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Distinct I	State of New Mexico	Form C-144
1625 N. French Dr., Hobbs, NM 88240	Energy Minerals and Natural Resources	July 21, 2008
District II 1301 W. Grand Ave , Artesia, NM 88210	Department Oil Conservation Division	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office
District III	1220 South St. Francis Dr.	
1000 Rio Brazos Rd , Aztec, NM 87410	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the
District IV 1220 S. St Francis Dr., Santa Fe, NM 87505	······································	appropriate NMOCD District Office
5149	Pit, Closed-Loop System, Below-Grad	
Ort Prop	osed Alternative Method Permit or Clos	ure Plan Application
Type of action:	X Permit of a pit, closed-loop system, below-grade ta	ink, 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 permit below-grade tank, or proposed alternative method	
	application (Form C-144) per individual pit, closed-loop	
	of this request does not relieve the operator of hability should operations res neve the operator of its responsibility to comply with any other applicable g	
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Operator: ConocoPhillips Compar	ıy	OGRID#: <u>217817</u>
Address: PO Box 4289, Farmingt	on, NM_87499	
Facility or well name: Heaton Con	n A 1005	
API Number:	30-045- OCD Permit Numbe	r:
U/L or Qtr/Qtr: C(NE/NW) Sect	ion: <u>30</u> Township: <u>31N</u> Range: <u>1</u>	1W County: San Juan
Center of Proposed Design: Latitud		108.0349878 °W NAD: 1927 X 1983
Surface Owner: X Federal	State Private Tribal Trust or Indian	Allotment
Permanent Emergency X	rkover Cavitation P&A .mer type: Thickness <u>20</u> mil <u>X</u> LLDPE	HDPE PVC Other
Type of Operation: P&A [Drying Pad Above Gro	und Steel Tanks Haul-off Bins Other	activities which require prior approval of a permit or DPE PVD Other A567897077 DPE VD Other A567897077 DPE Other A5678970777 DPE Other A5678970777 DPE Other A56789707777 DPE Other A56789707777 DPE Other A56789707777 DPE Other A56789707777 DPE Other A56789707777 DPE Other A56789707777 DPE Other A56789707777777777777777777777777777777777
4 X Below-grade tank: Subsection Volume: 120 Tank Construction material.	bbl Type of fluid. <u>Produced Water</u> <u>Metal</u> letection X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other	\'c <u>\</u>
5 Alternative Method: Submittal of an exception request is re	equired. Exceptions must be submitted to the Santa Fe Environ	
Form C-144	Oil Conservation Division	Page 1 of 5

6 <u>Fencing:</u> 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 (<i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i>) Four foot height, four strands of barbed wire evenly spaced between one and four feet								
X Alternate. Please specify <u>4' hogwire fence with a single strand of barbed wire on top.</u>								
7 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								
9 Administrative Approvals and Exceptions:								
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.								
Please check a box if one or more of the following is requested, if not leave blank: X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for considered and the second	leration of app	roval.						
(Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval								
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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	X No						
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 XNA	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.	Yes	XNo						
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine.	Yes	X No						
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division 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		<u>س</u>						
Within a 100-year floodplain - FEMA map	Yes	XNO						

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Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment ChecklistSubsection 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 X Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15 17.9
X Situng Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of
19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API 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 closurc) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
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 (I) of Subsection B of 19 15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17 11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: X Drilling Workover Emergency X Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Alternative Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only)
X On-site Closure Method (only for temporary pits and closed-loop system's)
X In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15
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
 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
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

