e25 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy Minerals and Natural Resources Timent tion Division —t. Francis Dr. VM 87505	Form C-144 July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
20 S. St. Francis Dr., Santa Fe, NM 87505	D' Classic Carta Data Cart	
Duran	Pit, Closed-Loop System, Below-Grad	
Propos	sed Alternative Method Permit or Closur	
Type of action:	X Permit of a pit, closed-loop system, below-grade t	
	Closure of a pit, closed-loop system, below-grade	tank, or proposed alternative method
	Modification to an existing permit	
	Closure plan only submitted for an existing permi below-grade tank, or proposed alternative method	
Instructions: Please submit one	application (Form C-144) per individual pit, closed-loo	
	of this request does not relieve the operator of liability should operations r	
environment. Nor does approval re	lieve the operator of its responsibility to comply with any other applicable	governmental authority's rules, regulations or ordinances.
perator: ConocoPhillips Compar	NU	OGRID#: 217817
ddress: PO Box 4289, Farmingt		
acility or well name: LUDWICK		
	3004529562 OCD Permit Numbe	e.
/L or Qtr/Qtr: F Sect		· · · · · · · · · · · · · · · · · · ·
enter of Proposed Design: Latitud		
urface Owner: X Federal	le: 36.758361°N Longitude: State Private Tribal Trust or Indian	
Pit: Subsection F or G of 19.15.	17.11 NMAC	
	I7.11 NMAC rkover Cavitation P&A LLDPE	HDPE PVC Other
	17.11 NMAC rkover Cavitation P&A .iner type: Thickness mil LLDPE Factory Other Volume: .tion H of 19.15.17.11 NMAC	HDPE PVC Other
Pit: Subsection F or G of 19.15.1 Temporary: Drilling Wo Permanent Emergency I Lined Unlined String-Reinforced Liner Seams: Welded Closed-loop System: Subsec Type of Operation: P&A	17.11 NMAC rkover Cavitation P&A .iner type: Thickness mil LLDPE Sactory Other Volume: .iner type: Thickness mil LLDPE Sactory Other Volume:	HDPE PVC Other bbl Dimensions L x W x D
Pit: Subsection F or G of 19.15. Temporary: Drilling Wo Permanent Emergency Image: Closed - Closed	17.11 NMAC rkover Cavitation P&A iner type: Thickness mil LLDPE Sactory Other Volume: iner type: Thickness mil LLDPE Sactory Other Volume:	HDPE PVC Other bbl Dimensions L x W x D activities which require prior approval of a permit or
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Pit: Subsection F or G of 19.15. Temporary: Drilling Wo Permanent Emergency Hermanent Lined Unlined L String-Reinforced Unlined Emergency Liner Seams: Welded Hermanent Closed-loop System: Subsection Type of Operation: P&A P&A Drying Pad Above Gro Lined Lined Liner Seams: Welded Hermanent Emergency X Below-grade tank: Subsection Volume: 120 Tank Construction material: Secondary containment with leak of the sidewalls and liner	17.11 NMAC rkover Cavitation P&A .iner type: Thickness mil LLDPE 'actory Other Volume: .iner type: Thickness Number of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent) und Steel Tanks Haul-off Bins Other er type: Thickness mil LLDPE Here Sactory Other I of 19.15.17.11 NMAC bbl Type of fluid: Produced Water Metal detection X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other	HDPE PVC Other
Pit: Subsection F or G of 19.15. Temporary: Drilling Wo Permanent Emergency Lined Unlined String-Reinforced Liner Seams: Welded Closed-loop System: Subsect Type of Operation: P&A Drying Pad Above Gro Liner Seams: Welded Welded F X Below-grade tank: Subsection Volume: 120 Tank Construction material: Secondary containment with leak or Visible sidewalls and liner Liner Type: Thickness	17.11 NMAC rkover Cavitation P&A .iner type: Thickness mil LLDPE factory Other Volume: .iner type: Thickness Number of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent) und Steel Tanks Haul-off Bins Other er type: Thickness mil LLDPE Here Sactory Other I of 19.15.17.11 NMAC bbl Type of fluid: Produced Water Metal detection X Visible sidewalls, liner, 6-inch lift and auto Visible sidewalls only Other	HDPE PVC Other bbl Dimensions L x W x D activities which require prior approval of a permit or IDPE PVD Other prmatic overflow shut-off
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6 .* <u>Fencing:</u> Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)		
Chain link. six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, insti	itution or chu	rch)
Four foot height, four strands of barbed wire evenly spaced between one and four feet		,
X Alternate. Please specify <u>4' hog wire fencing topped with two strands barbed wire.</u>		
7		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)		
X Screen Netting Other		
Monthly inspections (If netting or screening is not physically feasible)		
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 consid (Fencing/BGT Liner)	deration of ap	proval.
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
10		
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	X No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		_
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No
(Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA	
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering	Yes	X No
purposes, or within 1000 horizontal 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 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 - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	XNo
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes	XNo
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area.	Yes	XNo
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map		
Within a 100-year floodplain - FEMA map	Yes	XNo

