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

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-144 July 21, 2008

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

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	10,1111 07505	Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
Pit	, Closed-Loop System, Below-Grad	e Tank or
Floposed A	Alternative Method Permit or Closur	e Plan Application
Type of action: $X$	Permit of a pit, closed-loop system, below-grade to Closure of a pit, closed-loop system, below-grade	ank, or proposed alternative method
BGT 1 ☐ □	Closure plan only submitted for an existing permit below-grade tank, or proposed alternative method	ted or non-permitted pit, closed-loop system,
Instructions: Please submit one applica-	ation (Form C-144) per individual pit closed less	p system, below-grade tank or alternative request
Please be advised that approval of this re environment. Nor does approval relieve the	quest does not relieve the operator of liability should operations resoperator of its responsibility to comply with any other applicable g	p system, below-grade tank or alternative request sult in pollution of surface water, ground water or the overnmental authority's rules, regulations or ordinances.
Operator: ConocoPhillips Company		OGRID#: 217817
Address: PO Box 4289, Farmington, NN	1 87499	21/01/
Facility or well name: MAXEY 1		
API Number:	8094 OCD Permit Number:	
U/L or Qtr/Qtr: B Section: Center of Proposed Design: Latitude: Curface Owner: X Federal	24         Township:         29N         Range:         12           36.715469°N         Longitude:           State         Private         Tribal Trust or Indian A	-108.04672°W NAD: X 1927 1983
Pit: Subsection F or G of 19.15.17.11 NM  Temporary: Drilling Workover  Permanent Emergency Cavitation  Lined Unlined Liner type:  String-Reinforced  Liner Seams: Welded Factory	P&A Thickness mil LLDPE HD	PE PVC Other
T	Combo D v v mov	vities which require prior approval of a permit or
Lined Unlined Liner type:  Liner Seams: Welded Factory	Thickness milLLDPEHDPE	E PVD Other
Secondary containment with leak detection  Visible sidewalls and liner  Visi	17.11 NMAC  ype of fluid: Produced Water  Metal  X Visible sidewalls, liner, 6-inch lift and automatic ble sidewalls only Other	c overflow shut-off
iner Type: Thicknessmil	HDPE PVC X Other Unspec	cified
Alternative Method		

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Form C-144

Oil Conservation Division

Page 1 of 5

6								
Fencing: Subsection D of 19.15.17.11 NMACpplies to permanent pit, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)  Four foot height, four strands of barbed wire evenly spaced between energed for formula in the school of the sc								
spaced between one and four feet	an, manual or church)							
X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.								
7								
Netting: Subsection E of 19.15.17.11 NMAC (Applicate page)	Commence of the second of the second							
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)   X   Screen								
- Other								
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								
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.								
rease theth 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 (Fencing/BGT Liner)								
(Fencing/BGT Liner)  (Fencing/BGT Liner)	consideration of approval.							
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.								
10								
Siting Criteria (regarding permitting): 19.15.17.10 NMAC								
Instructions: The applicant must demonstrate compliance for								
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 Section Section 2.								
appropriate district office or may be considered an execution to the state of the district office or may be considered an execution to the								
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.								
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								
lake (measured from the ordinary high-water mark).	Yes X No							
- Topographic map; Visual inspection (certification) of the proposed site								
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes X No							
(Applies to temporary, emergency, or cavitation pits and helow-grade tanks)								
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	∐NA							
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.								
(Applied to permanent pits)	Yes No							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA							
Within 500 horizonal feet of a private democia frush water at 1								
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 with the N. T								
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes X No							
Written confirmation or verification from the municipality; Written approval obtained from the municipality  Within 500 feet of a westland	I I I I I I I I I I I I I I I I I I I							
The state of a retiant.								
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes X No							
and area overlying a subsurface mine.								
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes X No							
Within an unstable area.								
- Engineering measures incorporated into the design: NM Bureau of Geology & Minary D	Yes X No							
Within a 100-year floodplain								
- FEMA map	Yes X No							

