#### District I

1625 N. French Dr., Hobbs, NM 88240

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

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

Form C-144

July 21, 2008

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

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

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Operator: ConocoPhillips Company	OGRID#: 217817
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: FEDERAL 10	
API Number: 3004508659	OCD Permit Number:
U/L or Qtr/Qtr: O Section: 1 Township: 29N	Range: 11W County: San Juan
Center of Proposed Design: Latitude: 36.75024°N	Longitude: -107.93882°W NAD: X 1927 1983
Surface Owner: Federal X State Private	Fribal 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 mi String-Reinforced Liner Seams: Welded Factory Other	LLDPE HDPE PVC 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 notice of it  Drying Pad Above Ground Steel Tanks Haul-off Bins  Lined Unlined Liner type: Thickness mil  Liner Seams: Welded Factory Other	or Drilling (Applies to activities which require prior approval of a permit or atent)  Other  LLDPE HDPE PVD Other
	ner, 6-inch lift and automatic overflow shut-off Other
5 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to	o the Santa Fe Environmental Bureau office for consideration of approval.

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, institution or church)									
Four foot height, four strands of barbed wire evenly spaced between one and four feet									
A Journaire. Prease specify 4 nog wire rending topped with two strands naribed wire.									
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open-top tanks)  X Screen									
8 Signs: Subsection C of 19.15.17.11 NMAC									
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  X Signed in compliance with 19.15.3.103 NMAC									
9  Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.									
Please check a box if one or more of the following is requested, if not leave blank:									
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for co (Fencing/BGT Liner)	nsideration of a	pproval.							
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.									
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.									
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo							
(Applies to temporary, emergency, or cavitation pits and helow-grade tanks)	NA								
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image									
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applied to permanent pits)	Yes	No							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		_							
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo							
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.									
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes	XNo							
<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes	XNo							
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo							
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes	XNo							
Within a 100-year floodplain - FEMA 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 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 Operating and Maintenance Plan API
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 Burial On-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 Lof 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 Ground Stee	Torks or Havil off Pira Ouley (10 15 17 17 D NIMAC)	
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling for required.	<u>Tanks of Haut-oit Bins Only:</u> (19.15.17.13.1) NMAC) fluids and drill cuttings. Use attachment if more than two fa	ucilities
·	Disposal Facility Permit #:	
Disposal Facility Name:	Disposal Facility Permit #:	<del></del>
Will any of the proposed closed-loop system operations and associated activities  Yes (If yes, please provide the information No		
Required for impacted areas which will not be used for future service and operations:  Soil Backfill and Cover Design Specification - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsect Site Reclamation Plan - based upon the appropriate requirements of Subsect	tion I of 19.15:17.13 NMAC	
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recertain siting criteria may require administrative approval from the appropriate district office or for consideration of approval. Justifications and/or demonstrations of equivalency are required.	ecommendations of acceptable source material are provided below r may be considered an exception which must be submitted to the S	w. Requests regarding changes to Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS: Data obtain	nod from nearby wells	Yes No
	ned from hearby wells	∐N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste	16.	Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtain	led from nearby wells	∐N/A
Ground water is more than 100 feet below the bottom of the buried waste.		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtain		∐N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significa (measured from the ordinary high-water mark).	nt watercourse or lakebed, sinkhole, or playa lake	Yes No
<ul> <li>Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in ex</li> </ul>	simple of the sine of initial and initial	□Vos □Ns
- Visual inspection (certification) of the proposed site: Aerial photo: satellite image	istence at the time of initial application.	YesNo
		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exister - NM Office of the State Engineer - iWATERS database; Visual inspection (certifica	nce at the time of the initial application.	
Within incorporated municipal boundaries or within a defined municipal fresh water well pursuant to NMSA 1978, Section 3-27-3, as amended.	ll field covered under a inunicipal ordinance adopted	Yes No
<ul> <li>Written confirmation or verification from the municipality: Written approval obtain</li> <li>Within 500 feet of a wetland</li> </ul>	ted from the municipality	□Yes □No
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspec	ction (certification) of the proposed site	
Within the area overlying a subsurface mine.		Yes No
<ul> <li>Written confirantion or verification or map from the NM EMNRD-Mining and Mil</li> <li>Within an unstable area.</li> </ul>	neral Division	П. П.
Engineering measures incorporated into the design; NM Bureau of Geology & Mini Topographic map	eral Resources; USGS; NM Geological Society;	Yes No
Within a 100-year floodplain FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.	the following items must bee attached to the closure	plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate r	requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirements		
Construction/Design Plan of Burial Trench (if applicable) based upon the		
Construction/Design Plan of Temporary Pit (for in place burial of a drying		15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 19		
Confirmation Sampling Plan (if applicable) - based upon the appropriate re	equirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate requirements		
Disposal Facility Name and Permit Number (for liquids, drilling fluids and		ot be achieved)
Soil Cover Design - based upon the appropriate requirements of Subsection		
Re-vegetation Plan - based upon the appropriate requirements of Subsection  Site Reclamation Plan - based upon the appropriate requirements of Subsection		