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsect Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, the	tion B of 19.15.17.9 NMAC at the documents are attached
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B	
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Su	bsection B of 19.15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMA	
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 requirement	s of Subsection C of
19.15.17.9 NMAC and 19.15.17.13 NMAC	of Subsection C of
Previously Approved Design (attach copy of design) API or Perm	it
12 Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirement 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 B of 19.15.17.9 nts of 19.15.17.10 NMAC
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, t	hat 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	AC
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 NMAG 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 19.15.17.1	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 Ta	nk Closed-loop System
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 Environmer	tal Bureau for consideration)
15	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following ite	ms 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 19.1 	5 17 13 NMAC
 X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) 	3.17.13 NMAC
 X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of I 	9.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I 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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16 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Ste Instructions: Please identify the facility or facilities for the disposal of liquids, drilling are required.	<u>el Tanks or Haul-off Bins Only:</u> (19.15.17.13.D NMAC) ¡fluids and drill cuttings. Use attachment if more than two	facilities
Disposal Facility Name:		
Disposal Facility Name:		and another 2
Yes (If yes, please provide the information No	25 occur on or in areas that with nor the used for future s	service and operations?
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 Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate requirements of Subsectional Site Reclamation Plan - based upon the appropriate Reclamation Plan - based upon	ate requirements of Subsection H of 19.15.17.13 NMA ction I of 19.15.17.13 NMAC	ıC
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NMAN Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. A certain siting criteria may require administrative approval from the appropriate district office for consideration of approval. Justifications and/or demonstrations of equivalency are require	Recommendations of acceptable source material, are provided beh or may be considered an exception which must be submitted to the	ow. Req uests regarding changes to e Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.		Yes No
- NM Office of the State Engineer - iWATERS database search: USGS: Data obta	ained from nearby wells	
Ground water is between 50 and 100 feet below the bottom of the buried waste		
 NM Office of the State Engineer - iWATERS database search; USGS; Data obta 		
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 obta	ined from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signific (measured from the ordinary high-water mark).	cant watercourse or lakebed, sinkhole, or playa lake	Yes No
- Topographic map: Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church in - Visual inspection (certification) of the proposed site; Aerial photo; satellite image		Yes No
		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less tha purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exist - NM Office of the State Engineer - iWATERS database; Visual inspection (certific	ence at the time of the initial application.	
Within incorporated municipal boundaries or within a defined municipal fresh water w pursuant to NMSA 1978. Section 3-27-3, as amended.		Yes No
- Written confirmation or verification from the municipality; Written approval obta	lined from the municipality	
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map: Topographic map: Visual insp	ection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine.		Yes No
 Written confirmation or verification or map from the NM EMNRD-Mining and M 	lineral Division	
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mi	neral Resources; USGS: NM Geological Society:	Yes No
Topographic map Within a 100-year floodplain.		
- FEMA map		
18		
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.	of the following items must bee attached to the closur	e plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate	requirements of 10 15 17 10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requiremen		
Construction/Design Plan of Burial Trench (if applicable) based upon the		
Construction/Design Plan of Temporary Pit (for in place burial of a dryin		9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 1		
Confirmation Sampling Plan (if applicable) - based upon the appropriate		
Waste Material Sampling Plan - based upon the appropriate requirement	c of Subcostion E of 10 15 17 12 MMAC	

Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

Soil Cover Design - 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

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

P9			
Operator Application			
Thereby certify that the i	nformation submitted with this application is true.	accurate and complete to th	e best of my knowledge and belief.
Name (Print):	Crystal Tafoya	Title:	Regulatory Technician
Signature:	Cupter Dafaya	Date:	12/22/2008
e mail address:	at statistica Democratilar as a		
e man address.	17.244) CHOYA 24 CONCUPERIOS.com	Telephone:	505-326-9837
20 OCD Approvals	Durmit Ameliantian (installing stressed at)		
OCD Approval:	Permit Application (including closure plan)	Closure Plan (only	OCD Conditions (see attachment)
OCD Representative	Signature:		Approval Date:
Title:		OCD Per	mit Number:
21			
Closure Report (requ	ired within 60 days of closure completion):	Subsection K of 19.15.17.13 NMA	c
report is required to be s	ire required to obtain an approved closure plan pro- abmitted to the division within 60 dowe of the com-	or to implementing any clos	wre activities and submitting the closure report. The closure es. Please do not complete this section of the form until an
approved closure plan ha	is been obtained and the closure activities have be	enon of the closure activity en completed	es. Please do not complete this section of the form until an
			e 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 Clamas Basart Basardi	Weste Bernard Channel Francisco II and A		
Instructions: Please iden	tify the facility or facilities for where the liquide	tems That Utilize Above G	round Steel Tanks or Haul-off Bins Only:
Instructions: Please iden were utilized.	tify the facility or facilities for where the liquids.	tems That Utilize Above G drilling fluids and drill cutt	round Steel Tanks or Haul-off Bins Only: ings were disposed. Use attachment if more than two facilities
Instructions: Please iden	tify the facility or facilities for where the liquids.	drilling fluids and drill cutt	ings were disposed. Use attachment if more than two facilities
Instructions: Please iden were utilized.	tify the facility or facilities for where the liquids. e:	drilling fluids and drill cutt Disposal Facility	ings were disposed. Use attachment if more than two facilities Permit Number:
Instructions: Please iden were utilized. Disposal Facility Nam Disposal Facility Nam	tify the facility or facilities for where the liquids. e: e:	drilling fluids and drill cutt Disposal Facility Disposal Facility	ings were disposed. Use attachment if more than two facilities Permit Number:
Instructions: Please iden were utilized. Disposal Facility Nam Disposal Facility Nam Were the closed-loop :	tify the facility or facilities for where the liquids. e:	drilling fluids and drill cutt Disposal Facility Disposal Facility	ings were disposed. Use attachment if more than two facilities Permit Number:
Instructions: Please iden were utilized. Disposal Facility Nam Disposal Facility Nam Were the closed-loop : Yes (If yes, please	tify the facility or facilities for where the liquids. e: e: e: system operations and associated activities perform e demonstrate compliane to the items below)	drilling fluids and drill cutt Disposal Facility Disposal Facility Disposal Facility	ings were disposed. Use attachment if more than two facilities Permit Number:
Instructions: Please iden were utilized. Disposal Facility Nam Disposal Facility Nam Were the closed-loop : Yes (If yes, please Required for impacted	tify the facility or facilities for where the liquids, e: e: system operations and associated activities perform	drilling fluids and drill cutt Disposal Facility Disposal Facility Disposal Facility	ings were disposed. Use attachment if more than two facilities Permit Number:
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Instructions: Please iden were utilized. Disposal Facility Nam Disposal Facility Nam Were the closed-loop : Yes (If yes, please Required for impacted Site Reclamation Soil Backfilling au Re-vegetation App	tify the facility or facilities for where the liquids. e: e: system operations and associated activities perform e demonstrate compliane to the items below) areas which will not be used for future service and (Photo Documentation) nd Cover Installation plication Rates and Seeding Technique	drilling fluids and drill cutt Disposal Facility Disposal Facility ted on or in areas that will no No d operations:	ings were disposed. Use attachment if more than two facilities Permit Number: Permit Number: In be used for future service and opeartions?
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Township:	29N Range: 10W	Sections:		1
NAD27 X:	Y:	Zone:	Search	Radius:
County:	Basin:		Number:	Suffix:
Dwner Name: (First)	(Last)		C Non-Do	mestic C Domestic C A
POD / Surface Data	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:				smallest)		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng S		D D	Zone	х	Y	Well	Water	Column	
RG 36732 DCL	29N	10W 2	5 2					500	450	50	
SJ 00785 S	29N	10W 0		4 2				20			
SJ 00680	29N	10W 1	3 2	2				40	10	3.0	
SJ 00785 NEW	29N	10W 1	3 4					60	20	40	
SJ 00785 S-2	29N	10W 1						60	20	40	
SJ 03023	29N	10W 1		3 1				90	65	25	
SJ 03502	29N	10W 1		3 1				150			
SJ 03081	29N	10W 1		1 4				20			
SJ 02078	29N	10W 1		1 1				40	9	31	
SJ 00303	29N	10W 1		3				20	5	15	
SJ 02860	29N	10W 1		4 4				21	2	19	
SJ 02900	29N	10W 2		1 2				70			
SJ 01140	29N	10W 2		2 2				25	6	19	
SJ 01990	29N	10W 2						40	12	28	
SJ 02548	29N	10W 2						12	2	10	
SJ 02547	29N	10W 2						12	2	10	
SJ 03535	29N	10W 2		2 3				15			
SJ 03455	29N	10W 2		31				20	17	3	
SJ 03456	29N	10W 2		32				20	17	3	
SJ 03441	29N	10W 2		3 3				40	30	10	
SJ 03470	29N	10W 2		3 4				20	7	13	
SJ 01474	29N	10W 2						25			
SJ 03180	29N	10W 2		44				50	15	35	
SJ 03713 POD1	29N	10W 2		3				265	20	245	
SJ 02820	29N	10W 2		1 1				82	16	66	
SJ 02896	29N	10W 2		4 1				110	34	76	
SJ 02275	29N	10W 2	4 1	4 2				40	20	20	
SJ 00092	29N	10W 2	4 2	4 2				33			
SJ 02802	29N	10W 2		1 2				132	30	102	
SJ 02907	29N	10W 2	4 3	2 3				60			
SJ 02122	29N	10W 2	5 4	1				60	12	48	
SJ 01019	29N	10W 2	6 4	3 3				50	4	46	

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SJ 01056	29N	10W	27	3	2		
SJ 02216	29N	10W	28	1	2		
SJ 03582	29N	10W	28	1	3	3	
SJ 02151	29N	10W	28	2	1	2	W
SJ 03652	29N	10W	28	2	2	1	
SJ 03142	29N	10W	28	2	2	2	
SJ 03637	29N	10W	28	2	3	1	
SJ 03582 PO	D2 29N	10W	28	2	3	3	
SJ 02840	29N	10W	28	3	4	1	
SJ 00506	29N	10W	28	4	3		
SJ 00662	29N	10W	28	4	4	3	
SJ 00497	29N	10W	29	3	2	3	
SJ 03777 PO	D1 29N	10W	29	4	4	2	
SJ 00473	29N	10W	30	2	4		
SJ 03743 PO	D1 29N	10W	33	4	4	3	
SJ 01051	29N	10W	35	2	2	2	
SJ 01050	29N	10W	36	1	4		

