#### District 1

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

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

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 For temporary pits, closed-loop sytems, and below-grade

Form C-144

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.

#### Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

Type of action:	X Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
	Modification to an existing permit
	Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
	below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

perator: Con	ocoPhillips Company		OGR	ID#: <b>217817</b>	
ddress: PO	Box 4289, Farmington, NM	87499			
acility or well	name: HOUCK COM 1E				
PI Number:	300452	6179	OCD Permit Number:		
/L or Qtr/Qtr:	M Section:	1 Township: 29N	Range: 10W	County: San Juan	
enter of Propo	sed Design: Latitude:	36.749°N	Longitude: -1	07.842°W NAD: X 1927	1983
urface Owner:	X Federal	State Private T	ribal Trust or Indian Allot	ment	
Temporary: Permanent Lined String-Rein Liner Seams:	cection F or G of 19.15.17.11 N  Drilling Workover  Emergency Cavitation Unlined Liner type forced  Welded Factory	on P&A		PVC Other  Dimensions L x W x D	
Closed-I Type of Operation  Drying F Lined [ Liner Seams:	ion: P&A Drilli	notice of in		es which require prior approval of a permi	it or
Volume: Tank Construct Secondary	containment with leak detection dewalls and liner	Type of fluid: Produced  Metal  X Visible sidewalls, lin	er, 6-inch lift and automatic		
	ive Method:	Exceptions must be submitted to			

Nutting:   Nutbacction   Fot   91,517,11   NMAC (Applies to permanent pits and permanent open top lands)	Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, ins  Four foot height, four strands of barbed wire evenly spaced between one and four feet  X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.	stitution or chi	urch)
Signed to compliance with 19.15.3.10 NMAC   22 × 24°. 2" lettering, providing Operator's name. site location, and emergency telephone numbers   Signed to compliance with 19.15.3.103 NMAC   9   Administrative Aparovals and Exceptions:   Number of the following is requested. If and leave blank:	X Screen Netting Other		
Administrative Approvals and Exerctions:    Please cheek a bas if one or more of the following is required. Please refer to 19.15.17 NMAC for guidance.   Please cheek a bas if one or more of the following is required. If not leave blank:   Administrative approvals: Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval. (Peneing/BGT Liner)   Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. (Peneing/BGT Liner)   Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.   Siting Criteria (reparding permitting): 19.15.17.10 NMAC Intractions: The applicant must demonstrate compliance for each siting criteria near property administrative approval from the application and the sant season of the source material are provided below. Requests regarding changes to certain siting criteria near property administrative approval from the appropriate district office or may be considered an exception which ama be submitted to the Santa Fe Environmental Bureau office for consideration of acceptable source material are provided below. Requests regarding changes to certain siting criteria near property administrative approval from the appropriate and provided below. Requests regarding changes to certain siting criteria delivery and proportion of approval. Proportion of the proposed site of a pull-like and proposed site and proposed site of the state Engineer and the state Engineer and the submitted to the Santa Fe Environmental Bureau office for consideration of the temporary pit of the State Engineer and the temporary pit, permanent prish and below-grade tanks.    Visual inspection (certification) of the proposed site; Aerial photo; Satellite image   Vithin 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.    Visual inspection (certification) of the	Signs: Subsection C of 19.15.17.11 NMAC  12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		474
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 on exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attack 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  Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site  Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image  Within 500 horizonal feet of a private, domestic fresh water well or spring, in existence at the time of initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.  Within 500 horizonal feet of any other fresh water well or spring, in existence at the time of initial application.  - NM Office of the State Engineer iwATERS database search; Visual inspection (certification) of the proposed site.  Within 500 horizonal feet of any other fresh water well or spring, in existence at the time of initial application.  - Wi	Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con (Fencing/BGT Liner)	isideration of a	approval.
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Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division  Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map  Within a 100-year floodplain	Within 500 feet of a wetland.	Yes	XNo
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Society; Topographic map Within a 100-year floodplain  Yes XNo	Within an unstable area.	Yes	XNo
	Society; Topographic map	Yes	XNo

