SJ	01040	30N	13W	29	2	2				
SJ	03046	30N	13W	29	2	2	4			
	01502	30N	13W	29	4					
SJ	00448	30N	13W	29	4					
SJ	00215	30N	13W	29	4	3				
-	02159	30N	13W	29	4	3				
SJ	02754	30N	13W	29	4	4	4			
-	00467	30N	13W	30	4	4				
SJ	01150	30N	13W	32	1	4				
SJ	00156	30N	13W	32	3					
-	00217	30N	13W	32	3					
-	01359	30N	13W	32	3	1				
SJ	02391	30N	13W	35	1	1	1			

Record Count: 60

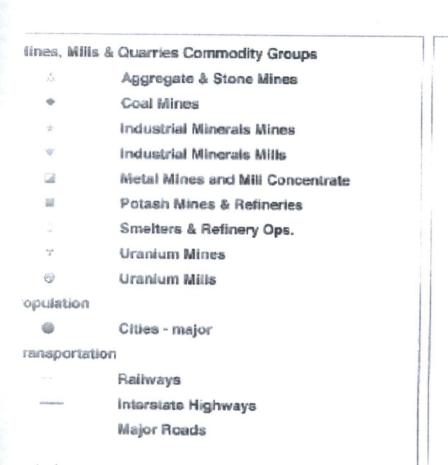


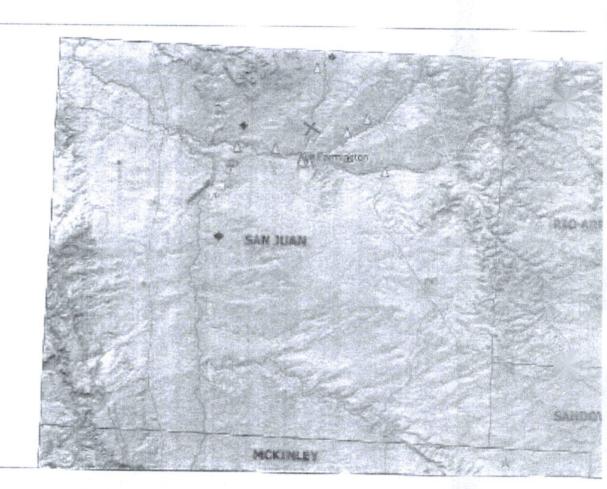


Mines, Mills and Quarries Web Map

MADDOX WN FED WELL 4 DK

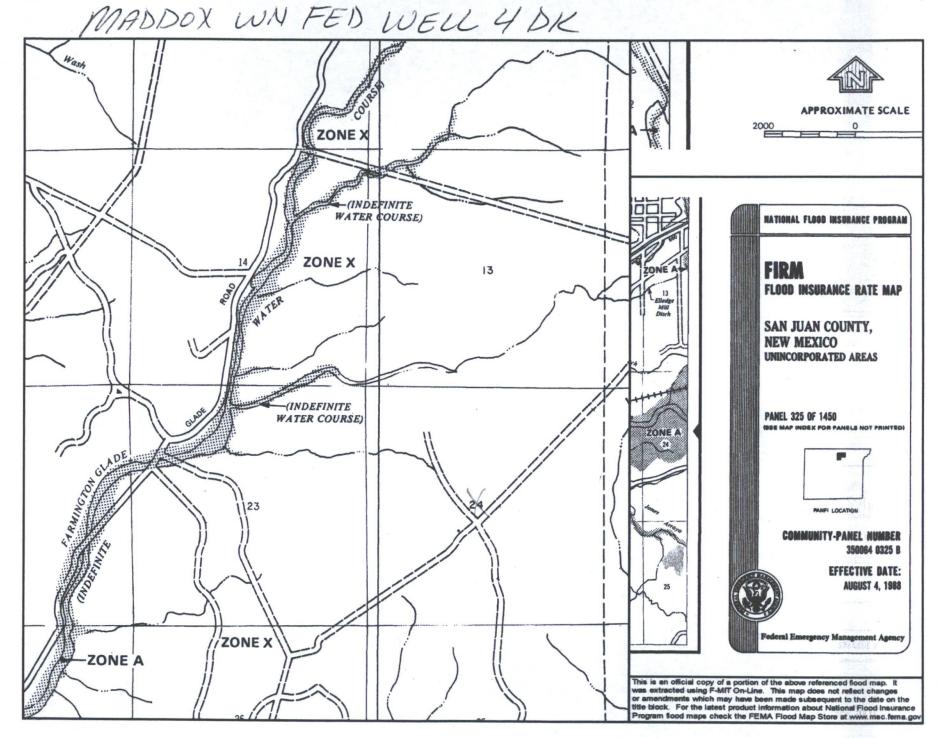
Unit Letter: , Section: 24, Town: 30N, Range: 13W