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

Record Count: 49

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New Mexico Office of the State Engineer

rage 1 of 8	Pa	ge	1	of	8
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New Mexico Offi POD Repo	ice of the State Engineer rts and Downloads
Township: 30N Range: 12W	Sections:
NAD27 X: Y:	Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First) (Last)	C Non-Domestic C Domestic @ All
POD / Surface Data Report Avg D	epth to Water Report Water Column Report
Clear Form	WATERS Menu Help

WATER COLUMN REPORT 08/21/2008

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

	(quarte:	rs are l	bigg	jes	t to	smallest)			Depth	Depth	Water (in
POD Number	Tws	Rng Se		D 1	Q	Zone	х	Y	Well	Water	Column
SJ 02643	30N	12W 02	3	3	2				195	140	55
<u>SJ 02707</u>	30N	12W 02	3	4	3				235	135	100
SJ 02145	30N	12W 04	1	. 1	1				160	110	50
SJ 02341	30N	12W 04	4	3					85	39	46
SJ 01898	30N	12W 04	4	3					140	88	52
<u>SJ 01692</u>	30N	12W 04	4	3					156	65	91
SJ 01798	30N	12W 04	4	3					158	70	88
SJ 01792	30N	12W 04	4	3					155	109	46
SJ 03058	30N	12W 04	4	3	3				120	48	72
SJ 03447	30N	12W 04	4	4	4				120	80	40
SJ 03767 POD1	30N	12W 10	2	4	2	2651	51	2121325	265	82	183
SJ 02128	30N	12W 10	3	4				0101000	140	60	80
SJ 00945		12W 10	3	4					130	70	60
SJ 00421	30N	12W 10	4	4					126	43	83
SJ 00142	30N	12W 11	4	4	2				192	122	70
SJ 00651	30N	12W 11	4	4	4				193	123	70
SJ 03129	30N	12W 12	3	4	2				44	35	9
SJ 03027	30N	12W 12	3	4	3				100	55	9
SJ 00384	30N	12W 12	4	3	2				57	20	37
SJ 03020	30N	12W 12	4	3	4				52	30	22
SJ 00643	30N	12W 12	4	4					75	51	24
SJ 03757 POD1	30N	12W 12	4	4		26612	23	2118278	22	12	10
SJ 00322	30N	12W 12	4	4	1				66	40	26
SJ 00888	30N	12W 13	1						81	50	31
SJ 00518	30N	12W 13	1						55	15	40
SJ 00935	30N	12W 13	1						54	10	44
SJ 00316	30N	12W 13	1	1					56	30	
SJ 00337	30N	12W 13		1					43	17	26
SJ 00773	30N	12W 13		1	1				68	50	26
SJ 00821	30N	12W 13		3	-				42		18
SJ 03063	30N	12W 13		3	1					15	27
SJ 02803	30N	12W 13	2		2				40	25	15
		2000 20	21	2	<u>ت</u>				68	43	25

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SJ 02114	30N	12W 13	224
SJ 01403	30N	12W 13	2 2 4
SJ 01773	30N	12W 13	3
SJ 00299	30N	12W 13	3 2
SJ 00123	30N	12W 14	1 1 1
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SJ 00107	30N	12W 14	3 4
	30N	12W 14	3 4
SJ 01674			
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SJ 00271	30N	12W 14	341
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SJ 03108	30N	12W 15	2 4 1
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SJ 03432		12W 15	242
SJ 01162	30N		
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SJ 00710	30N	12W 15	3 4
SJ 00816	30N	12W 15	3 4
SJ 00717	30N	12W 15	3 4
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SJ 01215	30N	12W 15	3 4
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	30N	12W 15	3 4
SJ 00730			
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SJ 00912	30N	12W 15	3 4
SJ 01793	30N	12W 15	3 4
SJ 00828 (1)	30N	12W 15	3 4
SJ 00828	30N	12W 15	3 4
SJ 01438	30N	12W 15	3 4

49 51 60 49 60 87 60 37 72 38 50 51 72 50	15 25 18 38 50 45 20 26 25 30 30 50	36 35 31 22 37 15 17 46 13 20 21 22
50 50 65 55 43 45 37 60 65 40 43 39 78 95 110 180 157 96 110 165 50	10 15 16 10 23 6 15 8 10 15 6 8 50 50 80 50 80 50 80 50 80 50 80 50 100 53 29 105	40 35 49 45 20 39 22 55 25 37 31 28 45 30 124 57 43 81 60
165 52 77 75 120 55 75 50 68 90 58 100 73 60 58 90 58 90 58 90 90 58 50 68 92 90 90 58 50 43 59 96	60 20 55 35 60 35 30 21 32 30 30 30 30 30 30 30 30 30 30 30 30 30	105 32 20 40 60 20 45 29 36 60 28 40 43 30 30 30 38 52 60 60 23 28 23 31 30