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.	
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9	
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Previously Approved Design (attach copy of design) API or Permit	
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 (Below-Grade Tank)	
Waste Removal (Closed-loop systems only)	
On-site Closure Method (only for temporary pits and closed-loop systems)	
In-place Burial On-site Trench	
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)	
15 Waste Exception and Democral Clasure Plan Checklists (10.15.17.12 NRACC) Instructions, Each of the following items must be attached to the class	-1-
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure lease indicate, by a check mark in the box, that the documents are attached.	и е риан
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)	
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
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	

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Waste Removal Closure For Closed-loop Systems That Utilize Above Groun Instructions: Please identify the facility or facilities for the disposal of liquids, do are required.		facilities
Disposal Facility Name:	Disposal Facility Permit #:	
Disposal Facility Name:	· ·	
Will any of the proposed closed-loop system operations and associated act Yes (If yes, please provide the information No		
Required for impacted areas which will not be used for future service and operation.  Soil Backfill and Cover Design Specification - based upon the app Re-vegetation Plan - based upon the appropriate requirements of S	ropriate requirements of Subsection H of 19.15.17.13 NMA absection 1 of 19.15.17.13 NMAC	AC .
Site Reclamation Plan - based upon the appropraite requirements of	of Subsection G of 19.15.17.13 NMAC	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 Instructions: Each siting criteria requires a demonstration of compliance in the closure processin siting criteria may require administrative approval from the appropriate district for consideration of approval. Justifications and/or demonstrations of equivalency are referred.	olan. Recommendations of acceptable source material are provided bel office or may be considered an exception which must be submitted to the	e Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.		Yes No
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS: Dat</li> </ul>	a obtained from nearby wells	□N/A
Ground water is between 50 and 100 feet below the bottom of the buried	waste	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	□N/A
Ground water is more than 100 feet below the bottom of the buried waste.		Tyes TNo
- NM Office of the State Engineer - iWATERS database search; USGS; Data		□ N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other si (measured from the ordinary high-water mark).		Yes No
- Topographic map; Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or chur- - Visual inspection (certification) of the proposed site; Aerial photo; satellite i		Yes No
		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that le purposes, or within 1000 horizontal fee of any other fresh water well or spring, in - NM Office of the State Engineer - iWATERS database; Visual inspection (c	existence at the time of the initial application.	
Within incorporated municipal boundaries or within a defined municipal fresh was pursuant to NMSA 1978, Section 3-27-3, as amended.  Written confirmation or verification from the municipality; Written approva		Yes No
Within 500 feet of a wetland	obtained from the manicipality	□Ves □No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visua	l inspection (certification) of the proposed site	
Within the area overlying a subsurface mine.		Yes No
- Written confiramtion or verification or map from the NM EMNRD-Mining	and Mineral Division	
Within an unstable area.		Yes No
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology Topographic map</li> </ul>	& Mineral Resources; USGS; NM Geological Society;	
Within a 100-year floodplain FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: E by a check mark in the box, that the documents are attached.	ach of the following items must bee attached to the closur	re plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the approp	oriate requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate require		
Construction/Design Plan of Burial Trench (if applicable) based up		
Construction/Design Plan of Temporary Pit (for in place burial of a		0 15 17 11 NMAC
Protocols and Procedures - based upon the appropriate requirement		ALL THE TOTAL OF THE PARTY OF T
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements		
Waste Material Sampling Plan - based upon the appropriate require		
Disposal Facility Name and Permit Number (for liquids, drilling flu		anot be achieved)
Soil Cover Design - based upon the appropriate requirements of Sul		and the second real
Re-vegetation Plan - based upon the appropriate requirements of Su		
Site Reclamation Plan - based upon the appropriate requirements of		

Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Crystal Tafoya Title: Regulatory Technician
Signature: Date: 12/22/2008
e-mail address: crystal tafoya@conocopfillips.com Telephone: 505-326-9837
C-Hall dodess.
OCD Approval: Permit Application including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: JUN 18  Title: HUDROWG1ST OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.  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, please explain.
23
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:  Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities
were utilized.
Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?  Yes (If yes, please demonstrate compliance to the items below)
Required for impacted areas which will not be used for future service and operations:  Site Reclamation (Photo Documentation)  Soil Backfilling and Cover Installation
Re-vegetation Application Rates and Seeding Technique
24
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division)  Proof of Deed Notice (required for on-site closure)  Plot Plan (for on-site closures and temporary pits)  Confirmation Sampling Analytical Results (if applicable)  Waste Material Sampling Analytical Results (if applicable)  Disposal Facility Name and Permit Number
Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique
Site Reclamation (Photo Documentation)
On-site Closure Location: Latitude: Longitude: NAD 1927 1983
Operator Closure Certification:  I hereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Title:
Signature: Date:
e-mail address: Telephone:

PN Range: 10W Sections:	
Y: Zone: Search Rad	us:
Basin: Number:	Suffix:
(Last) C Non-Domest	c C Domestic 6 A
eport Avg Depth to Water Report W	ater Column Report
Clear Form   iWATERS Menu   Help	itel Column F

#### WATER COLUMN REPORT 08/20/2008

	(quarters	are	1=	NW	2=	NE	3=SW 4=S	E)						
	(quarters	are	bi.	gge	est	to	smalles	t)		Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	P	P	P	Zone	x	Y	Well	Water	Column		
RG 36732 DCL	29N	10W	25	2						500	450	50		
SJ 00785 S	29N	10W	04	2	4	2				20				
SJ 00680	29N	10W	13	2	2					40	10	30		
SJ 00785 NEW	29N	10W	13	4						60	20	40		
SJ 00785 S-2	29N	10W	13	4						60	20	40		
SJ 03023	29N	10W			3					90	65	25		
SJ 03502	29N	10W	18		3					150				
SJ 03081	29N	10W	18	3	1	4				20				
SJ 02078	29N	10W	19		1	1				40	9	31		
SJ 00303	29N	10W	19		3					20	5	15		
SJ 02860	29N	10W	19	4	4	4				21	2	19		
SJ 02900	29N	10W	20	3	1	2				70				
SJ 01140	29N	10W	20	3	2	2				25	6	19		
SJ 01990	29N	10W	20	4	1					40	12	28		
SJ 02548	29N	10W	20	4	4					12	2	10		
SJ 02547	29N	10W	20	4	4					12	2	10		
SJ 03535	29N	10W	21	3	2	3				15				
SJ 03455	29N	10W	21	3	3	1				20	17	3		
SJ 03456	29N	10W	21	3	3	2				20	17	3		
SJ 03441	29N	10W	21	4	3	3				40	30	10		
SJ 03470	29N	10W	21	4	3	4				20	7	13		
SJ 01474	29N	10W	21	4	4					25				
SJ 03180	29N	10W	21	4	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	4	1				110	34	76		
SJ 02275	29N	10W	24	1	4	2				40	20	20		
SJ 00092	29N	10W	24	2		2				33				
SJ 02802	29N	10W		3	1					132	30	102		
SJ 02907	29N	10W			2					60				
SJ 02122	29N	10W			1					60	12	48		
SJ 01019	29N	10W			3	3				50	4	46		
80 01019	Z9N	TOM	20	4	3	3				50	4	40		

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	22	16
SJ 03637	29N	10W 28	2	3	1				21	10	11
SJ 03582 POD2	29N	10W 28	2	3	3				28	5	23
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: Sear	ch Radius:
County: Basin:	Number:	Suffix:
Owner Name: (First)	(Last) O Non-I	Domestic O Domestic O Al
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report

#### WATER COLUMN REPORT 08/20/2008

							3=SW 4=S							
	(quarter						smalles	t)		Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng		P	P	P	Zone	X	Y	Well	Water	Column		
SJ 01874	29N	09W								28	8	20		
SJ 02347	29N	09W		1						25	4	21		
SJ 01983	29N	09W	02	1						25	3	22		
SJ 02346	29N	09W	02	1						25	4	21		
SJ 03138	29N	09W	02	1	1	1				11	5	6		
SJ 03044	29N	09W	02	1	1	2				10				
SJ 03396	29N	09W	02	1	1	2				10	4	6		
SJ 02677	29N	09W	02		1					21	7	14		
SJ 02492	29N	09W	02	1	1	3				13	5	8		
SJ 02478	29N	09W	02	1	1	3				16	8	8		
SJ 02096	29N	09W	02	1	1	4				27	11	16		
SJ 01067	29N	09W	02	1	1	4				25	10	15		
SJ 01066	29N	09W	02		1					25	10	15		
SJ 01183	29N	09W	02	1	1	4				24	11	13		
SJ 03632	29N	09W			2	2				27	7	20		
SJ 01232	29N	09W	02	1	3					25	9	16		
SJ 03080	29N	09W		1	3					35				
SJ 01210	29N	09W			3					26	10	16		
SJ 01460	29N	09W		1	3					19	8	11		
SJ 01430	29N	09W		1		1				24	11	13		
SJ 01203	29N	09W	02	1		1				25	12	13		
SJ 01392	29N	09W	02	1	3	2				25	11	14		
SJ 03003	29N	09W	02	1	3	2				19	6	13		
SJ 01867	29N	09W	02	1	3	2				25	71	-46		
SJ 01579	29N	09W	02	1	3	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					23				

