1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy Minerals and Natural Resources

Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144 July 21, 2008

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

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the

1220 S. St. Francis Dr., Santa Fe, NM 87505	appropriate NMOCD District Office.
	Pit, Closed-Loop System, Below-Grade Tank, or
Propos	ed Alternative Method Permit or Closure Plan Application
Type of action: Instructions: Please submit one and Please be advised that approval reliable environment. Nor does approval r	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 pelication (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request fithis request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the leve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. A Cas Company LP
Surface Owner: Federal	X State Private Tribal Trust or Indian Allotment
Permanent Emergency C Lined Unlined Li String-Reinforced	kover Cavitation P&A ner type: Thickness mil LLDPE HDPE PVC Other actory Other Volume: bbl Dimensions L x W x D
Type of Operation: P&A Drying Pad Above Ground Unlined Line	ion H of 19.15.17.11 NMAC Drilling a new well
Tank Construction material: Secondary containment with leak de Visible sidewalls and liner Liner Type: Thickness	bl Type of fluid: Produced Water Metal
5 Alternative Method: Submittal of an exception request is rec	united. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

,(
	Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)											
	Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)											
	Four foot height, four strands of barbed wire evenly spaced between one and four feet											
	X Alternate. Please specify 4' hog wire fencing topped with two strands barbed wire.											
	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 con-	sideration of a	nnessal									
	(Fencing/BGT Liner)	sideration of a	pprovar.									
	Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.											
1	0											
	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.											
			E V									
	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	Yes	XNo									
	lake (measured from the ordinary high-water mark).											
	- Topographic map; Visual inspection (certification) of the proposed site	_										
	Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	X No									
	(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									
	purposes, or within 1000 nortzonial teet of any other tresh water wen or spring, in existence at the time of initial application.											
	- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.											
	Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes	X No									
	 adopted pursuant to NMSA 1978, Section 3-27-3, as amended Written confirmation or verification from the municipality; Written approval obtained from the municipality 											
	Within 500 feet of a wetland.	Yes	X No									
	- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	П.,										
	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	X No									
	- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological											
	Society; Topographic map	П.,	Er.									
	Within a 100-year floodplain - FEMA map	Yes	X No									

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 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
12
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that 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 Ouality 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
Crosure Frain - based upon the appropriate requirements of Subsection C of 17.13.17.3 NAMAC and 17.13.17.13 NAMAC
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System Alternative
Proposed Closure Method: X Waste Excavation and Removal (Below-Grade Tank)
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection 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

Form C-144 Oil Conservation Division

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Water Removal Cloquer For Chooch Soog Systems That United Alerey Ground Steel, Tanks or Hand-dill Bins Only; 19:13.7 ISD NMAC Water Steel											
Disposal Facility Name: Disposal Facility Permit #:	Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Instructions: Please identify the facility or facilities for the disposal of liquids, drilling flu	Fanks or Haul-off Bins Only: (19.15.17.13.D NMAC) uids and drill cuttings. Use attachment if more than two fa	acilities								
Disposal Facility Name: Vall may of the poposed closed slope system operations and associated activities occur on or in areas that will not be used for future service and operations?		Disposal Facility Permit #:									
Ves. If tys., belase provide the information No											
Site Rechill and Cover Design Specification - based upon the appropriate requirements of Subsection 16 19.15.17.13 NMAC	Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information No										
Siting Criterian (Regardting on-site closure methods only: 1915.17.10 NMAC Internations East as ling criteria more require administrative approach of the state in the construction of acceptable source material are provided below. Requests regarding changes to creative sings criteria more require administrative approach of the design of the construction of the cons	Soil Backfill and Cover Design Specification - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection	on I of 19.15.17.13 NMAC	2								
NM Office of the State Engineer - IWATERS database search; USGS: Data obtained from nearby wells N/A Who office of the State Engineer - IWATERS database search; USGS; Data obtained from nearby wells N/A Who office of the State Engineer - IWATERS database search; USGS; Data obtained from nearby wells N/A Work office of the State Engineer - IWATERS database search; USGS; Data obtained from nearby wells N/A Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (neasured from the ordinary high-water mark). Topographic map; Visual impection (certification) of the proposed site Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo: satellite image Within 200 horizontal feet of a private, domestic fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - IWATERS database; Visual inspection (certification) of the proposed site within incorporation or writing municipal plounding or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - IWATERS database; Visual inspection (certification) of the proposed site within incorporation or writing municipal particular or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of the initial application. - Written confirmation or verification from the municipality; Written approval obtained from the municipality within account of the proposed site within incorporation or verification from the municipality; Written approval obtained from the municipality within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Within a 1000-year	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. Receptain siting criteria may require administrative approval from the appropriate district office or to the control of th	may be considered an exception which must be submitted to the									
Ground water is between 50 and 100 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells N/A Ves	Ground water is less than 50 feet below the bottom of the buried waste.	×	Yes	No							
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Ves	- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained	ed from nearby wells	N/A								
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Ves	Ground water is between 50 and 100 feet below the bottom of the buried waste	1.5	□Yes	No							
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Visual inspection (certification) of the proposed site; Aerial photo; satellite image Yes No											
Yes No No Within 500 horizontal 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 fee of any other fresh water well or spring, in existence at the time of the initial application NM Office of the State Engineer - iWATERS database; 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 NMAS 1978, Section 3-27-3, as amended 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 Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unbastle area Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources: USGS; NM Geological Society; Topographic map Within a 100-year floodplain FEMA map 10-Site Closure Plan Checklist; (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) 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 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropr		Yes	No								
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Within the area overlying a subsurface mine. - Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society: Topographic map Within a 100-year floodplain. - FEMA map Within a 100-year floodplain. - FEMA map Within a 100-year floodplain. - FEMA map Is On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements 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 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 Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	• • •		Yes	□No							
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Within a 100-year floodplain. - FEMA map Is On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements 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 pad) - 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 Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC	- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspect	ion (certification) of the proposed site									
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Within a 100-year floodplain. - FEMA map 18 On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.13 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements 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 pad) - 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 Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC			Yes	No							
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Within a 100-year floodplain. FEMA map Tem	- Engineering measures incorporated into the design; NM Bureau of Geology & Mine	ral Resources; USGS; NM Geological Society;	Lifes	Пио							
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Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC			not be achieve	d)							

