and Natural Resources partment vation Division St. Francis Dr.

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

... ... Sienos ING., MAICC, INIVE 8/410

For permanent pits and exceptions submit to the Santa Fe Santa Fe, NM 87505

<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
Propos	Pit, Closed-Loop System, Below-Gradesed Alternative Method Permit or Closur	
Type of action:	X Permit of a pit, closed-loop system, below-grade tall Closure of a pit, closed-loop system, below-grade tall Modification to an existing permit	nk, or proposed alternative method
Instructions: Please submit one a	Closure plan only submitted for an existing permitted below-grade tank, or proposed alternative method application (Form C-144) per individual pit, closed-loop	
Please be advised that approval	of this request does not relieve the operator of liability should operations re- ieve the operator of its responsibility to comply with any other applicable g	sult in pollution of surface water, ground water or the
Operator: ConocoPhillips Compan		OGRID#: 217817
Address: PO Box 4289, Farmington Facility or well name: HOUCK CO		

Facility or well name: HOUCK COM 1B
API Number: 3004530139 OCD Permit Number:
U/L or Qtr/Qtr: O Section: 1 Township: 29N Range: 10W County: San Juan
Center of Proposed Design: Latitude: 36.74853165°N Longitude: -107.8335825°W NAD: X 1927 1983
Surface Owner: X Federal State Trivate Tribal Trust or Indian Allotment
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other Liner Seams: Welded Factory Other
A
Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6 <u>Fencing:</u> Subsection D of 19.15.47.14 NMAC (Applies to)	permanent put, temporary puts, and below-grade tanks)		
	top (Required if located within 1000 feet of a permanent residence, school, hospital, ins		
Four foot height, four strands of barbed wire evenly spaced		adution or ch	urch)
X Alternate. Please specify 4' hog wire fencing topped v			
7			
Netting: Subsection E of 19.15.17.11 NMAC (Applies to p	ermanent pits and permanent open top tanks)		
X Screen Netting Other Monthly inspections (If netting or screening is not physical)	'v feasible)		
8			
Signs: Subsection C of 19.15.17.11 NMAC			
12" X 24", 2" lettering, providing Operator's name, site loca X Signed in compliance with 19.15.3.103 NMAC	tion, and emergency telephone numbers		
Administrative Approvals and Exceptions:			
Justifications and/or demonstrations of equivalency are require Please check a box if one or more of the following is requeste			
	a. y not leave blank: to the appropriate division district of the Santa Fe Environmental Bureau office for con-	sideration of a	approval:
(Fencing/BGT Liner)	e Environmental Büreau office for consideration of approval.		
Proception of Requests must be submitted to the Sana I	C Environmental Baseau office for consideration of approval.		
Siting Criteria (regarding permitting): 19.15.17.10 N	MAC		
source material are provided below. Requests regarding char appropriate district office or may be considered an exception	each siting criteria below in the application. Recommendations of acceptable ages to certain siting criteria may require administrative approval from the which must be submitted to the Santa Fe Environmental Bureau Office for a for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria and with a closed-loop system.		
	the temporary pit, permanent pit, or below-grade tank. base search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercours lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification)	e, or 200 feet of any other watercourse, lakebed, sinkhole, or playa of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, lapplication.	nospital, institution, or church in existence at the time of initial	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and	below-grade tanks)	NA	
- Visual inspection (certification) of the proposed site	e; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospit (Applied to permanent pits)	al, institution, or church in existence at the time of initial application.	Yes	No
Visual inspection (certification) of the proposed site	e; Aerial photo; Satellite image	XNA	
	well or spring that less than five households use for domestic or stock watering ater well or spring, in existence at the time of initial application.	Yes	XNo
- NM Office of the State Engineer - iWATERS database	ase search; Visual inspection (certification) of the proposed site.		
adopted pursuant to NMSA 1978, Section 3-27-3, as amended	ed municipal fresh water well field covered under a municipal ordinance ipality; Written approval obtained from the municipality	Yes	XNo
Within 500 feet of a wetland.	opographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within the area overlying a subsurface mine.		Yes	XNo
 Written confirmation or verification or map from the Within an unstable area. 	E TAM GIVINAD - IVITING AND IVINETAL DIVISION	Yes	X No
	NM Bureau of Geology & Mineral Resources; USGS; NM Geological		
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
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAČ and 19.15.17.13 NMAČ
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) - hased 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
18
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
14
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Alternative
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place BurialOn-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.
Please indicate, by a check mark in the box, that the documents are attached.
X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Instructions: Please identify the facility or facilities for the disposal of li	e Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) quals, drilling fluids and drill cuttings. Use attachment if more than two	Marilines
are required.		
Disposal Facility Name:		
	Disposal Facility Permit #:	
Yes (II yes, please provide the information No		service and operations?
Required for impacted areas which will not be used for future service an		
Re-vegetation Plan - based upon the appropriate requireme	the appropriate requirements of Subsection H of 19.15.17.13 NM.	AC
Site Reclamation Plan - based upon the appropraite require		
Siting Criteria (Regarding on-site closure methods only: 19.15 Instructions: Each siting criteria requires a demonstration of compliance in the certain siting criteria may require administrative approval from the appropriate for consideration of approval. Justifications and/or demonstrations of equivale	closure plan. Recommendations of acceptable source material are provided be edistrict office or may be considered an exception which must be submitted to the	close. Requests regarding changes to the Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried w		Yes No
 NM Office of the State Engineer - iWATERS database search; US 	GS: Data obtained from nearby wells	N/A
Ground water is between 50 and 100 feet below the bottom of the		Yes No
- NM Office of the State Engineer - iWATERS database search; USG	GS: Data obtained from nearby wells	□N/A
Ground water is more than 100 feet below the bottom of the buried	i waste.	Yes No
- NM Office of the State Engineer - iWATERS database search; USG	SS; Data obtained from nearby wells	∏N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any (measured from the ordinary high-water mark).	other significant watercourse or lakebed, sinkhole, or playa lake	Yes No
- Topographic map: Visual inspection (certification) of the proposed		
Within 300 (cet from a permanent residence, school, hospital, institution, Visual inspection (certification) of the proposed site; Aerial photo; s		Yes No
		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or sprin purposes, or within 1000 horizontal fee of any other fresh water well or sp - NM Office of the State Engineer - iWATERS database; Visual inspe	pring, in existence at the time of the initial application.	
Within incorporated municipal boundaries or within a defined municipal pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written	fresh water well field covered under a municipal ordinance adopted	Yes No
Within 500 feet of a wetland	approval columned from the manicipality	Tyes TNo
- US Fish and Wildlife Wetland Identification map; Topographic map	y; Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine.		Yes No
Written confirantion or verification or map from the NM EMNRD- Wishin an appeal to appear	Mining and Mineral Division	
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of C	regions & Minural Dayoursey, USCS, NIM Coological Society	Yes No
Topographic map	icology & Mineral Resources, 0303, NW Ocological Society,	
Within a 100-year floodplain FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructi by a check mark in the box, that the documents are attached.	ons: Each of the following items must bee attached to the closus	re plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the	appropriate requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate		
=	ised upon the appropriate requirements of 19.15.17.11 NMAC	
=	ial of a drying pad) - based upon the appropriate requirements of 1	9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requi		
Confirmation Sampling Plan (if applicable) - based upon the	appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate	requirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, drill	ling fluids and drill cuttings or in case on-site closure standards car	nnot be achieved)
Soil Cover Design - based upon the appropriate requirements		
Re-vegetation Plan - based upon the appropriate requirement Site Reclamation Plan - based upon the appropriate requirem		
1 1 one recommenon rian - oascu upon me appropriate requirem	and of Budsection o of 19.15.17.13 INMIAC	