SJ 02369 CLW	29N	09W	03	1	2	4
SJ 02103	29N	09W		1	3	
SJ 01494	29N	09W		2	2	
SJ 03300	29N	09W	03	2	2	2
SJ 03362 POD2	29N	09W			2	4
SJ 03362	29N	09W		2	2	4
SJ 02567	29N	09W		2	4	1
SJ 03200	29N	09W		3	1	1
SJ 02946	29N	09W		4	2	1
SJ 03491	29N	09W		1	1	3
SJ 03490	29N	09W		1	1	3
SJ 03566	29N	09W		1	3	4
SJ 03531	29N	09W		1	4	1
SJ 03530	29N	09W		1	4	1
SJ 03466	29N	09W		2	1	3
SJ 02554	29N	09W		2	1	4
SJ 03118	29N	09W	05	2	2	3
SJ 03599	29N	09W		4	1	1
SJ 03092	29N	09W	05	4	1	1
SJ 03182	29N	09W		4	1	1
SJ 00584	29N	09W	06	3	4	
SJ 00785	29N	09W	07	3	4	2
SJ 03389	29N	09W	07	4	4	2
SJ 03536	29N	09W		4	4	2
SJ 01176	29N	09W	80	1	1	
SJ 02822	29N	09W		1	1	3
SJ 00436	29N	09W	80	1	3	
SJ 03534	29N	09W		3	1	3
SJ 02279	29N	09W		1	1	4
SJ 00102	29N	09W		1	2	1
SJ 02883	29N	09W		2	3	3
SJ 03185	29N	09W		3	4	4
SJ 03430	29N	09W		2	2	1
SJ 03428	29N	09W	18	2	2	4
SJ 00099	29N	09W		2	4	
SJ 00097	29N	09W	18	2	4	
SJ 00101	29N	09W		2	4	
SJ 00098	29N	09W		2	4	
SJ 00100	29N	09W		4	1	
SJ 00096	29N	09W		4	2	
SJ 00095	29N	09W		4	2	
SJ 02910	29N	09W	18	4	2	1
SJ 00094	29N	09W		4	4	2
SJ 00093	29N	09W	18	4	4	4

0 04044	7 2 TA	U JVV U	0 .		)	100	
J 00436	29N	09W 0	8 1	. 3		150	100
J 03534	29N	09W 0	8 3	3 1	3	41	24
J 02279	29N	09W 0	9 1	1	4	30	6
J 00102	29N	09W 0	9 1	2	1	20	5
J 02883	29N	09W 1	6 2	3	3	123	87
J 03185	29N	09W 1	6 3	3 4	4	220	100
J 03430	29N	09W 1	8 2	2 2	1	21	1
J 03428	29N	09W 1	8 2	2	4	21	5
J 00099	29N	09W 1	8 2	2 4		16	4
J 00097	29N	09W 1	8 2	4		16	4
J 00101	29N	09W 1	8 2	4		16	4
J 00098	29N	09W 1	8 2	2 4		16	4
SJ 00100	29N	09W 1	8 4	1		16	4
SJ 00096	29N	09W 1	8 4	2		16	4
SJ 00095	29N	09W 1	8 4	1 2		16	4
SJ 02910	29N	09W 1	8 4	1 2	1	20	
SJ 00094	29N	09W 1	8	4	2	15	
SJ 00093	29N	09W 1	8 4	4	4	155	

