 District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Ave., Artesia, NM 88210 District III 	State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr.	Form C-144 July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	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-Grad	e Tank, or
Propos	sed Alternative Method Permit or Closur	
Time of action:	X Permit of a pit, closed-loop system, below-grade	tank or proposed alternative method
Type of action:	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 permi below-grade tank, or proposed alternative method	
Instructions: Please submit one	application (Form C-144) per individual pit, closed-lo	
	of this request does not relieve the operator of liability should operations	
	lieve the operator of its responsibility to comply with any other applicable	
1		000ND# 415015
Operator: ConocoPhillips Company		OGRID#: 217817
Address: PO Box 4289, Farmingt		
Facility or well name: STATE A G	AS COM 1E	
API Number:	3004525147 OCD Permit Number	ar.
U/L or Qtr/Qtr: E Section	ion: 36 Township: 29N Range: 1	1W County: San Juan
Center of Proposed Design: Latitud	le: 36.683391°N Longitude:	-107.9485°W NAD: X 1927 1983
Surface Owner: Federal	X State Private Tribal Trust or India	n Allotment
Permanent Emergency C Lined Unlined L String-Reinforced	rkover Cavitation P&A iner type: Thickness mil LLDPE Factory Other Volume:	HDPE PVC Other bbl Dimensions L x W x D
Type of Operation: P&A [Drying Pad Above Grou Lined Unlined Line	tion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent) und Steel Tanks Haul-off Bins Other er type: Thickness mil LLDPE F Factory Other	activities which require prior approval of a permit or
4 X Below-grade tank: Subsection Volume: 120 H Tank Construction material:	bbl Type of fluid: Produced Water Metal letection X Visible sidewalls, liner, 6-inch lift and aut Visible sidewalls only Other	omatic overflow shut-off
5		
Alternative Method:		
Submittal of an exception request is re	equired. Exceptions must be submitted to the Santa Fe Enviro	nmental Bureau office for consideration of approval.
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 (Required if located within 1000 feet of a permanent residence, school, hospital. in	stitution or chi	arch)
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.		
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) Other Image: Constraint open top tanks)		
Montuly inspections (i) neutring of 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:		
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con (Fencing/BGT Liner)	sideration of a	pproval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
10 <u>Siting Criteria (regarding permitting)</u> : 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.	Yes	No
(Applied to permanent pits)	XNA	_
- 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.	1.1	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes	XNo
 Written confirmation or verification from the municipality; Written approval obtained from the municipality 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.	[]Ver	XNo
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 		A.10
Within a 100-year floodplain - FEMA map	Yes	XNo

