	State of New Mexico	Form C-14 July 21, 20 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
I: REGISTERED I(District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	t. Francis Dr. Janua re, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
	ed-Loop System, Below-Grad	le Tank, or
	ative Method Permit or Closu	
Closure of Modification Closure publication of the State Sta	rade tank, or proposed alternative method	e tank, or proposed alternative method itted or non-permitted pit, closed-loop system,
Please be advised that approval of this request does	not relieve the operator of liability should operations	pop system, below-grade tank or alternative requeres result in pollution of surface water, ground water or the e governmental authority's rules, regulations or ordinances.
1 Operator: ConocoPhillips Company		OGRID#: <u>217817</u>
Address: PO Box 4289, Farmington, NM 87499	9	
Facility or well name: LUDWICK LS 16M		
API Number: 3004529566	OCD Permit Numb	ег:
	Township: 30N Range: 6.763931°N Longitude: Private Tribal Trust or India	10W County: San Juan -107.92234°W NAD: X 1927 In Allotment In Allotment
Lined Unlined Liner type: Th	P&A hickness mil LLDPE ther Volume:	HDPE PVC Other
Closed-loop System: Subsection H of 19.15.1 Type of Operation: P&A Drilling a new Drying Pad Above Ground Steel Tanks Lined Unlined Liner type: Thic Liner Seams: Welded Factory Othe	w well Workover or Drilling (Applies to notice of intent) Haul-off Bins Other ckness mil LLDPE	b activities which require prior approval of a permit or
Tank Construction material: Secondary containment with leak detection Visible sidewalls and liner Visible sidewalls and liner Liner Type: Thickness	of fluid: Produced Water Metal X Visible sidewalls, liner, 6-inch lift and aut sidewalls only	tomatic overflow shut-off
5 Alternative Method: Submittal of an exception request is required. Exception	ons must be submitted to the Santa Fe Envir	opmental Bureau office for consideration of approval
		sinicital bulcat 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, in 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> 	stitution or chu	rch)
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 content (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	nsideration of ap	pproval.
10 <u>Siting Criteria (regarding permitting)</u> : 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 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 Yes	X No X No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary. emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes	XNo
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes XNA	No
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 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 Within the area overlying a subsurface mine.	Yes Yes	X No
 Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society: Topographic map 	Yes	XNo
Society; Topographic map 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 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
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)
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank) Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15 Waste 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
 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 flüids 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 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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Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Stee Instructions: Please identify the facility or facilities for the disposal of liquids, drilling	I Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) Ituids and drill cuttings. Use attachment if more than two	facilities
are required.		
Disposal Facility Name:	Disposal Facility Permit #:	
	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associated activities Yes (If yes, please provide the information No	soccur on or in areas that will not be used for future :	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 appropria Re-vegetation Plan - based upon the appropriate requirements of Subsect	te requirements of Subsection H of 19.15.17.13 NMA	NC
Site Reclamation Plan - based upon the appropriate requirements of Subsect		
17 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. Re	ecommendations of acceptable source material are provided bel	ow: Requests regarding changes to
certain siting criteria may require administrative approval from the appropriate district office o for consideration of approval. Justifications and/or demonstrations of equivalency are required	r may be considered an exception which must be submitted to the	e Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.		
 NM Office of the State Engineer - iWATERS database search; USGS: Data obtai 	ned from nearby wells	Yes No
	ice non nearby wents	UN/A
Ground water is between 50 and 100 feet below the bottom of the buried waste		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtain	ned 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	and from nearby wells	N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significa (measured from the ordinary high-water mark).	int 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 ex	sistence at the time of initial application.	Yes No
- Visual inspection (certification) of the proposed site: Aerial photo; satellite image		
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.	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water we pursuant to NMSA 1978, Section 3-27-3, as amended.	I field covered under a municipal ordinance adopted	Yes No
 Written confirmation or verification from the municipality; Written approval obtain Within 500 feet of a wetland 	ned from the municipality	
 US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspec 	tion (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine.		Yes No
- Written confiramtion or verification or map from the NM EMNRD-Mining and Mi	neral Division	
Within an unstable area.		Yes No
 Engineering measures incorporated into the design; NM Bureau of Geology & Min Topographic map 	eral Resources; USGS: NM Geological Society;	
Within a 100-year floodplain.		Yes No
- 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.	the following items must bee attached to the closur	e plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate r	equirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirements	of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the	appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a drying		9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requirements of 19		
Confirmation Sampling Plan (if applicable) - based upon the appropriate r		
Waste Material Sampling Plan - based upon the appropriate requirements		
Disposal Facility Name and Permit Number (for liquids, drilling fluids and		not be achieved)
Soil Cover Design - based upon the appropriate requirements of Subsection		
Re-vegetation Plan - based upon the appropriate requirements of Subsection	JULIO 17.13.17.13 NMAC	

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

19			
Operator Application C			
	ormation submitted with this application is true, ac-		best of my knowledge and belief.
Name (Print):	Crystal Fafoya	Title:	Regulatory Technician
Signature:	Cuptal Jafaya	Date:	12/22/2008
e-mail address:	urustal tatova @conocophilips.com	Telephone:	505-326-9837
20 OCD Approval:	ermit Application (including closure plan)		
		Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Si	gnature:		Approval Date:
Title:		()CD Perm	it Number:
21	•		
Closure Report (require	ed within 60 days of closure completion): Su	bsection K of 19.15.17.13 NMAC	
Instructions: Operators are report is required to be sub-	required to obtain an approved closure plan prior mitted to the division within 60 days of the complete	to implementing any closur ion of the closure activities	re activities and submitting the closure report. The closure : Please do not complete this section of the form until an
approved closure plan has l	been obtained and the closure activities have been	completed.	. Trease ao noi complete this section of the form whill an
		Closure	Completion Date:
22			
Closure Method:			
Waste Excavation a	nd Removal On-site Closure Method	Alternative Closure	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	ns That Utilize Above Gro	ound Steel Tanks or Haul-off Bins Only:
Instructions: Please identif were utilized.	y the facility or facilities for where the liquids, dri	lling fluids and drill cuttin	gs were disposed. Use attachment if more than two facilities
Disposal Facility Name:		Disposal Facility	Durmit Munchase
Disposal Facility Name:		Disposal Facility F Disposal Facility F	
	tem operations and associated activities performed		
		No	se used for fature service and openations;
Required for impacted an	eas which will not be used for future service and o	perations;	
Site Reclamation (Pl			
Soil Backfilling and			
Re-vegetation Applie	cation Rates and Seeding Technique		
24 Classes Different Attai			
the box, that the docume	nment Cnecklist: Instructions: Each of the foll nts are attached.	lowing items must be attacl	hed to the closure report. Please indicate, by a check mark in
	otice (surface owner and division)		
	ce (required for on-site closure)		
Plot Plan (for on-si	te closures and temporary pits)		
Confirmation Samp	oling Analytical Results (if applicable)		
Waste Material Sar	npling Analytical Results (if applicable)		
Disposal Facility N	ame and Permit Number		
Soil Backfilling and	d Cover Installation		
	ication Rates and Seeding Technique		
Site Reclamation (F	Photo Documentation)		
On-site Closure Los	cation: Latitude:	Longitude:	NAD 1927 1983
25			
Operator Closure Certifi			
the closure complies with all	mation and attachments submitted with this closure applicable closure requirements and conditions sp	: report is ture, accurate an ecified in the approved clos	id complete to the best of my knowledge and belief. I also certify that sure plan.
	······································		
Name (Print):		Title:	
Signature:		Date:	
e-mail address:		Telephone:	