19				
Operator Application C				
	ormation submitted with this application is true, accu			
Name (Print):	Crystal Fafoya	Title:	Regulatory Technician	
Signature:	ciptal Jajoja	Date:	12/22/2008	
e-mail address:	ar stal taloy. Wearocope are com	Telephone:	505-326-9837	
20				
	ermit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)	
OCD Representative Sig				
OCD Representative on	gnature:		Approval Date:	
Title:		OCD Perm	uit Number:	
Clarina Papart (require	- 3 14bin 60 down of alocure completion): c.u.	** CIO 15 17 13 NMAC		
	ed within 60 days of closure completion); Sub- required to obtain an approved closure plan prior to		re activities and submitting the closure report. The closure	
report is required to be subt	mitted to the division within 60 days of the completic	on of the closure activities	s. Please do not complete this section of the form until an	
approved closure plan has t	been obtained and the closure activities have been co	· _		
		Closure	Completion Date:	
22				
Closure Method:				
Waste Excavation a	and Removal On-site Closure Method	Alternative Closure I	Method Waste Removal (Closed-loop systems only)	
If different from app	proved plan, please explain.			
23				
Closure Report Regarding	Waste Removal Closure For Closed-loop System			
Instructions: Please identify were utilized.	y the facility or facilities for where the liquids, drill	ling fluids and drill cuttin	ngs were disposed. Use attachment if more than two facilities	
Disposal Facility Name:		Disposal Facility I	Permit Number:	
Disposal Facility Name:		Disposal Facility I		
	stem operations and associated activities performed of			
Yes (If yes, please d	lemonstrate complilane to the items below)	No		
parameter 1	reas which will not be used for future service and op	perations:		
=	hoto Documentation)			
Soil Backfilling and	Cover Installation			
	cation Rates and Security recuirique			
24 Closure Report Attac		i items must be attac	ched to the closure report. Please indicate, by a check mark in	
the box, that the docume		Wing Hems must be with	hed to the closure report. Freuse maitine, vy a theta main in	
	Notice (surface owner and division)			
=	tice (required for on-site closure)			
Plot Plan (for on-si	ite closures and temporary pits)			
Confirmation Sam	pling Analytical Results (if applicable)			
=	mpling Analytical Results (if applicable)			
<b>=</b> .	Name and Permit Number			
=	d Cover Installation			
=	olication Rates and Seeding Technique			
	Photo Documentation)			
On-site Closure Lo	ocation: Latitude:	Longitude:	NAD 1927 1983	
25				
Operator Closure Certification in the inferior		→ in terms recompute at	the state of the state of the said ball of the continue	
	rmation and attachments submitted with this closure I applicable closure requirements and conditions spe		nd complete to the best of my knowledge and belief. I also certify the osure plan.	ıas
,				
Name (Print):		Title:		
Signature:		Date:		
		T !		
e-mail address:		Telephone:		

## New Mexico Office of the State Engineer POD Reports and Downloads

	NAD27 X:	Y:		Zone:		Search Radius:
County:		Basin:			Numb	ber: Suffix:
Owner Na	me: (First)		(Last)			Non-Domestic C Domestic A
PC	DD / Surface Dat	a Report	Avg	Depth to Water	Report	Water Column Report

