#### Form C-144 State of New Mexico District I July 21, 2008 Minards and Natural Resources For temporary pits, closed-loop sytems, and below-grade Di REGISTERED tanks, submit to the appropriate NMOCD District Office. 13 ion Division .. Francis Dr. Di Jama 1 0, 1/M 87505 For permanent pits and exceptions submit to the Santa Fe 1000 Rio Brazos Rd., Aztec, NM 8/410 Environmental Bureau office and provide a copy to the District IV appropriate NMOCD District Office. 1220 S. St. Francis Dr., Santa Fe, NM 87505 Pit, Closed-Loop System, Below-Grade Tank, or

### Proposed Alternative Method Permit or Closure Plan Application

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

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

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the

environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable gov	remmental authority's rules, regulations or ordinances.
Operator: ConocoPhillips Company	GRID#: <b>217817</b>
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: LUDWICK LS 16	
API Number: 3004509019 OCD Permit Number:	
U/L or Qtr/Qtr: G Section: 31 Township: 30N Range: 10V	V County: San Juan
Center of Proposed Design: Latitude: 36.770999°N Longitude:	-107.92199°W NAD: X 1927 1983
Surface Owner: X Federal State Private Tribal Trust or Indian A	llotment
String-Reinforced	PE PVC Other bl Dimensions L x W x D
Closed-loop System: Subsection H of 19.15.17.11 NMAC  Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to act notice of intent)  Drying Pad Above Ground Steel Tanks Haul-off Bins Other  Lined Unlined Liner type: Thickness mil LLDPE HDP Liner Seams: Welded Factory Other	ivities which require prior approval of a permit or PE PVD Other
A	ntic overflow shut-off
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environment	ental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, instance of the permanent feet and the permanent feet and the permanent feet and four feet are permanent feet and four feet and four feet are permanent feet and feet are permanent feet and feet are permanent feet are permanent feet and feet are permanent feet are permane	litution or chi	irch)
7		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  X Screen		
8		
Signs: Subsection C of 19.15.17.11 NMAC		
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers		
X Signed in compliance with 19.15.3.103 NMAC		
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 cons	sideration of a	pproval.
(Fencing/BGT Liner)		
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	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and 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)	XNA	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	XNo
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes	XNo
- Written confirmation or verification from the municipality; Written approval obtained from the municipality		
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		<u>ا</u>
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
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
В
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
Closure Plan - based upon the appropriate requirements of Subsection C of 10.15.17.0 NMAC - 1.10.15.17.12 NMAC
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes. Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Alternative
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15
Waste 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.  [V] Protocole and Procedures, based were the appropriate continuous at a \$10.15.17.12.NMA.C.
X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  V Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Schools For 19.15.17.13 NMAC
<ul> <li>X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC</li> <li>X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> </ul>
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
one recommendate and one of appropriate requirements of Subsection Col 17.13.17.13 (NVIAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Instructions: Please identify the facility or facilities for the disposal of li	e Ground Steel Tanks or Haul-off Bins Only: (19.15.17.43.D NMAC) quids, drilling fluids and drill cuttings. Use attachment if more than two	facilities
are required.		
Disposal Facility Name:	Disposal Facility Permit #:	<del></del>
	Disposal Facility Permit #:	
Will any of the proposed closed-loop system operations and associ	iated activities occur 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 an  Soil Backfill and Cover Design Specification - based upon  Re-vegetation Plan - based upon the appropriate requireme  Site Reclamation Plan - based upon the appropriate require	the appropriate requirements of Subsection H of 19.15.17.13 NMA ents of Subsection I of 19.15.17.13 NMAC	AC
Siting Criteria (Regarding on-site closure methods only: 19.15 Instructions: Each siting criteria requires a demonstration of compliance in the certain siting criteria may require administrative approval from the appropriate for consideration of approval. Justifications and/or demonstrations of equivale	closure plan. Recommendations of acceptable source material are provided bet e district office or may be considered an exception which must be submitted to the	low. Requests regarding changes to e Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried w		Yes No
- NM Office of the State Engineer - iWATERS database search; US	GS: Data obtained from nearby wells	N/A
Ground water is between 50 and 100 feet below the bottom of the		Yes No
- NM Office of the State Engineer - iWATERS database search; US	GS: Data obtained from nearby wells	□N/A
Ground water is more than 100 feet below the bottom of the buried	d waste.	Yes No
- NM Office of the State Engineer - iWATERS database search; USo	GS; Data obtained from nearby wells	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any (measured from the ordinary high-water mark).	other significant watercourse or lakebed, sinkhole, or playa lake	Yes No
- Topographic map; Visual inspection (certification) of the proposed		
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution,</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; s</li> </ul>		Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring purposes, or within 1000 horizontal fee of any other fresh water well or significant with the state Engineer - iWATERS database; Visual inspir	pring, in existence at the time of the initial application.	Yes No
Within incorporated municipal boundaries or within a defined municipal pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality: Written		Yes No
Within 500 feet of a wetland	approval continue manerpains	Dves DNo
- US Fish and Wildlife Wetland Identification map; Topographic maj	p; Visual inspection (certification) of the proposed site	
Within the area overlying a subsurface mine.		Yes 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 C Topographic map	Geology & Mineral Resources; USGS; NM Geological Society:	Yes No
Within a 100-year floodplain FEMA map		Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instruction to the check mark in the box, that the documents are attached.	ons: Each of the following items must bee attached to the closur	re plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the	e appropriate requirements of 19.15.17.10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate		
	ased upon the appropriate requirements of 19.15.17.11 NMAC	
	rial of a drying pad) - based upon the appropriate requirements of 19	9.15.17.11 NMAC
Protocols and Procedures - based upon the appropriate requi		
Confirmation Sampling Plan (if applicable) - based upon the	appropriate requirements of Subsection F of 19.15.17.13 NMAC	
Waste Material Sampling Plan - based upon the appropriate	requirements of Subsection F of 19.15.17.13 NMAC	
Disposal Facility Name and Permit Number (for liquids, dril	ling fluids and drill cuttings or in case on-site closure standards can	nnot be achieved)
Soil Cover Design - based upon the appropriate requirement		
Re-vegetation Plan - based upon the appropriate requiremen		

