<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico

Santa Fe, NM 87505

Form C-144 July 21, 2008

REGISTERED

rtment
ation Division
St. Francis Dr.

nd Natural Resources

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

1000 Rio Brazos Rd., Aztec, NM 87410

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 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

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 Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
dress: ConocoPhillips Company OGRID#: 217817 dress: PO Box 4289, Farmington, NM 87499 cility or well name: SAM COOLEY 1
Pl Number: 3004509671 OCD Permit Number: L or Qtr/Qtr: L Section: 9 Township: 30N Range: 11W County: San Juan nter of Proposed Design: Latitude: 36.824001°N Longitude: -108°W NAD: X 1927 1983 rface Owner: Federal State X Private Tribal Trust or Indian Allotment
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 HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other Liner Seams: Welded Factory Other
Metal Secondary containment with leak detection Visible sidewalls and liner Visible sidewalls and liner Wisible sidewalls only Other Unspecified Unspecifi
Alternative Method:

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

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.										
A flease specify 4 nog wire fencing topped with two strands barbed wire.										
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)										
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										
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.										
Please check a box if one or more of the following is requested, if not leave blank;										
Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for co (Fencing/BGT Liner)	nsideration of a	pproval.								
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.										
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of 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.	Yes	X No								
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map										
Within a 100-year floodplain - FEMA map	Yes	XNo								

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
12
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
13
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Alternative
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
Please indicate, by a check mark in the box, that the documents are attached.
X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tar Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids	nks or Haul-off Bins Only: (19.15.17.13.D NMAC) wand drill cuttings. Use attachment if more than two fac	rilities	
Disposal Facility Name: Dis	nocal English Domnit #.		
	posal Facility Permit #:		
Will any of the proposed closed-loop system operations and associated activities occ			tions?
Yes (If yes, please provide the information No			
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate re Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	Î of 19.15.17.13 NMAC		
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendation siting criteria may require administrative approval from the appropriate district office or may for consideration of approval. Justifications and/or demonstrations of equivalency are required. Ple	y be considered an exception which must be submitted to the Sa	Requests regard inta Fe Environme	ing changes to ental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.		Yes	No
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained to	from nearby wells	N/A	
Ground water is between 50 and 100 feet below the bottom of the buried waste		Yes	No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained fi	rom nearby wells	□N/A	
Ground water is more than 100 feet below the bottom of the buried waste.			
NM Office of the State Engineer - iWATERS database search; USGS: Data obtained fi	rom nearby wells	Yes [No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant w (measured from the ordinary high-water mark).	ratercourse or lakehed, 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 exister - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes	No	
		Yes	No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence a - NM Office of the State Engineer - iWATERS database; Visual inspection (certification)	it the time of the initial application.		
Within incorporated municipal boundaries or within a defined municipal fresh water well fiel pursuant to NMSA 1978, Section 3-27-3, as amended.	ld covered under a municipal ordinance adopted	Yes	No
 Written confirmation or verification from the municipality; Written approval obtained the Within 500 feet of a wetland 	from the municipality		¬
 US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection 	(certification) of the proposed site	Yes [No
Within the area overlying a subsurface mine.		Yes	No
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral	l Division		
Within an unstable area.		Yes	No
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Topographic map 	Resources; USGS; NM Geological Society:		
Within a 100-year floodplain FEMA map		Yes [No
18	-	-	
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.	following items must bee attached to the closure p	olan. Please in	ndicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate requ	irements of 19.15.17.10 NMAC		
Proof of Surface Owner Notice - based upon the appropriate requirements of	Subsection F of 19.15.17.13 NMAC		
Construction/Design Plan of Burial Trench (if applicable) based upon the app	ropriate requirements of 19.15.17.11 NMAC		
Construction/Design Plan of Temporary Pit (for in place burial of a drying page	d) - based upon the appropriate requirements of 19.1	5.17.11 NMA	с
Protocols and Procedures - based upon the appropriate requirements of 19.15.	17.13 NMAC		
Confirmation Sampling Plan (if applicable) - based upon the appropriate requi	irements of Subsection F of 19.15.17.13 NMAC		
Waste Material Sampling Plan - based upon the appropriate requirements of S	Subsection F of 19.15.17.13 NMAC		
Disposal Facility Name and Permit Number (for liquids, drilling fluids and dri	ill cuttings or in case on-site closure standards canno	ot be achieved)	
Soil Cover Design - based upon the appropriate requirements of Subsection H			
Re-vegetation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection			
TO THE RELIGIOUS FIGURE DASED UPON THE ADDITIONAL FEMALE MENTS OF NUMBER OF	01310119131/13NWAL		