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SJ 00481	_ 30N	12W 15		34	2				52	30	22
SJ 00516	_ 30N	12W 15		3 4	3				55	8	47
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SJ 00594	30N	12W 15	4	1 2					145	95	50
SJ 00810	30N	12W 15	4	1 3	3				96	35	61
SJ 03159	30N	12W 15	4	4	2				60		
SJ 02514	30N	12W 15	4	4	4				57	25	32
SJ 01279	30N	12W 16	4	4					200	100	100
SJ 02627	30N	12W 18	1	2	2				354	250	104
SJ 03808 POD1	30N	12W 18	1				266399	2116162	42	9	33
SJ 02697	30N	12W 18	1						360	290	70
SJ 01892	30N	12W 18	1		4				465	420	45
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SJ 01619 X	30N	12W 18	2						380	350	30
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SJ 01737	30N	12W 18	2						540	500	00
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SJ 02035	30N	12W 18	4		-				500	190	310
SJ 01971	30N	12W 18	4						405	345	60
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SJ 00148	30N	12W 19							270	240	30
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SJ 03477	30N	12W 19	3	4	3						
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SJ 01877	30N	12W 22	1	_					94	66	28
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SJ 00462	30N	12W 22	1						61	12	49
SJ 03056	30N	12W 22	1	4	1				88	30	58
SJ 00312	30N	12W 22	2						94	35	59
SJ 00695	30N	12W 22	2	~					70	29	41
SJ 00360	30N	12W 22		2	0				35	3	32
SJ 00746	30N	12W 22	2		2				42	6	36
<u>SJ 01273</u>	30N	12W 22	2	3					100	38	62
SJ 00800	30N	12W 22	2	3					79	27	52
SJ 01684	30N	12W 22	3						80	45	35
SJ 03424	30N	12W 22 12W 22	3	2	1				64	24	40
<u>SJ 03661</u>	30N		3		1				65	19	46
SJ 03289	30N	12W 22	3		1		064047	2102564	70	19	51
SJ 03607	30N	12W 22	3		1		264817	2109564	57	33	24
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SJ 03060	30N	12W 22	3	2					57	21	36
SJ 03500	30N	12W 22		3					56	24	32
<u>SJ 03157</u>	30N	12W 22	3	3	4				46	18	28

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<u>SJ 01312</u>	_ 30N	12W 22	3 4		
SJ 00569	_ 30N	12W 22	3 4		
SJ 01165	_ 30N	12W 22	34		
SJ 01393	_ 30N	12W 22	34		
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SJ 02305	30N 30N	12W 22 12W 22	4 2 1		
SJ 02133	30N	12W 22 12W 22	43		
SJ 00903 SJ 01464	30N	12W 22 12W 22	4 3 3 4 3 3		- ¹
SJ 01464 SJ 03473	30N	12W 22 12W 22			7
SJ 03233	30N	12W 22	4 3 3 4 3 3		
SJ 01340	30N	12W 22	434		
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SJ 02876	30N	12W 22	443		
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SJ 03038	30N	12W 22	443		
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SJ 02288	30N	12W 23	1 3 3		
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SJ 03770 POD1	30N	12W 23	2 3 2	265562	211067
SJ 02788	30N	12W 23	233	265563	211067
PA 41100	2011	1011 40	C C L		

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42 45 45 50 40 48 41 40 45 40 40	7 7 10 10 3 22 20 14 10 15	35 38 35 40 37 26 21 26 35 25
42 40 40 20 20 33 42 30 16 43 33 42 62 47 40 39 35 35 35 45	8 9 12 3 5 23 5 5 5 8 13 12 24 12 3 6 13 15 12	34 31 28 17 15 10 37 25 11 35 20 30 38 35 37 33 22 20 33
30 40 37 31 25 31 34 28 26 40 41 30 43 40 40 39 40 24 20 17 25 45	15 6 5 10 4 12 10 10 2 5 8 3 6 2 10 8 5 5 5 27	25 31 31 26 15 27 22 18 16 38 39 25 35 37 34 37 30 16 15 12 20 18