T			
Operator Application	Certification:		
	nformation submitted with this application is true, a	courate and complete to the be	est of my knowledge and belief.
Name (Print):	Crystal Tafoya	Title:	Regulatory Technician
Signature:	Crystal Japana	Date:	12/22/2008
e-mail address:	pystal taruya @ congcopiralips.com	Telephone:	505-326-9837
20 OCD Approval:	Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative	Signature:		Approval Date:
Title:		OCD Permit	Number:
21			
Closure Report (requ	ired within 60 days of closure completion): s	ubsection K of 19.15.17.13 NMAC	
histractions: Operators a report is required to be si	re required to obtain an approved clósure plan prio	r to implementing any closure etion of the closure activities, a completed.	Please do not complete this section of the form until an Completion Date:
			ompetion bate.
Closure Method:  Waste Excavation  If different from a	and Removal On-site Closure Method	Alternative Closure M	lethod Waste Removal (Closed-loop systems only)
23			
Closure Report Regardi	ng Waste Removal Closure For Closed-loop Syste	ms That Utilize Above Grou	and Steel Tanks or Haul-off Bins Only:
Instructions: Please iden were utilized.	tify the facility or facilities for where the liquids, di	rilling fluids and drill cutting	s were disposed. Use attachment if more than two facilities
Disposal Facility Nam	e:	Disposal Facility Pe	rmit Number:
Disposal Facility Nam	e:	Disposal Facility Pe	
Were the closed-loop s	system operations and associated activities performe	d on or in areas that will not b	pe used for future service and opeartions?
	demonstrate complilane to the items below)	No	
	areas which will not be used for future service and . Photo Documentation)	operations:	
=	nd Cover Installation		
	olication Rates and Seeding Technique		
24			
	achment Checklist: Instructions: Each of the for	llowing items must be attache	ed to the closure report. Please indicate, by a check mark in
the box, that the docum	nents are attached.		
	Notice (surface owner and division) otice (required for on-site closure)		
一	site closures and temporary pits)		
	mpling Analytical Results (if applicable)		
=	ampling Analytical Results (if applicable)		
=	Name and Permit Number		
	nd Cover Installation		
=	plication Rates and Seeding Technique		
	(Photo Documentation)		
On-site Closure I		Longitude:	NAD   1927   1983
25			
Operator Closure Cert			
I hereby certify that the inf the closure complies with a	ormation and attachments submitted with this closur all applicable closure requirements and conditions s	re report is ture, accurate and pecified in the approved closu	complete to the best of my knowledge and belief. I also certify that tre plan.
Name (Print):		Title:	
Signature:		Date:	
e-mail address:		Telephone:	

Basin:			Nu	mber:		Suffix:	
						Sullix: J	
	(Last)		- (	Non-D	omestic	← Domes	tic • A
Report	Avg [	Depth to Water	er Repo	rt	Wate	er Column Re	eport
		Report Avg I	4				

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

	(quarter	s are 1	=NW Z=NE	3=SW 4=SI	5)					
	(quarter	s are bi	iggest to	smallest	=)		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng Sec	p p p c	Zone	x	Y	Well	Water	Column	
SJ 00050	30N	10W 02	1 3 2				520	306	214	
SJ 03460	30N	10W 02	1 3 2				520	500	20	
SJ 03230	30N	10W 03	1 2 1				120	70	50	
SJ 03113	30N	10W 05	4 1 4				42	30	12	
SJ 00589	30N	10W 08	1 1 1				175	150	25	
SJ 00774	30N	10W 08	1 2 1				195	160	35	
SJ 02316	30N	10W 08	1 3				210	98	112	
SJ 02102	30N	10W 08	1 3 4				190	90	100	
SJ 01527	30N	10W 08	2 2				120	60	60	
SJ 01193	30N	10W 08	2 2				100	70	30	
SJ 02808	30N	10W 08	2 3 4				165	105	60	
SJ 01102	30N	10W 08	2 4				200	159	41	
SJ 02998	30N	10W 08	3 3 1				260	117	143	
SJ 02772	30N	10W 08	4 2 2				200	160	40	
SJ 00523	30N	10W 08	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	

Township: 30N Range: 11W Section	ns:
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 Depth to	Water Report Water Column Report
Clear Form iWATE	ERS Menu Help

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

(qı	uarter	s are	a 1=	NW	2:	=NE	3=SW 4	=SE)						
(qı	uarter	s are	e bi	gg	est	t to	small	est)			Depth	Depth	Water	(in
POD Number	Tws	Rng	Sec	q	Q	q	Zone	X		Y	Well	Water	Column	
RG 50669	30N	11W	27								360	310	50	
SJ 02765	30N	11W		1	3						54	20	34	
SJ 00975	30N	11W		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		1	3	2					48	2.0	28	
SJ 02835	30N	11W	03	1	3	2					26	8	18	
SJ 01387	30N	11W	03	1	4						40	18	22	
SJ 03698 POD1	30N	11W		1	-	1					40	5	35	
SJ 02785	_ 30N	11W	03	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			1						50	30	20	
SJ 01202	30N	11W		2	1	2					35	8	27	
SJ 02781	_ 30N	11W	03	2	1	2					48	23	25	
SJ 03758 POD1	30N	11W		2	1	2		268158	212747	73	49	21	28	
SJ 03765 POD1	30N	11W	03	2	1	2		268163	212760	05	43	20	23	
SJ 03756 POD1	30N	11W	03	2	1	2		268179	212787	70	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	

- 00EC0	2.037	11 00	~	0							
SJ 00762	_ 30N	11W 03	3		_				47	22	2.5
SJ 01440	_ 30N	11W 03	3		3				41	21	20
SJ 01020	30N	11W 03	3						27	5	22
SJ 03242	30N	11W 03	3		1				23	9	14
SJ 03732 POD1	30N	11W 03	3		1				38	9	2.9
SJ 03239	30N	11W 03	3		3				33	12	2,1
SJ 01238	30N	11W 03	4	1					95	38	57
SJ 02245	30N	11W 03	4	1	3				66	30	3.6
SJ 01043	30N	11W 03	4	1	4				50		
SJ 01249	30N	11W 03	4		_				52	22	30
SJ 02563	30N	11W 03	4		1				96	60	36
SJ 02824	30N	11W 03	4	2	1				70	50	20
SJ 03153	30N	11W 03	4	2	1				80	60	20
SJ 03454	30N	11W 03	4	2	4				100		
SJ 03291	30N	11W 03	4	3	2				38	18	20
SJ 00366	30N	11W 03	4	4	4				33	18	15
SJ 01364	30N	11W 04	2		_				115	86	29
SJ 03076	30N	11W 04	2	2	3				44	10	34
SJ 02903	30N	11W 04	2	3	2				49	31	18
SJ 03039	30N	11W 04	4	1	2				53	40	13
SJ 01450	30N	11W 04	4	3	_				45	20	25
SJ 02941	3.0N	11W 04	4		2				58	37	21
SJ 01367	3.0N	11W 04	4		1				48	20	28
SJ 03407	30N	11W 04	4		4	W	453700	2124100	30	5	25
SJ 03267	30N	11W 05	2		3				83	60	23
SJ 03245 SJ 02194	30N	11W 06	4	4	4				80	65	15
SJ 02140	30N	11W 07	1	1	-				59	22	37
SJ 00689	30N	11W 07	1		1				70	60	10
SJ 00690	30N	11W 07	1		3				78	65	13
SJ 00882	30N	11W 07 11W 07	1		3				60		
SJ 00889	30N	11W 07	1		3				60	50	10
SJ 00806	30N	11W 07	1		3				55	2.0	1.0
SJ 00739	30N	11W 07	1		3				38 70	20	18
SJ 00389	30N	11W 07	1		3				53	58	12
SJ 00688	30N	11W 07	1		3				70	58	12
SJ 00358	30N	11W 07	1		3				61	38	23
SJ 00397	30N	11W 07	1		3				56	35	21
SJ 00415	30N	11W 07	1		3				53	40	13
SJ 00387	30N	11W 07	1		3					10	13
SJ 00748	30N	11W 07	1	4	3				60	41	19
SJ 03271	30N	11W 07	2	3	2						
SJ 01475	30N	11W 07	2	3	3				49	27	22
SJ 03465	30N	11W 07	2	3	4				80		
SJ 00259	30N	11W 07	2	4					25	12	13
SJ 01492	30N	11W 07	3						60	22	38
SJ 03794 POD1	30N	11W 07		1	3		266272	2119520	44	27	17
SJ 01172	30N	11W 07	3	2					50	30	20
SJ 01310	30N	11W 07		3					80	50	30
SJ 01484	30N	11W 07		3					61	10	51
SJ 03630	30N	11W 07		3	3				68	24	44
SJ 01425	30N	11W 07		4					55	25	30
SJ 01468	30N	11W 07	3	4					60	25	35
SJ 02006	30N	11W 07		4					50	24	26
SJ 03484	30N	11W 07		4					75		
SJ 02005	30N	11W 07		4					55	20	35
SJ 02715	30N	11W 07		4	4				68	20	48
SJ 00135	30N	11W 07	4						180	23	157
SJ 00769	30N	11W 07	4	1					50	14	36