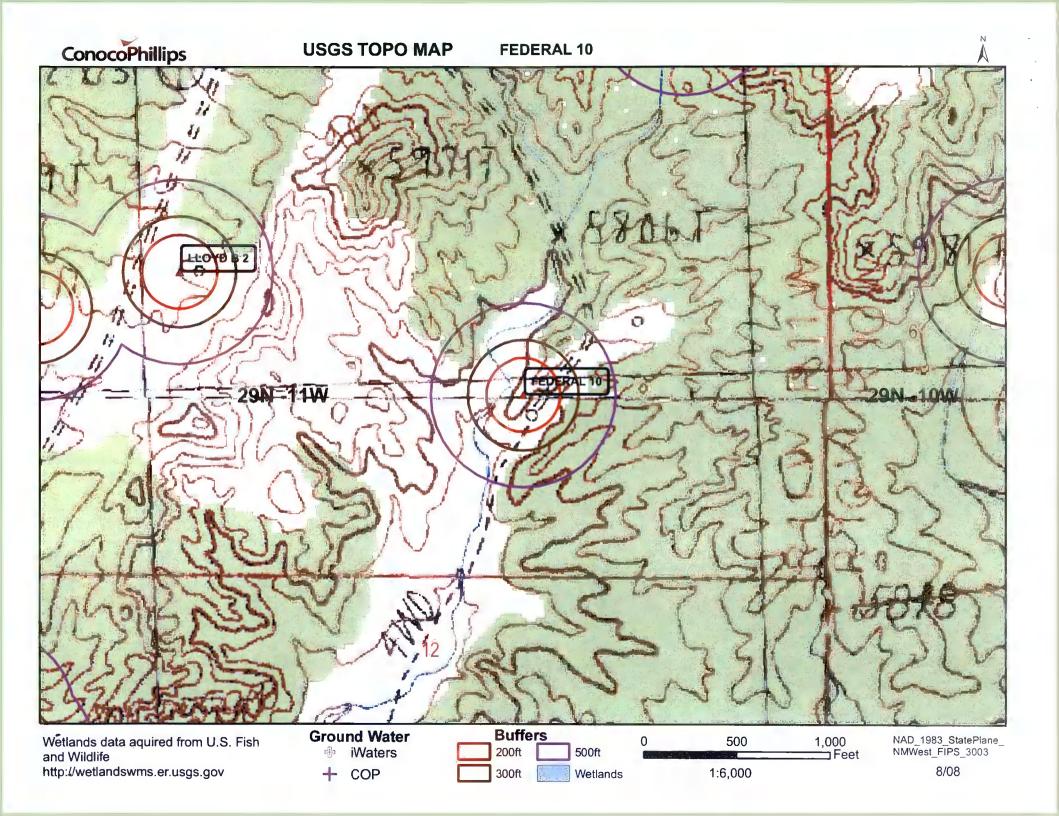
#### WATER COLUMN REPORT 08/20/2008

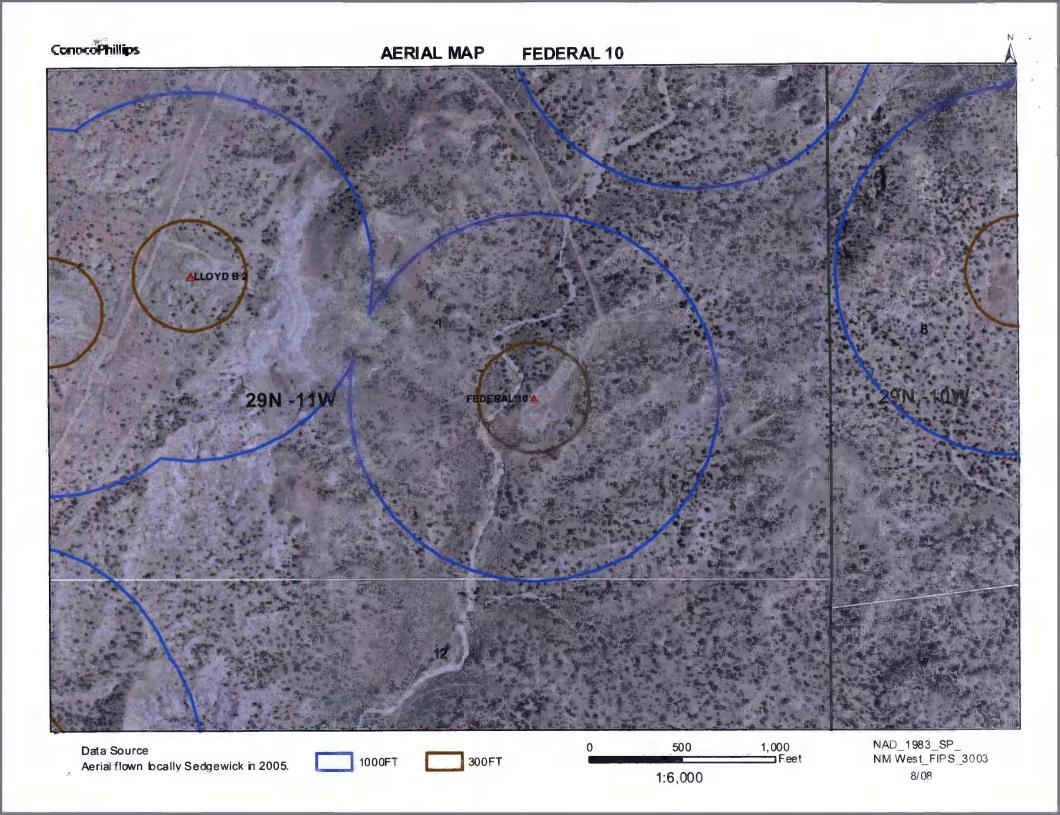
	(quarter	s are 1=	NW 2=NE	3=SW 4=SE)					
	(quarter	s are bi	ggest to	smallest)		Depth	Depth		(in feet)
POD Number	Tws	Rng Sec	PPP	Zone	X Y	Well	Water	Column	
SJ 00867	29N	11W 07	4			77	5.5	22	
SJ 01302	29N	11W 07	4 1			250	210	40	
SJ 01891	29N	11W 07	4 1 3			157			
SJ 01851	29N	11W 10	4 4			125	48	77	
SJ 02466 S	29N	11W 11	4 3 3			65			
SJ 02466	29N	11W 11	4 3 3			66			
SJ 02991	29N	11W 13	3 4 2			60			
SJ 03136	29N	11W 13	3 4 4			20			
SJ 00987	29N	11W 13	4			415	300	115	
SJ 01426	29N	11W 14	1 4			155	10	145	
SJ 00007	29N	11W 14	2 2 3			752			
SJ 03550	29N	11W 14	3 2 1			10			
SJ 01774	29N	11W 14	3 4 2			82	6	76	