Temporory Dita E-	
Instructions: Each of the	regency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
X Hydrogeologic	following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Report (Below-grade Tanks) - based upon the requirement of B.
Hydrogeologic l	Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Compliance Demonstrations - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria C	Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - ba	ised upon the appropriate requirements of 19.15.17.10 NMAC
X Operating and M	laintenance Plan based was at the
X Closure Plan (Pl	faintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Crosure I lan (I I	ease complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of
	Design (attach copy of design) API
12	or Permit
Closed-loop Systems F Instructions: Each of the f Geologic and Hyd Siting Criteria Co Design Plan - bas Operating and Mi Closure Plan (Pleton NMAC and 19.15 Previously Approved	Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC collowing items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. In the properties of Paragraph (3) of Subsection B of 19.15.17.9 compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC continuous properties requirements of 19.15.17.11 NMAC complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of 19.15.17.12 NMAC complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 Design (attach copy of design)  API Operating and Maintenance Plan API
13	API
	Application Charlelists Coloris Davids
Instructions: Each of the fo	Application Checklist: Subsection B of 19.15.17.9 NMAC
Hydrogeologic Re	ollowing items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Siting Criteria Con	port - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC
Climatological Fac	repliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
	ng Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
	a addition integrally Design, based into the consequence
Liner Specification	s and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Qu	ality Assurance Construction and Installation Plan
Deraung and Mair	Itenance Plan - based upon the appropriate requirement
	topping I tevention right - naced into the appropriate
Prince of the Pr	Total, melading 1123, Flevention Plan
Emergency Respons	te Plan
Oil Field Waste Stre	am Characterization
Monitoring and Insp	ection Plan
Erosion Control Plan	
Closure Plan - based	upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14	
Proposed Closure: 19.15.	17.13 NMAC
Type: Delli D	the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Drining Wol	rkover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Alternative	
roposed 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)
5	
Vaste Excavation and Ren	noval Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
Protocol	rk in the box, that the documents are attached.
A Protocols and Procedu	res - based upon the appropriate requirements of 10.15.17.13.20.51.7
Commination Samplin	g Plan (II applicable) - based upon the appropriate
X Disposal Facility Nam	e and Permit Number (for liquids, drilling fluids and drill cuttings)
- Sur Bucklin and Cove	Design Specifications - based upon the appropriate requirements of S. I.
X Site Reclamation Plan	- based upon the appropriate requirements of Subsection C of 10.17.17 NMAC
Site Reclamation Plan	- based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16	
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NM/	
are required.	two facilities
Disposal Facility Name:  Disposal Facility Name:  Disposal Facility Permit #:	
Disposal Facility Name:	
Disposal Facility Name:    Disposal Facility Permit #:	an or the same of
Yes (If yes, please provide the information No	are service and operations?
Required for impacted areas which will not be used for future coming and	
Soli Backilli and Cover Design Specification - based upon the	MAG
Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 N  Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	MAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	
17 Siting Criterio (Percedia)	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure in the c	
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance	below. Requests regarding changes to
temonstratums of equivalency are required. Please refer to 19.15.17.10 NMAC for suidance	the Santa Fe Environmental 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 obtained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried waste	□N/A
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste.	N/A
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 300 fact of a variety by 200 database scarch; USGS; Data obtained from nearby wells	□ N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school becomed in vivo	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes No
, Terrai photo, satellite image	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring in existence at the size of the siz	Yes No
purposes, or within 1000 horizontal fee of any other fresh water well or spring that less than five households use for domestic or stock watering  - NM Office of the State Engineer - iWATERS database: Visual inspection (co.):5	
- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	Yes No
Written confirmation or verification from the municipality; Written approval obtained from the municipality  Within 500 feet of a westered.	
of teet of a welland	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
are area overlying a substitute mine	
- Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area.	Yes No
	Tyes TNo
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society;	
Within a 100-year floodplain.	
- FEMA map	Yes No
Dr. Star Clauser Discours	
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closure ya check mark in the box, that the documents are attached.	e plan Diama's tr
Siting Criteria Compliance Demonstration	pun. Flease inaicate,
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 19.15.17.10 NMAC  Construction/Design Plan of Purick Towards and Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC  Construction/Design Plan of Temperature Discourse Plan of Temperatu	
Land of Temporary PII (for in place burial of a drying pad) based as a second	15.17 11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 19  Confirmation Sampling Plan (if analysis) - based upon the appropriate requirements of 19.15.17.13 NMAC	THE THINK
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	
and the state of Subsection E of Subsection E of Subsection E of the section E	
- spoon racing wante and remut Number (for liquids drilling fluids and drill and	of he achieved)
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	or oc achieved)
Cubacation I Cased upon the appropriate requirements of Cubacation I Case and	
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	