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	Township	30N Rai	nge: 10W	Sections:				
	NAD27 X:		Υ: [Zone:	-	Search Radiu	is:	
County	:	Basin:			Num	nber:	Suffix:	
Owner N	Name: (First)		(Last)		- C	Non-Domestic	c C Domestic	@ All
F	POD / Surface Da	ta Report	Avg	Depth to Wat	er Report	Wa	ter Column Repor	t

WATER COLUMN REPORT 08/21/2008

							3=SW 4=SE								
							smallest)		Depth	Depth	Water	(in	feet)	
POD Number	Tws	Rng		_	_	_	Zone	x	Y	Well	Water	Column			
SJ 00050	30N	10W		1	-	_				520	306	214			
SJ 03460	30N	10W			3					520	500	20			
SJ 03230	30N	10W			2	_				120	70	50			
SJ 03113	30N	10W			1	4				42	30	12			
SJ 00589	30N	10W				1				175	150	25			
SJ 00774	30N	10W	80		2	1				195	160	35			
SJ 02316	30N	10W	80	1	3					210	98	112			
SJ 02102	30N	10W	08		3	4				190	90	100			
SJ 01527	30N	10W	80	2	2					120	60	60			
SJ 01193	30N	10W	08	2	2					100	70	30			
SJ 02808	30N	10W	80	2	3	4				165	105	60			
SJ 01102	30N	10W	80	2	4					200	159	41			
SJ 02998	30N	10W	80	3	3	1				260	117	143			
SJ 02772	30N	10W	80	4	2	2				200	160	40			
SJ 00523	30N	10W	80	4	4					160	120	40			
SJ 01362	30N	10W	20	1	3	3				238	190	48			
SJ 03442	30N	10W	20	1	4	1				200					
SJ 02782	30N	10W	20	1	4	4				250					
SJ 02797	30N	10W	20	2	4	1				70					
SJ 00024	30N	10W	23	2	4	2				305					
SJ 00051	30N	10W	23	2	4	2				305					
SJ 00197	30N	10W	23	4	2					975	500	475			
SJ 00010	30N	10W	24	2						292					
SJ 01116	30N	10W	33	2	1					105	45	60			
SJ 01059	30N	10W	34	1	2	4				115	75	40			
SJ 01182	30N	10W	34	1	3	3				235	125	110			

Record Count: 26

Page	1	of	6
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Y: Zone: Search Radius: Number: Suffix:
Number: Suffix:
(Last) C Non-Domestic C Domestic C A
Avg Depth to Water Report Water Column Report
e

WATER COLUMN REPORT 08/21/2008

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

	arter						smalle	est)			Depth	Depth	Water	(in
POD Number	Tws	Rng	Sec	q	g	q	Zone	2	C	Y	Well	Water	Column	
RG 50669	30N	11W	27								360	310	50	
SJ 02765	30N	11W	02	1	3						54	20	34	
SJ 00975	30N	11W	02	1	3						60	20	40	
SJ 01217	30N	11W	02	1	3						60	30	30	
SJ 02837	30N	11W	02	3	4	1					150			
SJ 01437	30N	11W	03	1							40	28	12	
SJ 03121	30N	11W	03	1	2	4					36	12	24	
SJ 02049	30N	11W	03	1	3						26	8	18	
SJ 01339	30N	11W	03	1	3	1					40	15	25	
SJ 02814	30N	11W	03	1	3	2					31	8	23	
SJ 00350	30N	11W	03	1	3	2					46	12	34	
SJ 01441	30N	11W	03	1	3	2					48	20	28	
SJ 02835	30N	11W	03	1	3	2					26	8	18	
SJ 01387	3.0N	11W	03	1	4						40	18	22	
SJ 03698 POD1	30N	11W	0.3	1	4	1					40	5	35	
SJ 02785	30N	11W		1	4	2					31	5	26	
SJ 01313	30N	11W		2							70	58	12	
SJ 01805	30N	11W		2							35	20	15	
SJ 01807	30N	11W		2							50	30	2.0	
SJ 01202	30N	11W		2		2					35	8	27	
SJ 02781	30N	11W			1	2					48	23	25	
SJ 03758 POD1	30N	11W			1	2	2	68158		2127473	49	21	28	
SJ 03765 POD1	30N	11W	03	2	1	2	2	68163		2127605	43	20	23	
SJ 03756 POD1	30N	11W	03	2	1	2	2	68179		2127870	41	20	21	
SJ 02786	30N	11W	03	2	3	1					51	24	27	
SJ 01901	30N	11W	03	2	3	2					60	26	34	
SJ 00698	30N	11W	03	2	3	3					44	14	30	
SJ 01261	30N	11W	03	2	3	4						20		
SJ 02930	30N	11W	03	2	4	4					81	64	17	
SJ 02798	30N	11W	03	2	4	4					80	61	19	
SJ 00402	30N	11W	03	3							32	18	14	
SJ 01734	30N	11W	03	3	2						33	5	28	