SJ	01406	30N	11W 07	4 1		45	12	33
	02936	30N	11W 07	4 1	. 1	38	30	8
SJ	00679	30N	11W 07	4 1	. 3	48	22	26
	00620	30N	11W 07	4 1	. 3	52	35	17
	00329	30N	11W 07	4 1	. 3	63	20	43
	00162	30N	11W 07	4 1		58	23	35
	02906	30N	11W 07	4 1		45	24	21
	00893	30N	11W 07	4 2		80	40	40
	01667	30N	11W 07	4 3		41	21	20
	01404	30N	11W 07	4 3		40	15	25
		30N	11W 07					
	00919 00604		11W 07			35	12	23
		30N		4 3		38	22	16
	00601	30N	11W 07	4. 3		40	22	18
	00918	30N	11W 07	4 3		35	14	21
	00920	30N	11W 07	4 3		35	12	23
	01567	30N	11W 07	4. 4		35	14	21
	00183	30N	11W 08	1 1		360	300	60
	03154	30N	11W 08		. 4	40		
-	03431	30N	11W 08	1 4		50		
	00332	30N	11W 08	2 2		52	34	18
SJ	01451	30N	11W 08	2 2		64	34	30
SJ	01968	30N	11W 08	2 2	2	40	25	15
SJ	01999	30N	11W 08	2 2	2	61	45	16
SJ	01814	30N	11W 08	2 2	2	52	10	42
SJ	03398	30N	11W 08	2 2	1	80	20	60
SJ	03210	30N	11W 08	2 2	2	60	30	30
SJ	03098	30N	11W 08	2 2	2	63	2.3	40
SJ	03381	30N	11W 08	2 2	2	50		
SJ	03240	30N	11W 08	2 2	2	50		
SJ	00220	30N	11W 08	2 2	3	60	36	24
	03639	30N	11W 08	2 2		60	24	36
	01115	30N	11W 08	2 2		35	26	9
	03653	30N	11W 08	2 2		62	26	36
	03646	30N	11W 08	2 2		61	24	3.7
	00228	30N	11W 08	2 2		67	38	29
	03202	30N	11W 08	2 4		45		
	03030	30N	11W 08	2 4		56	40	1.6
	03305	30N	11W 08	2 4		50		
	03378	30N	11W 08	2 4		50		
	02331	30N	11W 08	2 4		53	35	18
-	03303	30N	11W 08	2 4		55	30	25
	02293	30N	11W 08	2 4		50	35	15
	00249	30N	11W 08		2	46	30	16
	01368	30N	11W 08	3 2		59	39	20
	03089	30N	11W 08		4	48	36	12
	03480	30N	11W 08		4	50	30	12
	03199	30N	11W 08		1	40	20	20
	02413	30N	11W 08		1	40	31	9
4-1		30N	11W 08		1	45	31	,
	02915	30N	11W 08		4	29	5	24
	03367							
	01570	30N	11W 08	4 1		59	37	22
	00925	30N	11W 08		. 2	32	20	12
	03642	30N	11W 08	4 1		58	32	26
	01520	30N	11W 08		. 2	58	18	40
_	03313	30N	11W 08		. 4	58	20	3.8
	02485	3 ON	11W 08		. 4	49	30	19
	02261	30N	11W 08		3 2			
SJ	03419	30N	11W 08	4 4	2	41	9	32
SJ	02241	30N	11W 09	1		39	27	12

SJ 01560	_ 30N	11W	09	1	1		36	26	10
SJ 01585	30N	11W		1	1		40	28	12
SJ 03499	30N	11W	09	1	1	1	53	12	41
SJ 02236	30N	11W	09	1	1	1	35	17	18
SJ 03304	30N	11W	09	1	1	2	55	30	2.5
SJ 03209	30N	11W	09	1	1	3	49	32	17
SJ 03726 POD1	30N	11W	09	1	1	3	47	30	17
SJ 03342	30N	11W	09	1	1	3	50	31	19
SJ 03225	30N	11W	09	1	1	4	50		
SJ 03229	30N	11W	09	1	1	4	50		
SJ 00924	30N	11W	09	1	2	2	46	16	30
SJ 00438	30N	11W	09	1	2	3	29	19	10
SJ 01169	30N	11W	09	1	3		56	33	23
SJ 01574	30N	11W (	09	1	3		46	27	19
SJ 02237	30N	11W	09	1	3	1	48	28	20
SJ 03019	30N	11W	09	1	3	1	50	30	20
SJ 02493	30N	11W (	09	1	3	1	49	26	23
SJ 03724 POD1	30N	11W (	09	1	3	1	47	36	11
SJ 03031	30N	11W (	09	1	3	1	55	35	20
SJ 01465	30N	11W (	09	1	3	2	47		
SJ 02336	30N	11W (	09	1	3	2	46	11	35
SJ 03482	30N	11W (	09	1	3	2	50		
SJ 03423	30N	11W (	09	1	3	3	50	20	30
SJ 00750	30N	11W (	09	1	4		26	6	20
SJ 02975	30N	11W (		2	1	4	37	12	25
SJ 03268	30N	11W (	0.9	2	2	2	61	10	51
SJ 00364	30N	11W (			3	2	50	20	30
SJ 03128	30N	11W (			3	2	50		
SJ 00364 CLW263561	30N	11W (				2	33	11	22
SJ 01955	30N	11W (			4		40	11	29
SJ 02528	30N	11W (			4		60	28	32
SJ 02290	30N	11W (			4	2	45	15	30
SJ 00347	30N	11W (		4			36	19	17
SJ 01436	30N	11W (			1		210	50	160
SJ 03471	30N	11W (			1		20	5	15
SJ 03223	30N	11W (				2	59	25	34
SJ 03263	30N	11W (			2		63	35	28
SJ 03374	30N	11W (			3	_	44	29	15
SJ 02796	30N	11W (				2	100		
SJ 03214	30N	11W (				2	93	63	30
SJ 03213	30N	11W (				2	100		
SJ 02176	30N	11W 1			3		57	37	20
SJ 03356	30N	11W 1			3		55	30	25
SJ 03258	30N	11W 1				3	55	10	45
SJ 03444	30N	11W 1			3		60		
SJ 03248	30N	11W 1		1			90	30	60
SJ 03354	30N	11W 1			3		80	30	5.0
SJ 00348	30N	11W 1				4	72	24	48
SJ 03032	30N	11W 1				1	80	30	50
SJ 02819	30N	11W 1				3	140	40	100
SJ 03282	30N	11W 1				4	70	30	40
SJ 03281	30N	11W 1			3		62	32	3.0
SJ 03572	30N	11W 1			1		70		
SJ 03218	30N	11W 1		3	3	3	50	30	20
SJ 01720	30N	11W 1		4	1		225	90	135
SJ 03745 POD1	30N	11W 1		1 :		2	325	150	175
SJ 01693	30N	11W 1		1			225	89	136
SJ 01672	30N	11W 1		1 :			180	80	100
SJ 01294	30N	11W 1	. 3	1 :	3	3	92	52	40