MADDOX WN FED WELL 4DK

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'MADDOX WN FED WELL 4 DK', which is located at 36.794238 degrees North latitude and 108.161855 degrees West longitude. This location is located on the Farmington North 7.5' USGS topographic quadrangle. This location is in section 24 of Township 30 North Range 13 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 Farmington, located 4.8 miles to the southwest. The nearest large town (population greater than 10,000) is Farmington, located 4.8 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 2.0 miles to the southeast. The location is on BLM land and is 1,535 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Middle San Juan. Arizona, Colorado, New Mexico, Sub-basin. This location is located 1786 meters or 5858 feet above sea level and receives 10.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Mixed Bedrock Canyon and Tableland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 335 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 562 feet to the southwest and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4,516 feet to the north. The nearest water body is 9,369 feet to the southeast. It is classified by the USGS as an perennial lake and is 0.6 acres in size. The nearest spring is 7,505 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 3,186 feet to the north. The nearest wetland is a 7.0 acre Freshwater Forested/Shrub Wetland located 12,878 feet to the southeast. The slope at this location is 4 degrees to the south 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 'Farb-Persayo-Rock outcrop complex, moderately steep' and is excessively drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 9.0 miles to the southwest 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 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 (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.
- 5. 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.
- 6. 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.
- 11. The general specification for design and construction are attached in the COPC document.

DRAIN FROM SEPARATORS

SWABLINE

VENT LINE

ENVIROMENTAL DRAIN LINE

DRAIN LINES FROM TANKS

TO RTU 5-

TO RTU -

LAHH

П

LSHH

ANUAL OPERATION

- 1) PRODUCTION TANKS DRAINLINE
- 2) SWABLINE DRAIN LINE
- 3) ENVIROMENTAL DRAIN LINE FROM COMPRESSOR SKID

AUTOMATED OPERATION

1) VENT VALVE DRAIN LINE

EXPANDED METAL COVER

- 2) DUMP LINE FROM SEPARATORS
- 3) AUTOMATIC SHUT OFF LSHH ACTIVATES AT 10' FROM TOP OF TANK

3" TRUCK LOADOUT CONNECTION
SLOPE TO DRAIN
TRUCK GROUND CONNECTION

HINGED MANWAY 3" TRUCK LUAD LINE DRIGINAL GRADE CORROGATED RETAINING WALL 4" SLOTTED HEIGHT 56" 'SUPER MUFFLER' SA-36 3/16" PLATE SA-36 1/4" PLATE DURASKRIM J45 **IMPERMEABLE** LINER FOR VISIBLE LEAK DETECTION

ConocoPhillips

PROPERLY
CONSTRUCTED
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®

190, 136 & 145

PROPERTIES	TEST METHOD	J	30B B	J3	6BB	J4	5BB*
1,127		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages
Appearance		Blac	ck/Black	Blac	k/Black	Black	k/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
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
Maximum 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 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

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.
- 5. 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.

