Distraet I

 $1625\ N.$  French Dr , Hobbs, NM 88240

District II

1301 W Grand Ave, Artesia, NM 88210

District III

1000 Rio Brazos Rd , Aztec, NM 87410

District IV

State of New Mexico Energy Minerals and Natural Resources

Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

July 21, 2008 temporary pits, closed-loop sytems, and below-grade

Form C-144

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

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

1220 S. St. Francis Dr., Santa Fe, NM 87505			appropriate NMOCL	District Office.
	Pit, Closed-Loop Sy			
Propos	sed Alternative Metl	hod Permit or Cl	osure Plan App	lication
Type of action:	X Permit of a pit, closed-lo	oop system, below-grad	e tank, or proposed al	ternative method
	Closure of a pit, closed-l	oop system, below-gra-	de tank, or proposed	alternative method
	Modification to an existi	ing permit		
	- ·	• •	•	ed pit, closed-loop system,
Tourse of the Division In the	below-grade tank, or pro	•		
Instructions: Please submit one app	this request does not relieve the operat	-		
environment. Nor does approval reliev	•	•	•	• • •
Operator: ConocoPhillips Company			OGRID#: 2178	17
Address: PO Box 4289, Farmington	ı, NM 87499		<u> </u>	
Facility or well name: San Juan 32-7	Unit 37F			
API Number: 30-	-045-34071	OCD Permit Nun	nber:	
U/L or Qtr/Qtr: O(SW/SE) Section	n: 8 Township:	32N Range:	7W County:	San Juan
Center of Proposed Design: Latitude:	36.99126	°N Longitude:	107.58781	°W NAD: ☐ 1927 🗓 1983
Surface Owner: X Federal	State Private	Tribal Trust or Inc	lian Allotment	
2				
Pit: Subsection F or G of 19.15.17.	.11 NMAC			
Temporary: Drilling Work	over			
	rvitation P&A		-, (, [	
	ner type: Thickness	mil LLDPE _	HDPE PVC	Other
String-Reinforced				
Liner Seams: Welded Fac	ctory Other	Volume:	bbl Dimensions	x Wx D
3			•	
	on H of 19.15.17.11 NMAC	to one of Delling (Amelia		-in- maion annual of a manual on
Type of Operation: P&A	, ,	ce of intent)	s to activities which requ	uire prior approval of a permit or
Drying Pad Above Groun	nd Steel Tanks Haul-off I	Bins Other		
Lined Unlined Liner	type: Thickness	_milLLDPE _	HDPE PVD	Other
Liner Seams: Welded Fac	ctory Other			
4				
X Below-grade tank: Subsection I	of 19.15.17.11 NMAC			
Volume: 120 bb	of Type of fluid: Proc	duced Water		

Alternative Method:

Liner Type:

Tank Construction material:

Visible sidewalls and liner

Secondary containment with leak detection

Thickness

45

mil

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

X Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

X Other

LLDPE

Other

Oil Conservation Division

PVC

Metal

Visible sidewalls only

HDPE

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary puts, and below-grade tanks)									
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)									
Four foot height, four strands of barbed wire evenly spaced between one and four feet									
X Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top.									
7									
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  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:									
Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration (Fencing/BGT Liner)	eration of appr	roval.							
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.									
10		·							
Siting Criteria (regarding permitting) 19.15.17.10 NMAC									
Instructions: The applicant must demonstrate compliance for 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	Yes	XNo							
(measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site									
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial 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	<u> </u>	_							
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)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA								
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	Yes	XNo							
- Written confirmation or verification from the municipality; Written approval obtained from the municipality  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	XNo							
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	X No							
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological		<u></u>							
Society; Topographic map Within a 100-year floodplain FEMA map	Yes	XNo							

Form C-144 Oil Conservation Division Page 2 of 5

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached
X  Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
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
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of
19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design)  API or Permit
12
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 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 ☐ Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Alternative
Proposed Closure Method: X Waste Excavation and Removal  Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
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
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
<ul> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>
CO. 1. 1. C. 10. 15. 17. 12. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Form C-144 Oil Conservation Division Page 3 of 5