Oil Conservation Division

	and the second se		
Instructions:			tion Attachment Checklist: Subsection B of 19.15.17.9 NMAC indicate, by a check mark in the box, that the documents are attached.
X Hydro	geologic Report (Below-grade Tanks) - based up	on the requireme	nts of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
=		•	requirements of Paragraph (2) of Subsection B of 19.15.17.9
H	Criteria Compliance Demonstrations - based upo		
_			
	n Plan - based upon the appropriate requirements		
X Opera	ting and Maintenance Plan - based upon the appro-	opriate requireme	ents of 19.15.17.12 NMAC
	re Plan (Please complete Boxes 14 through 18, if 17.9 NMAC and 19.15.17.13 NMAC	applicable) - bas	ed upon the appropriate requirements of Subsection C of
Previous	y Approved Design (attach copy of design)	API	or Permit
	,		
instructions:		plication. Please is	B of 19.15.17.9 NMAC indicate, by a check mark in the box, that the documents are attached. in the requirements of Paragraph (3) of Subsection B of 19.15.17.9
H			ased upon the appropriate requirements of 19.15.17.10 NMAC
H			
	n Plan - based upon the appropriate requirements		
Opera	ting and Maintenance Plan - based upon the appro-	opriate requireme	ents of 19.15.17.12 NMAC
	re Plan (Please complete Boxes 14 through 18, if C and 19.15.17.13 NMAC	applicable) - base	ed upon the appropriate requirements of Subsection C of 19.15.17.9
Previousl	Approved Design (attach copy of design)	API	
=	Approved Operating and Maintenance Plan	API	Gu Terri a
3		1.4 100	
	Pits Permit Application Checklist: Subsection		
structions:	Each of the following items must be attached to the a	application. Please	indicate, by a check mark in the box, that the documents are attached.
Hydro	geologic Report - based upon the requirements of	Paragraph (I) of	Subsection B of 19.15.17.9 NMAC
Siting	Criteria Compliance Demonstrations - based upo	n the appropriate	requirements of 19.15.17.10 NMAC
	tological Factors Assessment	100	
	ed Engineering Design Plans - based upon the ap	propriate require	ments of 19.15.17.11 NMAC
-	Protection and Structural Integrity Design: based u		
	Detection Design - based upon the appropriate req		
-	Specifications and Compatibility Assessment - ba		
	y Control/Quality Assurance Construction and Ins		
-	ting and Maintenance Plan - based upon the appro		ents of 19 15 17 12 NMAC
<u> </u>	ard and Overtopping Prevention Plan - based upo		
	ace or Hazardous Odors, including H2S, Prevention		
_	ency Response Plan	on r an	
-			
	eld Waste Stream Characterization		
	oring and Inspection Plan		
Erosic	n Control Plan		
	e Plan - based upon the appropriate requirements	of Subsection C	of 19.15.17.9 NMAC and 19.15.17.13 NMAC
		or subsection c	
Closur		or Subsection e	
Closu Closu	osure: 19.15.17.13 NMAC	-14 [*]	
Closur roposed Cl structions:	Please complete the applicable boxes, Boxes 14 throu	igh 18, in regards	
Closu Closu coposed Cl structions: I ype: I		igh 18, in regards	
Closur coposed Cl structions: I ype: I A	Please complete the applicable boxes, Boxes 14 throw Drilling Workover Emergency Cavitati	igh 18, in regards	to the proposed closure plan.
Closur coposed Cl structions: I ype: I A	Please complete the applicable boxes, Boxes 14 throw prilling Workover Emergency Cavitati Alternative	igh 18, in regards ion P&A [(Below-	to the proposed closure plan. Permanent Pit XBelow-grade Tank Closed-loop System
Closur coposed Cl structions: I ype: I A	Please complete the applicable boxes, Boxes 14 throw orilling Workover Emergency Cavitati Alternative sure Method: XWaste Excavation and Removal	agh 18, in regards ion P&A [(Below- ystems only)	to the proposed closure plan. Permanent Pit XBelow-grade Tank Closed-loop System Grade Tank)
Closur coposed Cl structions: I ype: I A	Please complete the applicable boxes, Boxes 14 throws prilling Workover Emergency Cavitati Iternative sure Method: XWaste Excavation and Removal Waste Removal (Closed-loop sy On-site Closure Method (only for	agh 18, in regards ion P&A (Below- ystems only) or temporary pits	to the proposed closure plan. Permanent Pit XBelow-grade Tank Closed-loop System Grade Tank) and closed-loop systems)
Closur coposed Cl structions: I ype: I A	Please complete the applicable boxes, Boxes 14 throws prilling Workover Emergency Cavitati Iternative sure Method: XWaste Excavation and Removal Waste Removal (Closed-loop sy On-site Closure Method (only for In-place Burial	agh 18, in regards ion P&A (Below- ystems only) or temporary pits On-site Trenct	to the proposed closure plan. Permanent Pit XBelow-grade Tank Closed-loop System Grade Tank) and closed-loop systems) h
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Closur 4 roposed Cl sstructions: I ype: II A roposed Clo 5 Vaste Excav kase indicat X Protoc X Confir X Dispos	Please complete the applicable boxes, Boxes 14 throw prilling Workover Emergency Cavitati Liternative sure Method: Waste Excavation and Removal Waste Removal (Closed-loop sy On-site Closure Method (only for In-place Burial Alternative Closure Method (Ex- ration and Removal Closure Plan Checklist: (1) e, by a check mark in the box, that the documents are ols and Procedures - based upon the appropriate r mation Sampling Plan (if applicable) - based upor al Facility Name and Permit Number (for liquids)	agh 18, in regards ion P&A (Below- ystems only) or temporary pits On-site Trencl acceptions must be 9.15.17.13 NMAC e attached. equirements of 1 in the appropriate , drilling fluids an	to the proposed closure plan. Permanent Pit X Below-grade Tank Closed-loop System Grade Tank) and closed-loop systems) h submitted to the Santa Fe Environmental Bureau for consideration) <i>Instructions: Each of the following items must be attached to the closure plan</i> 9.15.17.13 NMAC requirements of Subsection F of 19.15.17.13 NMAC and drill cuttings)
Closur 4 roposed Cl sstructions: I ype: II A roposed Clo 5 Vaste Excav kase indicat X Protoc X Confir X Dispos	Please complete the applicable boxes, Boxes 14 throw prilling Workover Emergency Cavitati Liternative sure Method: Waste Excavation and Removal Waste Removal (Closed-loop sy On-site Closure Method (only for In-place Burial Alternative Closure Method (Ex- ration and Removal Closure Plan Checklist: (1) e, by a check mark in the box, that the documents are ols and Procedures - based upon the appropriate r mation Sampling Plan (if applicable) - based upor al Facility Name and Permit Number (for liquids)	agh 18, in regards ion P&A (Below- ystems only) or temporary pits On-site Trencl acceptions must be 9.15.17.13 NMAC e attached. equirements of 1 in the appropriate , drilling fluids an	to the proposed closure plan. Permanent Pit X Below-grade Tank Closed-loop System Grade Tank) and closed-loop systems) h submitted to the Santa Fe Environmental Bureau for consideration) () Instructions: Each of the following items must be attached to the closure plan 9.15.17.13 NMAC requirements of Subsection F of 19.15.17.13 NMAC
Closur Closur A roposed Cl structions: 1 ype: [] [4 roposed Clo Closure A roposed Clo S Vaste Excar Kaste Excar Kaste Indicat X Protocc X Confir X Dispos X Soil B	Please complete the applicable boxes, Boxes 14 throw prilling Workover Emergency Cavitati Liternative sure Method: Waste Excavation and Removal Waste Removal (Closed-loop sy On-site Closure Method (only for In-place Burial Alternative Closure Method (Ex- ration and Removal Closure Plan Checklist: (1) e, by a check mark in the box, that the documents are ols and Procedures - based upon the appropriate r mation Sampling Plan (if applicable) - based upor al Facility Name and Permit Number (for liquids)	tion P&A (Below- ystems only) or temporary pits On-site Trenct acceptions must be 9.15.17.13 NMAC e attached. equirements of 1 in the appropriate , drilling fluids an pon the appropriate	to the proposed closure plan. Permanent Pit X Below-grade Tank Closed-loop System Grade Tank) and closed-loop systems) h submitted to the Santa Fe Environmental Bureau for consideration) () Instructions: Each of the following items must be attached to the closure plan 9.15.17.13 NMAC requirements of Subsection F of 19.15.17.13 NMAC and drill cuttings) the requirements of Subsection H of 19.15.17.13 NMAC