19			
Operator Application Certification	•		
Thereby certify that the information subm		trate and complete to the	best of my knowledge and belief
Name (Print):	Crystal Tafoya	Title:	Regulatory Technician
Signature:	- 0 To		
	afoya@conocophillips.com	Date:	12/22/2008
e-mail address:crystal.t	arova a conocobumba com	Telephone:	505-326-9837
20			
	ation (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
	(F	0.000.01.101.	
OCD Representative Signature:			Approval Date:
Title:		OCD Parm	uit Number:
			in Number.
21			
Closure Report (required within 60	days of closure completion): Subs	ection K of 19.15.17.13 NMAC	
Instructions: Operators are required to or	btain an approved closure plan prior to	o implementing any closu	re activities and submitting the closure report. The closure
report is required to be submitted to the a approved closure plan has been obtained			s. Please do not complete this section of the form until an
The state of the s	which the comme activities have need (
		Closure	Completion Date:
22			
Closure Method:			
Waste Excavation and Removal	On-site Closure Method	Alternative Closure	Method Waste Removal (Closed-loop systems only)
If different from approved plan, p	lease explain.		
22			
23 Closure Report Regarding Waste Remo	eval Closure For Closed-loop System	s That Iltilize Above Cre	ound Steel Tanks or Haul-off Bins Only:
Instructions: Please identify the facility of	or facilities for where the liquids, drill	ing fluids and drill cuttin	ngs were disposed. Use attachment if more than two facilities
were utilized.			
Disposal Facility Name:		Disposal Facility	Permit Number:
Disposal Facility Name:		Disposal Facility l	
		on or in areas that will not	be used for future service and opeartions?
Yes (If yes, please demonstrate co	mplilane to the items below)	No	
Required for impacted areas which with		erations:	
Site Reclamation (Photo Documer			
Soil Backfilling and Cover Installa			
Re-vegetation Application Rates a	nd Seeding Technique		
24			
Closure Report Attachment Chee the box, that the documents are attach		wing items must be attac	thed to the closure report. Please indicate, by a check mark in
Proof of Closure Notice (surface			
Proof of Deed Notice (required	· · ·		
Plot Plan (for on-site closures a	, and the second		
Confirmation Sampling Analytic	• • • • • • • • • • • • • • • • • • • •		
Waste Material Sampling Analy	• • •		
Disposal Facility Name and Per			
Soil Backfilling and Cover Insta			
Re-vegetation Application Rate			
Site Reclamation (Photo Docum			🗖 🗔
On-site Closure Location: La	atitude:	Longitude:	NAD [1927
25	· · · · · · · · · · · · · · · · · · ·		
Operator Closure Certification:			
			nd complete to the best of my knowledge and belief. I also certify that
the closure complies with all applicable cl	osure requirements and conditions spe	ecified in the approved clo	osure pian.
Name (Print):		Title:	
6:			
Signature:		Date:	
e-mail address:		Telephone:	