Operator Application Certification:		
I hereby certify that the information submitted with this application is true, accur	rate and complete to the	best of my knowledge and belief.
Name (Print): Crystal Tafoya	Title:	Regulatory Technician
Signature: Carotal Tolora	Date:	12/22/2008
e-mail address: crystal.ta/oya@conocophillips.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 Perm	it Number:
Closure Report (required within 60 days of closure completion): Subse Instructions: Operators are required to obtain an approved closure plan prior to report is required to be submitted to the division within 60 days of the completion approved closure plan has been obtained and the closure activities have been continuous continu	implementing any closu n of the closure activities impleted.	re activities and submitting the closure report. The closure
22		
Closure Method: Waste Excavation and Removal On-site Closure Method If different from approved plan, please explain.	Alternative Closure	Method Waste Removal (Closed-loop systems only)
23 Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please identify the facility or facilities for where the liquids, drilli were utilized.		
Disposal Facility Name:	Disposal Facility	Permit Number:
Disposal Facility Name:	Disposal Facility	Permit Number:
Were the closed-loop system operations and associated activities performed o	n or in areas that will not	be used for future service and opeartions?
Yes (If yes, please demonstrate complilane to the items below)]No	
Required for impacted areas which will not be used for future service and ope	erations:	
Site Reclamation (Photo Documentation)		
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
Closure Report Attachment Checklist: Instructions: Each of the followith the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (if applicable) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude:	wing items must be attack	ched to the closure report. Please indicate, by a check mark in NAD 1927 1983
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure the closure complies with all applicable closure requirements and conditions specified.		
Name (Print):	Title:	
Signature:	Date:	<u> </u>
e-mail address:	Telephone:	

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 29N Range	e: 11W Sections:
NAD27 X: Y:	Zone: Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First)	(Last) C Non-Domestic C Domestic 6 All
POD / Surface Data Report	Avg Depth to Water Report Water Column Report

WATER COLUMN REPORT 08/20/2008

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

	(quarter	s are	bi	gge	est	to	smallest)			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	q	P	P	Zone	x		Y	Well	Water	Column		
SJ 00867	29N	11W		4							77	55	22		
SJ 01302	29N	11W	07	4	1						250	210	40		
SJ 01891	29N	11W	07	4	1	3					157				
SJ 01851	29N	11W	10	4	4						125	48	77		
SJ 02466 S	29N	11W	11	4	3	3					65				
SJ 02466	29N	11W	11	4	3	3					66				
SJ 02991	29N	11W	13	3	4	2					60				
SJ 03136	29N	11W	13	3	4	4					20				
SJ 00987	29N	11W	13	4							415	300	115		
SJ 01426	29N	11W	14	1	4						155	10	145		
SJ 00007	29N	11W	14	2	2	3					752				
SJ 03550	29N	11W	14	3	2	1					10				
SJ 01774	29N	11W	14	3	4	2					82	6	76		
SJ 03360	29N	11W	14	3	4	2					40				
SJ 03175	29N	11W	14	4	2	1					60	24	36		
SJ 03164	29N	11W		4	2	1					75	56	19		
SJ 03733 POD1	29N	11W		4		1					64	20	44		
SJ 02378	29N	11W		4		2					75	12	63		
SJ 03579	29N	11W		4	4	1					83	30	53		
SJ 02141	29N	11W		4		4					110	40	70		
SJ 02926	29N	11W		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		4	4						50				
SJ 01641	29N	11W	19	2	2	3					120	55	65		
SJ 02026	29N	11W	19	3	1		440	000	2077	700	27	6	21		
SJ 02970	29N	11W	19	4	3	2					100	18	82		
SJ 01250	29N	11W	19	4	4						60	20	40		
SJ 02869	29N	11W	20	2	2	1					50				
SJ 00583	29N	11W	20	3	3	2					150	30	120		
SJ 01355	29N	11W	20	4	4						36	3	33		
SJ 00452	29N	11W	21								42	10	32		