16 Waste Removal Closure For Closed-loop Systems That Utilize Above G Instructions: Please identify the facility or facilities for the disposal of liqui are required.	round Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) ids, drilling fluids and drill cuttings. Use attachment if more than two fa	cilities	
Disposal Facility Name:	Disposal Facility Permit #:		
Disposal Facility Name:	Disposal Facility Permit #:		
Will any of the proposed closed-loop system operations and associate Yes (If yes, please provide the information No	ed activities occur on or in areas that will not be used for future se	rvice and ope	erations?
Required for impacted areas which will not be used for future service and a Soil Backfill and Cover Design Specification - based upon the Re-vegetation Plan - based upon the appropriate requirements Site Reclamation Plan - based upon the appropriate requirement	e appropriate requirements of Subsection H of 19.15.17.13 NMAC s of Subsection I of 19.15.17.13 NMAC	2	
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17 Instructions: Each siting criteria requires a demonstration of compliance in the cla certain siting criteria may require administrative approval from the appropriate di for consideration of approval. Justifications and/or demonstrations of equivalency	osure plan. Recommendations of acceptable source material are provided below istrict office or may be considered an exception which must be submitted to the S		
Ground water is less than 50 feet below the bottom of the buried was - NM Office of the State Engineer - iWATERS database search; USGS		Yes N/A	No
Ground water is between 50 and 100 feet below the bottom of the bu	ried waste	Yes	No
- NM Office of the State Engineer - iWATERS database search; USGS		N/A	
Ground water is more than 100 feet below the bottom of the buried w	vaste.	Yes	No
- NM Office of the State Engineer - iWATERS database search; USGS	; Data obtained from nearby wells	N/A	_
Within 300 feet of a continuously flowing watercourse, or 200 feet of any of (measured from the ordinary high-water mark).		Yes	No
 Topographic map; Visual inspection (certification) of the proposed sit Within 300 feet from a permanent residence, school, hospital, institution, or 	church in existence at the time of initial application.	Yes	No
- Visual inspection (certification) of the proposed site; Aerial photo: sate	illite image	□Vec	
Within 500 horizontal feet of a private, domestic fresh water well or spring t purposes, or within 1000 horizontal fee of any other fresh water well or sprin - NM Office of the State Engineer - iWATERS database; Visual inspect	ng, in existence at the time of the initial application.	Yes	
Within incorporated municipal boundaries or within a defined municipal fre pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written ap	esh water well field covered under a municipal ordinance adopted	Yes	No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map; '		Yes	No
Within the area overlying a subsurface mine.		Yes	No
 Written confirantion or verification or map from the NM EMNRD-Mi Within an unstable area. 	ning and Mineral Division		
 Engineering measures incorporated into the design; NM Bureau of Geo Topographic map 	ology & Mineral Resources; USGS; NM Geological Society;	L Yes	
Within a 100-year floodplain. - FEMA map		Yes	No
18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instruction by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate result.	ppropriate requirements of 19.15.17.10 NMAC	plan. Please	e indicate,
Construction/Design Plan of Burial Trench (if applicable) base			
	l of a drying pad) - based upon the appropriate requirements of 19.	15.17.11 NM	IAC
Protocols and Procedures - based upon the appropriate require			New York
	ppropriate requirements of Subsection F of 19.15.17.13 NMAC		SIL ST A
Waste Material Sampling Plan - based upon the appropriate re-		1.10	
Soil Cover Design - based upon the appropriate requirements of		ot be achieve	ed)
Re-vegetation Plan - 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

19	
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate	
Name (Print): Crystal Tafoya	Title: Regulatory Technician
Signature: Kup tal aboyn	Date: 12/22/2008
e-mail address: crystal tatoya@conocophitfips.com	Telephone: 505-326-9837
20 OCD Approval: Permit Application (including closure plan)	Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
	implementing any closure activities and submitting the closure report. The closure a of the closure activities. Please do not complete this section of the form until an
22	
Closure Method:	
Waste Excavation and Removal On-site Closure Method If different from approved plan, please explain.	Alternative Closure Method Waste Removal (Closed-loop systems only)
23	
Closure Report Regarding Waste Removal Closure For Closed-loop Systems	That Utilize Above Ground Steel Tanks or Haul-off Bins Only: ng fluids and drill cuttings were disposed. Use attachment if more than two facilities Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed or	
	No
Required for impacted areas which will not be used for future service and ope	
Site Reclamation (Photo Documentation)	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
	wing items must be attached to the closure report. Please indicate, by a check mark in
the box, that the documents are attached. Proof of Closure Notice (surface owner and division)	
Proof of Deed Notice (required for on-site closure)	
Plot Plan (for on-site closures and temporary pits)	
Confirmation Sampling Analytical Results (if applicable)	
Waste Material Sampling Analytical Results (if applicable)	
Disposal Facility Name and Permit Number	
Soil Backfilling and Cover Installation	
Re-vegetation Application Rates and Seeding Technique	
Site Reclamation (Photo Documentation)	
On-site Closure Location: Latitude:	Longitude: NAD 1927 1983
25	the second s
Operator Closure Certification:	report is ture, accurate and complete to the best of my knowledge and belief. I also certify that cified in the approved closure plan.
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:
Form C-144 Oil Conservation Di	ivision Page 5 of 5

	New Mexico Office of the POD Reports and I		
Township: 29N	Range: 11W Sections	:	
NAD27 X:	Y: Zone:	Search Radius:	
County: Basin	n:	Number:	Suffix:
Owner Name: (First)	(Last)	C Non-Domestic	C Domestic @ Al
POD / Surface Data Report	t Avg Depth to V	Vater Report Water	Column Report