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SJ 02940	_ 30N	12W 23	2	4 1	L		32	19	13
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SJ 03657	30N	12W 23	3	2 1	L		21	5	16
SJ 03366	30N	12W 23	3	2 3	3		21	20	10
SJ 03552	30N	12W 23	3	2 3	3		80	20	T
SJ 03551		12W 23		2 4			28	10	18
SJ 00588	30N	12W 23		3 1			22	4	
SJ 02921	30N	12W 23	-	3 1			23	4	18
SJ 00588 1-EXPL		12W 23		33			25	6	10
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SJ 02653	30N	12W 23		13			22	6	16
SJ 03665	30N	12W 23		L 3			21	9	12
SJ 03663	30N	12W 23	4				25	6	19
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SJ 01272	30N	12W 23		21			31	7	24
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SJ 00111	30N	12W 23	4 3				29	10	19
SJ 00896	30N	12W 23	4 4				28	18	10
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SJ 00633	30N	12W 23	1 3				38	10	28
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SJ 01682	30N	12W 24	1 4				27	5	22
SJ 01681	30N	12W 24	2 4				22	4	18
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SJ 03054	30N	12W 25		1			60 43	3.0	30
SJ 01429	30N	12W 25	4	· -			230	22	21
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SJ 03799 POD1	30N	12W 26		. 3	265470	2106124	175	80	95
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SJ 02032	30N	12W 27	1 2				35	5	30
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SJ 01646	30N	12W 27	1 3				23	6	17
SJ 01599	30N	12W 27	1 3				25	6	19
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SJ 03641	30N	12W 27	432	
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SJ 00122 CLW283728	-	12W 28	1 3	
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	225	29 185	131 40
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	120	40 60	80 60
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	38	16	22
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	175	87	88
	240	80	160
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	45 63	20 15	25 48
	67	18	49
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SJ 03148	30N	12W 31	411
SJ 02882	30N	12W 31	4 1 2
SJ 03147	30N	12W 31	4 1 2
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SJ 03296	30N	12W 31	4 1 2
SJ 02877	30N	12W 31	414
SJ 03099	30N	12W 31	414
	30N		
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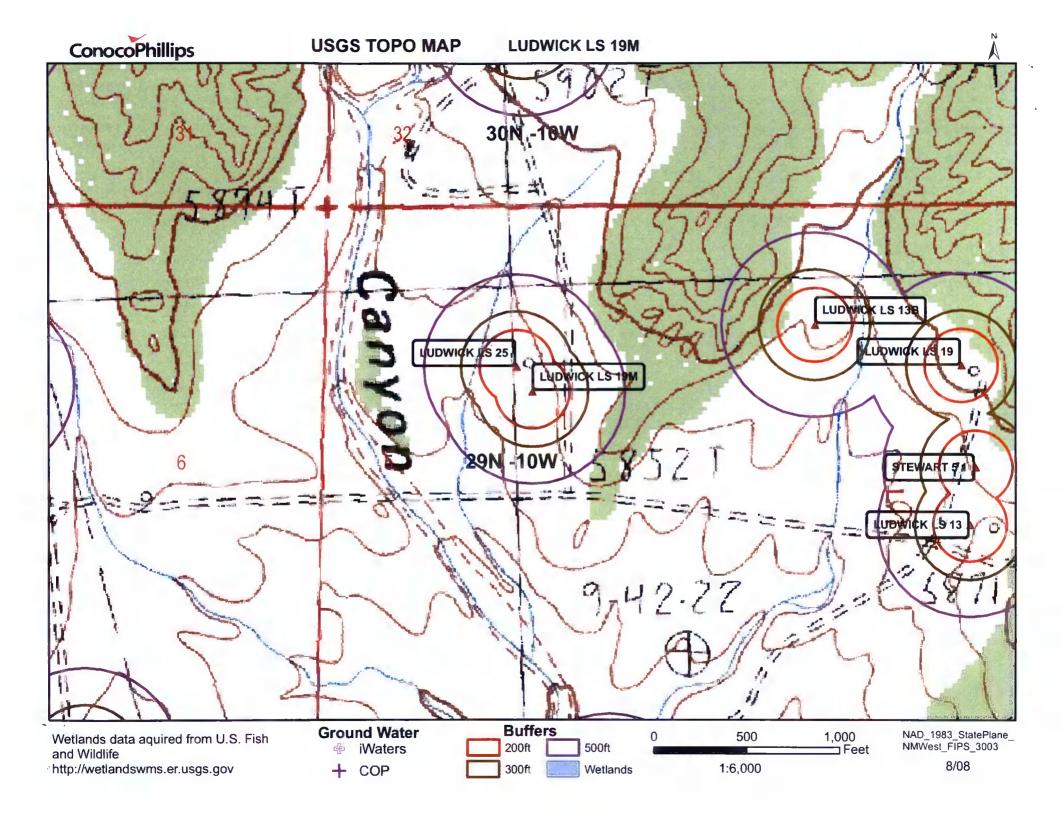
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56 33 49 28 40 49 56 31 34 31 44 17	34 19 28 14 24 30 30 17 9 7 24 17	22 14 21 14 16 19 26 14 25 24 20
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SJ 01390	30N	12W		1		4					320	54	266
SJ 01174	30N	12W		1							40	22	18
SJ 03143 POD2	30N	12W			4	2					36	19	17
SJ 03133	30N	12W				4					40	10	30
SJ 00605	30N	12W			1						39	20	19
SJ 02981	30N	12W				2					72	35	37
SJ 00606	30N	12W				2					100	60	40
SJ 01072	30N	12W			2	2					104	35	69
SJ 01036	30N	12W			2						110 105	50	60
SJ 01045	30N	12W			2						73	70	35
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SJ 03614	30N	12W	33		3 :						42	33	44 9
SJ 00505	30N	12W :	33	2	4						85	45	40
SJ 00444	30N	12W 3		2	4						66	34	32
SJ 01256	30N	12W :		2	4						250	160	90
SJ 01286	30N	12W 3		3							265	227	38
SJ 01118	30N	12W 3			2						32	10	22
<u>SJ 00613</u>	30N	12W 3			2 3	3					147	95	52
SJ 02212	30N	12W :			3						320	269	51
SJ 01633	30N	12W 1			3						280	240	40
SJ 00447	30N	12W 3		4							104	65	39
SJ 00622	30N	12W 3		4							76	41	35
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Record Count: 432



ConocoPhillips AERIAL MAP LUDWICK LS 19M 30N -10W 32 LUDWICK LS 138 LUDWICK LS 25 EUDWICK LS 19 LUDWICK LS 19M 29N -10W STEWART 5 1A LUDWICK LS 13 500 1,000 Feet :0 Data Source 1000FT

Aerial flown locally Sedgewick in 2005.