by 0762 30N 11M 03 2 47 22 25 by 0140 30N 11M 03 2 3 41 21 22 by 01200 30N 11M 03 3 1 23 9 124 by 01200 30N 11M 03 3 1 23 9 124 by 01230 30N 11M 03 3 3 3 33 9 23 by 01236 30N 11M 03 4 1 36 6 30 <t< th=""><th>4</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	4									
SV 0:1440 30 N 11W 03 3 3 1 11 03 3 1 21 20 SV 0:1202 30 N 11W 03 3 1 23 3 1 23 3 1 23 3 1 23 3 1 23 3 1 23 3 3 1 23 3 3 1 23 3 3 1 23 3 3 1 23 3 <th< th=""><th>SJ 00762</th><th>30N</th><th>11W 03</th><th>3 2</th><th></th><th></th><th></th><th>47</th><th>22</th><th>25</th></th<>	SJ 00762	30N	11W 03	3 2				47	22	25
SV 01020 30N 11W 03 3 3 27 5 223 5 14 SV 03732 POD1 30N 11W 03 3 1 38 9 29 SV 03232 30N 11W 03 3 1 38 9 29 SV 03236 30N 11W 03 4 1 35 38 57 SV 02265 30N 11W 03 4 1 4 50 SV 01243 30N 11W 03 4 2 1 50 22 30 SV 02563 30N 11W 03 4 2 1 70 50 22 30 SV 03553 30N 11W 03 4 2 1 70 80 20 20 20 3 1 30 1 20 33 18 15 85 20 33 18 15 85 20 33		30N	11W 03	3 2 3				41		20
sy 03732 POD1 30N 11W 03 3 3 1 38 9 9 29 sy 0323 30N 11W 03 4 1 95 38 57 sy 02245 30N 11W 03 4 1 95 38 57 sy 02245 30N 11W 03 4 1 50 36 sy 02245 30N 11W 03 4 2 52 52 36 sy 02245 30N 11W 03 4 2 1 70 50 20 sy 02253 30N 11W 03 4 2 1 70 50 20 sy 02354 30N 11W 03 4 2 1 70 50 20 sy 03254 30N 11W 03 4 2 4 33 18 15 sy 03256 30N 11W 04 2 3 2 44 10 34 sy 03266 30N 11W 04 4 3 2 53 36 22 37 21 36 22 37 21 36 22 37 21 36 22 37 21 36 22 37 21 36 22 37 21 36 37	SJ 01020	30N	11W 03	3 3				27		
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SJ 00329	30N	11W	07	4	1	3
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SJ 00893	30N	11W	07	4	2	
SJ 01667	30N	11W	07	4	3	
SJ 01404	30N	11W	07	4	3	
SJ 00919	30N	11W	07	4	3	2
SJ 00604	30N	11W	07	4	3	2
SJ 00601	30N	11W	07	4	3	2
SJ 00918	30N	11W	07	4	3	2
SJ 00920	30N	11W	07	4	3	2
SJ 01567	30N	11W	07	4	4	2
SJ 00183	30N	11W	08	1	1	2
SJ 03154	30N	11W	08	1	1	4
SJ 03431	30N	11W	08	1	4	T
SJ 00332	30N	11W	08	2	2	
SJ 01451	30N	11W	08	2	2	
	30N	11W	08	2	2	
	30N	11W	08	2	2	
	30N		08	2	2	
		11W				1
SJ 03398	30N	11W	80	2	2	1
SJ 03210	30N	11W	80	2	2	2
SJ 03098	30N	11W	80	2	2	2
SJ 03381	30N	11W	08	2	2	2
SJ 03240	30N	11W	80	2	2	2
SJ 00220	30N	11W	80	2	2	3
SJ 03639	30N	11W	80	2	2	4
SJ 01115	30N	11W	80	2	2	4
SJ 03653	30N	11W	80	2	2	4
SJ 03646	30N	11W	80	2	2	4
SJ 00228	30N	11W	80	2	2	4
SJ 03202	30N	11W	80	2	4	2
SJ 03030	30N	11W	08	2	4	2
SJ 03305	30N	11W	08	2	4	2
SJ 03378	30N	11W	80	2	4	2
SJ 02331	30N	11W	80	2	4	2
SJ 03303	30N	11W	08	2	4	2
SJ 02293	30N	11W	80	2	4	2 2
SJ 00249	30N	11W	80	2	4 2	Z
SJ 01368	30N	11W	80	3		4
SJ 03089	30N	11W	0.8	3	2	4
SJ 03480	30N	11W	80	3	2	4
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SJ 01570	30N	11W	80	4	1	~
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SJ 03642	30N	1.1W	80	4	1	2
SJ 01520	30N	11W	80	4	1	2
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SJ 02261	30N	11W	80	4	3	2
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SJ 02241	30N	11W	09	1		

45 38 48 52 63 58 45 80 41 40 35 38 40 35 35 35 360 40	12 30 22 35 20 23 24 40 21 15 12 22 14 12 14 300	33 8 26 17 43 35 21 40 20 25 23 16 18 21 23 21 60
50 52 64 40 61 52 80 60 63 50	34 34 25 45 10 20 30 23	18 30 15 16 42 60 30 40
50 60 35 62 61 67 45	36 24 26 26 24 38	24 36 9 36 37 29
56 50 50 53	40 35	16 18
55 50 46 59 48 50	30 35 30 39 36	25 15 16 20 12
40 40	20 31	20 9
45 29 32 58 58 58 58 49	5 37 20 32 18 20 30	24 22 26 40 38 19
41 39	9 27	32 12

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SJ 03229	30N	11W 09	1	1 4	
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SJ 01169	30N	11W 09	1	3	
SJ 01574	30N	11W 09	1	3	
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SJ 02493	2017	11W 09	1	3 1	
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SJ 03031	30N	11W 09	1	3 1	
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SJ 02336	30N	11W 09	1	3 2	
SJ 03482	30N	11W 09	1	3 2	
SJ 03423	30N	11W 09	1	3 3	
SJ 00750		11W 09	1	4	
SJ 02975	30N	11W 09	2	1 4	
SJ 03268	30N	11W 09	2	2 2	
SJ 00364	30N	11W 09	2	3 2	
SJ 03128	30N	11W 09	2	3 2	
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SJ 01955		11W 09	2	4	
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SJ 02290	30N	11W 09	2	4 2	
SJ 00347	30N	11W 09	4	* 4	
SJ 01436	30N	11W 09	4	1	
SJ 03471	30N	11W 09	4	1 1	
SJ 03223	30N	11W 09	4	2 2	
SJ 03263	30N	11W 09	4	2 2	
SJ 03374	30N	11W 09	4	3 1	
SJ 02796	30N	11W 09	4	3 2	
SJ 03214	30N	11W 09	4	4 2	
SJ 03213	30N	11W 09	4	4 2	
SJ 02176	30N	11W 10	1	3	
SJ 03356	30N	11W 10	1	3 1	
SJ 03258	30N	11W 10	1	3 3	
SJ 03444	30N	11W 10	1	3 3	
SJ 03248	30N	11W 10	1	3 3	
SJ 03354	30N	11W 10	1	3 3	
SJ 00348	30N	11W 10	1	3 4	
SJ 03032	30N	11W 10	1	4 1	
SJ 02819	30N	11W 10	2	3 3	
SJ 03282	30N	11W 10	2	3 4	
SJ 03281	30N	11W 10	2	3 4	
SJ 03572	30N	11W 10	3	1 2	
SJ 03218	30N	11W 10	3	3 3	
SJ 01720	30N	11W 13	-	_ •	
SJ 03745 POD1	30N	11W 13	1	1 2	
SJ 01693	30N	11W 13	1	3	
SJ 01672	30N	11W 13	1	3	
SJ 01294	30N	11W 13	1	3 3	
	- 0 + V		-	5 5	