Form C-144

10W Sections:		
Zone:	Searc	h Radius:
_	Number:	Suffix:
(Last)	C Non-D	omestic C Domestic C Al
Avg Depth to Water	Report	Water Column Report
orm iWATERS Me	enu Help	
	(Last) Avg Depth to Water	Number: (Last) Number: Non-D Avg Depth to Water Report

WATER COLUMN REPORT 08/20/2008

	(quarter:	s are	1=	NW :	2 = NE	3=SW	4=SE)							
	(quarters	s are	bi	gge	st t	o smal	lest)			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	q e	PE	Zone		X	Y	Well	Water	Column		
RG 36732 DCL	29N	10W	25	2						500	450	50		
SJ 00785 S	29N	10W	04		1 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	1.0W	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	10W	19	3 :	3					20	5	15		
SJ 02860	29N	10W	19	4	4					21	2	19		
SJ 02900	29N	10W	20	3	1 2					70				
SJ 01140	29N	10W	20	3 :	2 2					2.5	6	19		
SJ 01990	29N	10W	20	4	L					40	12	28		
SJ 02548	29N	10W	20	4	1					12	2	10		
SJ 02547	29N	10W	20	4						12	2	10		
SJ 03535	29N	10W	21		2 3					1.5				
SJ 03455	29N	10W		3 :						20	17	3		
SJ 03456	29N	10W		3						20	17	3		
SJ 03441	29N	10W	21	4	3					40	3.0	10		
SJ 03470	29N	10W	21	4	3, 4					20	7	13		
SJ 01474	29N	10W		4	1					25				
SJ 03180	29N	10W	21	4	4					50	15	35		
SJ 03713 POD1	29N	10W	22	2	3					265	20	245		
SJ 02820	29N	10W	23	4	1 1					82	16	66		
SJ 02896	29N	10W	24	1 .	1 1					110	34	76		
SJ 02275	29N	1.0W	24	1 .	1 2					40	2.0	20		
SJ 00092	29N	10W	24	2	1 2					33				
SJ 02802	29N	10W	24	3	1 2					132	30	102		
SJ 02907	29N	10W	24	3	2 3					60				
SJ 02122	29N	10W	25	4	1					60	12	48		
SJ 01019	29N	10W	26	4	3 3					50	4	46		

SJ 01056	29N	10W	27	3	2					50	31	19
SJ 02216	29N	10W	28	1	2					30	7	.23
SJ 03582	29N	10W	28	1	3	3				10	4	6
SJ 02151	29N	10W	28	2	1	2	W	484600	2075600	37	20	17
SJ 03652	29N	10W	28	2	2	1				34	6	28
SJ 03142	29N	10W	28	2	2	2				38	2.2	16
SJ 03637	29N	10W	28	2	3	1				21	10	11
SJ 03582 POD2	29N	10W	28	2	3	3				28	5	2.3
SJ 02840	29N	10W	28	3	4	1				55	32	23
SJ 00506	29N	10W	28	4	3					78	55	23
SJ 00662	29N	10W	28	4	4	3				93	70	23
SJ 00497	29N	10W	29	3	2	3				85	35	50
SJ 03777 POD1	29N	10W	29	4	4	2		270344	2071311	100	50	50
SJ 00473	29N	10W	30	2	4					58	10	48
SJ 03743 POD1	29N	10W	33	4	4	3				490	140	350
SJ 01051	29N	10W	35	2	2	2				90	30	60
SJ 01050	29N	10W	36	1	4					85	38	47