Operator Application	Certification:		
	iformation submitted with this application is true, accur	ate and complete to the	he best of my knowledge and belief.
Name (Print):	Crystal Tafoya	Title:	Regulatory Technician
Signature:	Contal Taloun.	Date:	12/22/2008
e-mail address:	crystal tafoya@conocophillips.com	Telephone:	505-326-9837
20 OCD Approvals □	Permit Application (including closure plan)	Cleans Diag (ank	Doch Continue (control
		Closure Plan (only	y) OCD Conditions (see attachment)
OCD Representative S	Signature:		Approval Date:
Title:		OCD Pe	rmit Number:
21			
Closure Report (requi Instructions: Operators at report is required to be significant		implementing any cle tof the closure activity impleted.	NAC OSTATE ACTIVITIES and Submitting the closure report. The closure tites. Please do not complete this section of the form until an are Completion Date:
22			
Closure Method: Waste Excavation	and Removal On-site Closure Method pproved plan, please explain.	Alternative Closu	re Method Waste Removal (Closed-loop systems only)
were utilized.			uttings were disposed. Use attachment if more than two facilities
were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop s Yes (If yes, please Required for impacted Site Reclamation s Soil Backfilling at	e: e: system operations and associated activities performed of demonstrate complilane to the items below) areas which will not be used for future service and oper (Photo Documentation) and Cover Installation	Disposal Facili Disposal Facili n or in areas that will No	ity Permit Number:ity Permit Number:
were utilized. Disposal Facility Name Disposal Facility Name Were the closed-loop s Yes (If yes, please Required for impacted Site Reclamation Soil Backfilling at Re-vegetation App	e: e: system operations and associated activities performed of demonstrate complilane to the items below) areas which will not be used for future service and oper (Photo Documentation)	Disposal Facili Disposal Facili n or in areas that will No	ity Permit Number:ity Permit Number:
Disposal Facility Name Disposal Facility Name Were the closed-loop s Yes (If yes, please Required for impacted Site Reclamation of Soil Backfilling and Re-vegetation App 24 Closure Report Att the box, that the docum Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Soil Backfilling and Re-vegetation App	e: gystem operations and associated activities performed of demonstrate complilane to the items below) areas which will not be used for future service and oper (Photo Documentation) and Cover Installation colication Rates and Seeding Technique achment Checklist: Instructions: Each of the followments are attached. Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation pplication Rates and Seeding Technique a (Photo Documentation)	Disposal Facili Disposal Facili n or in areas that will No rations:	ity Permit Number:ity Permit Number:
Disposal Facility Name Disposal Facility Name Were the closed-loop s Yes (If yes, please Required for impacted Site Reclamation Soil Backfilling at Re-vegetation App 24 Closure Report Att the box, that the docur Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material S Disposal Facility Soil Backfilling at Re-vegetation App	e: gystem operations and associated activities performed of demonstrate complilane to the items below) areas which will not be used for future service and oper (Photo Documentation) and Cover Installation colication Rates and Seeding Technique achment Checklist: Instructions: Each of the followments are attached. Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation pplication Rates and Seeding Technique a (Photo Documentation)	Disposal Facili Disposal Facili n or in areas that will No rations:	ity Permit Number: not be used for future service and opeartions? ttached to the closure report. Please indicate, by a check mark in
Disposal Facility Name Disposal Facility Name Were the closed-loop s Yes (If yes, please Required for impacted Site Reclamation of Soil Backfilling and Re-vegetation Appears Closure Report Att The box, that the docum Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material State of Soil Backfilling and Re-vegetation Appears Soil Backfilling and Re-vegetation Appears Soil Backfilling and Re-vegetation Appears Site Reclamation On-site Closure 25 Operator Closure Cert I hereby certify that the ing	e: gystem operations and associated activities performed of demonstrate complilane to the items below) areas which will not be used for future service and oper (Photo Documentation) and Cover Installation plication Rates and Seeding Technique achment Checklist: Instructions: Each of the followents are attached. Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation pplication Rates and Seeding Technique a (Photo Documentation) Location: Latitude:	Disposal Facili Disposal Facili n or in areas that will No rations: wing items must be an Longitude:	ity Permit Number: not be used for future service and opeartions? Ittached to the closure report. Please indicate, by a check mark in NAD 1927 1983 The and complete to the best of my knowledge and belief. I also certify
Disposal Facility Name Disposal Facility Name Were the closed-loop s Yes (If yes, please Required for impacted Site Reclamation of Soil Backfilling and Re-vegetation Appears Closure Report Att The box, that the docum Proof of Closure Proof of Deed N Plot Plan (for on Confirmation Sa Waste Material State of Soil Backfilling and Re-vegetation Appears Soil Backfilling and Re-vegetation Appears Soil Backfilling and Re-vegetation Appears Site Reclamation On-site Closure 25 Operator Closure Cert I hereby certify that the ing	e: gystem operations and associated activities performed of edemonstrate complilane to the items below) areas which will not be used for future service and oper (Photo Documentation) and Cover Installation plication Rates and Seeding Technique achment Checklist: Instructions: Each of the followents are attached. Notice (surface owner and division) otice (required for on-site closure) -site closures and temporary pits) mpling Analytical Results (if applicable) Sampling Analytical Results (if applicable) Name and Permit Number and Cover Installation pplication Rates and Seeding Technique a (Photo Documentation) Location: Latitude: tification: formation and attachments submitted with this closure	Disposal Facili Disposal Facili n or in areas that will No rations: wing items must be an Longitude:	ity Permit Number: not be used for future service and opeartions? Ittached to the closure report. Please indicate, by a check mark in NAD 1927 1983 The and complete to the best of my knowledge and belief. I also certify