SJ 01969	29N	11W 21	2			65	55	10
SJ 00701 CLW312190	29N	11W 21		2		70	14	56
SJ 00701	29N	11W 21		2 1		73		
SJ 03350	29N	11W 21		2 3		50		
SJ 01090	29N	11W 21		4		31	12	19
SJ 02863	29N	11W 21		4 1		52	20	32
SJ 03659	29N	11W 21		2 2		45	10	35
SJ 01888	29N	11W 21		2 2		47	8	39
SJ 02200	29N	11W 22	-1	4 4		60	22	38
SJ 01557	29N	11W 22	1	2		70	11	59
SJ 00796	29N	11W 22		2		50	8	42
SJ 00704	29N	11W 22		2		55	20	35
	29N	11W 22		2		68	3	65
SJ 01703		11W 22		2 3)	47	27	20
SJ 03747 POD1	29N			2 3		59	16	43
SJ 02813	29N	11W 22)		12	37
SJ 01214	29N	11W 22		3		49	10	27
SJ 00484	29N	11W 22		3 1		37		
SJ 00320	29N	11W 22		3 1		38	10	28
SJ 03532	29N	11W 22		3 3		49	14	35
SJ 00151	29N	11W 22		3 4	ŧ	45	18	27
SJ 02721	29N	11W 22		4		70	59	F.4
SJ 03503	29N	11W 22		3 3		72	18	54
SJ 02578	29N	11W 22		3 3		58	24	34
SJ 03093	29N	11W 22		3 4		42	22	20
SJ 03189	29N	11W 22		2 1		45	20	25
SJ 03188	29N	11W 22		2 2	2	45	11	34
SJ 02020	29N	11W 22		3		27	6	21
SJ 02138	29N	11W 22		2		40	7	33
SJ 02529	29N	11W 22		2 3		30	9	21
SJ 03479	29N	11W 22		2 3		43	4	39
SJ 03049	29N	11W 22		2 4	1	33	10	23
SJ 00696	29N	11W 22		3		34	12	22
SJ 01974	29N	11W 22		3		47	11	36
SJ 03567	29N	11W 23		2 3		50	22	28
SJ 03557	29N	11W 23		3 1		50	15	35
SJ 03558	29N	11W 23		3 1		50	15	35
SJ 03559	29N	11W 23		3 4	l	45	15	30
SJ 00812	29N	11W 23		4		44	-	
SJ 03546	29N	11W 23		4 2		50	15	35
SJ 03591	29N	11W 23		4 4	Ī	55	20	35
SJ 01870	29N	11W 23	2		· ·	58	30	28
SJ 03130	29N	11W 23		1 3		50	30	20
SJ 03201	29N	11W 23		1 3		60	30	30
SJ 03353	29N	11W 23		1 3	5	45	25	20
SJ 01610	29N	11W 23		2		52	25	27
SJ 01573	29N	11W 23		3		41	21	20
SJ 03073	29N	11W 23		3 :		30	2.0	10
SJ 03286	29N	11W 23		3		38	28	10
SJ 02799	29N	11W 23		1 :		56	15	41
SJ 03548	29N	11W 23		1 :		50	15	35
SJ 01962	29N	11W 24		2 2		45	12	33
SJ 03343	29N	11W 24		4	L	35	18	17
SJ 00804	29N	11W 25		4		37	25	12
SJ 01808 0-5	29N	11W 26		1 :	L	52	43	9
SJ 02121	29N	11W 27		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 4		27	6	21
SJ 00700	29N	11W 27	1	3	3	20	7	13