NAD27 X:	Y: Zone: Se	earch Radius:
County: Basin:	Number	Suffix:
Owner Name: (First)	(Last) C No	n-Domestic C Domestic Al
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report

WATER COLUMN REPORT 08/20/2008

					3=SW 4=SE)							
POD Number					smallest)	_		Depth	Depth	Water	(in	feet)
SJ 01874	Tws 29N	Rng Se		q	Zone	X	Y	Well	Water	Column		
SJ 02347	29N	09W 02						28	8	20		
SJ 02347	29N 29N	09W 02						25	4	21		
SJ 02346	29N 29N	09W 02						25	3	22		
SJ 02346 SJ 03138	29N 29N	09W 02		1				25	4	21		
SJ 03044	29N 29N	09W 02		2				11	5	6		
SJ 03396	29N 29N							10				
SJ 03396		09W 02		2				10	4	6		
	29N	09W 02		_				21	7	14		
SJ 02492 SJ 02478	29N	09W 02		3				13	5	8		
SJ 02478	29N			3				16	8	8		
SJ 02096 SJ 01067	29N	09W 02		4				27	11	16		
	29N	09W 02		4				25	10	15		
SJ 01066	29N	09W 02		4				25	10	15		
SJ 01183	29N	09W 02		4				24	11	13		
SJ 03632	29N	09W 02		2				27	7	20		
SJ 01232	29N	09W 02						25	9	16		
SJ 03080	29N	09W 02		1				35				
SJ 01210	29N	09W 02						26	10	16		
SJ 01460	29N	09W 02						19	8	11		
SJ 01430	29N	09W 02						24	11	13		
SJ 01203	29N	09W 02	1 3					25	12	13		
SJ 01392	29N	09W 02		2				25	11	14		
SJ 03003	29N	09W 02		2				19	6	13		
SJ 01867	29N	09W 02	1 3	2				25	71	-46		
SJ 01579	29N	09W 02		2				25	12	13		
SJ 03253	29N	09W 02	1 3	2				16	9	7		
SJ 02600	29N	09W 02	1 4	3				18	8	10		
SJ 03687	29N	09W 02	1 4	3				18	10	8		
SJ 03687 POD1	29N	09W 02	1 4	3				18	10	8		
SJ 03127	29N	09W 02	2 1	2				17	10	7		
SJ 02376	29N	09W 03	1 2	4				13	10	3		
SJ 02369	29N	09W 03	1 2	4				23				

SJ 02369 CLW	29N	09W 03	1 2 4	13	1.0	2
SJ 02103	29N	09W 03	1 3	21	10 4	3 17
SJ 01494	29N	09W 03	2 2	12	5	7
SJ 03300	29N	09W 03	2 2 2	21	4	17
SJ 03362 POD2	29N	09W 03	2 2 4	21	6	
SJ 03362	29N	09W 03	2 2 4	38	12	15
SJ 02567	29N	09W 03	2 4 1	14	2	26
SJ 03200	29N	09W 03	3 1 1	28	13	12 15
SJ 02946	29N	09W 03	4 2 1	95	40	55
SJ 03491	29N	09W 04	1 1 3	70	40	33
SJ 03490	29N	09W 04	1 1 3	42	20	22
SJ 03566	29N	09W 04	1 3 4	30	20	44
SJ 03531	29N	09W 04	1 4 1	30		
SJ 03530	29N	09W 04	1 4 1	30		
SJ 03466	29N	09W 04	2 1 3	40		
SJ 02554	29N	09W 04	2 1 4	13	5	8
SJ 03118	29N	09W 05	2 2 3	250	J	0
SJ 03599	29N	09W 05	4 1 1	42	20	22
SJ 03092	29N	09W 05	4 1 1	40	16	24
SJ 03182	29N	09W 05	4 1 1	42	18	24
SJ 00584	29N	09W 06	3 4	143	40	103
SJ 00785	29N	09W 07	3 4 2	60	40	103
SJ 03389	29N	09W 07	4 4 2	20		
SJ 03536	29N	09W 07	4 4 2	19	6	13
SJ 01176	29N	09W 08	1 1	150	70	80
SJ 02822	29N	09W 08	1 1 3	100	, 0	00
SJ 00436	29N	09W 08	1 3	150	100	50
SJ 03534	29N	09W 08	3 1 3	41	24	17
SJ 02279	29N	09W 09	1 1 4	30	6	24
SJ 00102	29N	09W 09	1 2 1	20	5	15
SJ 02883	29N	09W 16	2 3 3	123	87	36
SJ 03185	29N	09W 16	3 4 4	220	100	120
SJ 03430	29N	09W 18	2 2 1	21	1	2.0
SJ 03428	29N	09W 18	2 2 4	21	5	16
SJ 00099	29N	09W 18	2 4	16	4	12
SJ 00097	29N	09W 18	2 4	16	4	12
SJ 00101	29N	09W 18	2 4	16	4	12
SJ 00098	29N	09W 18	2 4	16	4	12
SJ 00100	29N	09W 18	4 1	16	4	12
SJ 00096	29N	09W 18	4 2	16	4	12
SJ 00095	29N	09W 18	4 2	16	4	12
SJ 02910	29N	09W 18	4 2 1	20		
SJ 00094	29N	09W 18	4 4 2	15		
SJ 00093	29N	09W 18	4 4 4	155		