Waste Removal Closure For Closed-loop Systems That Utilize	Above Ground Steel Tanks or Haul-off Bins Only:(19.15.17.13 D NMAC)							
facilities are required	l of liquids, drilling fluids and drill cuttings. Use attachment if more than two	,						
Disposal Facility Name.	Disposal Facility Permit #:							
Disposal Facility Name:	Disposal Facility Permit #:							
	associated activities occur on or in areas that will nbe used for future No	e service and						
Required 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 NMAC  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								
17								
Siting Criteria (Regarding on-site closure methods only:		D						
certain siting criteria may require administrative approval from the approp	n the closure plan. Recommendations of acceptable source material are provided below ortate district office or may be considered an exception which must be submitted to the S of equivalency are required Please refer to 1915 1710 NMAC for guidance							
Ground water is less than 50 feet below the bottom of the b - NM Office of the State Engineer - iWATERS database sean		Yes No						
Ground water is between 50 and 100 feet below the bottom	of the buried waste	Yes No						
- NM Office of the State Engineer - iWATERS database search		N/A						
Ground water is more than 100 feet below the bottom of the	e buried waste.	☐ ☐Yes ☐No						
- NM Office of the State Engineer - iWATERS database searce		N/A						
Within 300 feet of a continuously flowing watercourse, or 200 feet (measured from the ordinary high-water mark)	of any other significant watercourse or lakebed, sinkhole, or playa lake	Yes No						
- Topographic map; Visual inspection (certification) of the pro	pposed site							
Within 300 feet from a permanent residence, school, hospital, insti - Visual inspection (certification) of the proposed site; Aerial p		Yes No						
		Yes No						
Within 500 horizontal feet of a private, domestic fresh water well o purposes, or within 1000 horizontal fee of any other fresh water we - NM Office of the State Engineer - iWATERS database; Visu	* *							
pursuant to NMSA 1978, Section 3-27-3, as amended	cipal fresh water well field covered under a municipal ordinance adopted	Yes No						
Written confirmation or verification from the municipality, \     Within 500 feet of a wetland	vritten approval obtained from the municipality	∏Yes ∏No						
- US Fish and Wildlife Wetland Identification map, Topograp	hic map, Visual inspection (certification) of the proposed site							
Within the area overlying a subsurface mine.		Yes No						
- Written confiramtion or verification or map from the NM EM	NRD-Mining and Mineral Division							
	eau of Geology & Mineral Resources; USGS; NM Geological Society;	Yes No						
Topographic map Within a 100-year floodplain.		☐Yes ☐No						
- FEMA map								
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) In by a check mark in the box, that the documents are attach	astructions: Each of the following items must bee attached to the clo	osure plan. Please indicate,						
Siting Criteria Compliance Demonstrations - based of	upon the appropriate requirements of 19.15.17.10 NMAC							
· · · · · · · · · · · · · · · · · · ·	propriate requirements of Subsection F of 19.15.17.13 NMAC							
	cable) based upon the appropriate requirements of 19.15.17.11 NMAC							
	place burial of a drying pad) - based upon the appropriate requirement	s of 19.15.17.11 NMAC						
Protocols and Procedures - based upon the appropria	•	44.0						
<del>     </del>	upon the appropriate requirements of Subsection F of 19.15.17.13 NM	MAC						
1 <b>-</b>	ropriate requirements of Subsection F of 19.15.17.13 NMAC	de connet he achieved						
	aids, drilling fluids and drill cuttings or in case on-site closure standar	us cannot be achieved)						
Soil Cover Design - based upon the appropriate required Re-vegetation Plan - based upon the appropriate req								
. —	requirements of Subsection G of 19.15.17.13 NMAC							

Form C-144 Oil Conservation Division Page 4 of 5

19 Operator Application	. Cortification:			
	if Certification:  Information submitted with this application is true, accurate	ate and complete to the b	est of my knowledge and belief.	
Name (Print):	Dollie L. Busse	Title:	Staff Regulatory Technician	
Signature:	Millie Lause	Date:	11-17-09	
e-mail address:	datlie.l.busse@conocophillips.com	Telephone:	505-324-6104	
20				
20 OCD Approval:	Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)	
OCD Representative	Signature:	·	Approval Date: /-5-10	
	60000		Approval Date: 7 3 1	
Title:	uvico Paper	OCD Peri	nit Number:	
21				
	ired within 60 days of closure completion): Sub-			
-			re activities and submitting the closure report. The closure  Please do not complete this section of the form until an	
	as been obtained and the closure activities have been co			
		Closur	e Completion Date:	
22	<del></del>			
Closure Method:	_			
Waste Excavatio	<b></b>	Alternative Closure	Method Waste Removal (Closed-loop systems only)	
If different from	approved plan, please explain			
23				
	ing Waste Removal Closure For Closed-loop Systems atify the facility or facilities for where the liquids, drilli		ound Steel Tanks or Haul-off Bins Only: gs were disposed. Use attachment if more than two facilities	
were utilized.	may the factory of factories for the tile inquites, armi	ng jimas ma ura vama	go were ansposed. Ose anaemient y more man two jucumes.	
Disposal Facility Nan		· ·	y Permit Number:	
Disposal Facility Nan		-	y Permit Number	
	system operations and associated activities performed of se demonstrate complilane to the items below)	No	be used for future service and operations?	
	d areas which will not be used for future service and opi			
	(Photo Documentation)			
=	and Cover Installation			
Re-vegetation Ap	pplication Rates and Seeding Technique			
Closura Papart At	ttachmant Charklist: Instructions: Each of the foll	awing itams must be atte	sched to the closure report. Please indicate, by a check mark in	
the box, that the doci		owing tiems must be uitt	ched to the closure report. Theuse matches, by a check mark in	
<u></u>	re Notice (surface owner and division)			
=	Notice (required for on-site closure)			
	on-site closures and temporary pits)			
L	Sampling Analytical Results (if applicable)			
	Sampling Analytical Results (if applicable)			
	ty Name and Permit Number g and Cover Installation			
<u></u>	Application Rates and Seeding Technique			
<b>=</b> -	on (Photo Documentation)			
On-site Closure	,	Longitude:	NAD	
25				
Operator Closure Ce		wannest to true a commit	and complete to the best of my buouledge and belief. I also south the	at
	nformation and attachments submitted with this closure h all applicable closure requirements and conditions spe		and complete to the best of my knowledge and belief. I also certify the osure plan.	ut
Name (Print):		Title:		
name (rimi):		1 Itic.		
Signature:		Date:		
e-mail address:		Telephone:		