Form C-144

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30N	Range: 11W	Sections:							
NAD27 X:	Y:	Zone:	Search Radius:						
County:	Basin:		Number:	Suffix:					
Owner Name: (First)	(La	ast) • All	O Non-Domesti	c O Domestic					
POD / 0	for Data Danad		Aug Donah da Matay Donam						
[POD/Si	Irface Data Report		Avg Depth to Water Report						
Water Column Report									
Clear Form iWATERS Menu Help									

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

WATER COLUMN REPORT 12/16/2008

	(quarter	s are	bi	gge	st	to	small	est)			Depth	Depth	Wate
POD Number	Tws	Rng	Sec	q	q	g	Zone		X	Y	Well	Water	Colum
RG 50669	30N	11W	27								360	310	E
SJ 02765	30N	11W	02	1	3						54	20	3
SJ 00975	30N	11W	02	1	3						60	20	4
SJ 01217	30N	11W	02	1	3						60	30	3
SJ 02837	30N	11W	02	3	4	1					150		
SJ 01437	30N	11W	03	1							40	28	1
SJ 03121	30N	11W	03	1	2	4					36	12	2
SJ 02049	30N	11W	03	1	3						26	8	1
SJ 01339	30N	11W	03	1	3	1					40	15	2
SJ 02814	30N	11W	03	1	3	2					31	8	2
SJ 00350	30N	11W		1	3	2					46	12	3
SJ 01441	30N	11W		1	3	2					48	20	2
SJ 02835	30N	11W		1	3	2					26	8	1
SJ 01387	30N	11W		1	4						40	18	2
SJ 03698 POD1	30N	11W		1		1					40	5	j ,
SJ 02785	30N	11W		1	4	2					31	5	2
SJ 01313	30N	11W		2							70	58	1
SJ 01805	30N	11W		2							35	20	1
SJ 01807	30N	11W		2							50	30	2
SJ 01202	30N	11W		2	1	2					35	8	2
SJ 02781	30N	11W		2	1	2					48	23	2
SJ 03758 POD1	30N	11W		2	1	2		26815		2127473	49	21	2
SJ 03765 POD1	30N	11W	03	2	1	2		26816		2127605	43	20	2
SJ 03756 POD1	30N	11W	03	2	1	2		2681	79	2127870	41	20	2
SJ 02786	30N	11W		2	3	1					51	24	2
SJ 01901	30N	11W		2	3	2					60	26	3
SJ 00698	30N	11W		2	3	3					44	14	3
SJ 01261	30N	11W	03	2	3	4						20	