NAD27 X:	Y: Zone	: Search R	adius:
County: Basi	n:	Number:	Suffix:
Owner Name: (First)	(Last)	C Non-Dom	estic C Domestic 6 A
POD / Surface Data Repor	t Avg Depth to	Water Report	Water Column Report
	Clear Form iWATE	RS Menu Help	

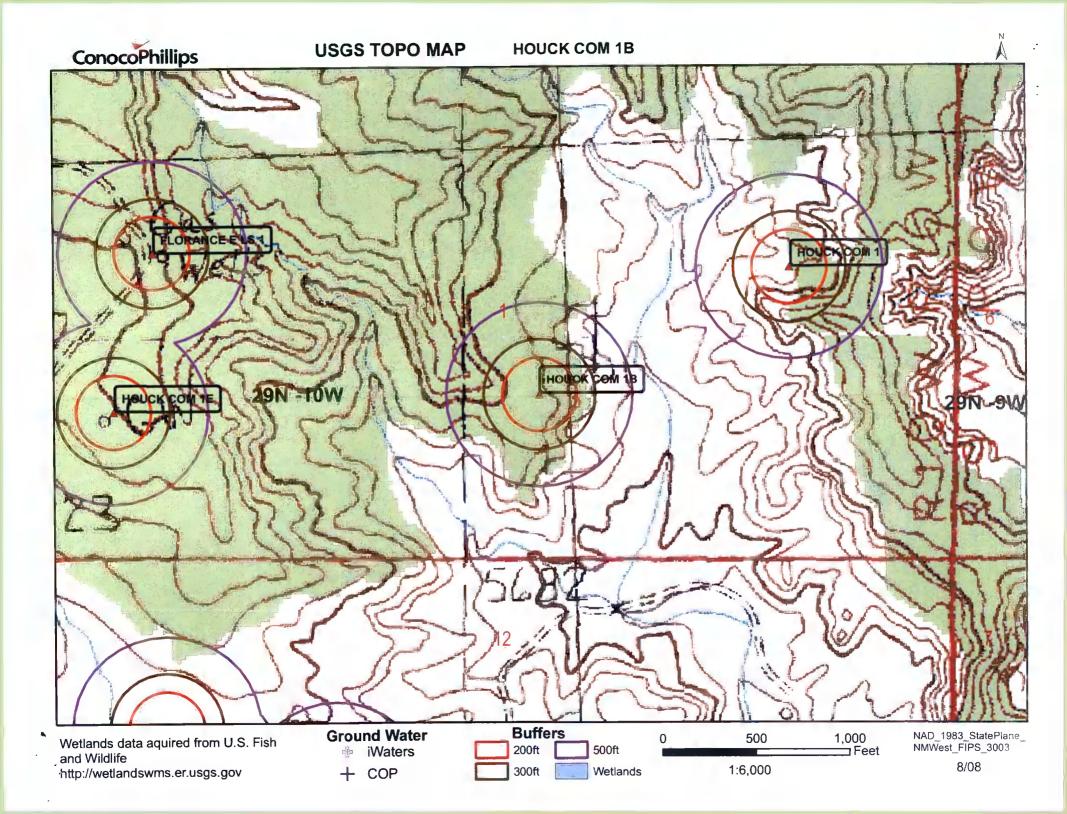
WATER COLUMN REPORT 08/21/2008

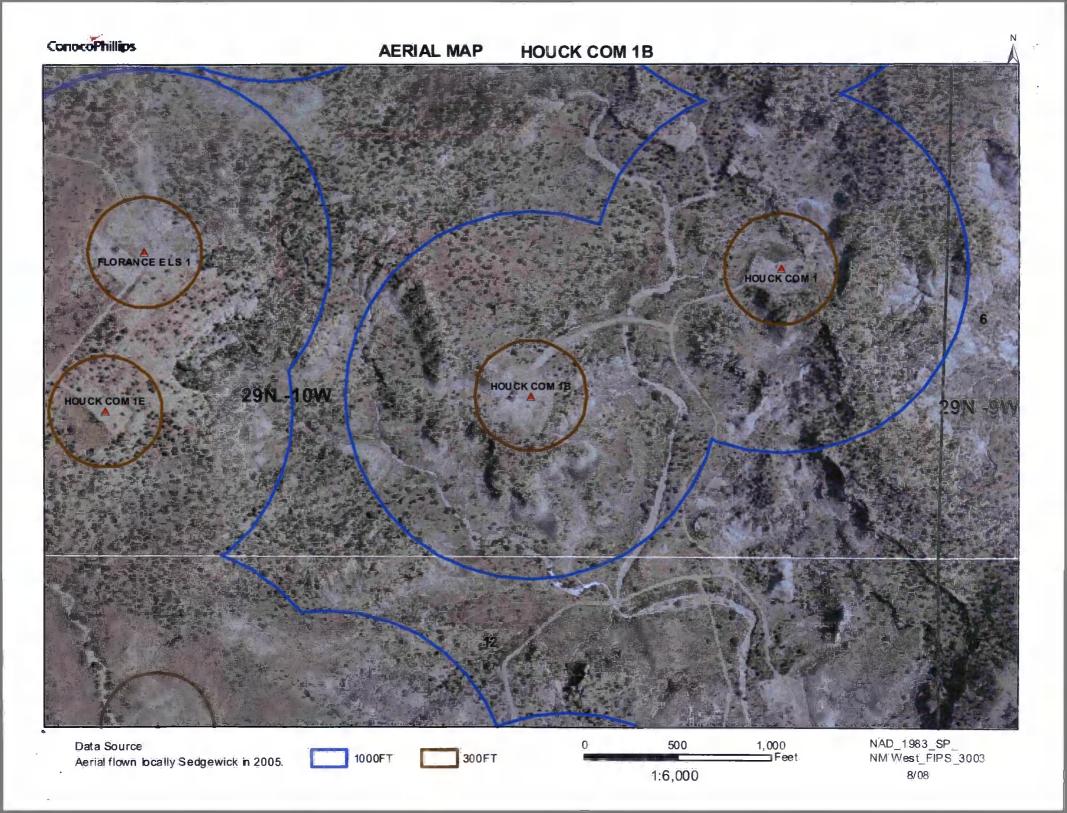
		(quarters	are	1=	NW	2:	=NE	3=SW 4=SE)								
		(quarters	are	bi	gg	est	t to	smallest)			Depth	Depth	Water	(in	feet)	
POD 1	Number	Tws	Rng	Sec	q	q	q	Zone	x	Y	Well	Water	Column			
SJ 00	0050	30N	10W	02	1	3	2				520	306	214			
SJ 03	3460	30N	10W	02	1	3	2				520	500	20			
SJ 03	3230	30N	10W	03	1	2	1				120	70	5.0			
SJ 03	3113	30N	10W	05	4	1	4				42	30	12			
SJ 00	0589	30N	10W	80	1	1	1				175	150	25			
SJ 00	0774	30N	10W	80	1	2	1				195	160	35			
SJ 02	2316	30N	10W	80	1	3					210	98	112			
SJ 02	2102	30N	10W	80	1	3	4				190	90	100			
SJ 01	1527	30N	10W	80	2	2					120	60	60			