NAD27 X: Y:	Zone: Sear	rch Radius:
County: Basin:	Number:	Suffix:
Owner Name: (First)	(Last) C Non-	Domestic C Domestic C A
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report

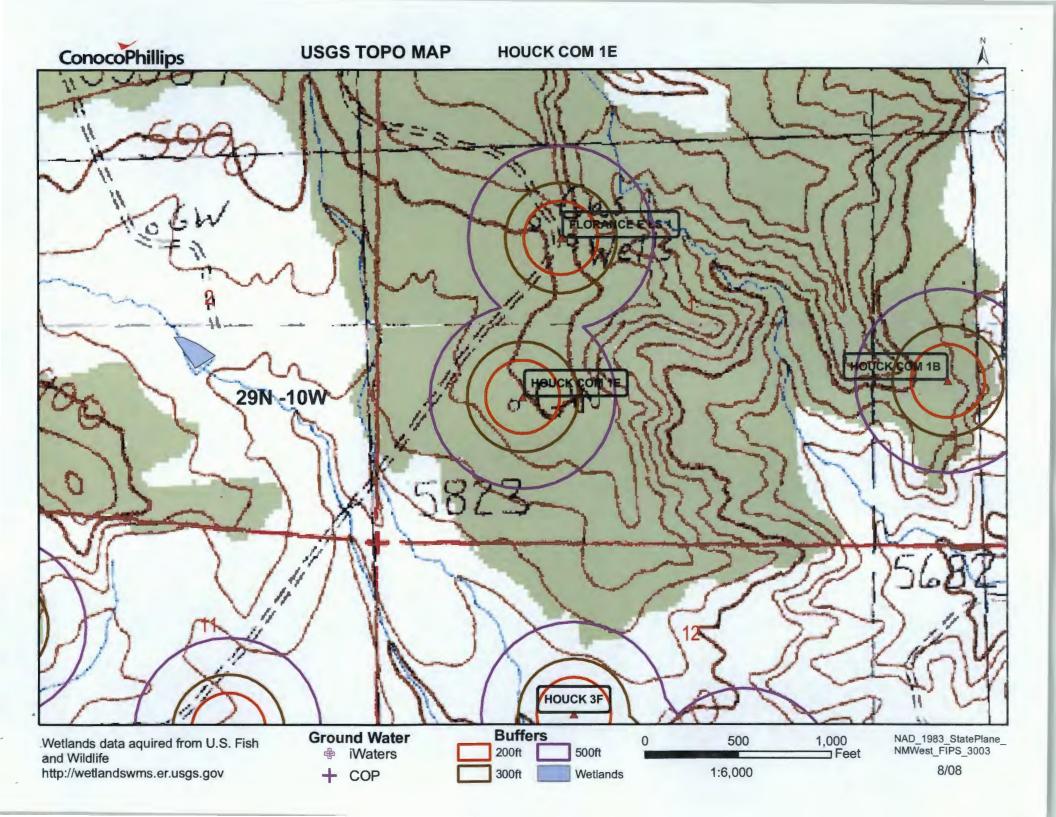
#### WATER COLUMN REPORT 08/21/2008

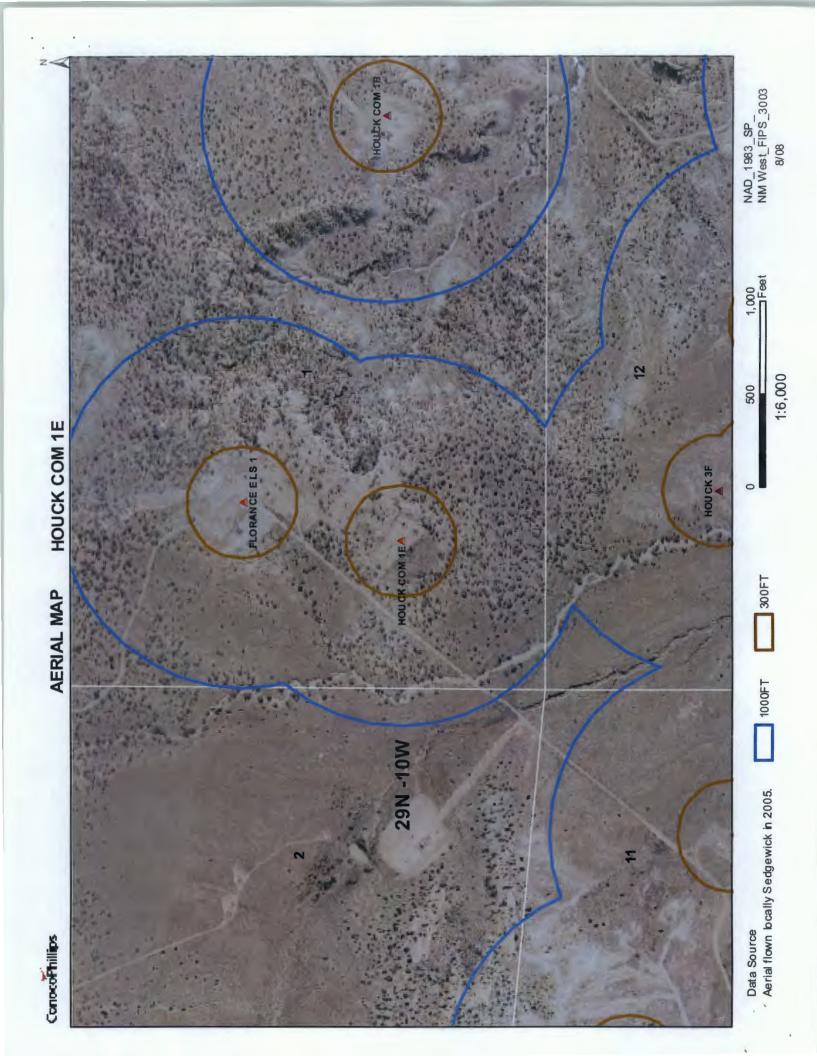
	(quarter	s are	e 1=	NW	2:	=NE	3=SW 4=	SE)						
	(quarter	s are	e bi	gg	est	t to	smalle	st)		Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	P	P	P	Zone	x	Y	Well	Water	Column		
SJ 00050	30N	10W	02	1	3	2				520	306	214		
SJ 03460	30N	10W	02	1	3	2				520	500	20		
SJ 03230	30N	10W	03	1	2	1				120	70	50		
SJ 03113	30N	10W	05	4	1	4				42	30	12		
SJ 00589	30N	10W	80	1	1	1				175	150	25		
SJ 00774	30N	10W	80	1	2	1				195	160	35		
SJ 02316	30N	10W	80	1	3					210	98	112		
SJ 02102	30N	10W	80	1	3	4				190	90	100		
SJ 01527	30N	10W	80	2	2					120	60	60		
SJ 01193	30N	10W	80	2	2					100	70	30		
SJ 02808	30N	10W	80	2	3	4				165	105	60		
SJ 01102	30N	10W	80	2	4					200	159	41		
SJ 02998	30N	10W	80	3	3	1				260	117	143		
SJ 02772	30N	10W	80	4	2	2				200	160	40		