SJ 02930	30N	11W 03		4				81	64	1
SJ 02798	30N	11W 03		4				80	61	1
SJ 00402	30N	11W 03	3					32	18	1
SJ 01734	30N	11W 03	3 2					33	5	2
SJ 00762	30N	11W 03	3 2					47	22	2
SJ 01440	30N	11W 03		.3				41	21	2
SJ 01020	3 ON	11W 03	3 3					27	5	2
SJ 03242	3 0 N	11W 03		1				23	9	1
SJ 03732 POD1	30N	11W 03		1				38	9	2
SJ 03239	30N	11W 03		3				3.3	12	2
SJ 01238	30N	11W 03	4 1					9.5	38	Ē
SJ 02245	30N	11W 03	4 1	3				66	3.0	3
SJ 01043	30N	11W 03	4 1	4				50		
SJ 01249	30N	11W 03	4 2					52	22	N to th
SJ 02563	30N	11W 03		1				96	60	3
SJ 02824	30N	11W 03	4 2	1				70	50	2
SJ 03153	30N	11W 03	4 2	1				80	60	2
SJ 03454	30N	11W 03	4 2	4				100		
SJ 03291	30N	11W 03	4 3	2				38	18	2
SJ 00366	30N	11W 03	4 4	4				33	18	1
SJ 01364	30N	11W 04	2					115	86	2
SJ 03076	30N	11W 04		3				44	10	3
SJ 02903	30N	11W 04	2 3	2				49	31	1
SJ 03039	30N	11W 04	4 1	2				53	40	1
SJ 01450	30N	11W 04	4 3					45	20	2
SJ 02941	30N	11W 04	4 3	2				58	37	2
SJ 01367	30N	11W 04	4 4	1				48	20	2
SJ 03407	30N	11W 04		4	W	453700	2124100	30	5	2
SJ 03267	30N	11W 05	2 1					83	60	2
SJ 03245	30N	11W 06	4 4	4				80	65	1
SJ 02194	30N	11W 07						59	22	3
SJ 02140	30N	11W 07	1 1	1				70	60	1
SJ 00689	30N	11W 07	1 4	3				78	65	1
SJ 00690	30N	11W 07	1 4	3				60		-
SJ 00882	30N	11W 07	1 4	3				60	50	1
SJ 00889	30N	11W 07	1 4	3				55	2.0	1
SJ 00806	30N	11W 07	1 4	3				38	20	1
SJ 00739	30N	11W 07	1 4	3				70	58	1
SJ 00389	30N	11W 07	1 4	3				53	F.0	1
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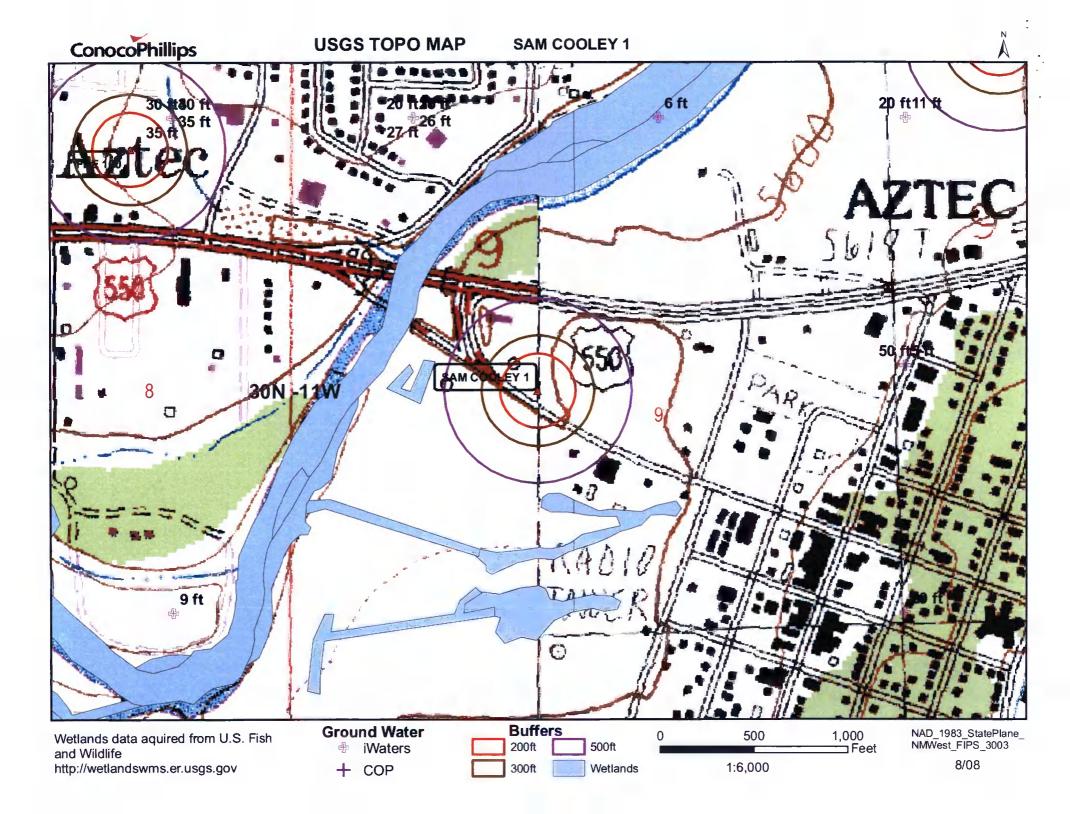
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Récord Count: 303