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Disposal Facility Name: Disposal Facility Permit # Disposal Facility Name: Disposal Facility Permit # Disposal Facility Name: Disposal Facility Permit # Disposal Facility Permit # Per (If yes, please provide the information No equired for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 N Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC miting Criteria (Regarding on-site closure methods only; 19.15.17.10 NMAC structions Each stitug enteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below trans sting enteria are quire administrative approval from the appropriate district office or may be considered an eveption which must be submitted to the S like for consideration of approval Justifications and/or demonstrations of equivalency are required Please refer to 19.15.17.10 NMAC/for guidance round 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 round 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 from nearby wells //thin 300 feet of a continuously flowing watercourse. or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake neasured from the ordinary high-water mark) - Topographic map. Visual inspection (certification) of the proposed site //thin 300 feet from a permanent residence, school, hospital, institution, or church in existence at the t	Requests regarding changes to
/iiii any of the proposed closed-loop system operations and associated activities occur on or in areas that will nbe used for future // yes (If yes, please provide the information No equired for impacted areas which will not be used for future service and operations: No equired for impacted areas which will not be used for future service and operations: No Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC ? Iting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMAC ? Iting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMAC ? Iting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMAC ? Iting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMAC ? Iting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMAC ? Iting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMAC ? Iting Criteria (Regarding on-site closure methods only: 19 15 17 10 NMAC ? Nthe state are arequires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below return water is less than 50 feet below the bottom of the buried waste. <th>IMAC Requests regarding changes to anta Fe Environmental Bureau Yes X No N/A X Yes No N/A Yes X No N/A</th>	IMAC Requests regarding changes to anta Fe Environmental Bureau Yes X No N/A X Yes No N/A Yes X No N/A
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- Visual inspection (certification) of the proposed site, Aerial photo, satellite image	
thin 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering	Yes X No
ithin 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering	Yes X No
arposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application - NM Office of the State Engineer - iWATERS database, Visual inspection (certification) of the proposed site	
Ithin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted irsuant to NMSA 1978, Section 3-27-3, as amended	Yes XNo
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
ithin 500 feet of a wetland	Yes X No
- US Fish and Wildlife Wetland Identification map. Topographic map. Visual inspection (certification) of the proposed site	
ithin the area overlying a subsurface mine. - Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral Division	Yes X No
ithin an unstable area.	Yes X No
- Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS; NM Geological Society; Topographic map	
ithm a 100-year floodplain.	Yes X No
- FEMA map	
n-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the close a check mark in the box, that the documents are attached.	sure plan. Please indicate
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17 10 NMAC	
X Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC	•
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements	of 19.15.17.11 NMAC
X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC	

X Waste Material Sampling Plan - 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 or in case on-site closure standards cannot be achieved)

X Soil Cover Design - 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

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36 Deretge and plantic information assuming of the insplication is into, accurate and complete to the bat of my knowledge and balef. Name (Finity) Signature:	<u> </u>	
Itember cetty: blank the information absoluted with this approximation is thus, excent and complete the bear of my knowledge and blank. Signal (Print):		
Name (Pfint):		
Signature:		
e-mail address		
200 O O O Parmin Parking Commit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signatur:	Signature:	Date:2-3-10
QCD_Approval Permit Application (including closure plan) Closure Plan (only) CDC Conditions (see attachment) QCD_Representative Signatur:	e-mail address: dollie.l.busse@conocophillips.com	Telephone: 505-324-6104
QCD_Approval Permit Application (including closure plan) Closure Plan (only) CDC Conditions (see attachment) QCD_Representative Signatur:		· · · · · · · · · · · · · · · · · · ·
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e-mail address [.] Telephone:	Signature	Date:
e-mail address [.] Telephone:		
	e-mail address	Telephone:

Form C-144

Oil Conservation Division

Page 5 of 5



New Mexico Office of the State Engineer Water Column/Average Depth to Water

		(quarte	rs a	re '	1=N	√W 2=	=NE 3=	=SW 4:	=SE)				
		(quarte	rs a	re s	sma	allest	to larg	est)	(NAD83 UTN	1 in meters)	100 E 100 CO	(In feet)) 100.051.000-0000
一种的变形 人口整个分子 有能的 化冷衡器机	Sub asin Use (County	W	Q 16	्रहरू	14 . T	Tws	Rng	X		CITATION LAST DOL	Depth V VaterCo	- J.S.S.S.M.
SJ 00970	DOM	SJ	4	4	4	30	31N	11W	230438	4084032*	110	80	30
SJ 01154	DOM	SJ	4	2	4	30	31N	11W	230452	4084433*	190	150	40
SJ 01396	DOM	SJ	1	4	4	30	31N	11W	230238	4084232*	80	57	23
SJ 01739	DOM	SJ	4	2	4	30	31N	11W	230452	4084433*	98	30	68
SJ 01797	DOM	SJ		4	4	30	31N	11W	230339	4084133*	100	40	60
SJ 01811	DOM	SJ		2	2	31	31N	11W	230320	4083731*	89	50	39
SJ 01834	DOM	SJ	4	2	4	30	31N	11W	230452	4084433*	103	30	73
SJ 01884	DOM	SJ	3	2	4	30	31N	11W	230252	4084433*	71	30	41
SJ 03458	DOM	SJ	4	3	3	19	31N	11W	229277	4085688*	140		
									Avera	age Depth to	o Water:	58 fe	et
										Minimum	n Depth:	30 fe	et
										Maximum	Depth:	150 fe	et
Record Count: 9	The address totals without second or		,							1999 1994 1996 June 1998 1999 1			