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

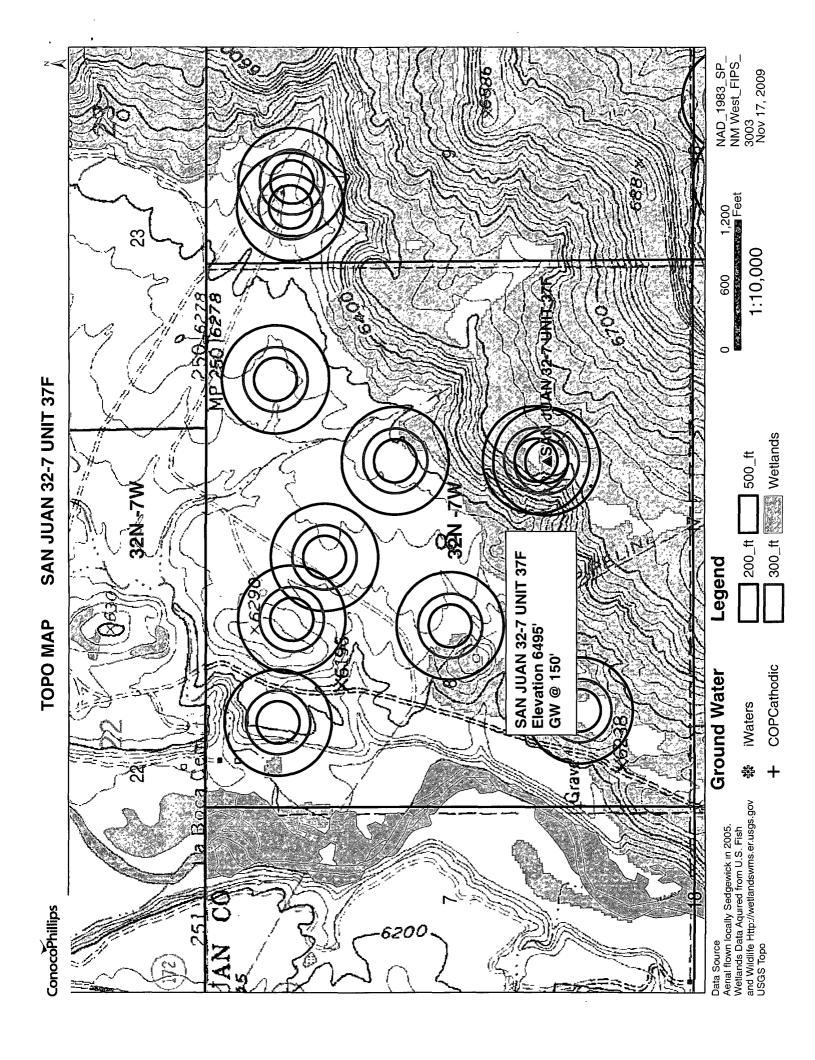
(quarters are 1=NW 2=NE 3=SW 4=SE)

		(quarte	rs a	re s	ma	llest	to larg	est)	(NAD83 UTN	1 in meters)		(In feet)	
	Sub	SKESEPIERS KANDANA	dido de	4	27	フキルピ	in, dhi ji iyo i 1,7 kuljos (k.g.) , d. Lo	ra a series de la companya de la co La companya de la co		7		epth Wa	A. Direct
POD Number	basin, Use C	ounty	64	, I O	<u> </u>	Sec	<u>, I</u> ws	rng.		5.4	AAGIISA	VaterColu	min
SJ 03117 POD1	DOL	SJ	2	2	2	07	32N	07W	268539	4097977	160	120	40
SJ 03820 POD1	MUL	SJ	2	2	4	07	32N	07W	268651	4097448	160	100	60
									Avera	age Depth to	o Water:	110 feet	
										Minimun	n Depth:	100 feet	
										Maximum	Depth:	120 feet	

**Record Count: 2** 

PLSS Search:

**Section(s):** 4, 5, 6, 7, 8, 9, Township: 32N Range: 07W 16, 17, 18



Submit To Appropr Two Copies	nate Distric	t Office				State of Ne							111112		Fo	rm C-105	
District : 1625 N French Dr.	thist.* Energy, Minerals and Natural Resources 1 N French Dr. Hobbs, NM 88240											July 17, 2008					
District II 1301 W. Grand Ave			a		Δ"				1. WELL API NO. 30-045-34071								
District III				Oil Conservation Division							2. Type of Lease						
District IV	Rio Brazos Rd., Aziec. NM 87410 1220 South St. Francis Dr.									}	STATE FEE FED/INDIAN						
1220 S St. Froncis Dr., Santo Fe, NM 87505 Santa Fe, NM 87505 3 State Oil & Cas Lease No.																	
4. Reason for fili	WELL COMPLETION OR RECOMPLETION REPORT AND LOG										5	200		t Agreeme			
	COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)										San Juan	32-7	Unit				
										ı	6. Well Number	<b>a</b> :	<sup>37</sup> EC	VD AUG	44	98	
C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plot to the C-144 closure report in accordance with 19.15.17.13.K NMAC)										or			OH	L CONS	. DI	J.	
7. Type of Comp	letion:										····			PARC 7			
				DEEPE	NING	PIJUGBACK		DIFFER	ENT RESERV	OIR		FA12		DIST.	<u>.</u>	<del></del>	
8. Name of Opera	tor Car	iocoPh	llips							1	9. OGRID 21	17817	•				
10. Address of O		·									11. Pool name	or Wil	deat E	lasin DK/E	Stance	MV	
P. O. Box 4289, 1	Farming	on, NM 87	499-428	9						1							
12.Location	Unit Ltr	Section	n	Towns	hip	Range	Lot		Feet from t	he	N/S Line	Feet (	rom the	E/W Line	=	County	
Surface:	0	8		32N		7W			660'	寸	s	1785		E			
вн:										_				<b></b>			
13. Date Spudded	1 14. D	ate T.D. Re		IS E	ate Rig	Released		11			(Ready to Produ	(931		Elevation			
10/3/97 18. Total Measur	od Denth	10/24/0	7	10.0	lua Baa	10/26/07 k Measured Dop	at.		7/15	• • •	Survey Made?			Γ, GR, etc.)			
8101°	ou ochu	DI YYCII		8101		ic ividasareu izeb	FEEE	2	u. Was Direct	M M		1	21. 1 <b>y</b> pi	GR/C		ter Logs Run L	
22. Producing Int				Top, Bot	tom, Na	me			***************************************								
Bianco Mesa	verde	5302'-	<u>- 6038'</u>														
23. CASING SIZ	7E	Weig	HT LB./		CAS	ING RECO	<u>DRI</u>		port all sti IOLESIZE	ring			onn I		15.05	NIII I FFR	
9 5/8"	ZIC	32.3#, 1		***************************************		229'	+		12 1/4"		CEMENTING RECORD AMOUNT PULLED 76 sx (122 cf) 3 bbls						
7**		20#, J	_~			3659'	寸	******	8 ¾"		533 sx (1		<del></del>	56 bbls			
4 1/2"			1.6#, J			8016°		6 4"			336 sx (		TOC - 3230'				
		ST&	C/LT&	έC													
· · · · · · · · · · · · · · · · · · ·									····								
24.					LIN	ER RECORD	1			25.	<u>                                     </u>	IBIN	G RECO	ORD			
SIZE	TOP		80	ТОМ		SACKS CEM	ENT	SCRE	EN	SIZ	E	· · · · · · · · · · · · · · · · · · ·	PTH SET		ACK	R SET	
										2 3/	8", 4.7#, J-55	80	35'	1	ŀΑ		
26. Perforation		meanial alm				<u> </u>		07 1	CID CUOT	<u></u>	CONTRACTOR	1	c corn	TERE FA			
.34" @ 1 SPF	record (1	nicival, size	, and nu	INDET)					CID, SHUT, HINTERVAL		ACTURE, CE						
PLO 5629' 60 MF/CH 5302'									·- 6038'		A/10 bbls 15	% HC	L. Frac	w/45,948	gals 6	O slickwater	
	holes = 6										N2 foaro, w/l	00,80	0# 20/40	Brady Sai	nd. N	2 = 1,279,500	
								5302	' <del>- 5569</del> '		A/10 bbls 15% HCL. Frac w/44,310 gals 60Q slick N2 foam, w/100,000# 20/40 Brady Sand. N2 = 1,26						
											SCF.	.,00,00	UH ZWAN	Brady 52	AO. IN	2 = 1,264,500	
				···													
28.	<del></del>								CTION	,	160 55	75.					
Date First Produc	tion 6/08		Produc	ion Met	nod (Fil	wing, gas lift, pt	umpin	g - Size o	та суре ритр	)	Well Status	(Produ		4m)			
D. C. P. P.	77		Lac	1.6		<u> </u>								1.2		W D - 42-	
Date of Test 7/7/08	Hour	Tested 4 hrs	Ch	oke Size %"		Prod'n For Test Period		Oil-B 	0   	Gas	- MCF 44 mef	Wa	ter - Bbi. trace		jas - C	il Ratio	
w m:	<del></del>		<del></del> _						1.40			<u> </u>	02.0				
Flow Tubing Press.		g Pressure SI-416#		culated 2 or Rate	44-	Oil - Bbl. 0		Ģa I	s - MCF 1056 mefd	1	Water - Bbl. 4 bwpd		On Gra	vity - API	- (Cor	r.)	
SI-614#		7.7	4.0	10.00 -2.00			·			ᆚ		70 T	of Militar	anna Pri			
29. Disposition of	•			. ,		. nu/ - 1475 17					1	3u. 16	est Witne	azon DÀ			
This is a comming 31. List Attachm		HUK being	commi	igica pe	r yrdei	UNC 2475AZ					L						
													***********				
32. If a temporar			-														
33, It an on-site t	33. If an on-site burial was used at the well, report the exact location of the on-site burial:																
						Latitude			h		Longitude				IA'V	D 1927 1983	
									8								

### OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT DATA SHEET: NORTHWESTERN NEW MEXICO

OPERATOR: ConocoPhilips CO. FARMINGTON, NM 87401

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFICE	PHONE; 599-3400
LOCATION INFORMATION	API Number
WELL HAME OR PIPELINE SERVED San Juan 32-7# 39 TEGAL I	LOCATION: SCISTSAVA O NISTALLATION DATE 10/1/08
PPCO. RECTUTER NO. ADDITIONAL WELLS: 24/	94
TYPE OF LEASE: LEASE NUMBER:	PEE
GROUND BED INFORMATION	
TOTAL DEPTH: 300 CASING DIAMETER: 8' TYPE OF CAS	THE BUC CASING DEPTH 201 CASING CEMENTED. 20
TOP ANDREBETTE 300 BOTTOM ANDREBETTE 3-20	•
ANCOR DEPTHS: 240 280 3500 300 350, 340 33	10,320, 10, 500
AMOUNT OF COKE 2600/65	
WATER INFORMATION	•
WATER DEPTH IL 150 NOVEMAIER DEPTH 121 None	•
CAS BEPTH 4012 CHARM PLUCS: NOV	
OTHER INFORMATION	
TOP OF WEAT PERFORATIONS: 140 YEAT POPE DEPTH: 300	
REMARKS:	
	·

IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED WELLS ARE TO BE INCLUDED.