SJ 02773	30N	11W 16	1 1	3		46		21
SJ 00410	3 0 N	11W 16	1 2			61	45	16
SJ 03010	30N	11W 16	1 3	1		80	40	40
SJ 03257	30N	11W 16	1 3	3		80	40	40
SJ 02923	30N	11W 16	1 3	3		75	40	35
SJ 03265	30N	11W 16	1 3	3		90		20
SJ 03310	30N	11W 16		3		55		35
SJ 01082	30N	11W 16	2 2			80		46
SJ 01722	30N	11W 17	1	مله		20		
	_							12
SJ 01528	_ 30N	11W 17	1 1	3		26		16
SJ 03373	_ 30N	11W 17	1 1	3		50		15
SJ 01948	_ 30N	11W 17	1 2			21	3	18
SJ 02817	30N	11W 17	1 2	2		15		
SJ 01722 POD2	30N	11W 17	1 2	4 266967	2116417	17	3	14
SJ 01899	30N	11W 17	1 3 :	2		27	7	20
SJ 03771 POD1	30N	11W 17	1 3	3 266811	211517	20	6 :	14
SJ 03750 POD1	30N	11W 17	1 3	3 266811	211517	20		14
SJ 03319	30N	11W 17		4		55		24
SJ 03266	30N	11W 17		3		30		20
SJ 03436	30N	11W 17		3		20	10	20
		11W 17		J.			20 /	2.4
SJ 00745	_ 30N		2			54		24
SJ 00665	30N	11W 17	2 1			28		14
SJ 01342	30N	11W 17		1		26		21
SJ 00166	30N	11W 17	2 3			48		37
SJ 01057	30N	11W 17	2 3			63	28	35
SJ 01060	30N	11W 17	2 3			58	2.3	35
SJ 03241	30N	11W 17	2 3	3		75	20	55
SJ 03269	30N	11W 17	2 3	4		80	10	70
SJ 01200	30N	11W 17	2 4			50		30
SJ 03219	30N	11W 17		2		68		30
SJ 00159	3.0N	11W 17	3 1	_		35		27
SJ 03276	30N	11W 17		4		60		10
	30N	11W 17	3 2	4				
SJ 01296				2		50		10
SJ 03249	30N	11W 17		2		55		13
SJ 01810	30N	11W 17	3 4			29		20
SJ 00411	30N	11W 17	4 1			60		35
SJ 00234	30N	11W 17	4 1			54		31
SJ 01847	30N	11W 17	4 1			30		24
SJ 00457	30N	11W 17	4 1 :	2		52	18	34
SJ 00650	_ 30N	11W 17	4 1	3		49	18	31
SJ 02018	30N	11W 17	4 2			100	40	50
SJ 00136	30N	11W 17	4 2			69	35 3	34
SJ 03718 POD1	30N	11W 17	4 2 3	2		68	41 2	27
SJ 03261	3 0 N	11W 17	4 2 3	2		88	50 3	88
SJ 03215	3 ON	11W 18	1 1 :			52		13
SJ 01316	30N	11W 18	1 1 :			46		34
SJ 03152	3.0N	11W 18	1 1			52		30
SJ 02805	30N	11W 18	1 2			60		
SJ 03463	30N	11W 18	1 2			70	20 5	50
SJ 02996	30N	11W 18	1 2			50		25
	_							
SJ 00932	_ 30N	11W 18	1 2	4		32		L7
SJ 01738	30N	11W 18	1 3			33		27
SJ 01733	30N	11W 18	1 3			29		20
SJ 01786	30N	11W 18	1 3			35		25
SJ 01401	30N	11W 18	1 3			44	12	32
SJ 03526	30N	11W 18	1 3 :	1		40		
SJ 03176	30N	11W 18	1 4			48	20 2	2.8
SJ 03177	30N	11W 18	1 4			37		22
SJ 03344	30N	11W 18	1 4			100		92
20 033##	2014	T T 44 T O	T T					

SJ 03801 POD1	30N	11W 18	2	2		266702	2116449	21	6	15
SJ 03800 POD1	30N	11W 18	2	2		266718	2116449	21	6	15
SJ 01639	30N	11W 18	2	2	2	200710	2110051	40	18	22
SJ 02098	30N	11W 18	2	4	2			21	7	14
SJ 02109	30N	11W 18	2	4				19	4	15
SJ 02123	30N	11W 18	2	4				22	8	14
SJ 03290	30N	11W 18	2	4	4			40	10	3.0
SJ 02045	30N	11W 18	4					480	200	280
SJ 03322	30N	11W 18	4	4	1			40	10	30
SJ 03320	30N	11W 18	4	4	3			80		
SJ 03321	30N	11W 18	4	4	3			80		
SJ 02193	30N	11W 19							105	
SJ 03403	30N	11W 19	1	2	2			400		
SJ 00638	30N	11W 19	2	1				130	70	60
SJ 01073	30N	11W 19	2	1				100	38	62
SJ 03615	30N	11W 19	2	1	1			105	35	70
SJ 03434	30N	11W 19	2	1	4			140		
SJ 03088	30N	11W 19	2	1	4			120	80	40
SJ 01636	30N	11W 19	2	2				70	25	45
SJ 02862	30N	11W 19	2	2	3			20		
SJ 00284	30N	11W 19	2	4				200	35	165
SJ 03645	30N	11W 19		1	1			60	20	40
SJ 03533	30N	11W 19		1	3			20		
SJ 01621	30N	11W 19	3	2				40	38	2
SJ 02692	30N	11W 19	3	2	2			52	12	40
SJ 02968	30N	11W 19		2	2			75	5	70
SJ 02812	30N	11W 19		2	2			50		
SJ 01123	30N	11W 19	4	1				40	15	25
SJ 03437	30N	11W 19	4	1	2			30		
SJ 03315	30N	11W 19	4	1	2			60	54	6
SJ 00284 CLW222415	30N	11W 19	4	4				200	35	165
SJ 03224	30N	11W 30			4			80	30	50
SJ 03077	30N	11W 30		1				75	70	5
SJ 03668	30N	11W 30		1	2			380	280	100
SJ 03251	30N	11W 32	3	4	4			150	77	73