36 40 53 35 55 49 47 50 50	26 28 12 17 30 32 30 31	10 12 41 18 25 17 17 19
50 46 29 56 46 48 50 49 47 55 47	16 19 33 27 28 30 26 36 35	30 10 23 19 20 20 23 11 20
47 46 50	11	3.5
50 26 37 61 50	20 6 12 10 20	30 20 25 51 30
50 33 40 60 45 36 210 20 59 63 44	11 11 28 15 19 50 5 25 35 29	22 29 32 30 17 160 15 34 28 15
100 93	63	30
100 57 55 55	37 30 10	20 25 45
60 90 80 72 80 140 70 62	30 30 24 30 40 30 32	60 50 48 50 100 40 30
70 50 225 325 225 180 92	30 90 150 89 80 52	20 135 175 136 100 40

SJ 02773	30N	11W 16	1 1	3			46	25	21
SJ 00410	30N	11W 16	1 2				61	45	16
SJ 03010	30N	11W 16	1 3				80	40	40
SJ 03257	30N	11W 16	1 3				80	40	40
SJ 02923	30N	11W 16	1 3				75	40	35
SJ 03265	30N	11W 16	1 3	3			90	70	20
SJ 03310	30N	11W 16	1 3	3			55	20	35
SJ 01082	30N	11W 16	2 2	1			80	34	46
SJ 01722	30N	11W 17	1				20	8	12
SJ 01528	30N	11W 17	1 1				26	10	16
SJ 03373	30N	11W 17		3			50	3.5	15
SJ 01948	30N	11W 17	1 2				21	3	18
SJ 02817	30N	11W 17	1 2				15		
SJ 01722 POD2	30N	11W 17	1 2		266967	2116417	17	3	14
SJ 01899	30N	11W 17	1 3		0.6.6.0.1.1	044645	27	7	20
SJ 03771 POD1	30N	11W 17	1 3		266811	211517	20	6	14
SJ 03750 POD1	30N	11W 17	13		266811	211517	20	6	14
SJ 03319 SJ 03266	3.0N 3.0N	11W 17 11W 17	13 14				55 30	31 10	24
SJ 03436	30N	11W 17	1 4				20	TO	20
SJ 00745	30N	11W 17	2	5			54	30	24
SJ 00665	30N	11W 17	2 1				28	14	14
SJ 01342	30N	11W 17	2 1				26	5	21
SJ 00166	30N	11W 17	2 3				48	11	37
SJ 01057	30N	11W 17	2 3				63	28	35
SJ 01060	30N	11W 17	2 3				58	23	35
SJ 03241	30N	11W 17	2 3				75	2.0	55
SJ 03269	30N	11W 17	2 3	4			80	10	70
SJ 01200	30N	11W 17	2 4				50	20	30
SJ 03219	30N	11W 17	2 4				68	38	30
SJ 00159	30N	11W 17	3 1				35	8	27
SJ 03276	30N	11W 17	3 1				60	20	40
SJ 01296	30N	11W 17	3 2				50	10	40
SJ 03249	30N	11W 17	3 2				55	12	43
SJ 01810 SJ 00411	30N 30N	11W 17 11W 17	34 41				29	9	20
SJ 00234	30N	11W 17	4 1				60 54	25	35 31
SJ 01847	30N	11W 17	4 1				30	6	24
SJ 00457	30N	11W 17	4 1				52	18	34
SJ 00650	30N	11W 17	4 1				49	.18	31
SJ 02018	30N	11W 17	4 2				100	40	60
SJ 00136	30N	11W 17	42				69	35	34
SJ 03718 POD1	30N	11W 17		2			68	41	27
SJ 03261	30N	11W 17		2			88	50	38
SJ 03215	30N	11W 18	1 1				52	9	43
SJ 01316	30N	11W 18		3			46	12	34
SJ 03152	30N	11W 18		3			52	22	30
SJ 02805	30N	11W 18 11W 18		1 1			60 70	20	50
SJ 03463 SJ 02996	30N 30N	11W 18		1			50	20	25
SJ 00932	30N	11W 18		4			32	15	17
SJ 01738	30N	11W 18	1 3				33	6	27
SJ 01733	30N	11W 18	1 3				29	9	20
SJ 01786	30N	11W 18	1 3				35	10	25
SJ 01401	30N	11W 18	1 3				44	12	32
SJ 03526	30N	11W 18		1			40		
SJ 03176	30N	11W 18		1			48	20	28
SJ 03177	30N	11W 18	1 4				37	15	22
SJ 03344	30N	11W 18	1 4				100	8	92

266718 2116651

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SJ 03801 POD1	30N	11W	18	2	2	
SJ 03800 POD1	30N	11W	18	2	2	
SJ 01639	30N	11W	18	2	2	2
SJ 02098	30N	11W	18	2	4	
SJ 02109	30N	11W	18	2	4	
SJ 02123	30N	11W	18	2	4	
SJ 03290	30N	11W	18	2	4	4
SJ 02045	30N	11W	18	4		
SJ 03322	30N	11W	18	4	4	1
SJ 03320	30N	11W	18	4	4	3
SJ 03321	30N	11W	18	4	4	3
SJ 02193	30N	11W	19			
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SJ 00638	30N	11W	19	2	1	
SJ 01073	30N	11W	19	2	1	
SJ 03615	30N	11W	19	2	1	1
SJ 03434	30N	11W	19	2	1	4
SJ 03088	30N	11W	19	2	1	4
SJ 01636	30N	11W	19	2	2	
SJ 02862	30N	11W		2	2	3
SJ 00284	30N	11W	19	2	4	
SJ 03645	30N	11W	19	3	1	1
SJ 03533	30N	11W	19	3	1	3
SJ 01621	30N	11W	19	3	2	
SJ 02692	30N	11W	19	3	2	2
SJ 02968	30N	11W	19	3	2	2
SJ 02812	30N	11W	19	3	2	2
SJ 01123	30N	11W	19	4	1	
SJ 03437	30N	11W	19	4	1	2
SJ 03315	30N	11W	19	4	1	2
SJ 00284 CLW222415	30N	11W	19	4	4	
SJ 03224	30N	11W	30	1	2	4
SJ 03077	30N	11W	30	2	1	1
SJ 03668	30N	11W	30	2	1	2
SJ 03251	30N	11W	32	3	4	4