Form C-144

Operator Application	Certification:			
Name (Print)	formation submitted with this application is true, ac	ccurate and complete to t	he best of my knowledge and belief	
	Crystal Tafoya	Title:	Regulatory Technician	
Signature:	anotal Tologo	Date:	12/22/2008	
e-mail address:	crystal afoya@conocophillips.com	Telephone:	505-326-9837	
20	the same of the same and the same of the s			- 100
	ermit Application (including closure plan)  gnature:  CRUhitehead		OCD Conditions (see attachment)  Approval Date: September 29, 20	
Title: Environme	ental Specialist	OCD D		_ '
		OCD Per	mit Number: BGT 1	
report is required to be subn	d within 60 days of closure completion): Sub- required to obtain an approved closure plan prior in hitted to the division within 60 days of the completi- een obtained and the closure activities have been c	to implementing any clos	C sure activities and submitting the closure report. The closure es. Please do not complete this section of the form until an	
		Closur	e Completion Date:	
Closure Method:  Waste Excavation an  If different from appr	d Removal On-site Closure Method oved plan, please explain.	Alternative Closure	Method Waste Removal (Closed-loop systems only)	
Disposal Facility Name: Disposal Facility Name: Were the closed-loop syste Yes (If yes, please den Required for impacted area Site Reclamation (Pho	m operations and associated activities performed on nonstrate compliant to the items below)  as which will not be used for future service and operation Documentation)	Disposal Facility Disposal Facility Disposal Facility on or in areas that will no.	ngs were disposed. Use attachment if more than two facilities  Permit Number:	
Proof of Closure Notice Proof of Deed Notice	ce (surface owner and division) (required for on-site closure)	ving items must be attac	hed to the closure report. Please indicate, by a check mark in	
	closures and temporary pits)			
Waste Material Samplin	ng Analytical Results (if applicable)			
Disposal Facility Nam	ling Analytical Results (if applicable)			
Soil Backfilling and C	over Installation			
Re-vegetation Applica	tion Rates and Seeding Technique			
Site Reclamation (Pho	to Documentation)			
On-site Closure Locati	on: Latitude:	Longitude:	W. D	
			NAD 1927 1983	
rator Closure Certificate why certify that the informate osure complies with all app	ion: ion and attachments submitted with this closure rep licable closure requirements and conditions specifi	port is ture, accurate and led in the approved closu	complete to the best of my knowledge and belief. I also certify tha	at .
e (Print):		Title:		
ature:		9		
il address:		Date:		

Form C-144

Oil Conservation Division

Page 5 of 5

### New Mexico Office of the State Engineer POD Reports and Downloads

FOD Rep	orts and Downloads
Range: 12W	Sections:
NAD27 X: Y:	Zone:
County: Basin:	Search Radius:
Owner Name: (First) (Last)	Number: Suffix:
POD / Surface Data Port	Non-Domestic C Domestic All
	epth to Water Report  Water Column Report  WATERS Menu  Help
	Help Help