PLSS Search:

Section(s): 19, 20, 29, 30, Township: 31N 31, 32

Range: 11W

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

		(quarte	ers a	re 1	=N	W 2=	=NE 3=	-SW 4	l=SE)				
94 marging summits (1) marging strength and and a summit and a summit of the sum of	ananamatan si sisi si amatangga anggi si si sa	(quarte	ers a	re s	ma	llest	to larg	est)	(NAD83 UTM	l in meters)		(In feet)	
POD Number	Sub basin Use C	ounty	l, initia	Second Second	Q 4		Tws	Rng	x	Constant and the state	Depth D Well M	Binho, Tahh.	and and the second s
SJ 00968	DOM	SJ		4	2	25	31N	12W	228742	4084990*	170	100	70
SJ 01108	DOM	SJ	4	1	2	25	31N	12W	228457	4085293*	245	90	155
SJ 01163	. DOM	SJ	3	1	2	25	31N	12W	228257	4085293*	200	90	110
SJ 01180	DOM	SJ	4	2	2	25	31N	12W	228857	4085289*	200	120	80
SJ 01303	DOM	SJ -	3	2	2	25	31N	12W	228657	4085289*	210		
SJ 01477	DOM	SJ			2	25	31N	12W	228544	4085199*	565	505	60
SJ 03026	DOM	SJ	4	3	4	24	31N	12W	228472	4085690*	140	85	55
									Avera	ige Depth to	Water:	165 fe	et
										Minimum	Depth:	85 fe	et
										Maximum	Depth:	505 fe	et
Record Count: 7	no, maarin, maa waxa kabaa woon maarin u	ana 2010 milio 113	9767 MAR		19 Faran	Van von v a	n fa s seas anna		ra uuuu 1996 eeetu 2007 Vaart 6848 uu				16 XANNA ANNA
PLSS Search:													

Section(s): 24, 25, 36

Township: 31N

Range: 12W

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer Water Column/Average Depth to Water

		(quart	ers a	re '	I=N	W 2=	=NE 3=	=SW 4=S	SE)				
		(quart	ers a	re s	sma	llest	to larg	est) (N	IAD83 UTN	1 in meters)		(In feet)	2007-2020-1
POD Number	Sub basin Use C	ounty	1.1.2	Q 16	r <u>F.</u>	Sec	Tws	Rng	× ×	ן ץ - י	4 - 100 A	Depth W WaterCol	3888.2829.2211+1
SJ 00968	DOM	SJ		4	2	25	31N	12W	228742	4084990*	170	100	70
SJ 01108	DOM	SJ	4	1	2	25	31N	12W	228457	4085293*	245	90	155
SJ 01163	DOM	SJ	3	1	2	25	31N	12W	228257	4085293*	200	90	110
SJ 01180	DOM	SJ	A	2	2	25	31N	12W	228857	4085289*	200	20	80
SJ 01303	DOM	SJ	3	2	2	25	31N	12W	228657	4085289*	210		
SJ 01477	DOM	SJ			2	25	31N	12W	228544	4085199*	565	505	60
SJ 02021	DOM	SJ		2	4	35	31N	12W	227058	4083045*	115		
SJ 02021 X	DOM	SJ		2	4	35	31N	12W	227058	4083045*	290	250	40
SJ 03026	DOM	SJ	4	3	4	24	31N	12W	228472	4085690*	140	85	55
SJ 03309	DOM	SJ	4	4	4	35	31N	12W	227142	4082541*	240	210	30
									Avera	age Depth to	Water:	181 fee	t
										Minimum	Depth:	85 fee	t
										Maximum	Depth:	505 fee	t
Record Count: 10	r Maar aare inton kome admit waan yn arre w		MM 9897 TA	-				3.0 1000 1000 1000	38635 CHES 1970 FOW ALLS	ana 1997 sene tuna anar 1998 ne			

PLSS Search:

Section(s): 23, 24, 25, 26, 35, 36

Range: 12W

Township: 31N

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.