Record Count: 303

Page	1	of	2
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	POD Reports and I		
Township: 29N R	ange: 10W Sections		
NAD27 X:	Y: Zone:	Search	Radius:
County: Basin:	[Number:	Suffix:
Owner Name: (First)	(Last)	C Non-Do	mestic C Domestic • A
POD / Surface Data Report	Avg Depth to V	Vater Report	Water Column Report
C	lear Form iWATER	S Menu Help	
	A BOY THAT THE AR LINES	and many second s	

WATER COLUMN REPORT 08/20/2008

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	(quarter														
	(quarter	s are	e bi	gge	st	t to	o smal	lest)			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	P	P	P	Zone		ж	Y	Well	Water	Column		
RG 36732 DCL	29N	10W	25	2							500	450	50		
SJ 00785 S	29N	10W	04	2	4	2					20				
SJ 00680	29N	10W	13	2	2						40	10	30		
SJ 00785 NEW	29N	10W	13	4							60	20	40		
SJ 00785 S-2	29N	10W	13	4							60	20	40		
SJ 03023	29N	10W	18	1	3	1					90	65	25		
SJ 03502	29N	10W	18	1	3	1					150				
SJ 03081	29N	10W	18	3	1	4					20				
SJ 02078	29N	10W	19	3	1	1					40	9	31		
SJ 00303	29N	10W	19	3	3						20	5	15		
SJ 02860	29N	10W	19	4	4	4					21	2	19		
SJ 02900	29N	10W	20	3	1	2					70				
SJ 01140	29N	10W	20	3	2	2					25	6	19		
SJ 01990	29N	1.0W	20	4	1						40	12	28		
SJ 02548	29N	10W	20	4	4						12	2	10		
SJ 02547	29N	10W	20	4	4						12	2	10		
SJ 03535	29N	10W	21	3	2	3					15				
SJ 03455	29N	10W	21	3	3	1					20	17	3		
SJ 03456	29N	10W	21	3	3	2					20	17	3		
SJ 03441	29N	10W	21	4	3	3					40	30	10		
SJ 03470	29N	10W	21	4	3	4					20	7	13		
SJ 01474	29N	10W	21	4	4						25				
SJ 03180	29N	10W	21	4	4	4					50	15	35		
SJ 03713 POD1	29N	10W	22	2	3						265	20	245		
SJ 02820	29N	10W	23	4	1	1					82	16	66		
SJ 02896	29N	10W	24	1	4	1					110	34	76		
SJ 02275	29N	10W	24	1	4	2					40	20	20		
SJ 00092	29N	10W	24	2	4	2					33				
SJ 02802	29N	10W		3							132	30	102		
SJ 02907	29N	10W		3							60				
SJ 02122	29N	10W		4							60	12	48		
SJ 01019	29N	10W		4		3					50	4	46		
				-	-	-					50		70		

SJ 01056	29N	10W 27	3	2				50	31	19
SJ 02216	29N	10W 28	1 :	2				30	7	23
SJ 03582	29N	10W 28	1	3 3				10	4	6
SJ 02151	29N	10W 28	2	1 2	W	484600	2075600	37	20	17
SJ 03652	29N	10W 28	2	2 1				34	6	28
SJ 03142	29N	10W 28	2	2 2				38	22	16
SJ 03637	29N	10W 28	2	31				21	10	11
SJ 03582 POD2	29N	10W 28	2	3 3				28	5	23
SJ 02840	29N	10W 28	3 4	4 1				55	32	23
SJ 00506	29N	10W 28	4	3				78	55	23
SJ 00662	29N	10W 28	4	4 3				93	70	23
SJ 00497	29N	10W 29	3	23				85	35	50
SJ 03777 POD1	29N	10W 29	4	4 2		270344	2071311	100	50	50
SJ 00473	29N	10W 30	2 4	1				58	10	48
SJ 03743 POD1	29N	10W 33	4	43				490	140	350
SJ 01051	29N	10W 35	2	22				90	30	60
SJ 01050	29N	10W 36	1 4	1				85	38	47

4

Record Count: 49

New Mexico Office of the State Engineer

Township:	29N Range: 11W	Sections:			
NAD27 X:	Y:	Zone:	Search	Radius:	
County:	Basin:		Number:	Suffix:	
Wher Name: (First)	(Last)		C Non-Do	mestic C Domestic	e All
POD / Surface Data	Report Avg	Depth to Water	Report	Water Column Repo	ort

WATER COLUMN REPORT 08/20/2008

	(quarter	s are	a 1=:	NW	2=	NE	3=SW 4:	=se)							
and the second second	(quarter										Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng			đ	đ	Zone	x		Y	Well	Water	Column		
SJ 00867	29N	11W		4							77	55	22		
SJ 01302	29N	11W		4							250	210	40		
SJ 01891	29N	11W			1	3					157				
SJ 01851	29N	11W		4							125	48	77		
SJ 02466 S	29N	11W		4		3					65				
SJ 02466	29N	11W		4		3					66				
SJ 02991	29N	11W			4						· 60				
SJ 03136	29N	11W		3	4	4					20				-
SJ 00987	29N	11W	13	4							415	300	115		
SJ 01426	29N	11W		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		3	4	2					82	6	76		
SJ 03360	29N	11W		3	4	2					40				
SJ 03175	29N	11W		4		1					60	24	36		
SJ 03164	29N	11W		4		1					75	56	19		
SJ 03733 POD1	29N	11W		4	_	1					64	20	44		
SJ 02378	29N	11W		4	3	2					75	12	63		
SJ 03579	29N	11W	15	4	_	1.					83	3.0	53		
SJ 02141	29N	11W		4	-	4					110	40	70		
SJ 02926	29N	11W	17	2	4	3					375	80	295		
SJ 03399	29N	11W		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	.65		
SJ 02026	29N	1 1 W	19	3	1			440000	207770	00	27	6	21		
SJ 02970	29N	1 1W	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			3						150	30	120		
SJ 01355	29N	11W	20		4						36	3	33		
SJ 00452	29N	11W									42	10	32		
<u>20 00801</u>			-												