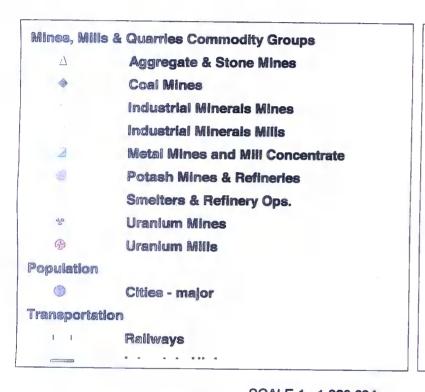
Data Source Aerial flown locally Sedgewick in 2005.

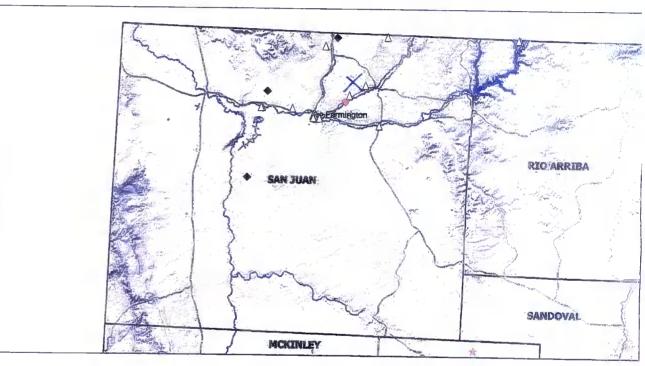
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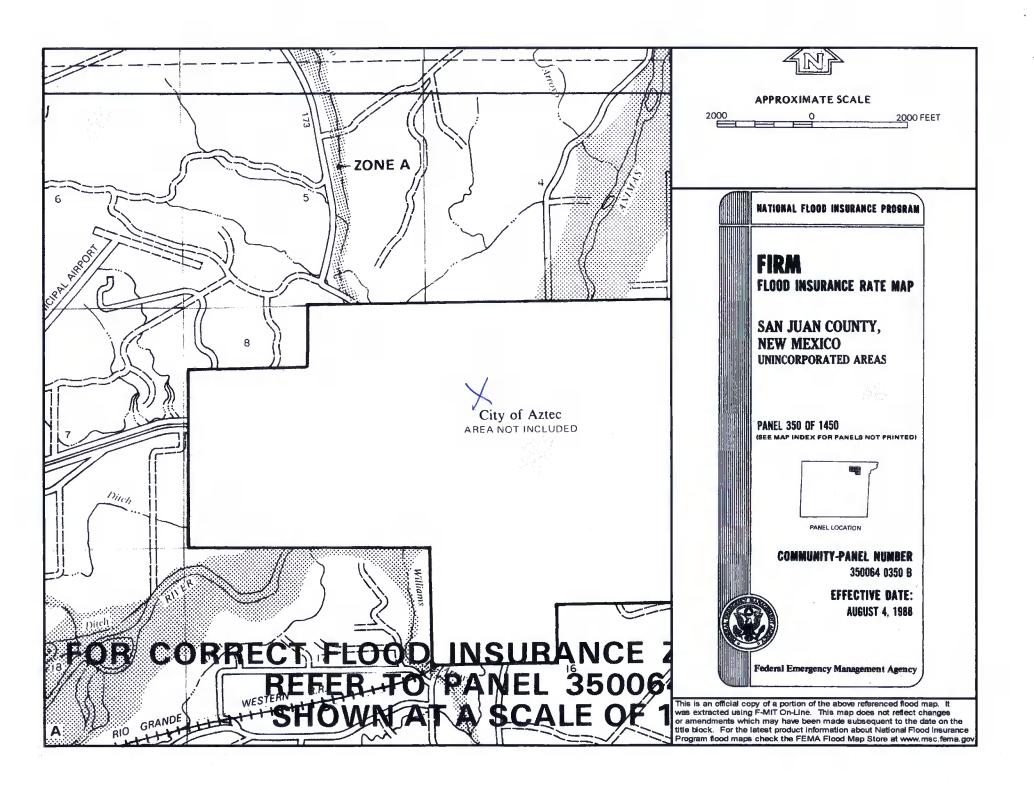
MMQonline Public Version Map