SJ 00523	30N	10W	80	4	4					160	120	40		
SJ 01362	30N	10W	20	1	3	3				238	190	48		
SJ 03442	30N	10W	20	1	4	1				200				
SJ 02782	30N	10W	20	1	4	4				250				
SJ 02797	30N	10W	20	2	4	1				70				
SJ 00024	30N	10W	23	2	4	2				305				
SJ 00051	30N	10W	23	2		2				305				
SJ 00197	30N	10W	23	4	2					975	500	475		
SJ 00010	30N	10W	24	2						292				
SJ 01116	30N	10W	33	2	1					105	45	60		
SJ 01059	30N	10W	34	1	2	4				115	75	40		
SJ 01182	30N	10W	34	1	3	3				235	125	110		

NAD27 X: Y	Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First)	(Last) O Non-Domestic O Domestic O A
POD / Surface Data Report	Avg Depth to Water Report Water Column Report

#### WATER COLUMN REPORT 08/21/2008

	-						3=SW 4=SE) smallest)			Depth	Depth	Water	(in feet)
POD Number	Tws	Rng	Sec	g	g	g	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	4	4				21	10	11	
SJ 02092	30N	09W	33	4	4	4				32	15	17	
SJ 02170	30N	09W	35	1	4	3				20	10	10	
SJ 03565	30N	09W	35	2	4	3				20			
SJ 00091	30N	09W	35	3	2	2				34			
SJ 01330	30N	09W	36	1	1	2				20	5	15	
SJ 02298	30N	09W	36	3						15	4	11	