WATER COLUMN REPORT 08/20/2008

	(quarter) (quarter)										Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng					Zone	x		Y	Well	Water	Column		,
SJ 00867	29N	11W		4	_	-					77	55	22		
SJ 01302	29N	11W	07	4	1						250	210	40		
SJ 01891	29N	11W	07	4	1	3					157				
SJ 01851	29N	11W	10	4	4						125	48	77		
SJ 02466 S	29N	11W	11	4	3	3					65				
SJ 02466	29N	11W	11	4	3	3					66				
SJ 02991	29N	11W	13	3	4	2					60				
SJ 03136	29N	11W	13	3	4	4					20				
SJ 00987	29N	11W	13	4							415	300	115		
SJ 01426	29N	11W	14	1	4						155	10	145		
SJ 00007	29N	11W	14	2	2	3					752				
SJ 03550	29N	11W	14	3	2	1					10				
SJ 01774	29N	11W	14	3	4	2					82	6	76		
SJ 03360	29N	11W	14	3	4	2					40				
SJ 03175	29N	11W	14	4	2	1					60	24	36		
SJ 03164	29N	11W	14	4	2	1					75	56	19		
SJ 03733 POD1	29N	11W	15	4	2	1					64	20	44		
SJ 02378	29N	11W	15	4	3	2					75	12	63		
SJ 03579	29N	11W	15	4	4	1					83	30	53		
SJ 02141	29N	11W	16	4	3	4					110	40	70		
SJ 02926	29N	11W	17	2	4	3					375	80	295		
SJ 03399	29N	11W	17	4	2						100				
SJ 00487	29N	11W	17	4	4						60	6	54		
SJ 02868	29N	11W	17	4	4	4					50				
SJ 01641	29N	11W	19	2	2	3					120	55	65		
SJ 02026	29N	11W	19	3	1			440000	207770	0	27	6	21		
SJ 02970	29N	11W	19	4	3	2					100	18	82		
SJ 01250	29N	11W		4	4						60	20	40		
SJ 02869	29N	11W			2	1					50				
SJ 00583	29N	11W			3						150	30	120		
SJ 01355	29N	11W			4						36	3	33		
SJ 00452	29N	11W		-							42	10	32		

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SJ 01969	29N	11W	21	2			
SJ 00701 CLW312190	29N	11W	21	2	2		
SJ 00701	29N	11W	21	2	2	1	
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SJ 03659	29N	11W		3	2	2	
SJ 01888	29N	11W		4	2	2	
SJ 02200	29N			-	-	<u> </u>	
SJ 01557	29N				2		
SJ 00796	29N			1	2		
	29N			1	2		
SJ 00704 SJ 01703				1	2		
	29N			1	2	2	
SJ 03747 POD1					2	3	
SJ 02813	29N			1	3	3	
	29N			1		1	
SJ 00484	29N			1	3	1	
SJ 00320	29N	11W			3	1	
	29N	11W		1	3	3	
SJ 00151	29N	11W		1	3	4	
	29N			1	4		
	29N			2	3	3	
SJ 02578	29N	11W		2	3	3	
SJ 03093	29N	11W		2	3	4	
SJ 03189	29N	11W	22	3	2	1	
SJ 03188	29N	TTM		3	2	2	
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SJ 00812	29N	11W	23	1	4		
SJ 03546	29N	11W	23	1	4	2	
SJ 03591	29N	11W	23	1	4	4	
SJ 01870	29N	11W	23	2			
GT 03130	29N	1 T W	23	2	1	3	
SJ 03201 SJ 03353 SJ 01610 SJ 01573	29N	11W	23	2	1	3	
SJ 03353	29N	11W	23	2	1	3	
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SJ 01573	29N	11W			3		
50 03073	2 211	TTVV	23	2	3	1	
SJ 03286	29N	11W	23		3	1	
SJ 02799	29N	11W		4	1	1	
SJ 03548	29N	11W			1	1	
SJ 01962	29N	11W		1	2	2	
SJ 03343	29N	11W		1	4	1	
SJ 03343	29N	11W			4	-	
ST 01809 0-5	291	11W				1	
GT 02121	291	11W				+	
SJ 00804 SJ 01808 0-5 SJ 02121 SJ 02210	201	11W			1		
						2	
SJ 03588	291	11W					
SJ 02227	291	11W			1		
SJ 00700	ZYN	11W	41	T	3	3	

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68	3	65
47 59	27 16	20 43
49	10	43 37
37	10	27
38	10	28
49	14	35
45	18	27
	59	
72	18	54
58 42	24 22	34 20
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27	6	21
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30	9	21
43	4	39
33 34	10 12	23
47	11	36
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50	15	35
45	15	30
44	1.5	25
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58	30	28
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60	30	30
45	25	20
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41 30	21	20
38	28	10
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52	43	9
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27	6	21
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SJ 01808 0-4	29N	11W 27	2	3	3			32	25	7
SJ 01808 0-1	29N	11W 27	2	4	2			25	17	8
SJ 01808 0-2	29N	11W 27	2	4	3			27	19	8
SJ 01808 0-3	29N	11W 27	2	4	4			39	34	5
SJ 02664	29N	11W 27	3	2				40	26	14
SJ 02664 S	29N	11W 27	3	2				38	23	15
SJ 02664 S-2	29N	11W 27	3	2				34	19	15
SJ 02664 S-3	29N	11W 27	3	2				41	30	11
SJ 02664 S-9	29N	11W 27	3	2				33	19	14
SJ 02664 S-4	29N	11W 27	3	2				42	30	12
SJ 02664 S-10	29N	11W 27	3	2				33	19	14
SJ 02664 S-5	29N	11W 27	3	2				41	30	11
SJ 02664 S-6	29N	11W 27	3	2				40	28	12
SJ 02664 S-7	29N	11W 27	3	2				37	23	14
SJ 02664 S-8	29N	11W 27	3	2			a:	35	25	10
SJ 02148	29N	11W 27	4	2				305	186	119
SJ 01808 0-6	29N	11W 27	4		1			50		
SJ 03762 POD1	29N	11W 28	1	1		267348	2075529	27	15	12
SJ 03476	29N	11W 28		1	2			65		
SJ 03415	29N	11W 28			1			60	20	40
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SJ 02330	29N	11W 28		1	-			128	115	13
SJ 03021	29N	11W 28		1	3			16	5	11
SJ 01606	29N	11W 28	2	2				35	8	27
SJ 03468	29N	11W 28	2	4		367704	2073506	50		2.
SJ 03469	29N	11W 28	2	-	3		2010000	50		
SJ 02713	29N	11W 28			1			26	12	14
SJ 02858	29N	11W 28		1				40		
SJ 02714	29N	11W 28		2				43	28	15
SJ 02708	29N	11W 28		2				26	12	14
SJ 03149	29N	11W 28			2			60	35	25
SJ 03475	29N	11W 29			3			40	20	20
SJ 00292	29N	11W 29		1	4			24	9	15
SJ 01554	29N	11W 29	2	2				35	18	17
SJ 02038	29N	11W 29		1				14	4	10
SJ 03298	29N	11W 29		1	1			70	6	64
SJ 02023	29N	11W 29		2				24	7	17
SJ 02182	29N	11W 29	4	2				27	11	16
SJ 00822	29N	11W 29		3				34	15	19
SJ 03421	29N	11W 29	4		3			50	28	22
SJ 01391	29N	11W 30	2					40	25	15
SJ 03348	29N	11W 30	2	1	3			60		
SJ 01260	29N	11W 30	2					42	16	26
SJ 01264	29N	11W 30	2					27	12	15
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SJ 01821	29N	11W 30	2					70	6	64
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SJ 02922	29N	11W 31	3		2			75		100
SJ 03795 POD1	29N	11W 31	3			266438	2067001	75	45	30
SJ 03541	29N	11W 31	3					80	40	40
SJ 00441	29N	11W 32	2							
SJ 00103	29N	11W 32	4		4			263		
SJ 00103 S	29N	11W 32	4					254		
SJ 03666	29N	11W 33	2					49	30	19
50 00000			-	-	5			4.5	50	19