300FT

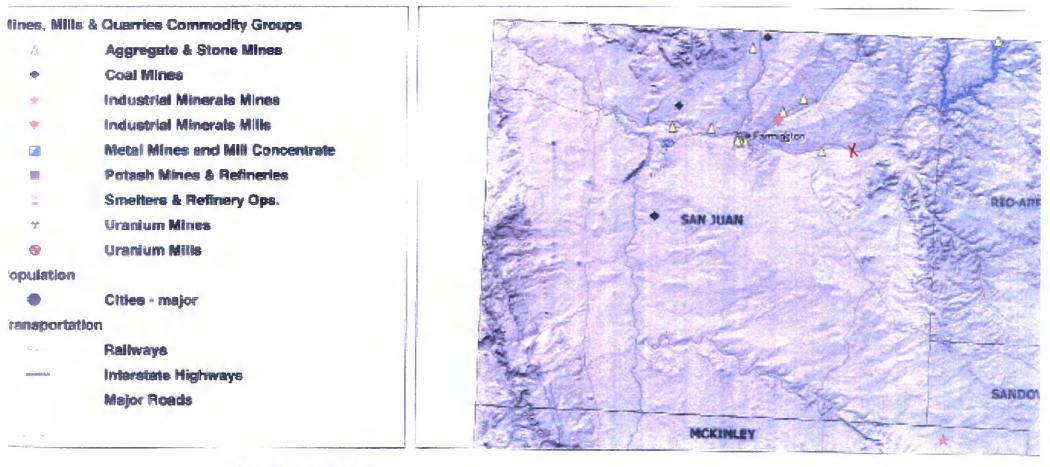
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NAD_1983_SP_ NM West_FIPS_3003 8/08