NAD27 X: Y:	Zone:	Search	n Radius:
County: Basin:		▼ Number:	Suffix:
Owner Name: (First)	(Last)	C Non-Do	omestic C Domestic Al
POD / Surface Data Report	Avg Depth to W	ater Report	Water Column Report

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

					3=SW 4=SE)						
					smallest)			Depth	Depth		(in feet)
POD Number	Tws	-		g g	Zone	X	Y	Well	Water	Column	
RG 36732 DCL	29N	10W 25						500	450	50	
SJ 00785 S	29N	10W 04		4 2				20			
SJ 00680	29N	10W 13		2				40	10	30	
SJ 00785 NEW	29N	10W 13						60	20	40	
SJ 00785 S-2	29N	10W 13						60	20	40	
SJ 03023	29N	10W 18		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		1 2				70			
SJ 01140	29N	10W 20	3	2 2				25	6	19	
SJ 01990	29N	10W 20	4	1				40	12	28	
SJ 02548	29N	10W 20	4	4				12	2	10	
SJ 02547	29N	10W 20	4	4				12	2	10	
SJ 03535	29N	10W 21	3	2 3				15			
SJ 03455	29N	10W 21	3	3 1				20	17	3	
SJ 03456	29N	10W 21	3	3 2				20	17	3	
SJ 03441	29N	10W 21	4	3 3				40	30	10	
SJ 03470	29N	10W 21	4	3 4				20	7	13	
SJ 01474	29N	10W 21	4	4				25			
SJ 03180	29N	10W 21	4	4 4				50	15	35	
SJ 03713 POD1	29N	10W 22	2	3				265	20	245	
SJ 02820	29N	10W 23	4	1 1				82	16	66	
SJ 02896	29N	10W 24	1	4 1				110	34	76	
SJ 02275	29N	10W 24	1	4 2				40	20	20	
SJ 00092	29N	10w 24		4 2				33			
SJ 02802	29N	10W 24		1 2				132	30	102	
SJ 02907	29N	10W 24		2 3				60			
SJ 02122	29N	10W 25						60	12	48	
SJ 01019	29N	10W 26		3 3				50	4	46	
DG 01013	2 ) [1	1011 20	7	, ,				50	-	40	

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

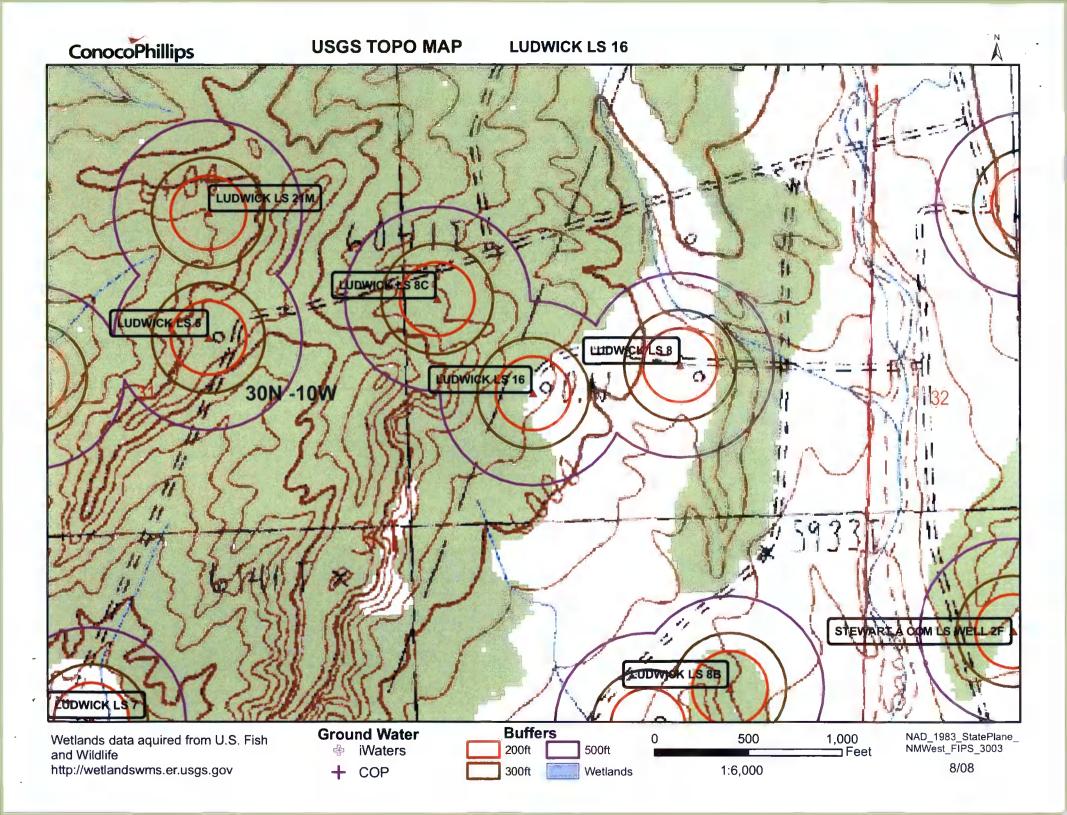
NAD	27 X:	Y: Zone:	Sear Sear	ch Radius:
County:	Basin:		Number:	Suffix:
Owner Name: (	First)	(Last)	C Non-I	Domestic C Domestic 6 Al
POD / Sur	rface Data Report	Avg Depth to	Water Report	Water Column Report