\*- LAND TYPE MAY BE SHOWN: F-FEDERAL; I-INDIAN; S-STATE; P-FEE IF FEDERAL OR INDIAN, ADD LEASE NUMBER.

Tuesday, October

#### TIERRA CORROSION CONTROL, INC. **DRILLING LOG**

COMPANY: Conoco Phillips LOCATION: San Juan 32-7 #37F

STATE: NM BIT SIZE: 7 7/8"

LBS COKE BACKFILL: 2,600# ANODE TYPE: 2" x 60" Duriron DATE: September 30, 2008

LEGALS: Sec8 T32N R7W DRILLER: Gilbert Peck

CASING SIZE/TYPE: 8" X 20' PVC VENT PIPE: 300'

ANODE AMOUNT: 10

COUNTY: San Juan

**DEPTH: 300'** 

COKE TYPE: Asbury

PERF PIPE: 140'

**BOULDER DRILLING: None** 

25	DEPTH	DRILLER'S LOG	AMPS	DEPTH	DRILLER'S LOG	AMPS
35	20	Casing				
35		Gray Shale				
40 46 50 12 335 50 12 340 55 12 340 55 60 12 340 55 60 13 350 68 14 355 70 14 360 77 14 360 77 14 360 77 15 12 366 80 80 14 376 80 80 14 376 80 80 14 370 85 80 80 14 370 85 80 80 14 370 85 80 95 12 380 95 12 380 16 395 17 100 16 395 1100 16 395 1100 16 16 395 1110 16 400 1115 15 15 15 15 15 15 15 15 15 15 15 1						
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50						
56						
60				·		
65	55			345		
To			1.3			
75 80 80 1.4 370 85 80 1.4 370 86 80 85 1.1,1 375 90 85 2.0 386 100 2.0 386 100 100 2.0 390 1105 110 116 395 1110 116 400 115 115 11.5 405 120 126 127 128 1280 1280 1280 1280 1280 1280 1280	65		1.4			
80						
85						
90			1.4			
95	85		1.1			
100	90		1.9	380		
105	95		2.0			T/
110						
110			1.6		,	T
115			1.6	400		1
120	115			405		T
125	120			410		1
135         1.4         425           140         1.6         430           145         V         1.6         435           150         Sandstone         .5         440           155         Gray Shale         1.5         445           160         1.6         450           165         1.6         455           170         1.4         460           175         1.4         465           180         2.0         470           185         1.7         475           190         1.7         480           196         1.8         485           200         1.9         490           205         1.8         495           210         1.8         500           215         1.9         220           226         2.0         2.0           225         1.9         230           230         1.9         2.1           245         2.1         2.1           245         2.1         2.1           250         2.1         2.1           265         2.1         2.1						T
135         1.4         425           140         1.6         430           145         V         1.6         435           150         Sandstone         .5         440           155         Gray Shale         1.5         445           160         1.6         450           165         1.6         455           170         1.4         460           175         1.4         465           180         2.0         470           185         1.7         475           190         1.7         480           196         1.8         485           200         1.9         490           205         1.8         495           210         1.8         500           215         1.9         220           226         2.0         2.0           225         1.9         230           230         1.9         2.1           245         2.1         2.1           245         2.1         2.1           250         2.1         2.1           265         2.1         2.1	130		1.4	420		
145			1.4	425		
145	140		1.6	430		1
155   Gray Shale		<del></del>	1.6	435		1
155	150	Sandstone	.5	440	***************************************	†·
160	155	Gray Shale		445		-
165       1,6       456         170       1,4       460         175       1,4       465         180       2,0       470         185       1,7       475         190       1,7       480         195       1,8       485         200       1,9       490         205       1,8       495         210       1,8       500         215       1,9       220         226       2,0       20         225       1,9       23         230       1,9       23         240       2,1       2,1         245       2,1       2,1         250       2,1       2,1         255       2,1       2,2         260       2,0       2,0         265       2,1       2,1         270       2,1       2,1         280       2,2       2,2         290       2,2       2,2         295       1,0       3,0	160		1.6	450	· · · · · · · · · · · · · · · · · · ·	
175         1.4         465           180         2.0         470           185         1.7         475           190         1.7         480           195         1.8         485           200         1.9         490           205         1.8         495           210         1.8         500           215         1.9         20           220         2.0         2.0           225         1.9         2.1           230         1.9         2.3           235         2.0         2.1           240         2.1         2.1           245         2.1         2.1           250         2.1         2.1           255         2.1         2.1           260         2.0         2.1           270         2.1         2.1           280         2.2         2.2           290         2.2         2.2           295         1d         300	165					7
175         1.4         465           180         2.0         470           185         1.7         475           190         1.7         480           195         1.8         485           200         1.9         490           205         1.8         495           210         1.8         500           215         1.9         20           220         2.0         2.0           225         1.9         2.1           230         1.9         2.3           235         2.0         2.1           240         2.1         2.1           245         2.1         2.1           250         2.1         2.1           255         2.1         2.1           260         2.0         2.1           270         2.1         2.1           280         2.2         2.2           290         2.2         2.2           295         1d         300	170		1,4	460		
185     1.7     475       190     1.7     480       195     1.8     485       200     1.9     490       205     1.8     495       210     1.8     500       215     1.9     20       220     2.0     2.0       225     1.9     2.0       230     1.9     2.1       235     2.0     2.1       240     2.1     2.1       250     2.1     2.1       250     2.1     2.1       255     2.1     2.1       260     2.0     2.0       265     2.1     2.1       270     2.1     2.2       280     2.3     2.2       290     2.2     2.2       295     id     300				465		<del>                                     </del>