SJ 03360	29N	11W 14	3 4 2			40			
SJ 03175	29N	11W 14	4 2 1			60	24	36	
SJ 03164	29N	11W 14	4 2 1			75	56	19	
SJ 03733 POD1	29N	11W 15	4 2 1			64	20	44	
SJ 02378	29N	11W 15	4 3 2			75	12	63	
SJ 03579	29N	11W 15	4 4 1			83	30	53	
SJ 02141	29N	11W 16	4 3 4			110	40	70	
SJ 02926	29N	11W 17	2 4 3			375	80	295	
SJ 03399	29N	11W 17	4 2			100			
SJ 00487	29N	11W 17	4 4			60	6	54	
SJ 02868	29N	11W 17	4 4 4			50			
SJ 01641	29N	11W 19	2 2 3			120	55	6,5	
SJ 02026	29N	11W 19	3 1	4400	00 2077700	27	6	21	
SJ 02970	29N	11W 19	4 3 2			100	18	82	
SJ 01250	29N	11W 19	4 4			60	20	40	
SJ 02869	29N	11W 20	2 2 1			50			
SJ 00583	29N	11W 20	3 3 2			150	30	120	
SJ 01355	29N	11W 20	4 4			36	3	3.3	
SJ 00452	29N	11W 21				42	10	32	