HEATON COM A 100S AERIAL MAP



Heaton Com A 100S Mines, Mills and Quarries



http://www.emnrd.state.nm.us/MMD/MMQonline/MMQonline-PUBLIC-PROD.mwf



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Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Heaton Com A 100S is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. The subject well has an elevation of 5920'. The iWATERS data point is located in an adjacent section and is SJ01180 with an approximate elevation of 5943' and a water depth of 120', with the elevation difference of 23' the approximate water depth for the proposed well is greater than 97'. The hydro geologic analysis indicates the groundwater depth and the Nacimiento formation will create a stable area for this new location.

Hydrogeological Report for Heaton Com A 100S

Regional Geological context:

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

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval.

Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones. Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

Hydraulic Properties:

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

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

References:

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552, 101 p.

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Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

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

Busse, Dollie L

To: Cc: Subject: Mark_Kelly@blm.gov Jaramillo, Marie E; Tafoya, Crystal Surface Owner Notification

The following locations will have a temporary pit closed on-site:

Klein 28N SJ 28-7 429 Heaton Com A 100S

Please let me know if you have any questions.

Thank you.

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Dollie L. Busse ConocoPhillips Company-SJBU Regulatory Staff Regulatory Tech 505-324-6104 505-599-4062 (fax) Dollie.L.Busse@conocophillips.com

"Before someone's tomorrow has been taken away, cherish those you love, appreciate them today."

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 86240 DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 86210 DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, N.M. 87605

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State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, N.M. 87505

□ AMENDED REPORT

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ConocoPhillips Company San Juan Basin Pit Design and Construction Plan

In accordance with Rule 19.15.17 the following information describes the design and construction of temporary pits on ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

General Plan:

- 1. COPC will design and construct a properly sized and approved temporary pit which will contain liquids and solids and should prevent contamination of fresh water and protect public health and environment.
- 2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3. COPC will sign the well location in compliance with 19.15.3.103 NMAC.
- 4. COPC shall construct all new fences around the temporary pit utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes.
- 5. COPC shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure.
- 6. COPC shall construct the pit so that the slopes are no steeper than two horizontal feet to one vertical foot.
- 7. Pit walls will be walked down by a crawler type tractor following construction.
- 8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- 9. Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.
- 10. All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. COPC will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. COPC will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. COPC will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 13. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into lined drill pit.
- 16. The lower half of the blow pit (nearest lined pit) will be lined with a 20-mil, string reinforced, LLDPE liner. The upper half of the blow pit will remain unlined as allowed in Rule 19.15.17.11 F.11.
- 17. COPC will not allow freestanding liquids to remain on the unlined portion of a temporary blow pit.

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ConocoPhillips Company San Juan Basin Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of temporary pits on ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

General Plan:

- 1. COPC will operate and maintain a temporary pit to contain liquids and solids and maintain the integrity of the liner and liner system to prevent contamination of fresh water and protect public health and environment.
- 2. COPC will conserve drilling fluids by transferring liquids to pits ahead of the rigs whenever possible. All other drilling fluids will be disposed at Basin Disposal Inc., permit # NM-01-005.
- 3. COPC will not discharge or store any hazardous waste in any temporary pit.
- 4. If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, then COPC shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner.
- 5. If a leak develops below the liquid's level, COPC shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner. COPC shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels. COPC shall notify the Aztec Division office 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.
- 6. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 7. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 8. COPC shall immediately remove any visible layer of oil from the surface of the temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from the pit's surface. An oil absorbent boom will stored on-site until closure of pit.
- 9. Only fluids generated during the drilling or workover process may be discharged into a temporary pit.
- 10. COPC will maintain the temporary pit free of miscellaneous solid waste or debris.
- 11. During drilling operations, COPC will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged in the IADC reports. COPC will file this log with the Aztec Division office upon closure of the pit.
- 12. After drilling operations, COPC will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at COPC's office electronically and will be filed with the Aztec Division office upon closure of the pit.
- 13. COPC shall maintain at least two feet of freeboard for a temporary pit.
- 14. COPC shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the drilling rig.
- 15. COPC shall remove all free liquids from a cavitation pit within 48 hours after completing cavitation. COPC may request additional time to remove liquids from the Aztec Division office if it is not feasible to remove liquids within 48 hours.