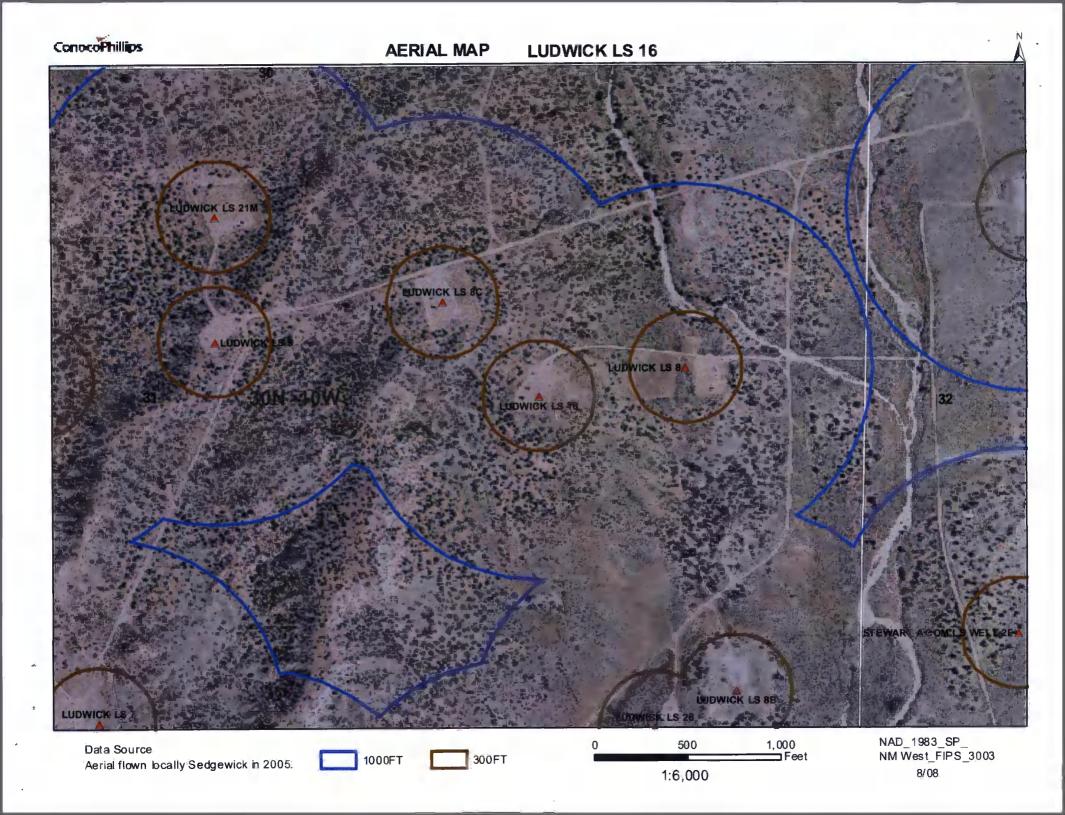
#### WATER COLUMN REPORT 08/20/2008

	(quarter	s are	1=N	W 2:	=NE	3=SW 4=S	E)								
	(quarter	s are	big	ges	t to	smalles	t)			Depth	Depth	Water	(in	feet)	
POD Number	Tws	Rng S		PP	g	Zone	X		Y	Well	Water	Column			
SJ 00867	29N	11W 0		4						77	55	22			
SJ 01302	29N	11W 0	7	4 1						250	210	40			
SJ 01891	29N	11W 0		4 1	3					157					
SJ 01851	29N	11W 1		4 4						125	48	77			
SJ 02466 S	29N	11W 1	1	4 3	3					65					
SJ 02466	29N	11W 1	1	4 3	3					66					
SJ 02991	29N	11W 1	3	3 4	2					60					
SJ 03136	29N	11W 1	3	3 4	4					20					
SJ 00987	29N	11W 1	3	4						415	300	115			
SJ 01426	29N	11W 1	4	1 4						155	10	145			
SJ 00007	29N	11W 1	4	2 2	3					752					
SJ 03550	29N	11W 1	4	3 2	1					10					
SJ 01774	29N	11W 1	4	3 4	2					82	6	76			
SJ 03360	29N	11W 1	4	3 4	2					40					
SJ 03175	29N	11W 1	4	4 2						60	24	36			
SJ 03164	29N	11W 1		4 2						75	56	19			
SJ 03733 POD1	29N	11W 1		4 2	1					64	20	44			
SJ 02378	29N	11W 1		4 3	2					75	12	63			
SJ 03579	29N	11W 1		4 4	1					83	30	5,3			
SJ 02141	29N	11W 1		4 3						110	40	70			
SJ 02926	29N	11W 1		2 4	3					375	80	295			
SJ 03399	29N	11W 1		4 2						100					
SJ 00487	29N	11W 1		4 4						60	6	54			
SJ 02868	29N	11W 1		4 4	4					50					
SJ 01641	29N	11W 1	9	2 2	3					120	5,5	65			
SJ 02026	29N	11W 1		3 1		44	0000	20777	00	27	6	21			
SJ 02970	29N	11W 1	9	4 3	2					100	18	82			
SJ 01250	29N	11W 1	9	4 4						60	20	40			
SJ 02869	29N	11W 2	0	2 2	1					50					
SJ 00583	29N	11W 2	0	3 3	2					150	30	120			
SJ 01355	29N	11W 2	0	4 4						36	3	33			
SJ 00452	29N	11W 2	1							42	10	3.2			

-								
SJ 01969	29N	11W 21	2			65	55	10
SJ 00701 CLW312190	29N	11W 21	2	2		70	14	56
SJ 00701	29N	11W 21	2		1	73		50
SJ 03350	29N	11W 21	2	2	3	50		
SJ 01090	29N	11W 21	2	4		31	12	19
SJ 02863	29N	11W 21	2	4	1	52	20	32
SJ 03659	29N	11W 21	3	2	2	45	10	35
SJ 01888	29N	11W 21	4	2	2	47	8	39
SJ 02200	29N	11W 22				60	22	3.8
SJ 01557	29N	11W 22	1	2		70	11	59
SJ 00796	29N	11W 22	1	2		50	8	42
SJ 00704	29N	11W 22	1	2		55	20	35
SJ 01703	29N	11W 22	1			68	3	65
SJ 03747 POD1	29N	11W 22		2		47	27	20
SJ 02813	29N	11W 22	1		3	59	16	43
SJ 01214	29N	11W 22	1	3		49	12	37
SJ 00484	29N	11W 22	1	3	1	37	10	27
SJ 00320	29N	11W 22	1	3	1	38	10	28
SJ 03532	29N	11W 22	1	3	3	49	14	35
SJ 00151	29N	11W 22	1	3	4	45	18	27
SJ 02721 SJ 03503	29N	11W 22 11W 22	1	4	2		59	
SJ 02578	29N 29N	11W 22	2	3	3	72	18	54
SJ 03093	29N	11W 22	2	3	3 4	58	24	34
SJ 03189	29N	11W 22	3	2	1	42 45	22	20
SJ 03188	29N	11W 22	3	2	2	45	20 11	25 34
SJ 02020	29N	11W 22	3	3	2	27	6	21.
SJ 02138	29N	11W 22	4	2		40	7	33
SJ 02529	29N	11W 22	4	2	3	30	9	21
SJ 03479	29N	11W 22	4	2	3	43	4	39
SJ 03049	29N	11W 22	4	2	4	33	10	23
SJ 00696	29N	11W 22	4	3		3.4	12	22
SJ 01974	29N	11W 22	4	3	3	47	11	36
SJ 03567	2 <sup>9</sup> N	11W 23	1	2	3	50	22	28
SJ 03557	29N	11W 23	1	3	1	50	15	35
SJ 03558	29N	11W 23	1	3	1	50	15	35
SJ 03559	29N	11W 23	1	3	4	45	15	30
SJ 00812	29N	11W 23	1			44		
SJ 03546	29N	11W 23	1	4		50	15	35
SJ 03591	29N	11W 23	1	4	4	55	20	35
SJ 01870	29N	11W 23	2	4	3	5.8	30	28
SJ 03130	29N	11W 23	2	1		50	30	20
SJ 03201	29N	11W 23	2	1		60	30	30
SJ 03353 SJ 01610	29N 29N	11W 23 11W 23	2	1 2	3	45	25	20
SJ 01573	29N	11W 23	2	3		52 41	25 21	27 20
SJ 03073	29N	11W 23	2	3	1	30	21	20
SJ 03286	29N	11W 23	3	3		38	28	10
SJ 02799	29N	11W 23	4	1		56	15	41
SJ 03548	29N	11W 23	4	1		50	15	35
SJ 01962	29N	11W 24	1	2		45	12	33
SJ 03343	29N	11W 24	1	4		35	18	17
SJ 00804	29N	11W 25	1	4		37	25	12
SJ 01808 0-5	29N	11W 26	3	1	1	52	43	9
SJ 02121	29N	11W 27	1	1		30	6	24
SJ 02210	29N	11W 27	1			32	8	24
SJ 03588	29N	11W 27		1	2			
SJ 02227	29N	11W 27		1		27	6	21
SJ 00700	29N	11W 27		3		20	7	13