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SJ 01969	29N	11W 21	2			65	55	10
SJ 00701 CLW312190	29N	11W 21	2	2		70	14	56
SJ 00701	29N	11W 21	2	2	1	73		
SJ 03350	29N	11W 21	2	2	3	50		
SJ 01090	29N	11W 21	2	4		31	12	19
SJ 02863	29N	11W 21	2	4	1	52	20	32
SJ 03659	29N	11W 21	3	2	2	45	10	35
SJ 01888	29N	11W 21	4	2	2	47	8	39
SJ 02200	29N	11W 22				60	22	38
SJ 01557	29N	11W 22	1	2		70	11	59
SJ 00796	29N	11W 22	1			50	8	42
SJ 00704	29N	11W 22	1			55	20	35
SJ 01703	29N	11W 22	1	2		68	3	65
SJ 03747 POD1	29N	11W 22	1		3	47	27	20
SJ 02813	29N	11W 22	1		3	59		
SJ 01214	29N	11W 22	1	3	3		16	43
SJ 00484	29N	11W 22	1	3	1	49	12	37
						37	10	27
SJ 00320	29N	11W 22	1		1	38	10	28
SJ 03532	29N	11W 22	1	3	3	49	14	35
SJ 00151	29N	11W 22	1		4	45	18	27
SJ 02721	29N	11W 22	1	4			59	
SJ 03503	29N	11W 22	2		3	72	18	54
SJ 02578	29N	11W 22	2	3	3	5.8	24	34
SJ 03093	29N	11W 22	2	3	4	42	22	20
SJ 03189	29N	11W 22	3	2	1	45	20	25
SJ 03188	29N	11W 22	3	2	2	45	11	34
SJ 02020	29N	11W 22	3	3		27	6	21
SJ 02138	29N	11W 22	4	2		40	7	33
SJ 02529	29N	11W 22	4		3	30	9	21
SJ 03479	29N	11W 22	4	2	3	43	4	39
SJ 03049	29N	11W 22	4	2	4	33	10	23
SJ 00696	29N	11W 22	4	3		34	12	22
SJ 01974	29N	11W 22	4	3	3	47	11	36
SJ 03567	29N	11W 23	1	2	3	50	22	28
SJ 03557	29N	11W 23	1	3	1	50	15	35
SJ 03558	29N	11W 23	1	3	1	50	15	35
SJ 03559	29N	11W 23	1	3	4	45	15	30
SJ 00812	29N	11W 23	1	4		44		
SJ 03546	29N	11W 23	1	4	2	50	15	35
SJ 03591	29N	11W 23	1	4	4	55	20	35
SJ 01870	29N	11W 23	2			58	3.0	28
SJ 03130	29N	11W 23	2	1	3	50	30	20
SJ 03201	29N	11W 23	2	1	3	60	30	30
SJ 03353	2.9N	11W 23	2	1	3	45	25	20
SJ 01610	29N	11W 23	2	2		52	25	27
SJ 01573	29N	11W 23	2	3		41	21	20
SJ 03073	29N	11W 23	2	3	1	30		
SJ 03286	29N	11W 23	3	3	1	38	28	10
SJ 02799	29N	11W 23	4	1	1	56	15	41
SJ 03548	29N	11W 23	4	1	1	50	15	35
SJ 01962	29N	11W 24	1	2	2	45	12	33
SJ 03343	29N	11W 24	1			35	18	17
SJ 00804	29N	11W 25	1			37	25	12
SJ 01808 0-5	29N	11W 26		1	1	52	43	9
SJ 02121	29N	11W 27	1	1		30	6	24
SJ 02210	29N	11W 27	1	1		32	8	24
SJ 03588	29N	11W 27	1	1	2	JZ	O	24
SJ 02227	29N	11W 27	1	1		27	6	2.1
						27	6	21
SJ 00700	29N	11W 27	Τ	3	3	20	7	13