## WATER COLUMN REPORT 08/20/2008

	,	WATER COLUMN	REPORT	08/20/22			
2	(quarters are 1=NW (quarters are bigge	2-2		00/20/2008			
POD Number	(quarters are higgs	2=NE 3=SW 4=S	SE)				
RG 13104	Tws Rng Sec	smalles	st)				
RG 42195	29N 12W 01	q q Zone	x	Der		ToTe 4	
RG 27250	29N 12W 01 2	2 2		Y Wel	1 Water	Col	(in feet)
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RG 42665	29N 12W 02 1			10	0 40	35	
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SJ 01031	29N 12W 01 1 2	2 4		113	40	45	
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SJ 02851	29N 12W 04 2 1			180	120	60	
SJ 03293	29N 12W 04 2 1	1		. 275	172	103	
SJ 00881	29N 12W 05 1 1			180	155	25	
SJ 03528	29N 12W 06 1 2			370	310	60	•
SJ 01894	- 23N 12W 06 1 2	4		68	45	23	
SJ 01385	29N 12W 06 1 3	*		137	18	119	
SJ 03529	29N 12W 06 1 3	4		21	5	16	,
SJ 03186	_ 29N 12W 06 1 4	1		29	28	1	
SJ 01662	_ 29N 12W 06 2 1			31	4	27	
SJ 00254	- 29N 12W 06 3 3 1			21	5	16	
SJ 03205	- 23N 12W 06 3 3 3			21	8	13	
3J 01383	- 29N 12W 06 3 3 A			25 90	8	17	
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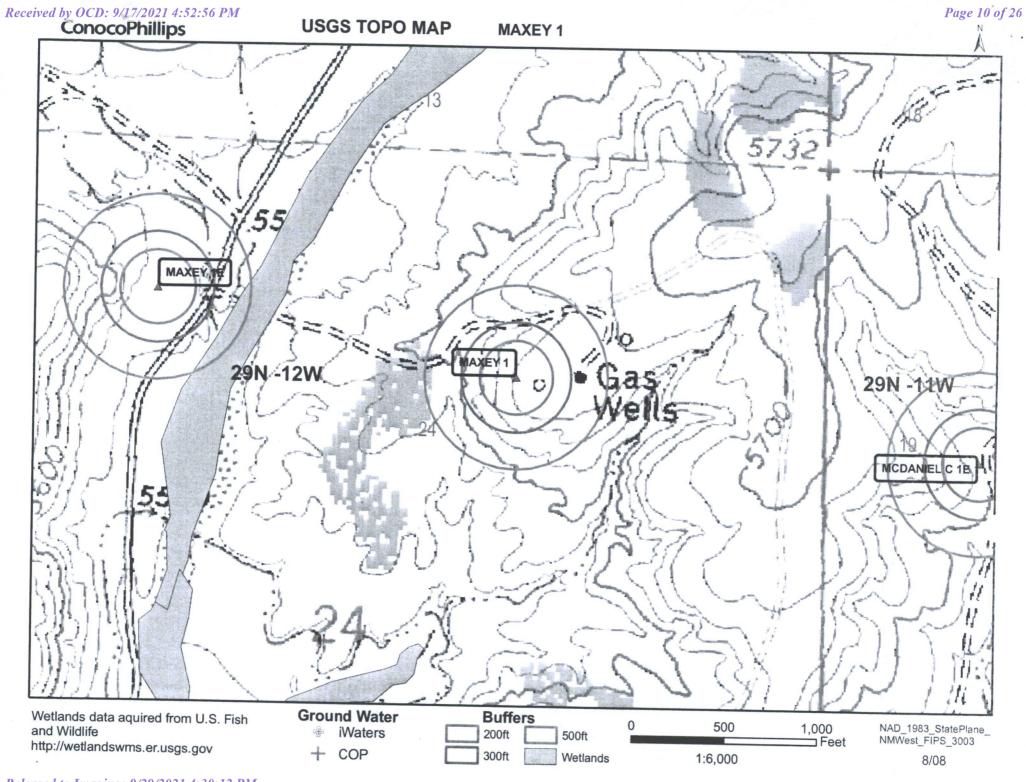
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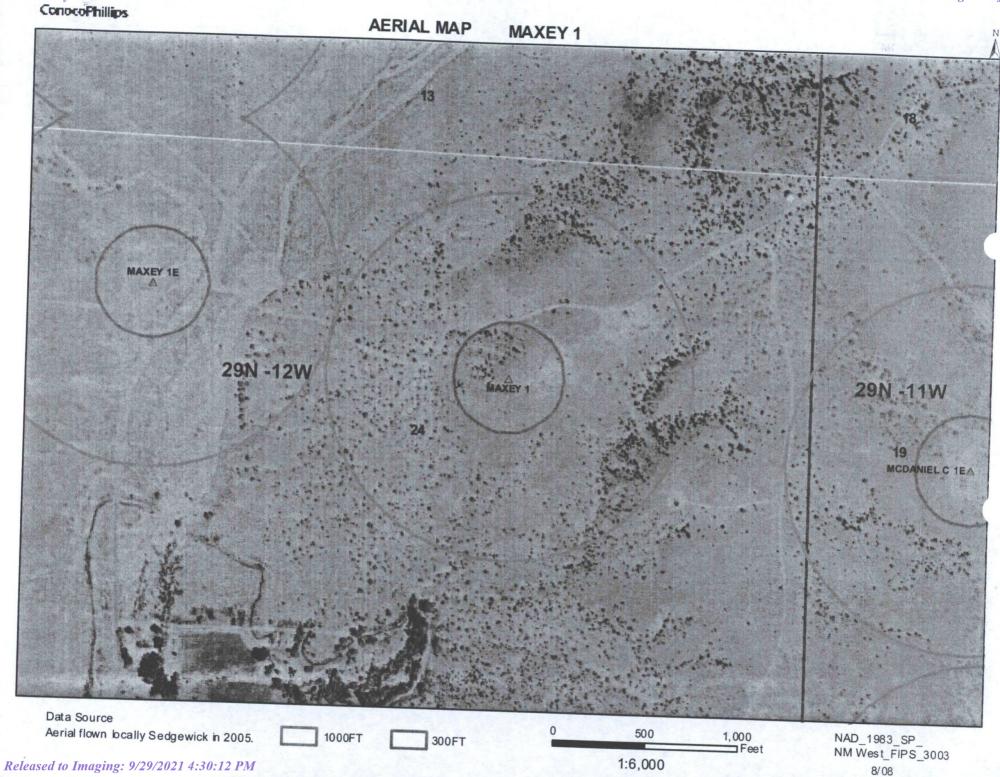
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SJ 02363	12W 20 2	3			17	24	19
SJ 01597	12W 22	3			76	5	12
SJ 02555	12W 22	2			10	40	36
SU 00400	12W 24 2				28	2	8
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DU 00030	12W 21 2 1				83	6 35	15
DU 00706	12W 25 1 1		265819		100	15	48
DU 00652	12W 25		202819	2077065	60	7.3	85
DU 01322	2- 12W 75 1				35	11	