185     1.7     475       190     1.7     480       195     1.8     485       200     1.9     490       205     1.8     495       210     1.8     500       215     1.9     20       220     2.0     2.0       225     1.9     2.0       230     1.9     2.1       235     2.0     2.1       240     2.1     2.1       250     2.1     2.1       250     2.1     2.1       255     2.1     2.1       260     2.0     2.0       265     2.1     2.1       270     2.1     2.2       280     2.3     2.2       290     2.2     2.2       295     id     300			2.0	470		
190     1.7     480       195     1.8     485       200     1.9     490       205     1.8     495       210     1.8     500       215     1.9     1.9       220     2.0     2.0       225     1.9     2.0       230     1.9     2.0       240     2.1     2.1       245     2.1     2.1       255     2.1     2.1       260     2.0     2.1       270     2.1     2.1       280     2.3     2.2       290     2.2     2.2       295     1d     300	185		1.7			T
195     1.8     485       200     1.9     490       205     1.8     495       210     1.8     500       215     1.9     1.9       220     2.0     2.0       225     1.9     2.0       230     1.9     2.3       240     2.1     2.1       255     2.1     2.1       255     2.1     2.1       260     2.0     2.1       270     2.1     2.1       280     2.3     2.3       285     2.2     2.2       290     2.2     2.2       295     id     300						<b>—</b> —
200         1.9         490           205         1.8         495           210         1.8         500           215         1.9         20           220         2.0         2.0           225         1.9         2.0           230         1.9         2.0           235         2.0         2.1           240         2.1         2.1           250         2.1         2.1           255         2.1         2.2           260         2.0         2.1           270         2.1         2.1           270         2.1         2.1           280         2.3         2.3           286         2.2         2.2           290         2.2         2.2           295         1d         300			1.8	485		1
1.8			1.9	490		
210         1.8         500           215         1.9            220         2.0            225         1.9            230         1.9            235         2.0            240         2.1            245         2.1            250         2.1            255         2.1            260         2.0            265         2.1            270         2.1            275         2.1            280         2.3            285         2.2            290         2.2            295         td            300	205			495		
220         2.0           225         1.9           230         1.9           235         2.0           240         2.1           245         2.1           250         2.1           255         2.1           260         2.0           265         2.1           270         2.1           280         2.3           285         2.2           290         2.2           295         id           300         id				500		
226     1.9       230     1.9       235     2.0       240     2.1       245     2.1       250     2.1       255     2.1       260     2.0       265     2.1       270     2.1       280     2.3       285     2.2       290     2.2       295     id       300	215					
226     1.9       230     1.9       235     2.0       240     2.1       245     2.1       250     2.1       255     2.1       260     2.0       265     2.1       270     2.1       280     2.3       285     2.2       290     2.2       295     id       300			2.0			
230	225					
240         2.1           245         2.1           250         2.1           255         2.1           260         2.0           265         2.1           270         2.1           275         2.1           280         2.3           285         2.2           290         2.2           295         td           300         td	230					
245     2.1       250     2.1       255     2.1       260     2.0       265     2.1       270     2.1       275     2.1       280     2.3       286     2.2       290     2.2       295     td       300     1d	235		2.0			
250         2.1           255         2.1           260         2.0           265         2.1           270         2.1           275         2.1           280         2.3           285         2.2           290         2.2           295         4d           300         300						
255         2.1           260         2.0           265         2.1           270         2.1           275         2.1           280         2.3           285         2.2           290         2.2           295         4d           300         4d	245					
255         2.1           260         2.0           265         2.1           270         2.1           275         2.1           280         2.3           285         2.2           290         2.2           295         4d           300         4d	250					J
260         2.0           265         2.1           270         2.1           275         2.1           280         2.3           285         2.2           290         2.2           295         id           300         id	255					
270         2.1           275         2.1           280         2.3           286         2.2           290         2.2           295         td           300         td	260					
270         2.1           275         2.1           280         2.3           285         2.2           290         2.2           295         id           300         id			2.1			
275         2.1           280         2.3           286         2.2           290         2.2           295         id           300         id			2.1			
280         2.3           286         2.2           290         2.2           295         id           300         id				T		T
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ANODE #  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	DEPTH	NO COKE	COKE
1	290	2.2	4.8
2	280	2.3	5.6
3	270	2.1	5.7
4	260	2.0	5.6
5	250	2.1	5.5
6	240	2.1	5.6
7	230	1.9	<b>B.1</b>
8	220	2.0	6.1
9	210	1.8	6.9
10	200	1.9	6.2
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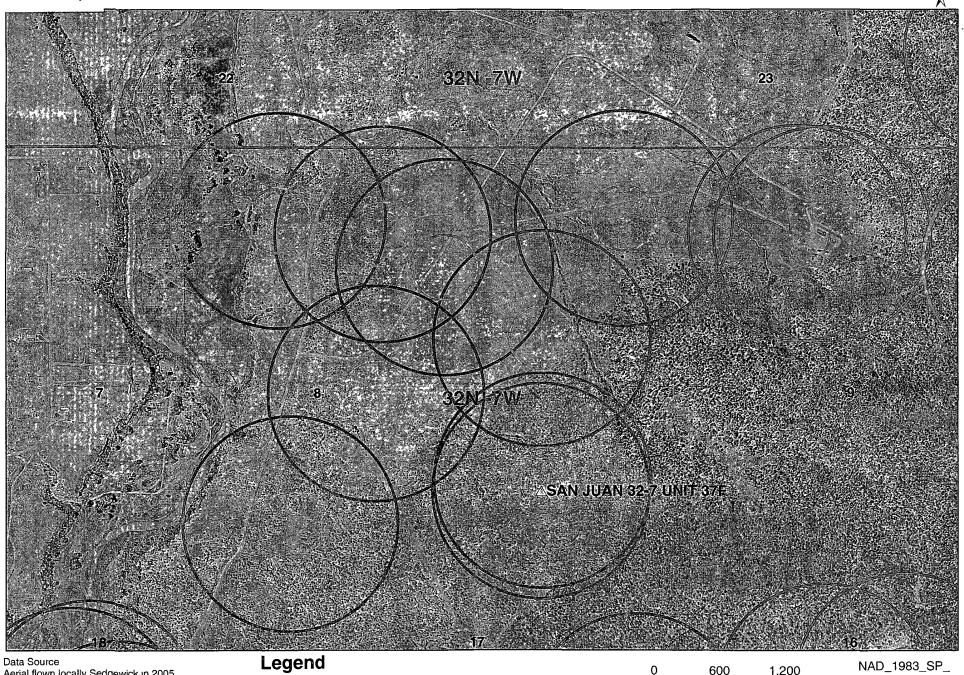
WATER DEPTH: 150' ISOLATION PLUGS: LOGING VOLTS: 12.43