SAM COOLEY 1

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'SAM COOLEY 1', which is located at 36.824001 degree, North latitude and 108 degree, West longitude. This location is located on the Flora Vista 7.5' USGS topographic quadrangle. This location is in section 9 of Township 30 North Range 11 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Aztec, located 0.4 miles to the southeast. The nearest large town (population greater than 10,000) is Farmington, located 13.0 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 0.1 miles to the north. The location is on Private land and is 2,964 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Animas. Colorado, New Mexico, Sub-basin. This location is located 1708 meters or 5602 feet above sea level and receives 11 inches of rain each year. The vegetation at this location is classified as Developed, Open Space - Low Intensity as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 9 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 named Animas River and is 1,129 feet to the northwest and is classified by the USGS as a perennial stream. The nearest perennial stream is named Animas River and is 1,129 feet to the northwest. The nearest water body is 3,308 feet to the northeast. It is classified by the USGS as a perennial lake and is 0.2 acres in size. The nearest spring is 35,565 feet to the southwest. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 1,055 feet to the southeast. The nearest wetland is a 1.2 acre Freshwater Forested/Shrub Wetland located 398 feet to the south. The slope at this location is 0 degree, 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 MODERN ALLUVIUM--Includes Piney Creek Alluvium and younger deposits with a Quaternary age younger alluvium and surficial deposits substrate. The soil at this location is 'Walrees loam' and is somewhat poorly drained and not hydric with slight erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 11.2 miles to the northwest as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

Quaternary and recent deposits in the San Juan Basin include stream-deposited alluvium and older terrace deposits, landslide deposits, and Aeolian sand. Most Quaternary and younger deposits area unconsolidated and form a thin covering over older bedrock sediments.

Stream-deposited alluvium and older terrace deposits are associated with major streams and rivers in the San Juan Basin. The alluvium consists of unconsolidated sediments that range from silt to cobbles in size but predominantly are sand and gravel. Along major streams the alluvium is varied in composition, depending on the mix of material from the various erosional source areas and fluvially-driven sorting. Alluvial deposits also occur as a thin veneer of fine-grained sediments in the valleys of intermittent streams. Landslide deposits are mapped on the northeastern flank of the Chuska Mountains and locally in the San Juan Mountains. These colluvial deposits consist of material derived from the topographically higher source areas. The landslide material on the flank of Chuska Mountains consists of reworked sand from the Chuska Sandstone; the deposits in the San Juan Mountains primarily are derived from volcanic or volcaniclastic sources.

Unconsolidated wind-blown deposits are common in the central part of the basin, although they generally are not mapped on small scale geologic maps. Typically, these deposits are very thin, but local dunes near dry washes, which are excellent sources of fine-grained material, may reach heights of 20 feet. These recent Aeolian deposits are not known to yield water to wells.

Hydraulic Properties:

In the absence of other sources of water, alluvial deposits, where present, are commonly relied upon as a source of water for domestic and livestock use. Along the major rivers and streams, wells are of conventional vertical design, whereas in the valleys of intermittent streams, where the hydraulic conductivities and saturated thickness are generally small, most wells are constructed as galleries of horizontal drains feeding to a central collector. Reported well yields range from less than 1 gallon per minute to as much as 1,100 gallons per minute. The median yield of 48 wells is 15 gallons per minute. Hydraulic conductivities of sand and gravel can vary from 10 to 1,000,000 gallons per day per foot squared (roughly 1 to 100,000 feet per day) (Freeze and Cherry, 1979, table 2.2.) but a more typical range is from 15 feet per day for fine sand to about 1,000 feet per day for coarse gravel (Lohman, 1972, table 17). Tests along the San Juan River upstream from Farmington indicate that the hydraulic conductivity of alluvium ranges from 0.006 to 220 feet per day (Peter et al, 1987, p. 29). The thickness of alluvium at this site was reported to range from about 14 to 61 feet, and the saturated thickness was less than 25 feet in all 13 test holes. Water occurs in the alluvium under unconfined conditions. No tests have been made where the storage coefficient of the alluvium was determined. However, a typical specific yield for moderate to well-sorted unconsolidated sediments would be in the range of 0.1 to 0.25.