Record Count: 145

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New Mexico Office of the State Engineer POD Reports and Downloads

County: Basin: Basin: (Last)	Number: Suffix:
Owner Name: (First) (Last)	
	C Non-Domestic C Domestic @ All
POD / Surface Data Report Av	g Depth to Water Report Water Column Report

WATER COLUMN REPORT 08/21/2008

							3=SW 4=SE) smallest)			Depth	Depth	Water	(in
POD Number	Tws	Rng	Sec	q	q	g	Zone	х	Y	Well	Water	Column	
SJ 03193	28N	11W	07	3	4	3				80	35	45	
SJ 02916	28N	11W	07	3	4	4				98	70	28	

Record Count: 2

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	New	Mexico Office of POD Reports ar					
Te	wnship: 28N Rang	ge: 10W Secti	ions:				
NAD	27 X: Y	: Zoi	ne:	Search	Radius:		
County:	Basin:		· Nu	umber:	Suffix	K:	-
Owner Name:	First)	(Last)		C Non-Do	mestic CD	omestic @	All
POD / Su	rface Data Report	Avg Depth	to Water Repo	ort	Water Colu	mn Report	1
	Clea	Ir Form	TERS Menu	Help			
	1				-		-
		WATER COLUM		8/21/2000	В		
POD Number	(quarters are 1= (quarters are bi Tws Rng Sec	iggest to small			Depth Dep Well Wate		(in
No Records four	nd, try again						

New Mexico Office of the State Engineer

Township	29N Range: 10W	Sections:	CANADAR TANA ANY ANA ARA ARA ARA ARA ARA ARA ARA ARA ARA	
NAD27 X:	Y:	Zone:	Search Radius:	
County:	Basin:	•	Number: Suffix:	
Owner Name: (First)	(Last)		C Non-Domestic C Domes	stic @ All
POD / Surface Da	ata Report Ave	Depth to Water F	Report Water Column R	eport

WATER COLUMN REPORT 08/20/2008

	(quarter	s are	a big	gge	st	t	3=SW 4=SE o smallest	60 - C		Depth	Depth	Water	(in	feet)
POD Number		Rng		Q	g	q	Zone	x	X	Well	Water	Column		
RG 36732 DCL	29N	10W		2						500	450	50		
SJ 00785 S	29N	10W	04	2	4	2				20				
SJ 00680	29N	10W	13	2	2					40	10	30		
SJ 00785 NEW	29N	10W	13	4						60	20	40		
SJ 00785 S-2	29N	10W	13	4						60	20	40		
SJ 03023	29N	10W	18	1	3	1				90	65	25		
SJ 03502	29N	10W	18	1	3	1				· 150				
SJ 03081	29N	10W	18	3	1	4				20				~
SJ 02078	29N	10W	19	3	1	1				40	9	31		
SJ 00303	29N	100	19	3	3				8	20	5	15		
SJ 02860	29N	10W	19	4	4	4				21	2	19		
SJ 02900	29N	10W	20	3	1	2				70				
SJ 01140	29N	100	20	3	2	2				25	6	19		
SJ 01990	29N	10W	20	4	1					40	12	28		
SJ 02548	29N	10W	20	4	4					12	2	10		
SJ 02547	29N	10W	20	4	4					12	2	10		
SJ 03535	29N	10W		3	2	3				15				
SJ 03455	29N	10W		3						20	17	3		
SJ 03456	29N	10W		3						20	17	3		
SJ 03441	29N	10W		4	3					40	30	10		
SJ 03470	29N	10W			3					20	7	13		
SJ 01474	29N	10W			4					25				
SJ 03180	29N	100		4		4				50	15	35		
SJ 03713 POD1	29N	100			3	-				265	20	245		
SJ 02820	29N	10W		4		1				82	16	:66		
SJ 02896	29N	100		1		1				110	34	76		
SJ 02275	29N	10W		1		2				40	20	20		
	29N	100		2		2				33	20	20		
SJ 00092					1000						20	100		
SJ 02802	29N	100		3	1					132	30	102		
SJ 02907	29N	100		3	2	3				60	10			
SJ 02122	29N	100		4	1	~				60	12	48		
SJ 01019	29N	100	26	4	3	3				50	4	46		