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SJ 01808 0-4	29N	11W 27	2 3	3			32	25	7
SJ 01808 0-1	29N	11W 27	2 4				25	17	8
SJ 01808 0-2	29N	11W 27	2 4	3			27	19	8
SJ 01808 0-3	29N	11W 27	2 4	4			39	34	5
SJ 02664	29N	11W 27	3 2				40	26	14
SJ 02664 S	29N	11W 27	3 2				38	23	15
SJ 02664 S-2	29N	11W 27	3 2				34	19	15
SJ 02664 S-3	29N	11W 27	3 2				41	30	11
SJ 02664 S-9	29N	11W 27	3 2				33	19	14
SJ 02664 S-4	29N	11W 27	3 2				42	30	12
SJ 02664 S-10	29N	11W 27	3 2				33	19	14
SJ 02664 S-5	29N	11W 27	3 2				41	30	11
SJ 02664 S-6	29N	11W 27	3 2				40	28	12
SJ 02664 S-7	29N	11W 27	3 2				37	2.3	14
SJ 02664 S-8	29N	11W 27	3 2				35	25	10
SJ 02148	29N	11W 27	4 2				305	186	119
SJ 01808 0-6	29N	11W 27	4 2	1			50		
SJ 03762 POD1	29N	11W 28	1 1		267348	2075529	27	15	12
SJ .03476	29N	11W 28	1 1				65		
SJ 03415	29N	11W 28	1 2				60	20	40
SJ 02559	29N	11W 28	1 2	4			15	7	8
SJ 02330	29N	11W 28	2 1				128	115	13
SJ 03021	29N	11W 28	2 1	3			16	5	11
SJ 01606	29N	11W 28	2 2				35	8	27
SJ 03468	29N	11W 28	2 4	_	367704	2073506	50		
SJ 03469	29N	11W 28	2 4				50		
SJ 02713	29N	11W 28		1			26	12	14
SJ 02858	29N	11W 28	3 1	3			40	0.0	1.5
SJ 02714	29N	11W 28	3 2				43	28	15
SJ 02708	29N	11W 28	3 2	2			26	12	14
SJ 03149	29N 29N	11W 28 11W 29	4 2 1 1				60	3.5	25
SJ 03475	29N	11W 29	1 1 2 1				40 24	20	20
SJ 00292 SJ 01554	29N	11W 29	2 2	4			35	9 18	15 17
SJ 02038	29N	11W 29	4 1				14	4	10
SJ 03298	29N	11W 29		1			70	6	64
SJ 02023	29N	11W 29	4 2	Τ.			24	7	17
SJ 02182	29N	11W 29	4 2				27	11	16
SJ 00822	29N	11W 29	4 3				34	15	19
SJ 03421	29N	11W 29		3			50	28	22
SJ 01391	29N	11W 30	2				40	25	15
SJ 03348	29N	11W 30		3			60		
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SJ 01264	29N	11W 30	2 2				27	12	15
SJ 01328	29N	11W 30	2 2				28	15	13
SJ 01821	29N	11W 30	2 4				70	6	64
SJ 00875	29N	11W 30	4 1				37	20	17
SJ 02922	29N	11W 31		2			75		
SJ 03795 POD1	2.9N	11W 31		4	266438	2067001	75	45	30
SJ 03541	29N	11W 31		1			8.0	40	40
SJ 00441	29N	11W 32	2 2						
SJ 00103	29N	11W 32		4			2.63		
SJ 00103 S	29N	11W 32		4			254		
SJ 03666	29N	11W 33	2 1	3			49	30	19