SJ 01808 0-4	29N	11W 27	2 3	3			32	25	7
SJ 01808 0-1	29N	11W 27	2 4	1 2			25	17	8
SJ 01808 0-2	29N	11W 27	2 4	1 3			27	19	8
SJ 01808 0-3	29N	11W 27	2 4				39	34	5
SJ 02664	29N	11W 27	3 2				40	26	14
SJ 02664 S	29N	11W 27	3 2				38	23	15
SJ 02664 S-2	29N	11W 27	3 2	2			34	19	15
SJ 02664 S-3	29N	11W 27	3 2	2			41	30	11
SJ 02664 S-9	29N	11W 27	3 2	2			3.3	19	14
SJ 02664 S-4	29N	11W 27	3 2	2			42	30	12
SJ 02664 S-10	29N	11W 27	3 2	2			33	19	14
SJ 02664 S-5	29N	11W 27	3 2	2			41	30	11
SJ 02664 S-6	29N	11W 27	3 2	2			40	28	12
SJ 02664 S-7	29N	11W 27	3 2	2			37	23	14
SJ 02664 S-8	29N	11W 27	3 2	2			35	25	10
SJ 02148	29N	11W 27	4 2	}			305	186	119
SJ 01808 0-6	29N	11W 27	4 2	1			5.0		
SJ 03762 POD1	29N	11W 28	1 1		267348	2075529	27	15	12
SJ 03476	29N	11W 28	1 1				65		
SJ 03415	29N	11W 28	1 2				60	20	40
SJ 02559	29N	11W 28	1 2	4			15	7	8
SJ 02330	29N	11W 28	2 1				128	115	13
SJ 03021	29N	11W 28	2 1	. 3			16	5	11
SJ 01606	29N	11W 28	2 2				35	8	27
SJ 03468	29N	11W 28	2 4		367704	2073506	5 <b>0</b>		
SJ 03469	29N	11W 28	2 4	. 3			50		
SJ 02713	29N	11W 28	3 1	. 1			26	12	14
SJ 02858	29N	11W 28	3 1	. 3			40		
SJ 02714	29N	11W 28	3 2				43	28	15
SJ 02708	29N	11W 28	3 2				26	12	14
SJ 03149	29N	11W 28	4 2	2			60	35	25
SJ 03475	29N	11W 29	1 1				40	20	20
SJ 00292	29N	11W 29	2 1				24	9	15
SJ 01554	29N	11W 29	2 2				35	18	17
SJ 02038	29N	11W 29	4 1				14	4	10
SJ 03298	29N	11W 29	4 1				70	6	64
SJ 02023	29N	11W 29	4 2				24	7	17
SJ 02182	29N	11W 29	4 2				27	11	16
SJ 00822	29N	11W 29	4 3				34	15	19
SJ 03421	29N	11W 29	4 4	3			50	28	22
SJ 01391	29N	11W 30	2				40	25	15
SJ 03348	29N	11W 30	2 1				60		
SJ 01260	29N	11W 30	2 2				42	16	26
SJ 01264	29N	11W 30	2 2				27	12	15
SJ 01328	29N	11W 30	2 2				28	15	13
SJ 01821	29N	11W 30	2 4				70	6	64
SJ 00875	29N	11W 30	4 1				37	20	17
SJ 02922	29N	11W 31		2	0.66400	0067001	75		
SJ 03795 POD1	29N	11W 31		4	266438	2067001	75	45	30
SJ 03541	29N	11W 31		1			80	40	40
SJ 00441	29N	11W 32	2 2				0.00		
SJ 00103	29N	11W 32		4			263		
SJ 00103 S	29N	11W 32		4			254		
SJ 03666	29N	11W 33	2 1	3			49	30	19

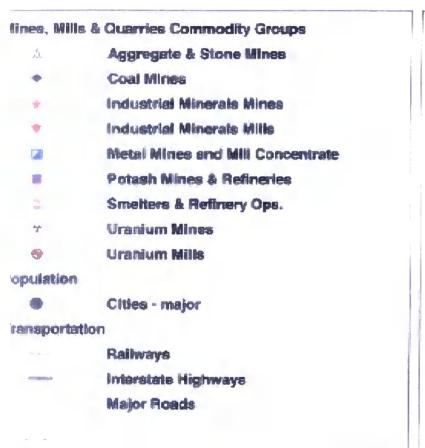


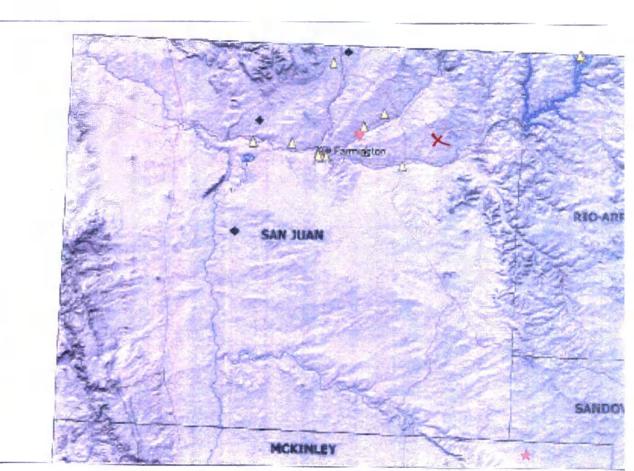


## Mines, Mills and Quarries Web Map

LUDWICK IS 16

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







Ludwick LS # 16 F JOINS P 29 **APPROXIMATE SCALE** 30. ZONE A MATIONAL FLOOD INSURANCE PROGRAM 33 32 FIRM FLOOD INSURANCE RATE MAP R11W R10W SAN JUAN COUNTY, **NEW MEXICO** T 30 N UNINCORPORATED AREAS T 29 N PANEL 550 OF 1450 ZONE A (SEE MAP INDEX FOR PANELS NOT PRINTED) 6 PANEL LOCATION COMMUNITY-PAMEL NUMBER 350064 0550 B EFFECTIVE DATE: **AUGUST 4, 1988** This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.mac.fama.gov