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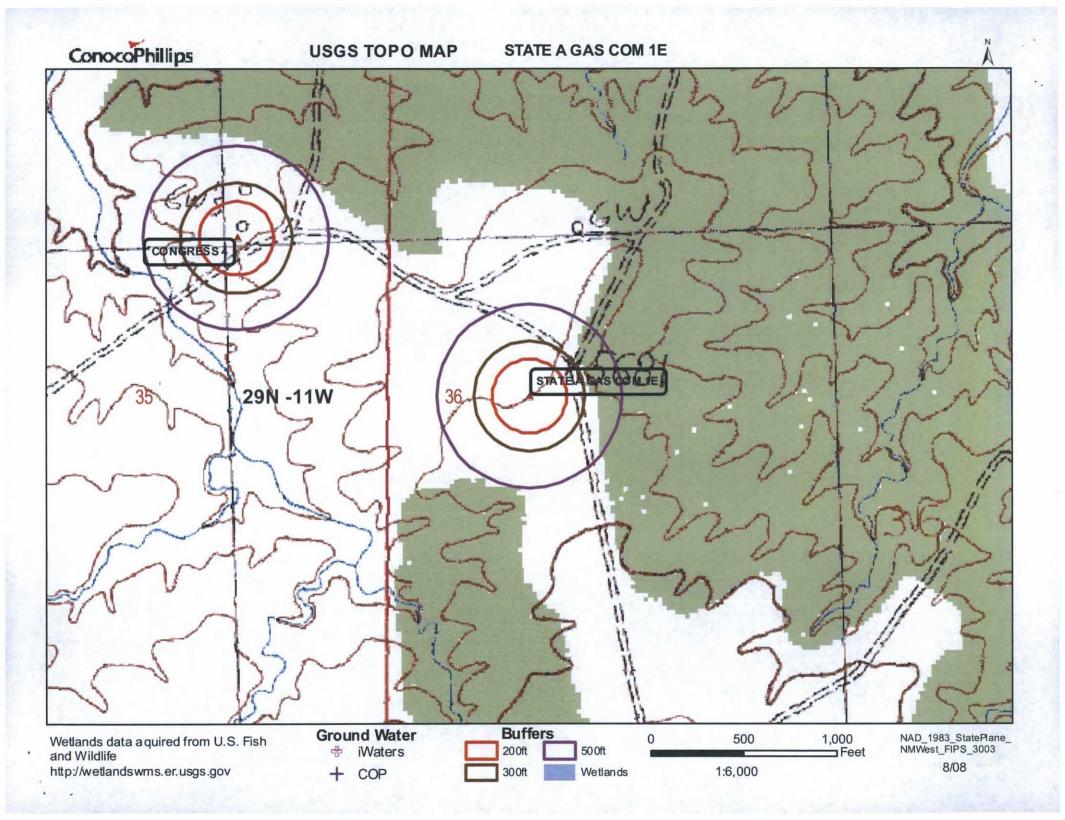
New Mexico Office of the State Engineer

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SJ	02216		29N	1000	28	1	2	
SJ	03582		29N	10%	28	1	3	3
SJ	02151		29N	10%	28	2	1	2
SJ	03652		29M	1010	28	2	2	1
SJ	03142	R 18.	29N	10%	28	2	2	2
SJ	03637	0.06	29M	1.0%	28	2	3	1
SJ	03582	POD2	29N	10%	28	2	3	3
SJ	02840	1997 - C	29N	106	28	3	4	1
SJ	00506	1811	29N	100	28	4	3	
SJ	00662		29N	100	28	4	4	3
SJ	00497	Lit into 2 -	29N	100	29	3	2	3
SJ	03777	POD1	29N	100	29	4	4	2
SJ	00473	State of the	29N	100	30	2	4	
SJ	03743	POD1	29N	100	33	4	4	3
SJ	01051	States The	29N	100	35	2	2	2
SJ	01050		29N	100	36	1	4	

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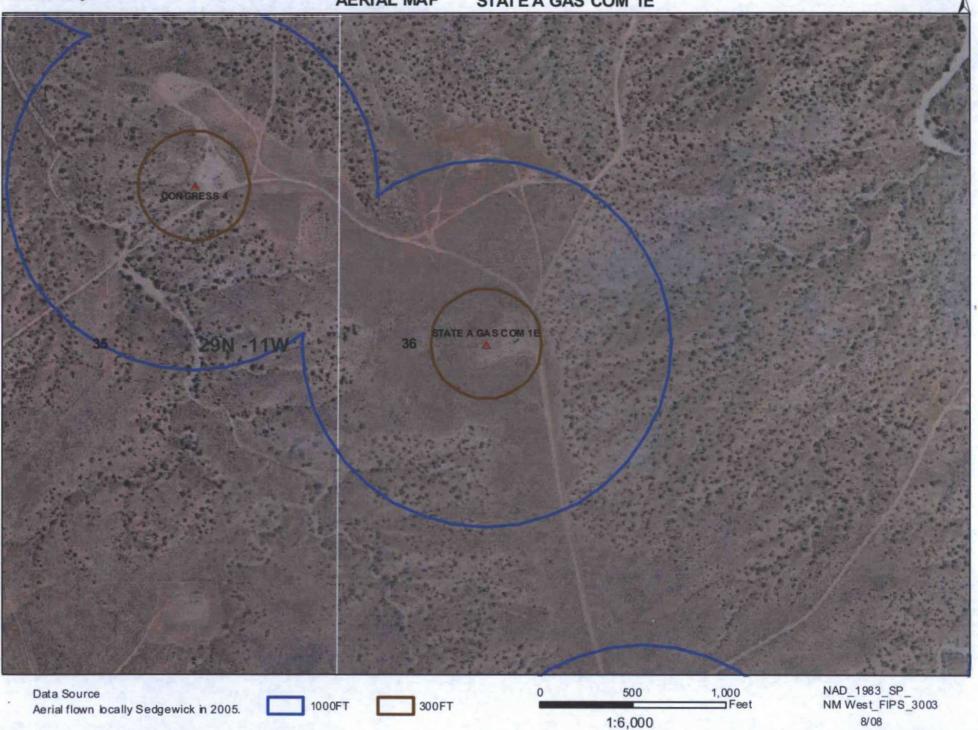
		50	31	19
		30	7	23
		10	4	6
484600	2075600	37	20	17
		34	6	28
		38	22	16
		21	10	11
		28	5	23
		55	32	23
		78	55	23
		93	70	23
		85	35	50
270344	2071311	100	50	50
		58	10	48
		490	140	350
		90	30	60
		85	38	47