Record Count: 145

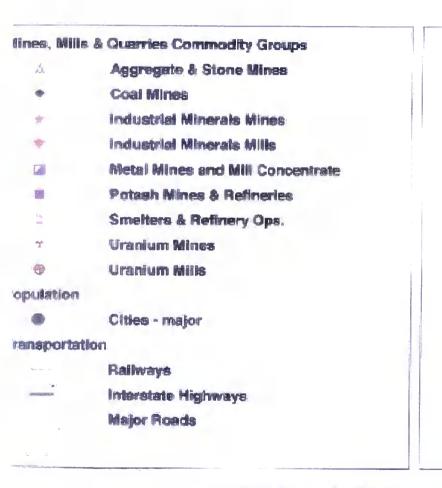


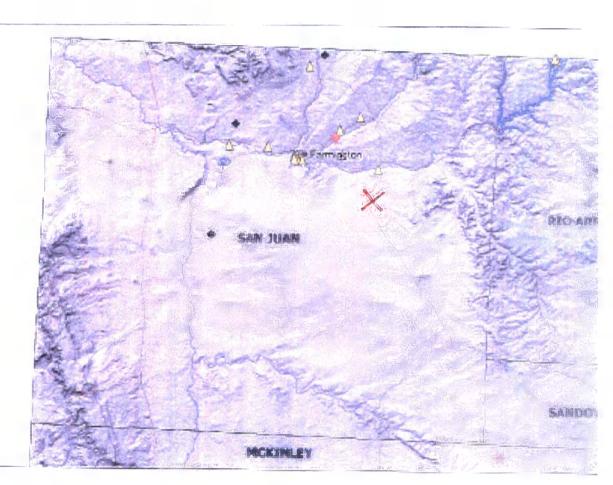


## Mines, Mills and Quarries Web Map

FEDERAL 10

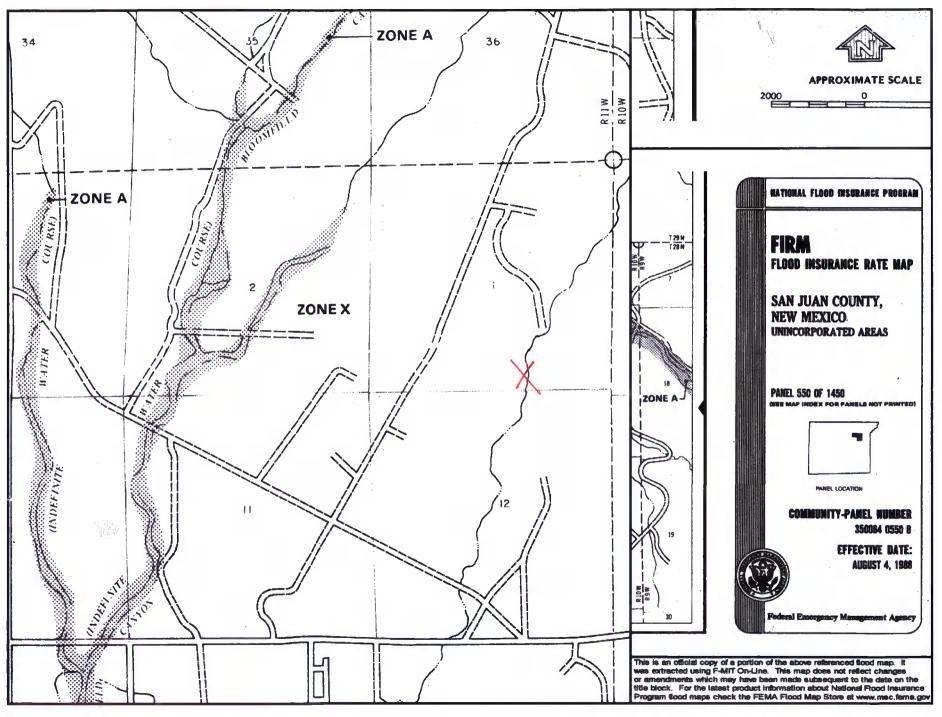
Unit Letter: O, Section: 01, Town: 029N, Range: 011W







Federal # 10



#### **FEDERAL 10**

#### Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'FEDERAL 10', which is located at 36.75024 degrees North latitude and 107.93882 degrees West longitude. This location is located on the Aztec 7.5' USGS topographic quadrangle. This location is in section 1 of Township 29 North Range 11 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan county, New Mexico. The nearest town is Bloomfield, located 3.8 miles to the southwest. The nearest large town (population greater than 10,000) is Farmington, located 14.8 miles to the west (National Atlas). The nearest highway is US Highway 64, located 2.2 miles to the south. The location is on BLM land and is 972 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 1770 meters or 5805 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 218 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 280 feet to the west and is classified by the USGS as an intermittent stream. The nearest perennial stream is 5,309 feet to the northwest. The nearest water body is 8,526 feet to the east. It is classified by the USGS as an intermittent lake and is 0.3 acres in size. The nearest spring is 8,241 feet to the southeast. 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 8,131 feet to the south. The nearest wetland is a 0.8 acre Freshwater Pond located 11,403 feet to the southeast. The slope at this location is 4 degrees to the west 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 'Gypsiorthids-Badland-Stumble complex, moderately steep' and is somewhat excessively drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 14.9 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.

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#### 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.

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The Four Carrier's

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.