SJ 01808 0-4	7 8 8 5 14 15 15 11 14 12 14 11 12 14
SJ 01808 0-2 29N 11W 27	8 5 14 15 15 11 14 12 14 11 12
SJ 01808 0-3 29N 11W 27 2 2 4 4 39 34	5 14 15 15 11 14 12 14 11 12
SJ 02664 29N	14 15 15 11 14 12 14 11 12
SJ 02664 S - 2	15 15 11 14 12 14 11 12
SJ 02664 S-2 29N 11W 27 3 2 34 19	15 11 14 12 14 11 12
SJ 02664 S-3	11 14 12 14 11 12
SJ 02664 S-9 29N 11W 27 3 2 33 19	14 12 14 11 12 14
SJ 02664 S-4 29N 11W 27 3 2 33 3 19 SJ 02664 S-10 29N 11W 27 3 2 31 33 19 SJ 02664 S-5 29N 11W 27 3 2 41 30 SJ 02664 S-6 29N 11W 27 3 2 40 28 SJ 02664 S-7 29N 11W 27 3 2 35 25 SJ 02664 S-8 29N 11W 27 3 2 35 25 SJ 02664 S-8 29N 11W 27 4 2 35 25 SJ 02148 29N 11W 27 4 2 305 186 SJ 01808 0-6 29N 11W 27 4 2 1 50 SJ 03762 POD1 29N 11W 28 1 1 267348 2075529 27 15 SJ 03476 29N 11W 28 1 1 2 665 SJ 03476 29N 11W 28 1 2 1 665 SJ 03415 29N 11W 28 1 2 1 660 20 SJ 02559 29N 11W 28 1 2 1 128 115 SJ 03021 29N 11W 28 2 1 128 115 SJ 03021 29N 11W 28 2 1 128 115 SJ 03021 29N 11W 28 2 2 1 128 115 SJ 03468 29N 11W 28 2 2 367704 2073506 50 SJ 03469 29N 11W 28 2 4 3 367704 2073506 50 SJ 02713 29N 11W 28 3 1 1 266 12 SJ 02858 29N 11W 28 3 2 43 40 SJ 02714 29N 11W 28 3 2 43 40 SJ 02714 29N 11W 28 3 2 26 12 SJ 03475 29N 11W 29 4 2 4 4 4 SJ 03298 29N 11W 29 4 1 1 4 4 SJ 03298 29N 11W 29 4 1 1 4 4 SJ 03298 29N 11W 29 4 2 24 7 SJ 02182 29N 11W 29 4 2 27 11 SJ 00822 29N 11W 29 4 2 27 11 SJ 00822 29N 11W 29 4 3 1 29 4 3 1 20 4 SJ 02182 29N 11W 29 4 2 27 11 SJ 00822 29N 11W 29 4 2 27 11 SJ 00822 29N 11W 29 4 2 27 11 SJ 00822 29N 11W 29 4 2 27 11 SJ 02182 29N 11W 29 4 2 27 11 SJ 00822 29N 11W 29 4 2 27 11 SJ 00822 29N 11W 29 4 2 27 11 SJ 00822 29N 11W 29 4 3 30 30 SJ 02182 29N 11W 29 4 2 27 11 SJ 02182 29N 11W 29 4 3 30 30 30 SJ 02182 29N 11W 29 4 2 27 11 SJ 02182 29N 11W 29 4 3 30 30 30 30 SJ 02182 29N 11W 29 4 2 27 11 SJ 00822 29N 11W 29 4 3 30 30 30 30 SJ 02182 29N 11W 29 4 3 30 30 30 SJ 02182 29N 11W 29 4 3 30 30 30 SJ 02182 29N 11W 29 4 3 30 30 SJ 02182 29N 11W 29 4	12 14 11 12 14
SJ 02664 S-10 29N 11W 27 3 2 33 19 SJ 02664 S-5 29N 11W 27 3 2 41 30 SJ 02664 S-6 29N 11W 27 3 2 40 28 SJ 02664 S-7 29N 11W 27 3 2 37 23 SJ 02664 S-8 29N 11W 27 3 2 35 25 SJ 02148 29N 11W 27 4 2 305 186 SJ 01808 0-6 29N 11W 28 1 1 267348 2075529 27 15 SJ 03476 29N 11W 28 1 1 267348 2075529 27 15 SJ 03476 29N 11W 28 1 1 2 60 20 SJ 03455 29N 11W 28 1 2 4 15 7 SJ 02330 29N 11W 28 2 1 128 115 SJ 03021 29N 11W 28 2 1 128 115 SJ 03468 29N 11W 28 2 4 367704 2073506 50 SJ 03469 29N 11W 28 3 1 26 12 SJ 02713 29N 11W 28 3 1 26 12 SJ 02714 29N 11W 28 3 2 4 367704 2073506 50 SJ 02714 29N 11W 28 3 2 4 367704 2073506 50 SJ 03475 29N 11W 28 3 2 4 367704 2073506 50 SJ 03475 29N 11W 28 3 2 4 3 40 SJ 03475 29N 11W 28 3 2 4 4 4 SJ 03298 29N 11W 29 4 1 4 4 SJ 03298 29N 11W 29 4 1 70 6 SJ 02023 29N 11W 29 4 1 70 6 SJ 02023 29N 11W 29 4 1 70 6 SJ 02023 29N 11W 29 4 1 70 6 SJ 02023 29N 11W 29 4 1 70 6 SJ 02023 29N 11W 29 4 1 70 6 SJ 02023 29N 11W 29 4 1 70 6 SJ 02023 29N 11W 29 4 1 70 6 SJ 02023 29N 11W 29 4 1 70 6 SJ 02023 29N 11W 29 4 1 70 6 SJ 02023 29N 11W 29 4 1 70 6 SJ 02023 29N 11W 29 4 1 70 6 SJ 02023 29N 11W 29 4 1 70 6 SJ 02023 29N 11W 29 4 2 2 2 2 2 SJ 00822 29N 11W 29 4 1 3 3 3 3 3 3 3 3 3	14 11 12 14
SJ 02664 S-5 29N 11W 27 3 2 41 30	11 12 14
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Record Count: 145

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 29N Range NAD27 X: Y:		ch Radius:
County: Basin:	Number:	Suffix:
Owner Name: (First)	(Last) C Non-I	Domestic C Domestic 6 All
POD / Surface Data Report	Avg Depth to Water Report	Water Column Report