DU 00617	12W 25 1				30	3	24
SU 01466	20 12W 25 2				80	40	27
SJ 00570	20 75 7				49	20	40
SU 03340	29N 12W 25 2 4				42	20	29
SJ 03173	29N 12W 25 3 1				42 47	20	22
SJ 03580	29N 12W 25 3 3 3				27	20 2	2
SJ 00763	IV   7767 0				36	14 2	
SJ 02132	29N 12W 25 3 4 4				45	.8	
SJ 02496 SJ 03337	1714 0-				60	2 18	
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SJ 03338	12W 26 1 4				60	1 -	
SJ 00777	12W 26 1 4				40	10	
SJ 01109	12W 26 2 4				35 12	2.0	
01194	12W 26 2 2				50 20	15	
J 01954	12W 26 2 1				50		
J 01956	12W 26 2 1 1				0		
03052	12W 26 2				7 20		
01996	12W 26 2			10	70	27	
00112	- 12W 76 3			38	1 2	30	
01326	9N 12W 26 3 2			55 50	20	26	
01802	ON 125 26 3 4			29	18	35	
00399	N 12W 26 4 2			75	15	32	
01802 000	N 12W 26 4 2			47	17	14	
291 POD1	1211 2- 24			50	26	58	
291	1 120 4 2 3			70	27	21	Home
29N	1 12W 26 4 2 3	265547	20722-	45	18	23	
3104 29N	1267 25 4 4 1	65592	2072216	34	25	52	The state of the s
3329 29N	12W 26 4 4 1		2072287	40	11	20	Patrick and American
3341 29N	12W 2C - 4			45	14	23	
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SJ 02118	29N 12W 27 1				
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SJ 02969	000-		24	7	17
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SJ 03634	_ 29N 12W 29 1 2 1		21	10	11 11
SJ 02370	_ 29N 12W 29 1 2 2 29N 12W 29 1 2 2		18	10	8
SJ 00711	00		16	5	11
SJ 00833	0.037 4.0		20	8	12
SJ 02497	0000		17	9	8
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SJ 03711 POD1	_ 29N 12W 29 1 3 3		18	3	15
SJ 01517	_ 29N 12W 29 1 4 1 _ 29N 12W 30 2 1		20	8	12
SJ 01695	0000		20	8	12
	29N 12W 30 2 2		13	4	9
					9