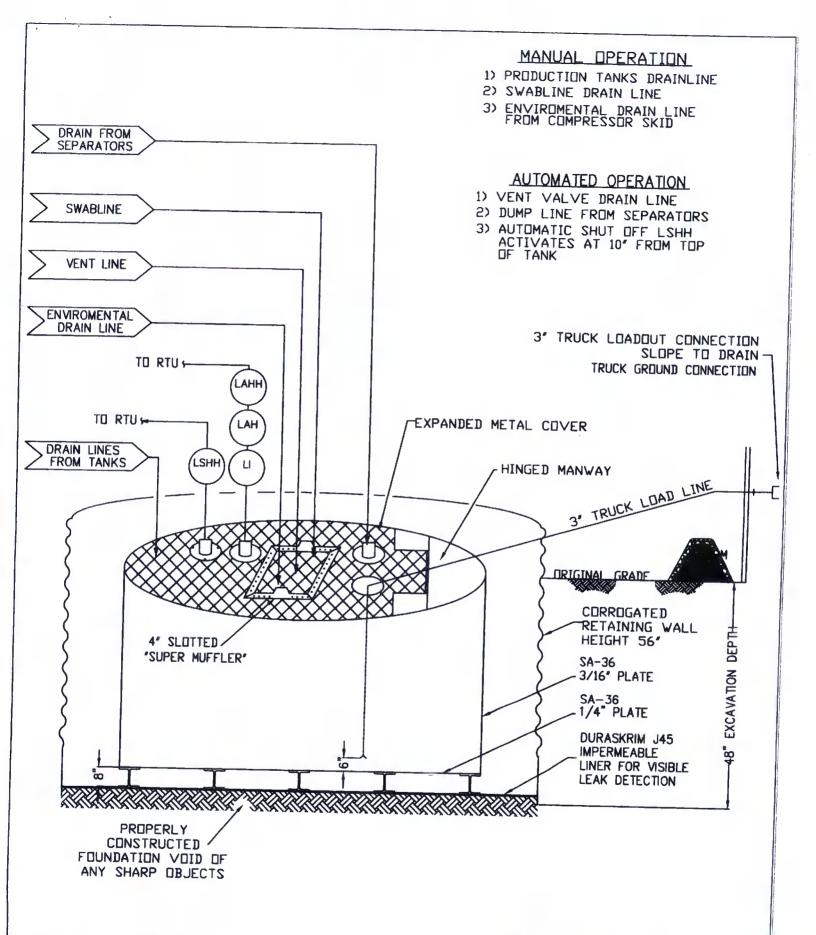
# ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

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.
- 2. 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.
- 4. COPC will construct a screened, expanded metal covering, on the top of the BGT.
- 5. COPC shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet.
- 6. The COPC below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom as shown on design drawing.
- 7. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 8. COPC will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.

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



### 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	J.	30BB	J3	68 <b>8</b>	J4	J45BB		
	:	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages		
Appearance	i .	Blac	ck/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	ited tri-direction		1 '		
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs		
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD		
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD		
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD		
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD		
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD		
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD		
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5		
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf		
Maximum Use Temperature		180° F							
Minimum Use Temperature		-70° F							

MD = Machine Direction DD = Diagonal Directions



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

\*Dimensional Stability Maximum Value

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

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

#### **PLANT LOCATION**

Sioux Falls, South Dakota

#### SALES OFFICE

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



#### RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

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

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

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

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

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

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

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

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

# ConocoPhillips Company San Juan Basin Below Grade Tank Maintenance and Operating Plan

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

#### General Plan:

- COPC will operate and maintain a BGT to contain liquids and solids and maintain
  the integrity of the liner, liner system and secondary containment system to
  prevent contamination of fresh water and protect public health and environment.
  COPC will accomplish this by performing an inspection on a monthly basis,
  installing cathodic protection, and automatic overflow shutoff devices as seen on
  the design plan.
- 2. COPC will not discharge into or store any hazardous waste in the BGT.
- 3. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, COPC will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, COPC's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, COPC shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 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 o f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, COPC will file the C144 Closure Report as required.
- COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- COPC will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.
- 5. COPC shall test the soils beneath the below-grade tank to determine whether a release has occurred. COPC shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. COPC shall notify the division of its results on form C-141.

- 6. If COPC or the division determines that a release has occurred, then COPC shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.
- 7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
  - i. Operator's name
  - Location by Unit Letter, Section, Township, and Range. Well name and API number.
- The surface owner shall be notified of COPC's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 11. COPC shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (unimpacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. COPC will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the belowgrade tank. Closure report will be filed on C-144 and incorporate the following:
  - Soil Backfilling and Cover Installation
  - Re-vegetation application rates and seeding techniques
  - Photo documentation of the site reclamation
  - Confirmation Sampling Results
  - Proof of closure notice