ConocoPhillips Company San Juan Basin Closure Plan

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of temporary pits on ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

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 pit closure. Closure report will be filed on C-144 and incorporate the following:

- Details on Capping and Covering, where applicable.
- Plot Plan (Pit Diagram)
- Inspection Reports
- Sampling Results
- C-105
- Copy of Deed Notice will be filed with County Clerk

General Plan:

- All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division-approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011)
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
- 3. The surface owner shall be notified of COPC's closing of the temporary pit prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring COPC will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. Notice of Closure will be given prior 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.
- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at the San Juan County Landfill located on CR 3100.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	1000(500)

9. A five point composite sample will be taken from the cavitation pit pursuant to 19.15.17.13(B)(1)(b)(i) in order to assure there has not been any type of release.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	500

- 10. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. 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. If standard testing fails COPC will dig and haul all contents pursuant to 19.15.17.13.i.a. After doing such, confirmation sampling will be conducted to ensure a release has not occurred.
- 11. During the stabilization process if the liner is ripped by equipment the Aztec OCD office will be notified within 48 hours and the liner will be repaired if possible. If the liner can not be repaired then all contents will be excavated and removed.
- 12. Dig and Haul Material will be transported to the Envirotech Land Farm located 16 miles south of Bloomfield on Angel Peak Road, CR 7175. Permit # NM010011
- 13. 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.
- 14. Notification will be sent to OCD when the reclaimed area is seeded.
- 15. 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 or Forest Service stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

Туре	Variety or Cultivator	PLS/A		
Western wheatgrass	Arriba	3.0		
Indian ricegrass	Paloma or Rimrock	3.0		
Slender wheatgrass	San Luis	2.0		
Crested wheatgrass	Hy-crest	3.0		
Bottlebrush Squirreltail	Unknown	2.0		
Four-wing Saltbrush	Delar	.25		

Species shall be planted in pounds of pure live seed per acre: Present Pure Live Seed (PLS) = Purity X Germination/100 Two lots of seed can be compared on the basis of PLS as follows: Source No. One (poor quality) Source No. two (better quality) Purity 50 percent Purity 80 percent Germination 40 percent 63 percent Germination Percent PLS 20 percent Percent PLS 50 percent 5 lb. bulk seed required to make 2 lb. bulk seed required to make 1 lb. PLS 1 lb. PLS

16. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

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:

- 1. 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.
- 2. COPC signage 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. Ś
- 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.



DURA-SKRIM®

J30, J36 & J45

PROPERTIES	TEST METHOD	J3	0BB	J36BB		J45BB		
		Min. Roli Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min, Roll Averages	Typical Roll Averages	
Appearance		Black/Black		Black/Black		Biack/Black		
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil	
Weight Lbs Per MSF. (ozyd ²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)	
Construction		**Extrusion laminated with encapsulated tri-directional scrim reinforcement						
Ply Adhesion-	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs	
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD	
1 Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	
1. Ténsile 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 Ibf MD 75 Ibf 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 ibf MD 220 ibf DD	257 lbf MD 258 lbf DD	
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD	
Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5	
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf	
Maximum Use Temperature		180° F	180° F	180* F	180° F	180° F	180* F	
Minimum Use Temperature		-70* F	-70* F	-70° F	-70° F	-70° F	-70° F	

MD = Machine Direction

DD = Diagonal Directions

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

*Dimensional Stability Maximum Value

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

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

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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

RAVEN

INDUSTRIES

08/06

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

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

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

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

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

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

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

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

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

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:

- 1. 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 multi-skilled 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.

11/6/2009

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:

- 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 or is
 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.
- 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 50 mg/kg; the TPH concentration as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. COPC shall notify the division of its results on form C-141.

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- 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 (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. 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 below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation
 - Re-vegetation application rates and seeding techniques
 - Photo documentation of the site reclamation

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- Confirmation Sampling Results
- Proof of closure notice