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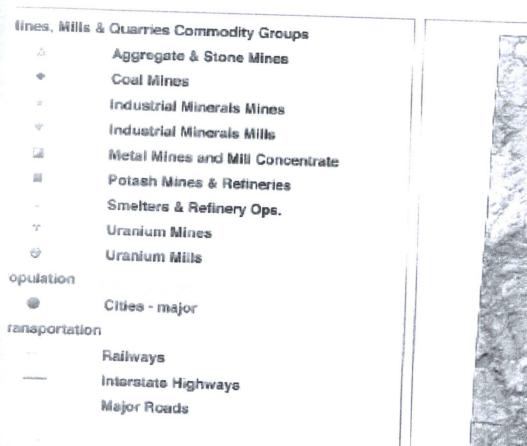


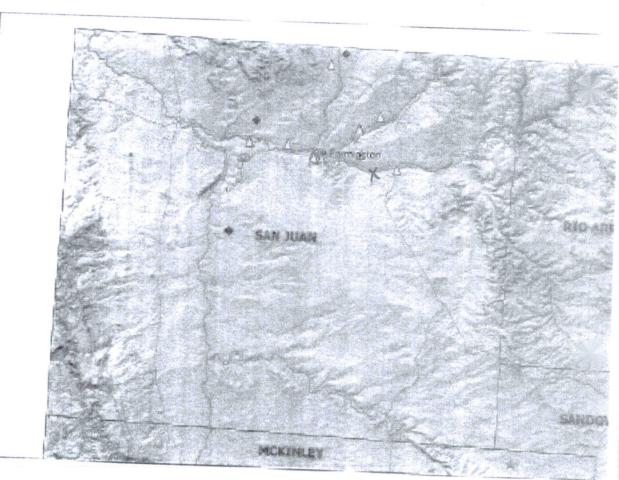


# Mines, Mills and Quarries Web Map

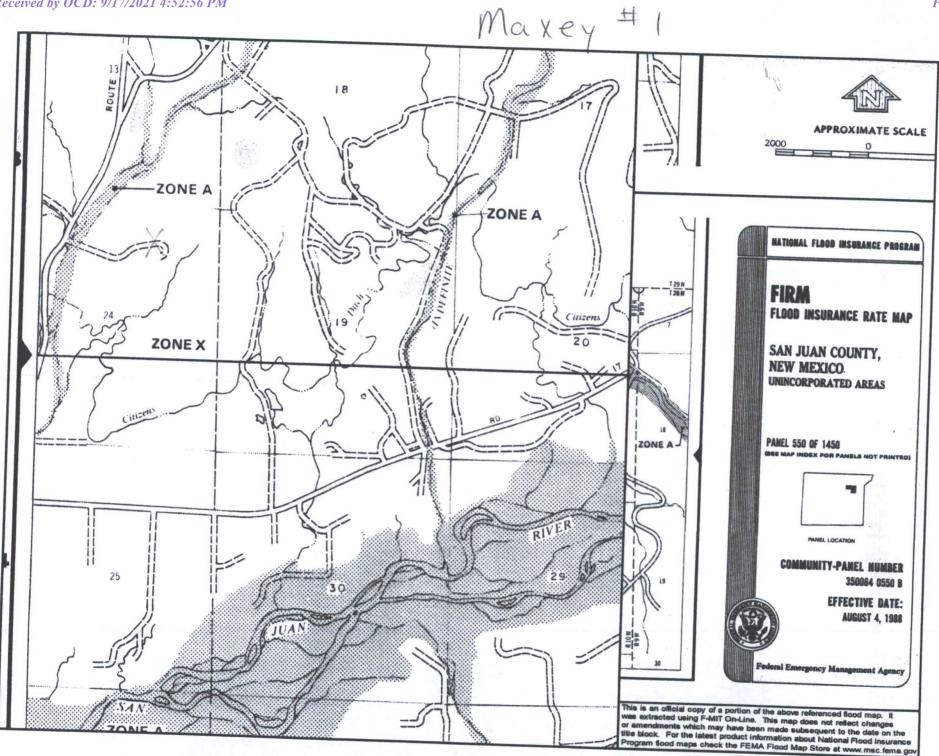
MAXEY 1

Unit Letter: B, Section: 24, Town: 029N, Range: 012W









### **MAXEY 1**

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'MAXEY 1', which is located at 36.715469 degrees North latitude and 108.04672 degrees West longitude. This location is located on the Horn Canyon 7.5' USGS topographic quadrangle. This location is in section 24 of Township 29 North Range 12 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Bloomfield, located 3.3 miles to the east. The nearest large town (population greater than 10,000) is Farmington, located 8.9 miles to the west (National Atlas). The nearest highway is US Highway 64, located 1.0 miles to the south. The location is on BLM land and is 1,469 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 1733 meters or 5684 feet above sea level and receives 9.5 inches of rain each year. The vegetation Gap Analysis Program.

The estimated depth to ground water at this point is 167 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 529 feet to the east and is classified by the USGS as an intermittent stream. The nearest perennial stream is 1,592 feet to the northwest. The nearest water body is 3,330 feet to the south. It is classified by the USGS as an perennial lake and is 0.8 acres in size. The nearest spring is 27,637 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 2,053 feet to the south. The nearest wetland is a 28.9 acre Ravine located 1,487 feet to the northwest. 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 'Haplargids-Blackston-Torriorthents complex, very steep' and is well drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 11.4 miles to the west 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

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 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 for the Animas or Nacimiento Formations is domestic and livestock supplies. There are no known aquifer tests 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

### References:

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

Brimhall, R.M., 1973, Ground-water hydrology of Tertiary rocks of the San Juan Basin, New Mexico, in 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, 525-230.

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, Stand W. L. L. G. 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.