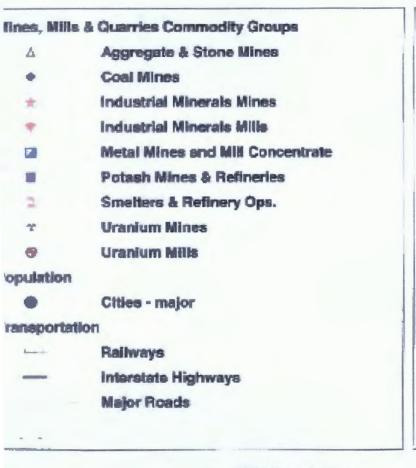


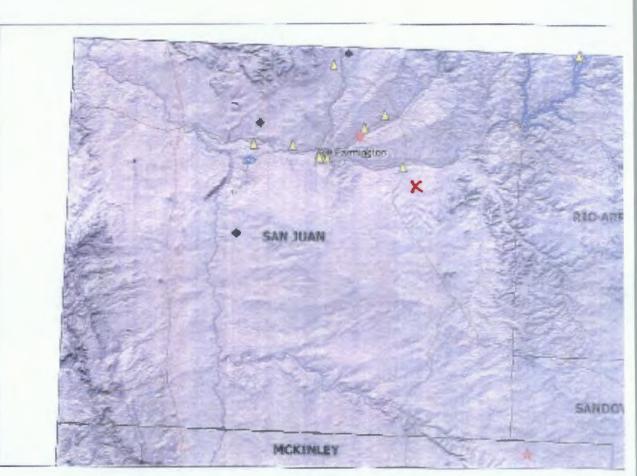


## Mines, Mills and Quarries Web Map

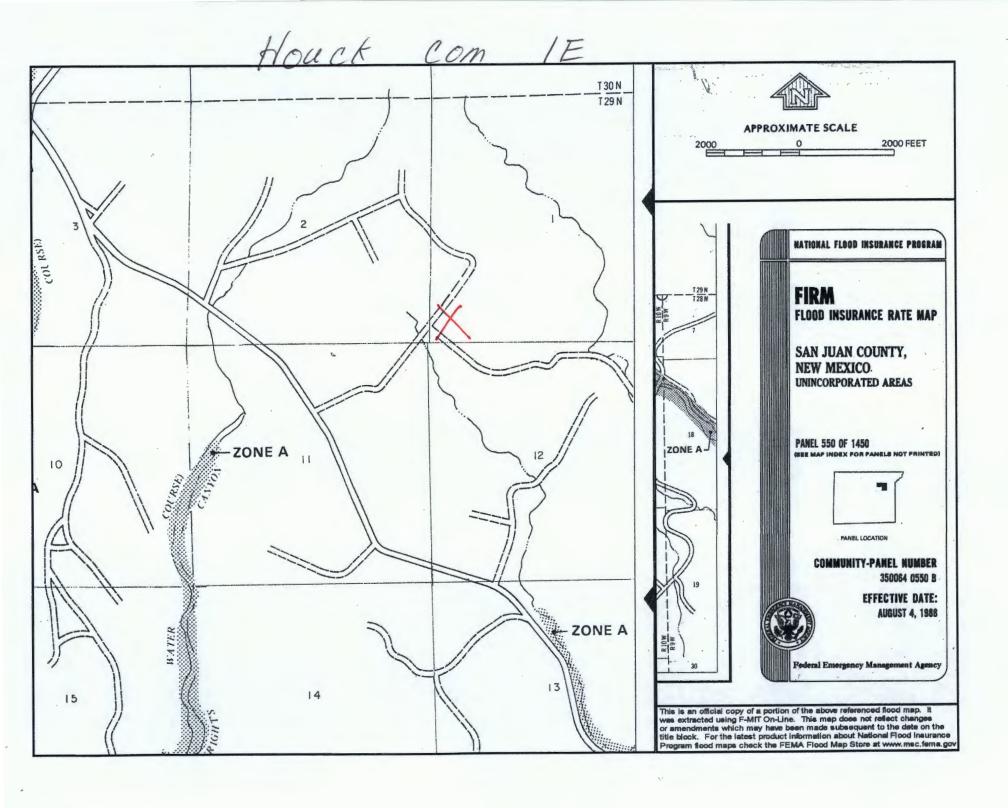
HOUCK COM 1E

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









#### **HOUCK COM 1E**

#### Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'HOUCK COM 1E', which is located at 36.749 degrees North latitude and 107.842 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 1.9 miles to the southeast. The nearest large town (population greater than 10,000) is Farmington, located 20.2 miles to the west (National Atlas). The nearest highway is State Highway 575, located 0.8 miles to the southwest. The location is on BLM land and is 1,130 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 1792 meters or 5877 feet above sea level and receives 11 inches of rain each year. The vegetation at this location is classified as Inter-Mountain Basins Semi-Desert Shrub Steppe as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 179 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 1.034 feet to the west and is classified by the USGS as an intermittent stream. The nearest perennial stream is 1,964 feet to the west. The nearest water body is 1,914 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 6,789 feet to the northeast. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 5,307 feet to the east. The nearest wetland is a 0.4 acre other located 1,897 feet to the west. The slope at this location is 2 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 15.1 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.