WATER COLUMN REPORT 08/20/2008

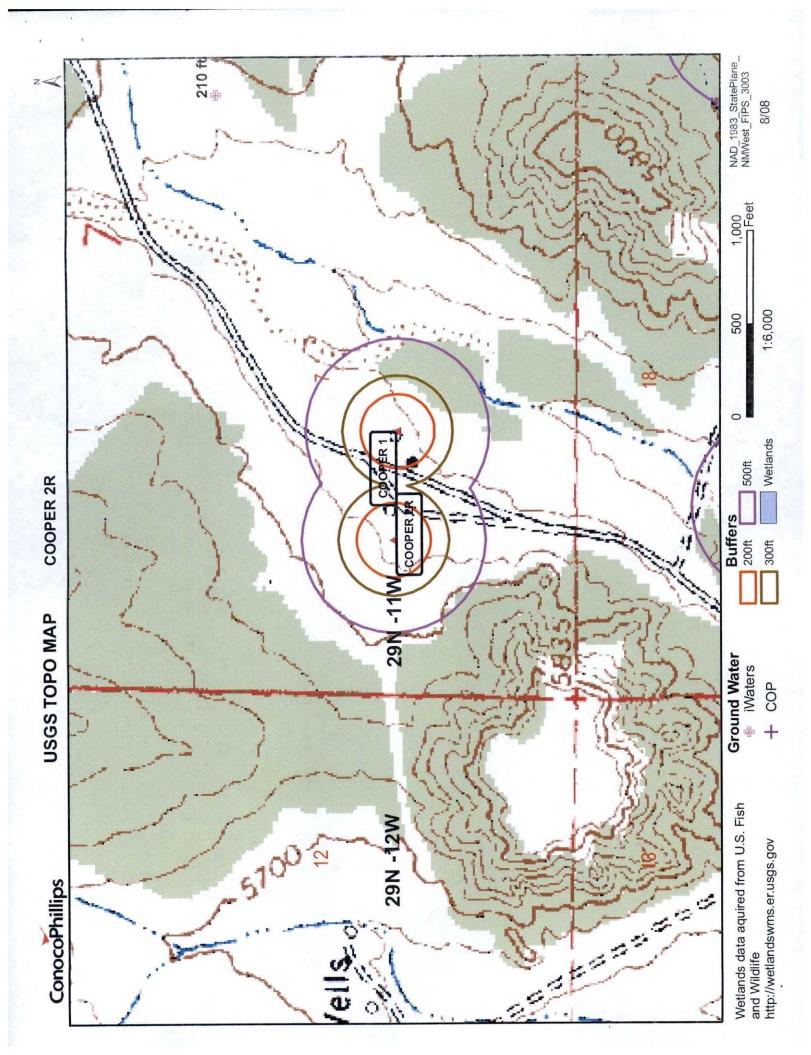
								W 4=SE)								
								allest)				Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng		q	P	q	Zo	ne	x		Y	Well	Water	Column		
RG 13104	29N	12W										70	35	35		
RG 42195	29N	12W		2	2	2						100	40	60		
RG 27250	29N	12W		1								85	40	45		
RG 36980	29N	12W		1								113	40	73		
RG 42665	29N	12W	13									140	105	35		
SJ 03277	29N	12W	01	1	2	4						180	120	60		
SJ 01031	29N	12W	04	2	1							275	172	103		
SJ 01504	29N	12W	04	2	1							180	155	25		
SJ 02851	29N	12W	04	2	1	1						370	310	60		
SJ 03293	29N	12W	05	1	1	4						68	45	23		
SJ 00881	29N	12W	06	1	2	2						137	18	119		
SJ 03528	29N	12W	06	1	2	4						21	5	16		
SJ 01894	29N	12W	06	1	3							29	28	1		
SJ 01385	29N	12W	06	1	3	4						31	4	27		
SJ 03529	29N	12W	06	1	4	1						21	5	16		
SJ 03186	29N	12W	06	2	4	1						21	8	13		
SJ 01662	29N	12W	06	3	3	1						25	8	17		
SJ 00254	29N	12W	06	3	3	2						90	26	64		
SJ 03205	29N	12W	06	3	3	4						127	118	9		
SJ 01383	29N	12W	07	1								125	80	45		
SJ 00121	29N	12W		1	1							160	90	70		
SJ 03553	29N	12W		1	2	2						150		, ,		
SJ 03061	29N	12W		3	1	2						280	180	100		
SJ 01566 CLW227534	29N	12W		3	1							105	60	45		
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SJ 03410	29N	12W			3	Δ						75	1/3	3 /		
SJ 00548	29N	12W		1		1						180	60	120		
SJ 03414	29N	12W		1		2		26526	56 2	08620	0		60	120		
SJ 01510	29N	12W		-		3		20020	2 2	00020	10	25	25	0.0		
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SJ 03569	29N	12W			1							150				
SJ 03370	29N	12W	TD	4	2	2						166	86	80		