SJ 01	1193	30N	10W	80	2	2					100	70	30			
SJ 02	2808	30N	10W	80	2	3	4				165	105	60			
SJ 01	1102	30N	10W	80	2	4					200	159	41			
SJ 02	2998	30N	10W	80	3	3	1				260	117	143			
SJ 02	2772	30N	10W	80	4	2	2				200	160	40			
SJ 00	0523	30N	10W	08	4	4					160	120	40			
SJ 01	1362	30N	10W	20	1	3	3				238	190	48			
SJ 03	3442	30N	10W	20	1	4	1				200					
SJ 02	2782	30N	10W	20	1	4	4				250					
SJ 02	2797	30N	10W	20	2	4	1				70					
SJ 00	0024	30N	10W	23	2	4	2				305					
SJ 00	0051	30N	10W	23	2	4	2				305					
SJ 00	0197	30N	10W	23	4	2					975	500	475			
SJ 00	0010	30N	10W	24	2						292					
SJ 01	1116	30N	10W	33	2	1					105	45	60			
SJ 01	1059	30N	10W	34	1	2	4				115	75	40			
SJ 01	1182	30N	10W	34	1	3	3				235	125	110			

NAD	27 X: Y		Zone: Se	arch Radius:
County:	Basin:		Number:	Suffix:
Owner Name:	(First)	(Last)	○ Nor	n-Domestic © Domestic © A
POD / St	rface Data Report	Avg De	epth to Water Report	Water Column Report