Record Count: 49



ConocoPhillips

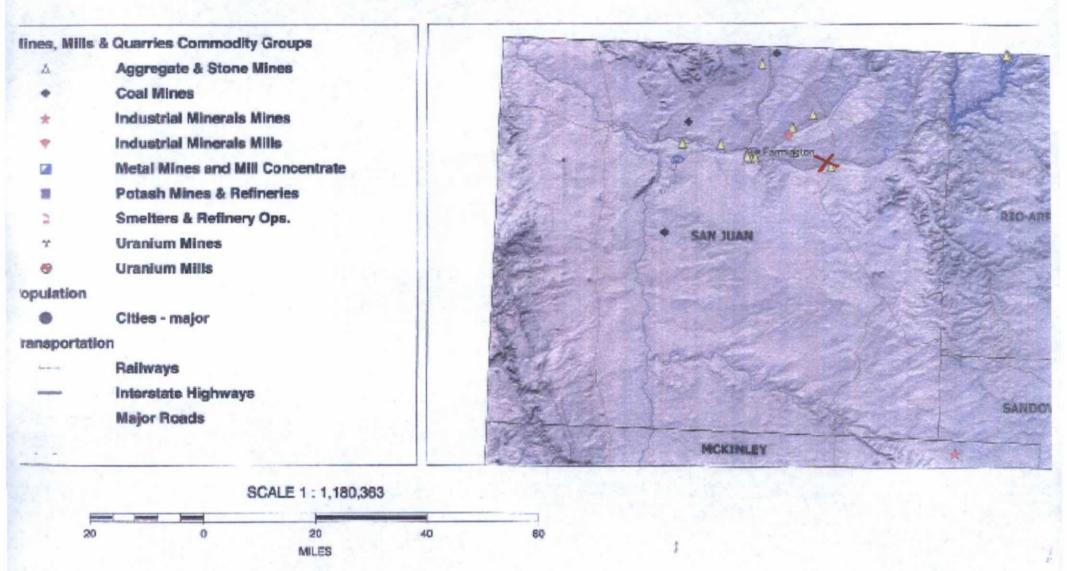
AERIAL MAP STATE A GAS COM 1E

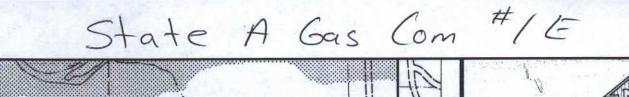


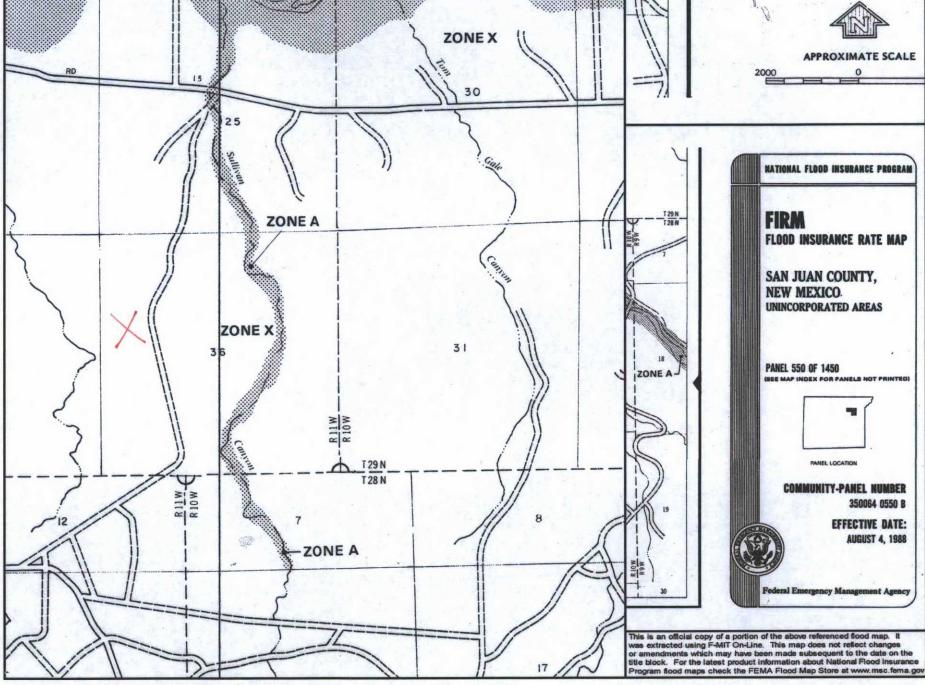
Mines, Mills and Quarries Web Map

STATE A GAS COM 1E

Unit Letter: E, Section: 36, Town: 029N, Range: 011W







STATE A GAS COM 1E

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'STATE A GAS COM 1E', which is located at 36.683391 degrees North latitude and 107.9485 degrees West longitude. This location is located on the Bloomfield 7.5' USGS topographic quadrangle. This location is in section 36 of Township 29 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 Bloomfield, located 2.8 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 14.7 miles to the west (National Atlas). The nearest highway is US Highway 550, located 2.3 miles to the west. The location is 0.5 fact land and is 1,089 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Upper San Juan. Colorado. New Mexico, Sub-basin. This location is located 1738 meters or 5700 feet above sea level and receives 9.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinion-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 313 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 1,134 feet to the southwest and is classified by the USGS as an intermittent stream. The nearest perrenial stream is 3,526 feet to the southwest. The nearest water body is 3,526 feet to the southwest. It is classified by the USGS as an intermittent lake and is 0.5 acres in size. The nearest spring is 14,759 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 5,697 feet to the north. The nearest wetland is a 5.2 acre Freshwater Pond located 6,188 feet to the northwest. The slope at this location is 2 degrees to the northeast as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION--Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Doak-Sheppard-Shiprock association, rolling' and is well drained and not hydric with moderate erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 16.6 miles to the west as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

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

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

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

Hydraulic Properties:

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

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

References:

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

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

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

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

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

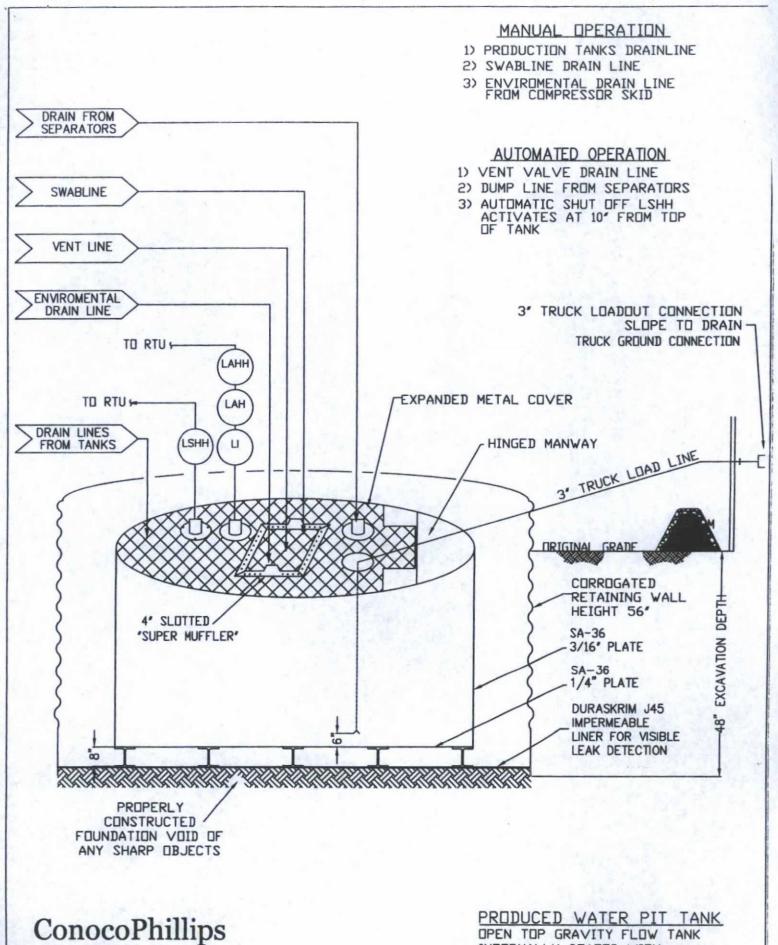
ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

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

General Plan:

- COPC will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment.
- COPC signage will comply with 19.15.3.103 NMAC when COPC is the operator. If COPC is not the operator it will comply with 19.15.17.11NMAC. COPC includes Emergency Contact information on all signage.