No known hydraulic data exists for the landslide and recent Aeolian deposits in the basin. No instances are known where these deposits are used as a source of water.

References:

Freeze, R.A., and Cherry, J.A., 1979, Groundwater: Englewood cliffs, N.J., Prentice-Hall, Inc., 604 p. Lohman, S.W., 1972, Ground-water hydraulics: U.S.G.S. Professional Paper 708, 70 p. Peter, K.D., Williams, R.A., and King, K.W., 1987, Hydrogeologic characteristics of the Lee Acres landfill area, San Juan County, New Mexico: U.S.G.S. Water Resources Investigations Report 87-4246, 69 p.

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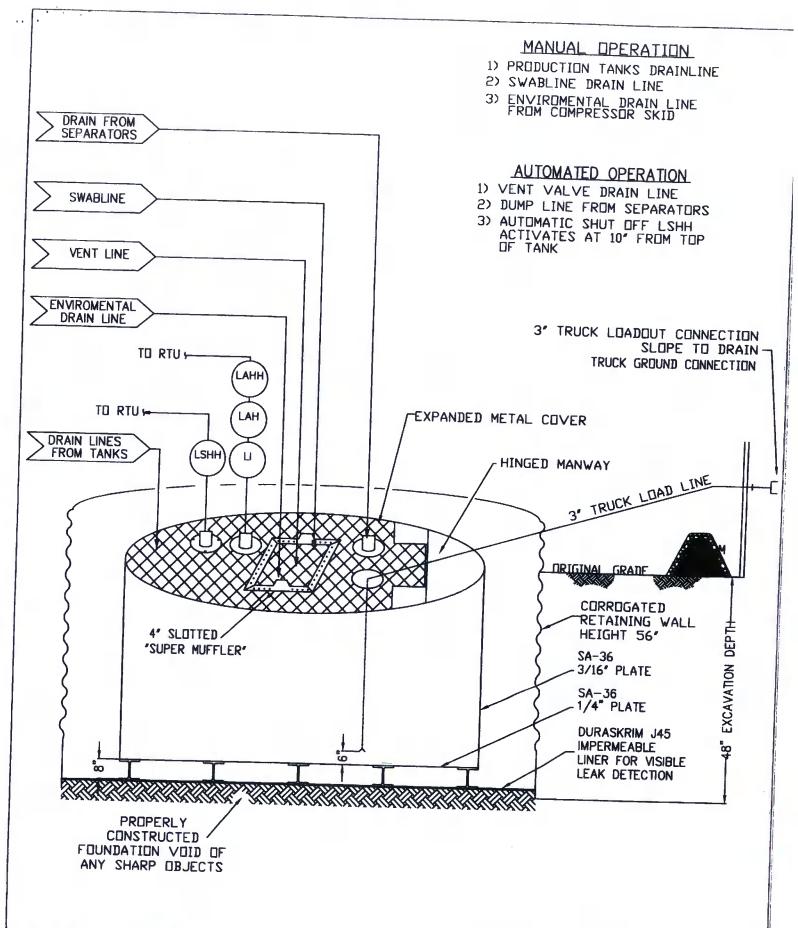
ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

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.
- 4. 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.



ConocoPhillips

San Juan Business Unit

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

DURA-SKRIM®

J30, J36 a J45

PROPERTIES	TEST METHOD	J30BB		J36BB		J45BB	
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Rol Averages
Appearance		Black/Black		Black/Black		Black/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 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	45 mil
Construction		**Ext	1			(27.21)	(30.24)
Ply Adhesion	ASTM D 413	**Extrusion laminated with encapsulated tri-directional scrim reinforcement					
	7071475 4713	TOIDS	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		
Maximum Use Temperature		180° F				80 lbf	99 lbf
Minimum Use Temperature			180° F				
D = Machine Direction		-70° F	-70° F	-70° F	-70° F	-70° F	-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: RAYEN 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**



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 of 19.15.17.11 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.
- 3. 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.
- 4. 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