New Mexico Office of the State Engineer

SJ 01969	29N	11W 21	2
SJ 00701 CLW312190	29N	11W 21	2 2
SJ 00701	29N	11W 21	2 2 1
SJ 03350	29N	11W 21	2 2 3
SJ 01090	29N	11W 21	2 4
SJ 02863	29N	11W 21	2 4 1
SJ 03659	29N	11W 21	322
SJ 01888	29N	11W 21	422
SJ 02200	29N	11W 22	
SJ 01557	29N	11W 22	1 2
SJ 00796	29N	11W 22	1 2
SJ 00704	29N	11W 22	1 2
SJ 01703	29N	11W 22	1 2
SJ 03747 POD1	29N	11W 22	1 2 3
SJ 02813	29N	11W 22	1 2 3
SJ 01214	29N	11W 22	1 3
SJ 00484	29N	11W 22	131
SJ 00320	29N	11W 22	131
SJ 03532	29N	11W 22	1 3 3
SJ 00151	29N	11W 22	1 3 4
SJ 02721	29N	11W 22	1 4
SJ 03503	29N	11W 22	2 3 3
SJ 02578	29N	11W 22	2 3 3
SJ 03093	29N	11W 22	2 3 4
SJ 03189	29N	11W 22	321
SJ 03188	_ 29N	11W 22	322
SJ 02020	29N	11W 22	3 3
SJ 02138	29N	11W 22	4 2
SJ 02529	29N	11W 22	423
SJ 03479	29N	11W 22	4 2 3
SJ 03049	_ 29N	11W 22	424
SJ 00696	_ 29N	11W 22	4 3
SJ 01974	_ 29N	11W 22	433
SJ 03567	29N 29N	11W 23	$\begin{array}{ccc}1&2&3\\1&3&1\end{array}$
SJ 03557	29N	11W 23 11W 23	$\begin{array}{c}1 & 3 & 1\\1 & 3 & 1\end{array}$
<u>SJ 03558</u> SJ 03559	29N	11W 23	1 3 4
SJ 00812	29N	11W 23	14
SJ 03546	29N	11W 23	142
SJ 03591	29N	11W 23	144
SJ 01870	 29N	11W 23	2
SJ 03130	29N	11W 23	2 1 3
SJ 03201	29N	11W 23	2 1 3
SJ 03353	29N	11W 23	2 1 3
SJ 01610	29N	11W 23	2 2
SJ 01573	29N	11W 23	2 3
SJ 03073	29N	11W 23	2 3 1
SJ 03286	29N	11W 23	3 3 1
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SJ 02121	29N	11W 27	1 1
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SJ 02227	_ 29N	11W 27	114
SJ 00700	29N	11W 27	1 3 3

65 70 73	55 14	10 56
73 50 31 52 45 47 60 70 50 55 68 47 59 37 38 49 37 38 49	12 20 10 8 22 11 8 20 3 27 16 12 10 10 10 14 18	19 32 35 39 42 35 65 20 43 37 27 28 35 27
72 58 42 45 27 40 30 43 33 34 47 50 50 50 50	59 18 24 22 20 11 6 7 9 4 10 12 11 22 15 15 15	54 34 20 25 34 21 39 23 22 36 28 35 35 30
44 50 55 58 50 60 45 52 41	15 20 30 30 25 25 21	35 35 28 20 30 20 27 20
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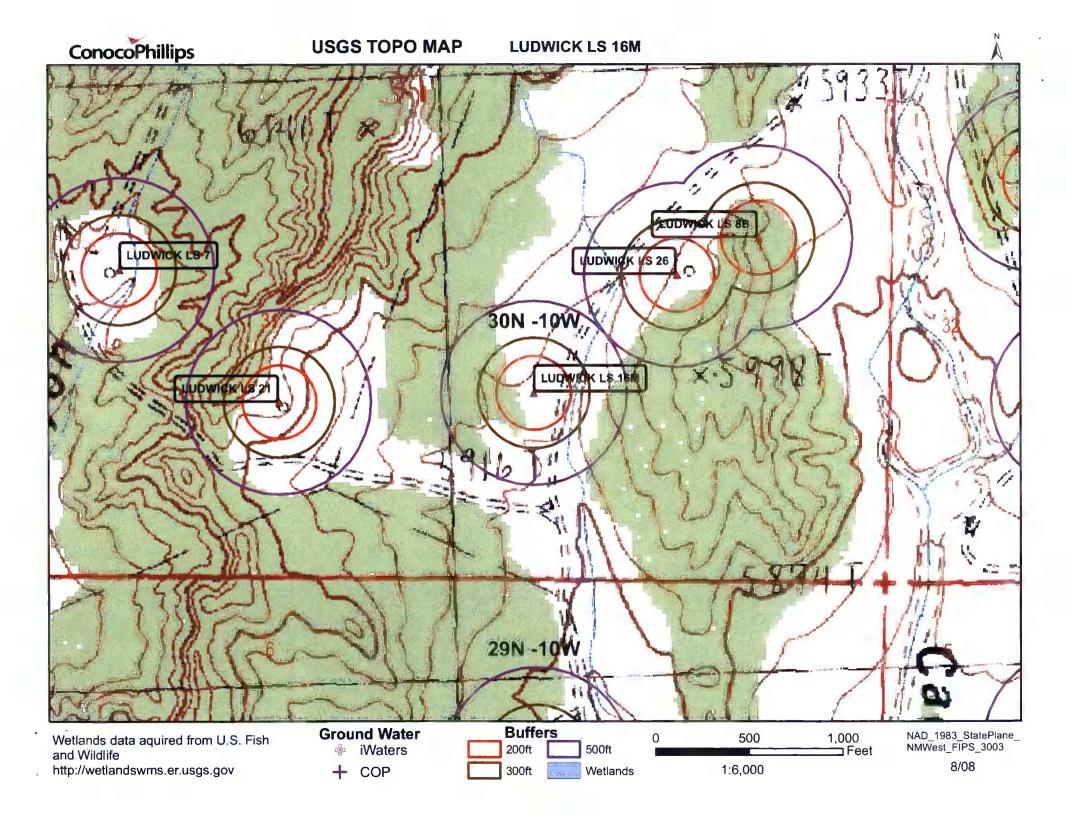
New Mexico Office of the State Engineer