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

General Requirements:

- 1. COPC 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, COPC will file the C144 Closure Report as required.
- 2. COPC 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.
- COPC 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.
- If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.
- 5. COPC shall test the soils beneath the below-grade tank to determine whether a release has occurred. COPC 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 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. COPC shall notify the division of its results on form C-141.

- 6. If COPC or the division determines that a release has occurred, then COPC shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.
- 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 COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. 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 COPC'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. COPC 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 (unimpacted) 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. COPC 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 belowgrade 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

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS

Action 49934

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	49934
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

QUESTIONS

Facility and Ground Water	
Please answer as many of these questions as possible in this group. More information will help us	identify the appropriate associations in the system.
Facility or Site Name	Not answered.
Facility ID (f#), if known	Not answered.
Facility Type	Below Grade Tank - (BGT)
Well Name, include well number	Not answered.
Well API, if associated with a well	Not answered.
Pit / Tank Type	Not answered.
Pit / Tank Name or Identifier	Not answered.
Pit / Tank Opened Date, if known	Not answered.
Pit / Tank Dimensions, Length (ft)	Not answered.
Pit / Tank Dimensions, Width or Diameter (ft)	Not answered.
Pit / Tank Dimensions, Depth (ft)	Not answered.
Ground Water Depth (ft)	Not answered.
Ground Water Impact	Not answered.
Ground Water Quality (TDS)	Not answered.

Below-Grade Tank		
Subsection I of 19.15.17.11 NMAC		
Volume / Capacity (bbls)	Not answered.	
Type of Fluid	Not answered.	
Pit / Tank Construction Material	Not answered.	
Secondary containment with leak detection	Not answered.	
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Not answered.	
Visible sidewalls and liner	Not answered.	
Visible sidewalls only	Not answered.	
Tank installed prior to June 18. 2008	Not answered.	
Other, Visible Notation. Please specify	Not answered.	
Liner Thickness (mil)	Not answered.	
HDPE (Liner Type)	Not answered.	
PVC (Liner Type)	Not answered.	
Other, Liner Type. Please specify (Variance Required)	Not answered.	

Fencing	
Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)	Not answered.
Four foot height, four strands of barbed wire evenly spaced between one and four feet	Not answered.
Alternate, Fencing. Please specify (Variance Required)	Not answered.

Netting		
Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		
Screen	Not answered.	
Netting	Not answered.	
Other, Netting. Please specify (Variance May Be Needed)	Not answered.	

Signs

Subsection C of 19.15.17.11 NMAC (If there are multiple operators at a site, each operator must have their own sign in compliance with Subsection C of 19.15.17.11 NMAC.)

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	Not answered.
Signed in compliance with 19.15.16.8 NMAC	Not answered.

Variances and Exceptions	
Justifications and/or demonstrations ofequivalency 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:	
Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	Not answered.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	Not answered.

Siting Criteria (regarding permitting)

19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

Siting Criteria, General Siting		
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	Not answered.	
NM Office of the State Engineer - iWATERS database search	Not answered.	
USGS	Not answered.	
Data obtained from nearby wells	Not answered.	

Siting Criteria, Below Grade Tanks		
Within 100 feet of a continuously flowing watercourse, significant watercourse, lakebed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark)	Not answered.	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption	Not answered.	

Proposed Closure Method	
Below-grade Tank	Below Grade Tank - (BGT)
Waste Excavation and Removal	Not answered.
Alternate Closure Method. Please specify (Variance Required)	Not answered.

Operator Application Certification	
Registered / Signature Date	Not answered.

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

ACKNOWLEDGMENTS

Action 49934

ACKNOWLEDGMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	49934
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

ACKNOWLEDGMENTS

14	I acknowledge that I have received prior approval from the OCD to submit documentation of a legacy below-grade tank on behalf of my operator.
₩.	I hereby certify that the information submitted with this documentation is true, accurate and complete to the best of my knowledge and belief.

District III

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 49934

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Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	49934
	Action Type:
	[C-144] Legacy Below Grade Tank Plan (C-144LB)

CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	10/1/2021