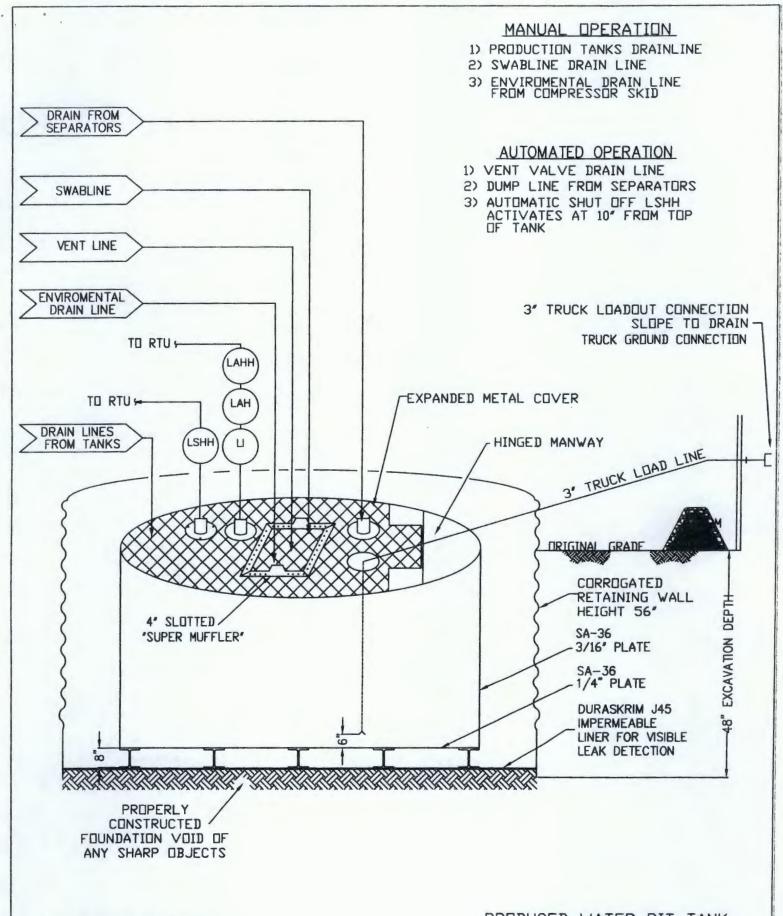
## ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

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.
- 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.



### 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 & J45**

PROPERTIES	TEST METHOD	J3	0BB	J36	BB	J45	BB .
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages
Appearance		Black	k/Black	Black	/Black	Black	/Black
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)
Construction		**Extr	usion laminated	with encapsula	ted tri-direction	al scrim reinford	cement
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
15 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** 



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 multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, COPC shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 5. COPC shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then COPC shall remove all liquid above the damage or leak line within 48 hours. COPC shall notify the appropriate district office. COPC shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, COPC shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. COPC shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

## 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