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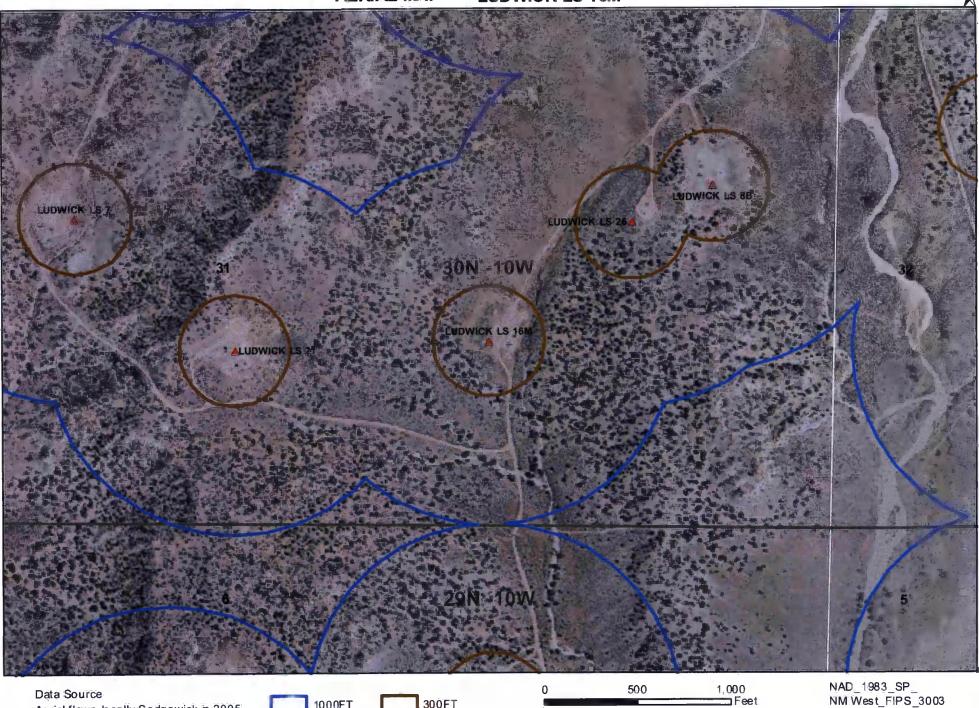
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SJ 02664 S-4	29N	11W 27	3 2			42	30	12
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Record Count: 145



AERIAL MAP LUDWICK LS 16M



Aerial flown locally Sedgewick in 2005.

ConocoPhillips

1000FT 300FT

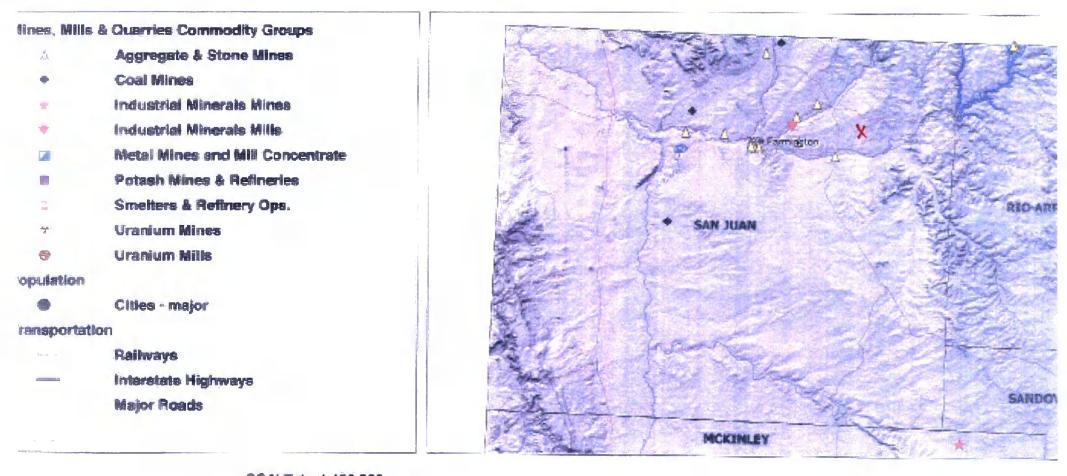
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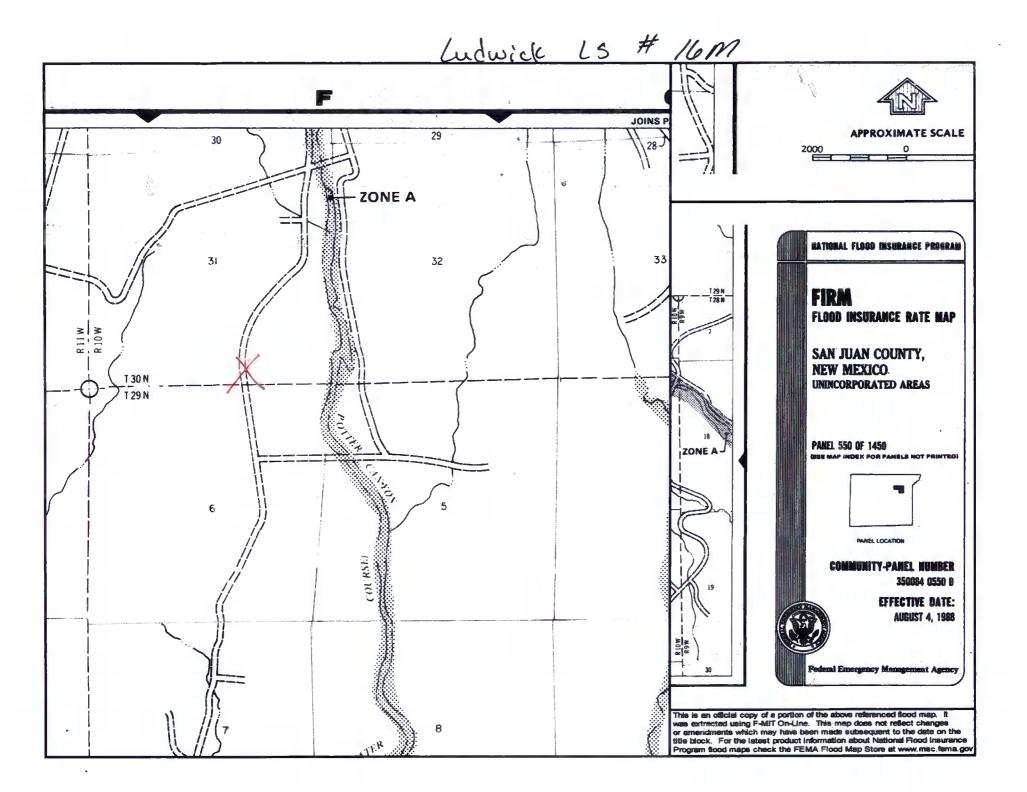
Mines, Mills and Quarries Web Map

LUDWICK LS 16M

Unit Letter: O, Section: 31, Town: 030N, Range: 010W







LUDWICK LS 16M

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'LUDWICK LS 16M', which is located at 36.763931 degrees North latitude and 107.92234 degrees West longitude. This location is located on the Aztec 7.5' USGS topographic quadrangle. This location is in section 31 of Township 30 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 Bloomfield, located 5.2 miles to the southwest. The nearest large town (population greater than 10,000) is Farmington, located 15.8 miles to the west (National Atlas). The nearest highway is State Highway 575, located 1.9 miles to the northeast. The location is on BLM land and is 1,870 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 1812 meters or 5943 feet above sea level and receives 11.5 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Mixed Bedrock Canyon and Tableland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 71 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 25 feet to the east and is classified by the USGS as an intermittent stream. The nearest perennial stream is 1,682 feet to the east. The nearest water body is 6,145 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 9,840 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 10,880 feet to the east. The nearest wetland is a 17.1 acre Ravine located 13,164 feet to the east. The slope at this location is 2 degrees to the south 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 13.9 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, 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.