**VOLT SOURCE: AUTO BATTERY** 

TOTAL AMPS: 16.8

TOTAL GB RESISTANCE: .73

REMARKS:

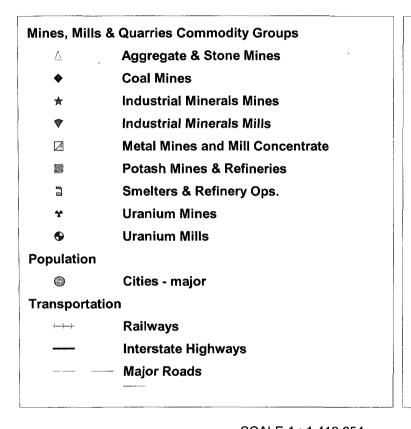


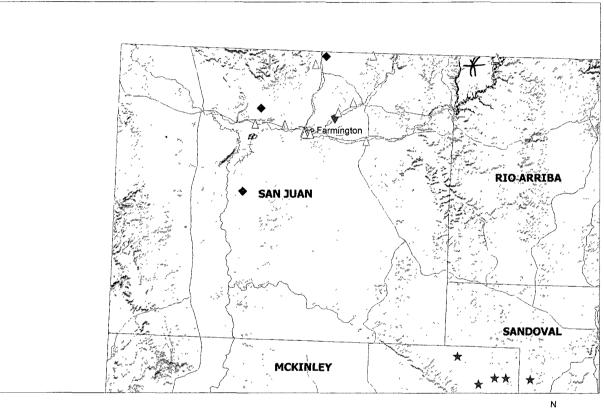
Data Source
Aerial flown locally Sedgewick in 2005.
Wetlands Data Aquired from U.S. Fish
and Wildlife Http://wetlandswms.er.usgs.gov
USGS Topo

300\_ft 1000\_ft 0 600 1,200 Feet 1:10,000

NAD\_1983\_SP\_ NM West\_FIPS\_ 3003 Nov 17, 2009

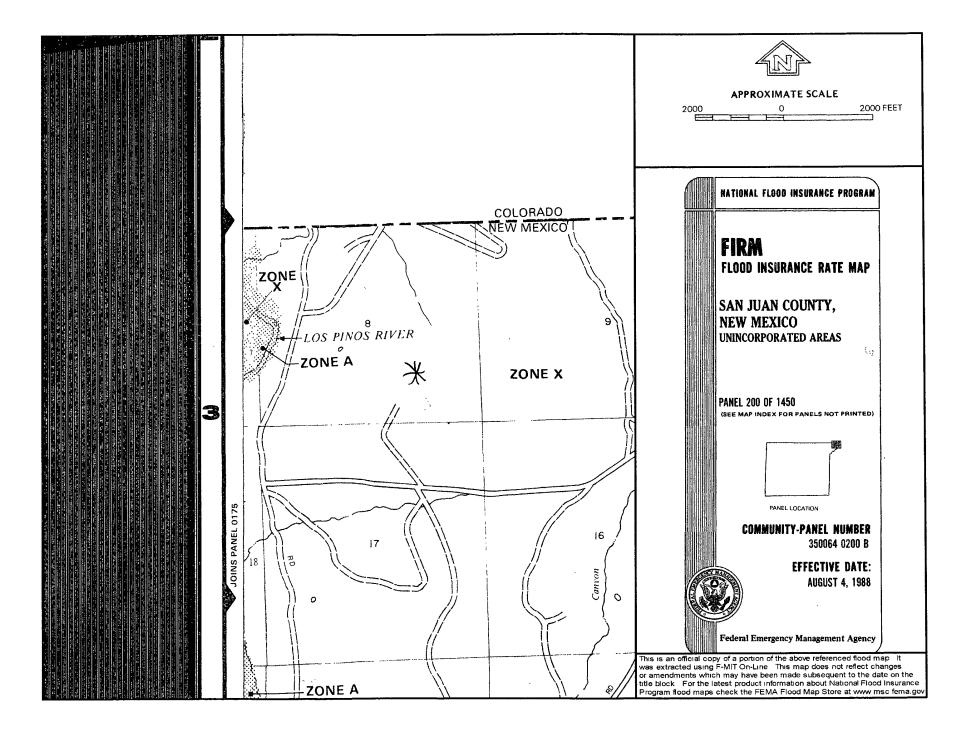
### SAN JUAN 32-7 UNIT 37F MINES, MILLS & QUARRIES WEB MAP











#### Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The San Juan 32-7 Unit 37F 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 Cathodic well data from the San Juan 32-7 Unit 37F has an elevation of 6495' and groundwater depth of 150'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the San Jose formation will create a stable area for this new location.

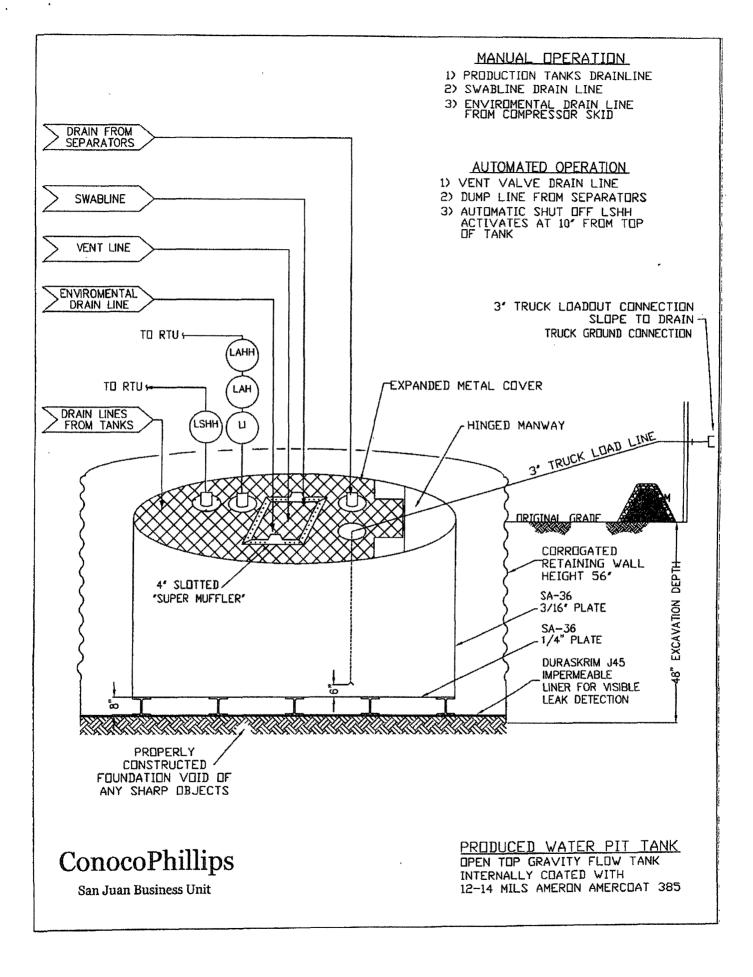
# ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

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:

- 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.
- 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.
- 6. The COPC below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. COPC will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

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



### DURASKAN®

# 160,166&145

PROPERTIES	TEST METHOD	) J3	OBB	J36	вв	J45	8 <b>8</b>	
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roli Averages	Typical Roll Averages	
Appearance		Black	dBlack	Black/	Black	Black	3lack	
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 encapsulat	ed tri-direction	al scrim reinforc	ement	
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 @ Reak: % (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 14.	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 <b>I</b> bf	
Maximum Use Temperature		180° F	180 <b>°</b> F	180° F	180° F	180° F	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

SALES OFFICE

RAVEN INDUSTRIES Sioux Falls, South Dakota

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

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:

- COPC will operate and maintain a BGT to contain liquids and solids and maintain
  the integrity of the liner, liner system and secondary containment system to
  prevent contamination of fresh water and protect public health and environment.
  COPC will accomplish this by performing an inspection on a monthly basis,
  installing cathodic protection, and automatic overflow shutoff devices as seen on
  the design plan.
- 2. COPC will not discharge into or store any hazardous waste in the BGT.
- 3. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, COPC will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, COPC's multiskilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, COPC shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 5. COPC shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then COPC shall remove all liquid above the damage or leak line within 48 hours. COPC shall notify the appropriate district office. COPC shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, COPC shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. COPC shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

## ConocoPhillips Company San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of Below Grade Tanks (BGTs) on ConocoPhillips Company locations hereinafter known as COPC locations. This is COPC's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

#### General Requirements:

- 1. COPC shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, COPC will file the C144 Closure Report as required.
- 2. COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 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.
- If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.
- 5. COPC shall test the soils beneath the below-grade tank to determine whether a release has occurred. COPC shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. COPC shall notify the division of its results on form C-141.

- 6. If COPC or the division determines that a release has occurred, then COPC shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.
- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
  - i. Operator's name
  - 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