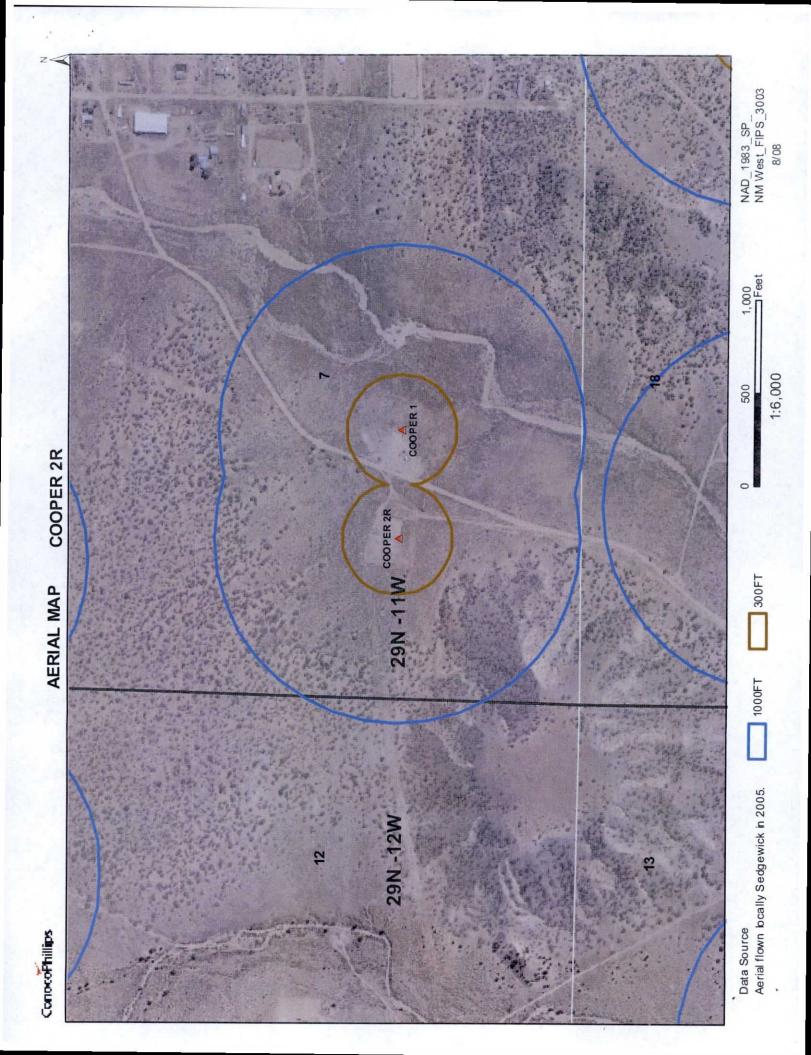
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SJ 03564	29N	12W		4	1	3			100		
SJ 03563	29N	12W		4	1	3			100		
SJ 00657	29N	12W		4		4			85	38	47
SJ 03363	29N	12W		4	3				19	3	16
SJ 01070	29N	12W		4	3				38	14	24
SJ 03151	_ 29N	12W		4	3	1			50		100
SJ 03270	_ 29N	12W		4	3	2			43	24	19
SJ 03255	29N	12W		4		4			17	5	12
SJ 00952	_ 29N	12W		4	4	-			76	40	36
SJ 03372	_ 29N	12W		4	4	3			10	2	8
SJ 00338	_ 29N	12W		3	3	3			28	10	18
SJ 02131 S	29N	12W		3	3	2			400	105	115
SJ 02363	_ 29N	12W		4	4				300	185	115
SJ 01597	29N	12W		3	2				40	15	25
SJ 02555	29N 29N	12W 12W		3	3				21	6	15
SJ 00400 SJ 03735 POD1	29N	12W		3	4	1			83 100	35 15	48 85
SJ 03507	29N	12W		3		1			60	13	00
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SJ 00652	29N	12W		1	4				42	20	22
SJ 01322	29N	12W		1	4				42	20	22
SJ 00617	29N	12W		1	4	3			47	20	27
SJ 01466	29N	12W		2	4	,			27	14	13
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SJ 02074	29N	12W 27	2					60	25	35
SJ 01643	29N	12W 27	2					65	30	35
SJ 02274	29N	12W 27	2		4			47	22	25
SJ 03394	29N	12W 27	2		4			59	15	44
SJ 01700	29N	12W 27	3					87	48	39
SJ 00572	29N	12W 27	3					35	28	7
SJ 01728	29N	12W 27	3		-			25	11	14
SJ 01690	29N	12W 27	3		1			25	10	15
SJ 00904	29N	12W 27	3					32	14	18
SJ 00901	29N	12W 27 12W 27	3			264678	2071012	32	15	17
SJ 03792 POD1	29N		3		1	2040/8	2071912	21	10	11
SJ 03105	29N	12W 27 12W 27	3		2			19	9	10
SJ 02183 SJ 02506	29N 29N	12W 27	4		2			44	26 20	14 24
SJ 02502	29N	12W 27	4					40	20	24
SJ 02640	29N	12W 27	4					31	18	13
SJ 03376	29N	12W 27	4		3			27	13	14
SJ 01133	29N	12W 27	4					24	7	17
SJ 02969	29N	12W 27	4					40		1,
SJ 01991	29N	12W 27	4					50	13	37
SJ 02061	29N	12W 28	4					39	23	16
SJ 02047	29N	12W 28	4					40	25	15
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SJ 02864	29N	12W 28	4	2	2			50		
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SJ 03168	29N	12W 29		2				21	10	11
SJ 03169	29N 29N	12W 29		2				21	10	11
SJ 03634		12W 29		2				18	10	8
SJ 02370	29N 29N	12W 29 12W 29	1		2 4			16 20	5	11 12
SJ 00711	29N		1		2			17		
SJ 00833	29N	12W 29 12W 29		3				17	9	8
SJ 02497										9
SJ 02501	29N 29N	12W 29 12W 29	1		2			17	17	
SJ 00961 SJ 00966	29N	12W 29		3				18	2	15
SJ 03711 POD1	29N	12W 29		4				20	3 8	12
SJ 01517	29N 29N	12W 29	2		T			20	8	12
SJ 01695	29N	12W 30		2				13	4	9
20 01032	ZJIN	TZW 20	4	4				13	4	9