#### **LUDWICK LS 16**

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'LUDWICK LS 16', which is located at 36.770999 degrees North latitude and 107.92199 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 Aztec, located 5.3 miles to the northwest. The nearest large town (population greater than 10,000) is Farmington, located 15.9 miles to the west (National Atlas). The nearest highway is State Highway 575, located 1.6 miles to the northeast. The location is on BLM land and is 2,855 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 1837 meters or 6025 feet above sea level and receives 12 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 90 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 701 feet to the northeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is 1,735 feet to the east. The nearest water body is 8,288 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 11,462 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 10,042 feet to the north. The nearest wetland is a 17.1 acre Rayine located 13,503 feet to the east. The slope at this location is 3 degrees to the east as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION-Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Gypsiorthids-Badland-Stumble complex, moderately steep' and is somewhat excessively drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 13.4 miles to the north as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

#### Regional Geological context:

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

The Nacimiento Formation occurs in approximately only the southern two-thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval. Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones.

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

#### Hydraulic Properties:

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

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

#### References:

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

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

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

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

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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.

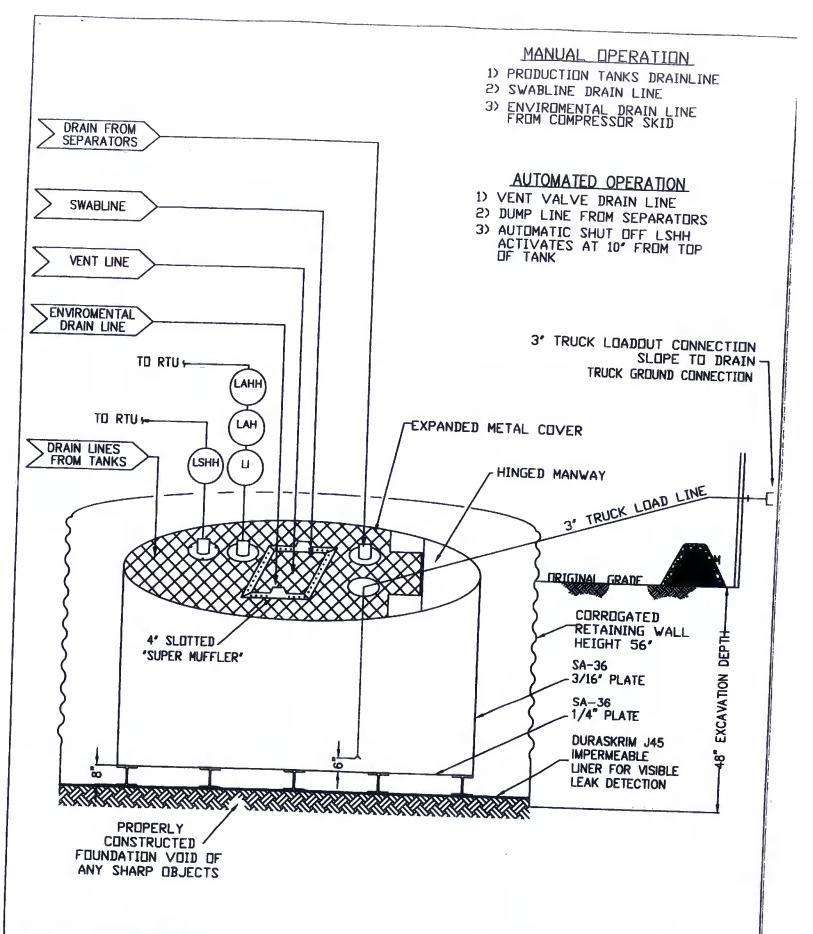
# ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

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:

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

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



## ConocoPhillips

San Juan Business Unit

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

# IHA-SKRIM®

# J30, J36 & J45

PROPERTIES	TEST METHOD	J	30BB	Ja	36BB	Já	588
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages		Typical Ro
Appearance		Blac	ck/Black		k/Black		Averages k/Black
Thickness	ASTM D 5199	27 mil	30 mil	32 mil		<del> </del>	T
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	36 mil 168 lbs (24.19)	40 mil	45 mil 210 lbs
Construction		**Ext			,	(27.21)	(30.24)
Ply Adhesion	ASTM D 413	16 lbs	CO III	d with encapsula	ated tri-direction	nal scrim reinfor	cement
	NOTH D413	10 108	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf ME 105 lbf DD
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
rapezoid 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		
uncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf		<1	<0.5
faximum Use Temperature		180° F			83 lbf	80 lbf	99 lbf
finimum Use Temperature			180° F	180° F	180° F	180° F	180° F
D = Machine Direction		-70° F	-70° F	-70° F	-70° F	-70° F	-70° F

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

RAVEN NDUSTRIES

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 relmburse Raven Industries Inc. for its costs

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

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

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

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

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

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

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

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

#### General Plan:

- COPC will operate and maintain a BGT to contain liquids and solids and maintain
  the integrity of the liner, liner system and secondary containment system to
  prevent contamination of fresh water and protect public health and environment.
  COPC will accomplish this by performing an inspection on a monthly basis,
  installing cathodic protection, and automatic overflow shutoff devices as seen on
  the design plan.
- 2. COPC will not discharge into or store any hazardous waste in the BGT.
- 3. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, COPC will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, COPC's multiskilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, COPC shall remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- 5. COPC shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then COPC shall remove all liquid above the damage or leak line within 48 hours. COPC shall notify the appropriate district office. COPC shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, COPC shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. COPC shall notify the appropriate district office of a discovery of leaks less than 25 barrels as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.

#### ConocoPhillips Company San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure requirements of Below Grade Tanks (BGTs) on ConocoPhillips Company locations hereinafter known as COPC locations. This is COPC's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

#### **General Requirements:**

- 1. COPC shall close a below-grade tank within the time periods provided in Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I 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.
- 2. COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 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.
- If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.
- 5. COPC shall test the soils beneath the below-grade tank to determine whether a release has occurred. COPC shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. COPC shall notify the division of its results on form C-141.

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