WATER COLUMN REPORT 08/21/2008

						3=SW 4=SE o smallest	-		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	q e	PI	Zone	X	Y	Well	Water	Column	
SJ 00009	30N	09W	06	3					396	60	336	
SJ 00140	30N	09W	25	1					10			
SJ 02744	30N	09W	25	2 '	1 4				21	10	11	
SJ 02092	30N	09W	33	4	1 4				32	15	17	
SJ 02170	30N	09W	35	1 4	1 3				20	10	10	
SJ 03565	3.0N	09W	35	2 4	1 3				20			
SJ 00091	30N	09W	35	3 :	2 2				34			
SJ 01330	30N	09W	36	1	L 2				20	5	15	
SJ 02298	30N	09W	36	3					15	4	11	

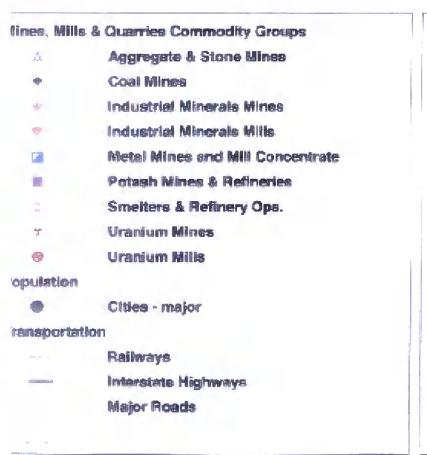


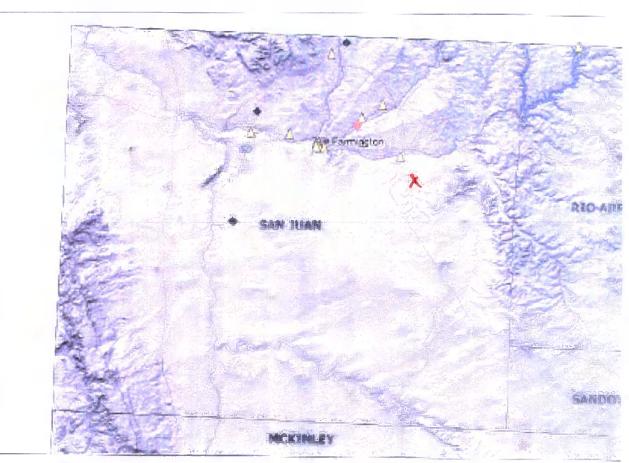


Mines, Mills and Quarries Web Map

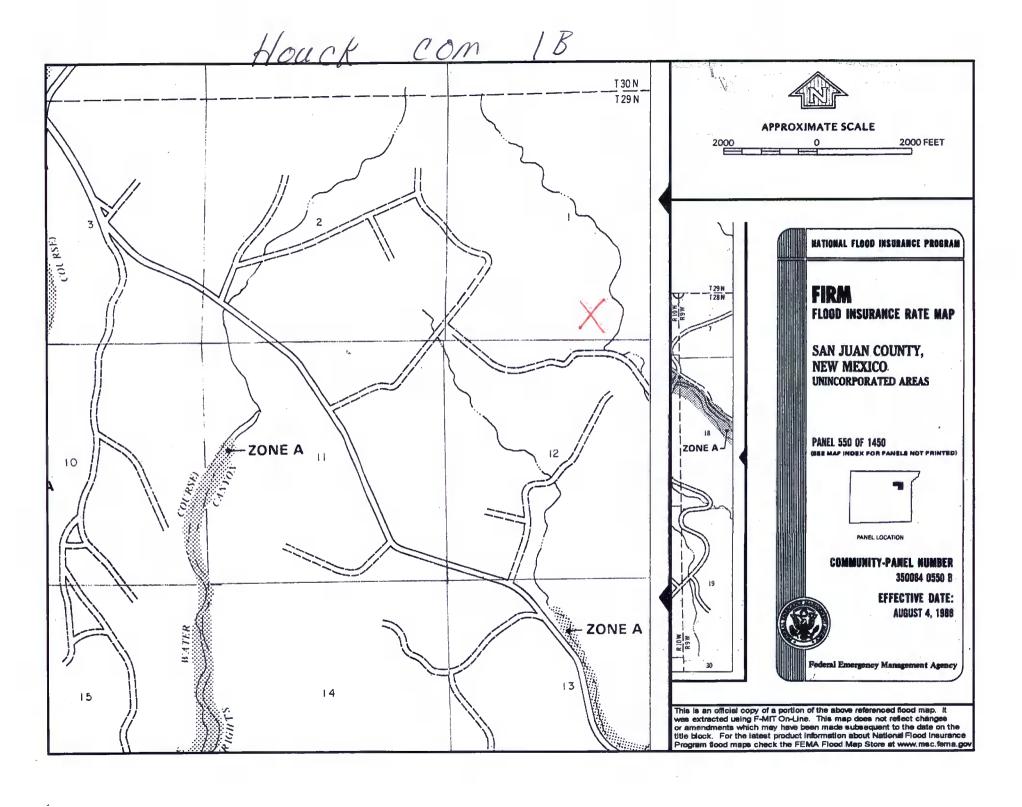
HOUCK COM 1B

Unit Letter: O, Section: 01, Town: 029N, Range: 010W









HOUCK COM 1B

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'HOUCK COM 1B', which is located at 36.74853165 degrees North latitude and 107.8335825 degrees West longitude. This location is located on the Blanco 7.5' USGS topographic quadrangle. This location is in section 1 of Township 29 North Range 10 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 Blanco, located 1.7 miles to the south. The nearest large town (population greater than 10,000) is Farmington, located 20.7 miles to the west (National Atlas). The nearest highway is State Highway 575, located 1.2 miles to the southwest. The location is on BLM land and is 2,437 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 1745 meters or 5723 feet above sea level and receives 10.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 42 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 298 feet to the east and is classified by the USGS as an intermittent stream. The nearest perennial stream is 4,437 feet to the west. The nearest water body is 4,387 feet to the west. It is classified by the USGS as an intermittent lake and is 0.4 acres in size. The nearest spring is 5,957 feet to the north. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 2.837 feet to the east. The nearest wetland is a 3.5 acre Freshwater Forested/Shrub Wetland located 3,566 feet to the east. The slope at this location is 3 degrees to the southeast 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 'Badland-Rock outcrop-Persayo complex, extremely steep' and is and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 15.2 miles to the north 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 conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval.

Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones.

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

combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

Hydraulic Properties:

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

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

References:

Baltz, E.H., 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, east-central 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.

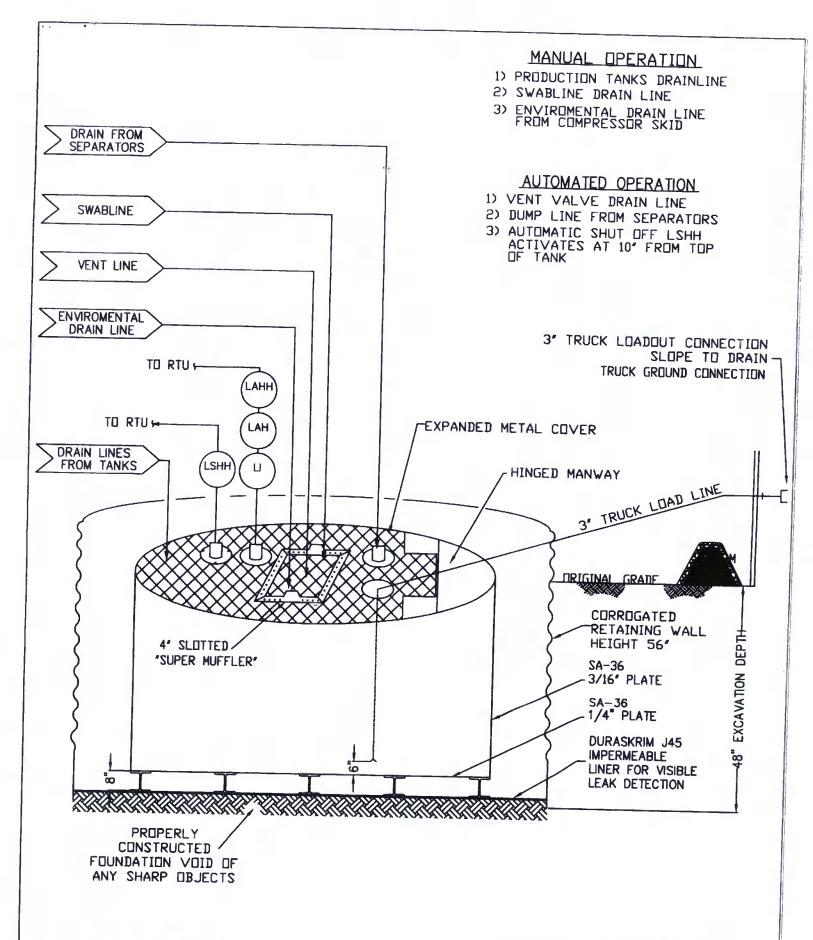
ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

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.
- 5. COPC shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 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.



ConocoPhillips

San Juan Business Unit

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

DURA-SKRIM®

J30, J36 a J45

PROPERTIES	TEST METHOD	J.	BOBB	J3	6BB	J458B		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Rol Averages	
Appearance		Blac	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		**Ext	rusion laminated	with encapsula	ated tri-direction			
Pty 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

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 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, COPC will file the C144 Closure Report as required.
- 2. COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 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
 - 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