5	J 00	872		29N	12W	30	2	2			
5	J 01	1442		29N	12W	30	2	2			
5	J 01	1565		29N	12W	30	2	2			
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5	J 01	1775		29N	12W	34	1	1			
2	J 03	3312		29N	12W	34	2	1	4		
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S	J 02	2638		29N	12W	35	4	1	1		
S	J 03	3192		29N	12W	36	1	3	1		
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S	J 03	3299		29N	12W	36	2	4	3		
S	J 03	3686 1	POD1	29N	12W	36	2	4	3		
S	J 03	3439		29N	12W	36	3	2	4		
S	J 02	950		29N	12W	36	4	1	3		
S	J 02	2849		29N	12W	36	4	2	1		
S	J 02	872		29N	12W	36	4	2	1		
S	J 03	024		29N	12W	36	4	2	1		
S	J 03	011		29N	12W	36	4	2	1		
S	J 03	007		29N	12W	36	4	2	3		
S	J 02	850	II.	29N	12W	36	4	2	3		
S	J 02	338		29N	12W	36	4	3	2		
S	J 02	633		29N	12W	36	4	4	1		

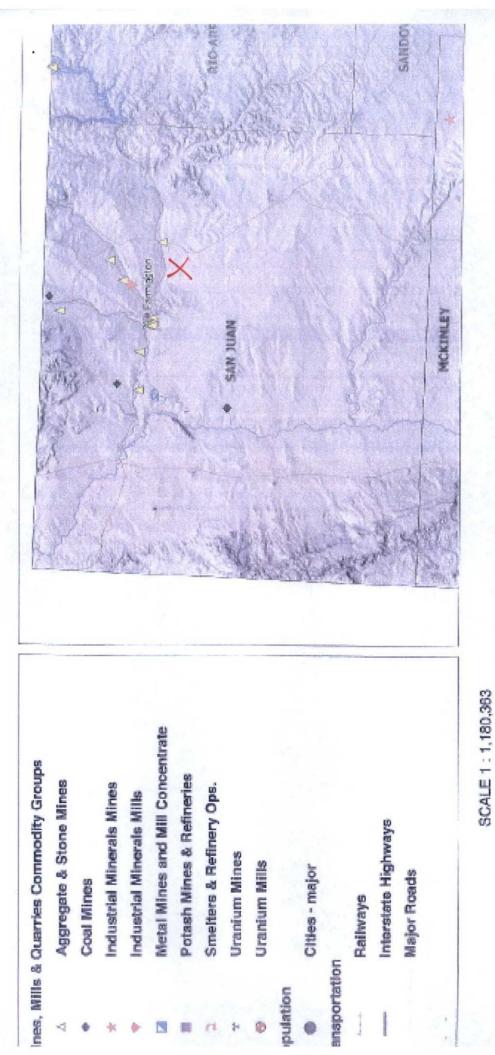
Record Count: 180





Mines, Mills and Quarries Web Map

Unit Letter: M, Section: 07, Town: 029N, Range: 011W



4

MILES

APPROXIMATE SCALE NATIONAL FLOOD INSURANCE PROGRAM EFFECTIVE DATE: AUGUST 4, 1988 PANEL 550 OF 1450 (SEE MAP INDEX FOR PANELS NOT PRINTED) COMMUNITY-PANEL NUMBER 350064 0550 8 FLOOD INSURANCE RATE MAP SAN JUAN COUNTY, NEW MEXICO UNINCORPORATED AREAS PANEL LOCATION (15) 705 ZONE A-MALE. 811 M T30 N 12

JOINS PANEL 0510

COOSER # DR

COOPER 2R

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'COOPER 2R', which is located at 36.73573 degrees North latitude and 108.03806 degrees West longitude. This location is located on the Horn Canyon 7.5' USGS topographic quadrangle. This location is in section 7 of Township 29 North Range 12 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Bloomfield, located 3.3 miles to the southeast. The nearest large town (population greater than 10,000) is Farmington, located 9.3 miles to the west (National Atlas). The nearest highway is US Highway 64, located 2.2 miles to the southeast. The location is on BLM land and is 1,640 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 1730 meters or 5674 feet above sea level and receives 10 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 120 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 765 feet to the southeast and is classified by the USGS as an intermittent stream. The nearest perennial stream is 796 feet to the east. The nearest water body is 7,387 feet to the southeast. It is classified by the USGS as a perennial lake and is 0.2 acres in size. The nearest spring is 24,313 feet to the northwest. 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 1,946 feet to the east. The nearest wetland is a 5.3 acre Ravine located 3,181 feet to the south. The slope at this location is 2 degrees to the southeast as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION--Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is '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 12.2 miles to the west 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.

TO BOUR ROWATONOUS BIRE!

Manco Chiefado Arzona.

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.