- 3. COPC has approval to use alternative fencing that provides better protection. COPC constructs fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church. COPC ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- COPC will construct a screened, expanded metal covering, on the top of the BGT.
- COPC shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- The COPC below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. COPC will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

- 9. COPC has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the COPC MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from COPC's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- The general specification for design and construction are attached in the COPC document.



San Juan Business Unit

DPEN TOP GRAVITY FLOW TANK INTERNALLY COATED WITH 12-14 MILS AMERON AMERCOAT 385

DURA-SKRIM®

J30, J36 & J45

PROPERTIES	TEST METHOD	J3	088	J36	68 8	J45	BB
		Min. Roli Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages
Appearance		Black	k/Black	Black	/Black	Black	Black
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)
Construction		**Extr	usion laminated	with encapsula	ted tri-direction	al scrim reinford	cement
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
Maximum Use Temperature		180° F					
Minimum Use Temperature		-70° F					

MD = Machine Direction DD = Diagonal Directions

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

*Dimensional Stability Maximum Value

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

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



PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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



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 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.
- 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:

- 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.
- COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- COPC will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.
- 5. COPC shall test the soils beneath the below-grade tank to determine whether a release has occurred. COPC shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 50 mg/kg; and the chloride concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. COPC shall notify the division of its results on form C-141.

- If COPC or the division determines that a release has occurred, then COPC shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.
- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 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

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

19.15.17.9 Permit application

Signed C-144 (Page 5 of C-144)

Site Specific Hydrogeology

19,15.17.10 Siting requirements

New Mexico Office of State Engineer attachment

USGS TOPO map

Aerial Map

Mines, Mills and Quarries Web Map

FIRM map (flood insurance rate map from Federal Emergency Management Agency)

19.15.17.11 Design Plan Contents

Below Grade Tank Design and Construction Plan.

19.15.17.12 Operating and Maintenance Plan

Below Grade Tank Operating and Maintenance Plan

19.15.17.13 Closure Plan

Below Grade Tank Closure Plan

Requirements:

Registration Date: 3/25/2016