Mines, Mills and Quarries Web Map

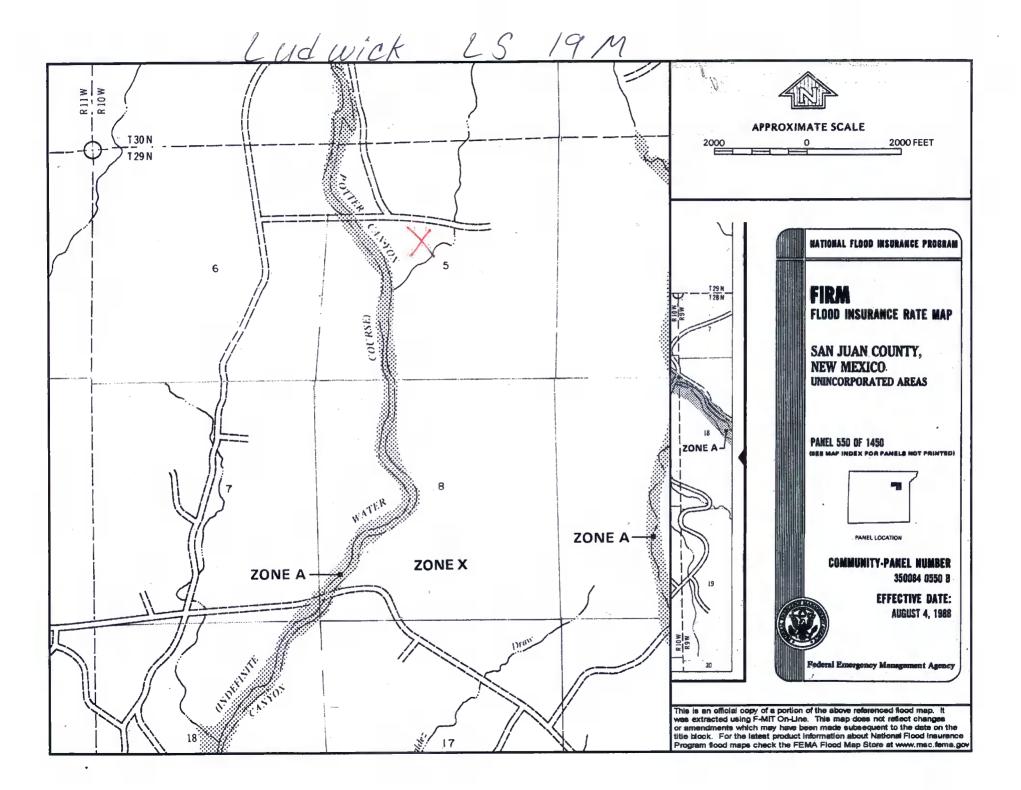
LUDWICK LS 19M

Unit Letter: F, Section: 05, Town: 029N, Range: 010W









LUDWICK LS 19M

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'LUDWICK LS 19M', which is located at 36.758361 degrees North latitude and 107.91213 degrees West longitude. This location is located on the Aztec 7.5' USGS topographic quadrangle. This location is in section 5 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 5.2 miles to the southeast. The nearest large town (population greater than 10,000) is Farmington, located 16.4 miles to the west (National Atlas). The nearest highway is State Highway 575, located 1.7 miles to the northeast. The location is on BLM land and is 1,062 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 1789 meters or 5867 feet above sea level and receives 11 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 25 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 536 feet to the west and is classified by the USGS as an intermittent stream. The nearest perennial stream is 1,034 feet to the southwest. The nearest water body is 2,935 feet to the southeast. It is classified by the USGS as an intermittent lake and is 0.3 acres in size. The nearest spring is 6,228 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 8,763 feet to the east. The nearest wetland is a 17.1 acre Ravine located 10,171 feet to the east. The slope at this location is 3 degrees to the southwest 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 Stumble-Fruitland association, gently sloping' and is somewhat excessively drained and not hydric with slight erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 14.2 miles to the north as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

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

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval.

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

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

Hydraulic Properties:

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

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

References:

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

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

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

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

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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.

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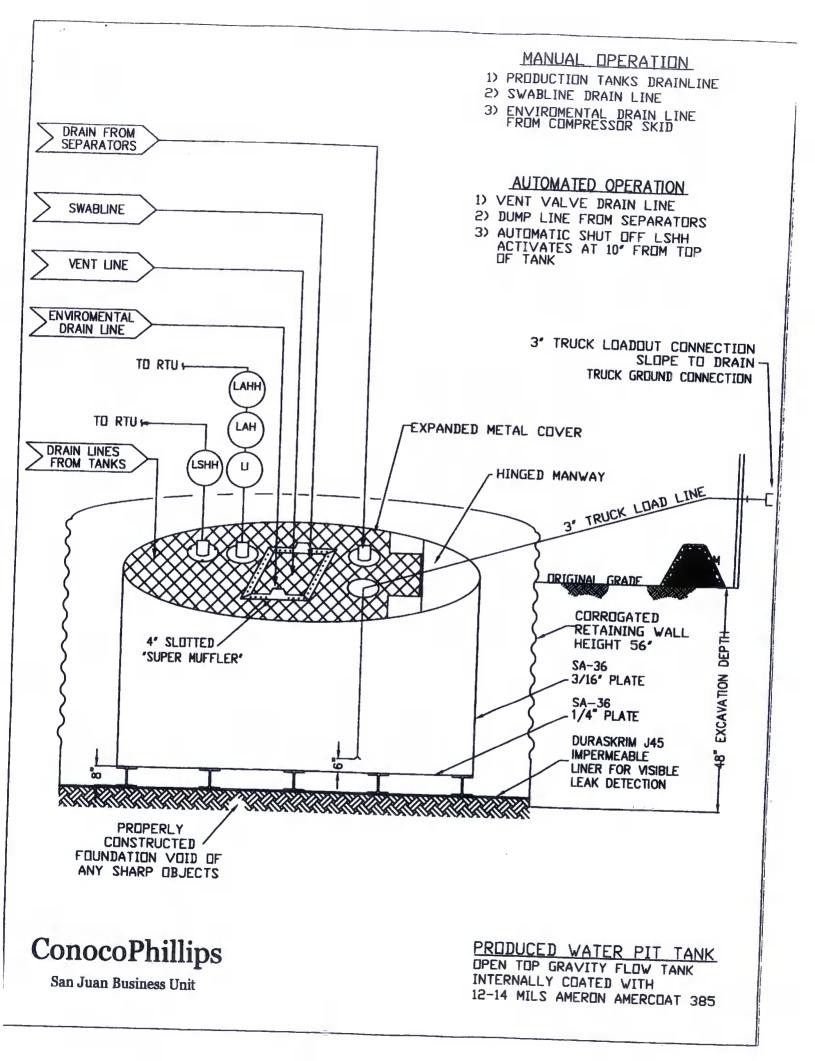
ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

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:

- 1. 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.



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DURA-SKRIM®

J30, J36 & J45

PROPERTIES	TEST METHOD	2 me alla in the	308B	J	368 8	J	J4588		
A		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Ro Averages		
Appearance		Bla	ck/Black	Blac	k/Black	Black/Black			
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	+	1		
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs	40 mil 189 lbs	45 mil 210 lbs		
Construction		**Ext	1		(24.19)	(27.21)	(30.24)		
Ply Adhesion	ASTM D 413	16 lbs	rusion laminated		ated tn-direction	nal scrim reinfor	cement		
		TOIDS	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 Ibf MD 87 Ibf 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" Terisile 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			
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf			<0.5		
Maximum Use Temperature		180° F			83 lbf	80 lbf	99 lbf		
			180° F						
Alnimum Use Temperature D = Machine Direction		-70° F							

DD = Diagonal Direction

OURA SIDIN

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. 94 10 (\mathbf{w})

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:

- 1. 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:

- 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.
- 3. COPC will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 4. 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 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 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.
- 9. 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 (un-impacted) 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 below-grade 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