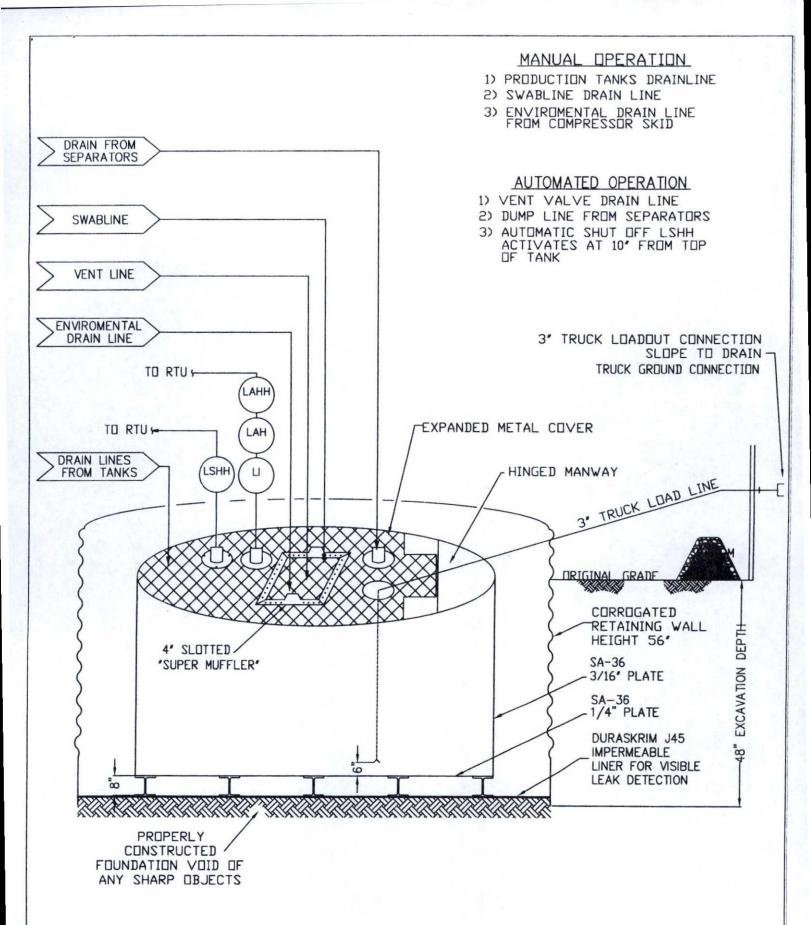
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR'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:

- BR 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.
- BR signage will comply with 19.15.3.103 NMAC when BR is the operator. If BR is not the operator it will comply with 19.15.17.11NMAC. BR includes Emergency Contact information on all signage.
- 3. BR has approval to use alternative fencing that provides better protection. BR 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. BR ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- 4. BR will construct a screened, expanded metal covering, on the top of the BGT.
- BR 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.
- The BR 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. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR 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. BR 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. BR 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 BR 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 BR's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- The general specification for design and construction are attached in the BR document.



ConocoPhillips

San Juan Business Unit

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

DURI-SKRIM®

J30, J36 & J45

PROPERTIES	TEST METHOD	J30BB J36BB J45BB							
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages		
Appearance	Blac	k/Black	Black	/Black	Black/Black				
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil		
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)		
Construction		**Extr	usion laminated	with encapsula	ted tri-direction	al scrim reinford	cement		
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs		
1" Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD		
1" Tensile Elongation @ Break % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD		
1" Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD		
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD		
Grab Tensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD		
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD		
* Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5		
Puncture Resistance	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf		
Maximum Use Temperature		180° F							
Minimum Use Temperature		-70° F							

MD = Machine Direction DD = Diagonal Directions



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

*Dimensional Stability Maximum Value

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

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

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

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

RAVEN

08/06

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

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

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

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

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

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

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

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

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

Burlington Resources Oil & Gas Company, LP 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 Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

- BR 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.
 BR 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.
- BR will not discharge into or store any hazardous waste in the BGT.
- 3. BR shall operate and install the below-grade tank to prevent the collection of surface water run-on. BR has built in shut off devices that do not allow a belowgrade tank to overflow. BR 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, BR 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, BR's multi-skilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, BR 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.
- BR 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 BR shall remove all liquid above the damage or leak line within 48 hours. BR shall notify the appropriate district office. BR 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, BR shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. BR 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.

Burlington Resources Oil & Gas Company, LP 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 Burlington Resources Oil & Gas Company, LP locations hereinafter known as BR locations. This is BR'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. BR 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, BR will file the C144 Closure Report as required.
- 2. BR 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. BR 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 BR shall remove the equipment, unless the equipment is required for some other purpose.
- 5. BR shall test the soils beneath the below-grade tank to determine whether a release has occurred. BR 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. BR shall notify the division of its results on form C-141.
- 6. If BR or the division determines that a release has occurred, then BR 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 BR 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 BR'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. BR 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. BR 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

OCD Aztec District III Conoco Phillips/Burlington Checklist Below Grade Tank Registration

19.15.17.9 Permit application
☑ Signed C-144 (Page 5 of C-144)
Site Specific Hydrogeology
10 15 17 10 6'hinn naminananta
19.15.17.10 Siting requirements
New Mexico Office of State Engineer attachment
USGS TOPO map
Aerial Map
Mines, Mills and Quarries Web Map
FIRM map (flood insurance rate map from Federal Emergency Management Agency)
19.15.17.11 Design Plan Contents
Below Grade Tank Design and Construction Plan.
19.15.17.12 Operating and Maintenance Plan
Below Grade Tank Operating and Maintenance Plan
19.15.17.13 Closure Plan
Below Grade Tank Closure Plan
Requirements:
Registration Date: 2 13 2017 KC