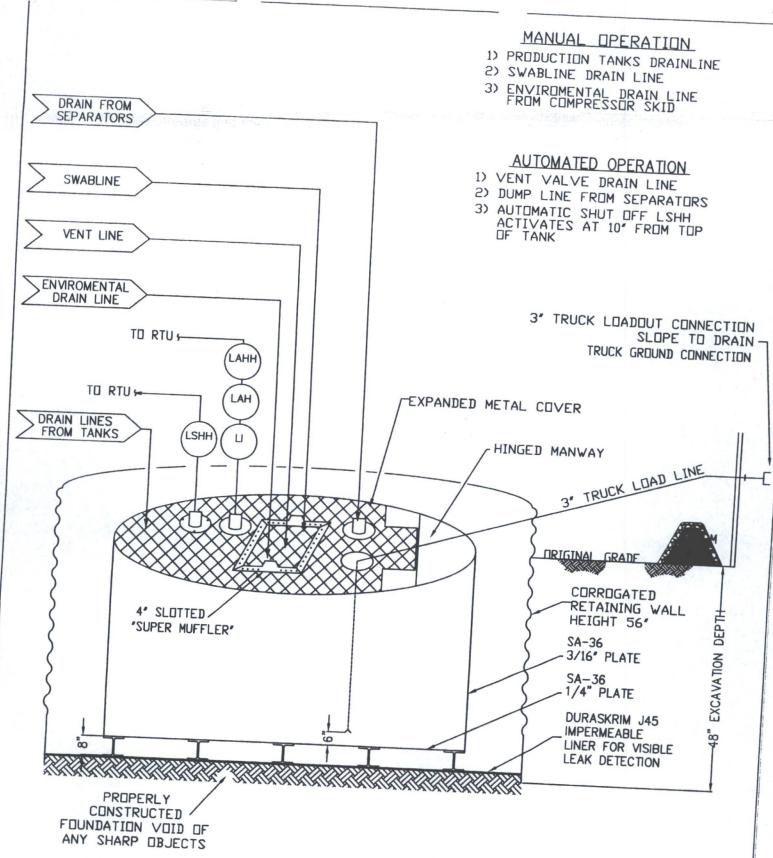
## ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

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 our compressor skids. The swab drain line is a manually operated drain and by 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.



### ConocoPhillips

San Juan Business Unit

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

## 30, 136 & 14

PROPERTIES	TEST METHO	D,	J30BB	PART THE PART OF T	J3688	THE THE PERSON	Part Elo
		Min. Roll Averages	Typical Ro Averages	II Min. Roll	Typical R	oll Min Roll	Typical Ro
Appearance		Bla	ack/Black	- Torages		s Averages	
Thickness	ASTM D 5199	27 mil		Bla	ck/Black	Bla	ck/Black
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs	30 mil	32 mil	36 mil	40 mil	45 mil
Construction	3201	(18.14)	(20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs
		**Ex	trusion laminat	ed with encapsu	lated tri di	(21.21)	(30.24)
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	10.15		onal scrim reinfo	rcement
1" Tensile Strength		00 11 (145		19 lbs	24 lbs	25 lbs	31 lbs
	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
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD	750 MD	550 MD	105 lbf DD 750 MD
1" Tensile Elongation @	ACTAL	20 MD		550 DD	750 DD	550 DD	750 DD
Peak % (Scrim Break)	ASTM D 7003	20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD
ongue 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	100 lbf MD	117 lbf MD
Grab Tensile	ACTIA D Zoo	180 lbf MD			92 lbf DD	100 lbf DD	118 lbf DD
	ASTM D 7004	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
rapezoid 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	160 lbf MD	193 lbf MD
Dimensional Stability	ASTM D 1204	<1	<0.5		172 lbf DD	160 lbf DD	191 lbf DD
uncture Resistance	ASTM D 4833	50 lbf		<1	<0.5	<1	<0.5
aximum Use Temperature		180° F	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
nimum Use Temperature			180° F	180° F	180° F	180° F	180° F
= Machine Direction = Diagonal Directions		-70° F	-70° F	-70° F	-70° F	-70° F	-70° F



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

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

### 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 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 replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is 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 alterations made by Purchaser unless Raven Industries Inc. specifically authorized, in writing, said repairs, replacement, modifications 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 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 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.

## 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.

- 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
  - 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
- 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 49913

#### **QUESTIONS**

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	49913
	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 tank	s)
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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ACKNOWLEDGMENTS

Action 49913

### **ACKNOWLEDGMENTS**

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	Action Type:
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#### **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.

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CONDITIONS

Action 49913

### **CONDITIONS**

Operator:	OGRID:
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#### CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	9/29/2021