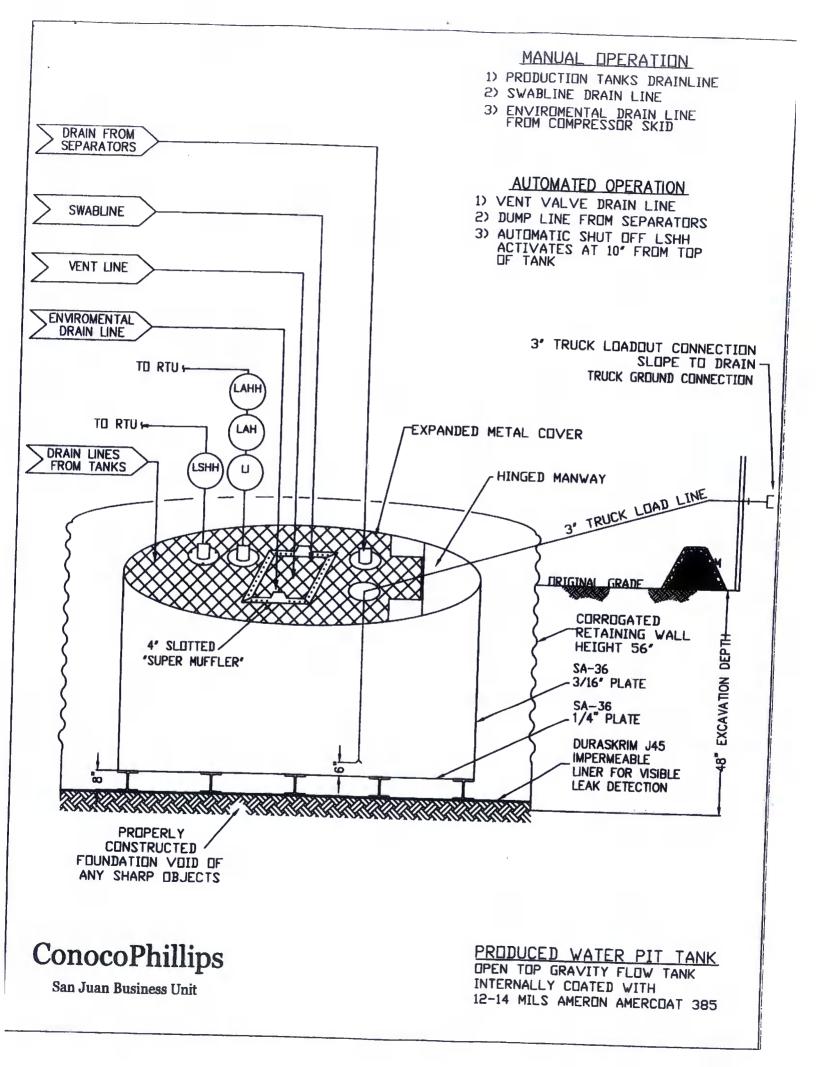
ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

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.



DUBA-SKRIM® J30, J36 & J45 PROPERTIES TEST METHOD J30BB **J36BB J45BB** Min. Roll **Typical Roll** Min. Roll Typical Roll Min. Roll Averages Averages Averages Averages Averages Appearance Black/Black Black/Black Black/Black Thickness **ASTM D 5199** 27 mil 30 mil 32 mil 36 mil 40 mil Weight Lbs Per MSF 126 lbs ASTM D 5261 140 lbs 151 lbs (oz/yd²) 168 lbs 189 lbs (18.14)

45 mil 210 lbs (20.16)(21.74)(24.19)(27.21)(30.24)Construction **Extrusion laminated with encapsulated tri-directional scrim reinforcement **Ply Adhesion ASTM D 413** 16 lbs 20 lbs 19 lbs 24 lbs 25 lbs 31 lbs 1" Tensile Strength 88 lbf MD 110 lbf MD **ASTM D 7003** 90 lbf MD 113 lbf MD 110 lbf MD 138 lbf MD 63 lbf DD 79 lbf DD 70 lbf DD 87 lbf DD 84 lbf DD 105 lbf DD 1" Tensile Elongation @ 550 MD 750 MD **ASTM D 7003** 550 MD Break % (Film Break) 750 MD 550 MD 550 DD 750 MD 750 DD 550 DD 750 DD 550 DD 750 DD 1" Tensile Elongation @: 20 MD 33 MD Peak % (Scrim Break) **ASTM D 7003** 20 MD 30 MD 20 MD 36 MD 20 DD 33 DD 20 DD 31DD 20 DD 36 DD **Tongue Tear Strength** 75 lbf MD 97 lbf MD ASTM D 5884 75 lbf MD 104 lbf MD 100 lbf MD 117 lbf MD 75 lbf DD 90 lbf DD 75 lbf DD 92 lbf DD 100 lbf DD 118 lbf DD Grab Tensile 180 lbf MD 218 lbf MD **ASTM D 7004** 180 lbf MD 222 lbf MD 220 lbf MD 180 lbf DD 257 lbf MD 210 lbf DD 180 lbf DD 223 lbf DD 220 lbf DD 258 lbf DD 120 lbf MD Trapezoid Tear 146 lbf MD **ASTM D 4533** 130 lbf MD 189 lbf MD 160 lbf MD 193 lbf MD 120 lbf DD 141 lbf DD 130 lbf DD 172 lbf DD 160 lbf DD 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 180° F 180° F 180° F 180° F 180° F Minimum Use Temperature -70° F -70° F -70° F -70° F -70° F -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



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



Typical Roll

Averages

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

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:

- 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 of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, COPC will file the C144 Closure Report as required.
- 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 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