District I

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 District IV

122

State of New Mexico **Energy Minerals and Natural Resources**

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

July 21, 2008 For temporary pits, closed-loop sytems, and below-grade

Form C-144

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:	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 a	application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request									
•	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 reli	ieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.									
Operator: Burlington Resources Oi	il & Gas Company, LP OGRID#: 14538									
Address: PO Box 4289, Farmington	on, NM 87499									
Facility or well name: RANDLEM	AN 1									
API Number:	3004510698 OCD Permit Number:									
U/L or Qtr/Qtr: K Section	on: 13 Township: 31N Range: 11W County: San Juan									
Center of Proposed Design: Latitude	e:									
Surface Owner: Federal	State X Private Tribal Trust or Indian Allotment									
Lined Unlined Li String-Reinforced										
Type of Operation: P&A Drying Pad Above Ground Lined Unlined Line	ion H of 19.15.17.11 NMAC Drilling a new well									
X Below-grade tank: Subsection Volume: 120 b 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 required. 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:	ideration of an	provol						
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consi (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	ucration of ap	ргочаг.						
Exception(s): Requests must be submitted to the Santa Pe Environmental Bureau office for consideration of approval.								
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.								
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	X No						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo						
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□vas	Пма						
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits)	Yes XNA	∐No						
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering 	∏Yes	XNo						
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.		AINO						
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.	_	_						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	XNo						
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo						
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	☐Yes	X No						
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes	XNo						
Within a 100-year floodplain - FEMA map	Yes	XNo						

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.										
Table 10 Table 20 Table 20										
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC										
Tryatogeologic Data (Temporary and Emergency Fiss) - based upon the requirements of 19.15.17.10 NMAC										
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC										
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC										
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC										
Previously Approved Design (attach copy of design) API or Permit										
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9										
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC										
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC										
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC										
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC										
Previously Approved Design (attach copy of design) API										
Previously Approved Operating and Maintenance Plan API										
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC										
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC										
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC										
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC										
Quality Control/Quality Assurance Construction and Installation Plan										
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC										
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC										
Nuisance or Hazardous Odors, including H2S, Prevention Plan										
Emergency Response Plan										
Oil Field Waste Stream Characterization										
Monitoring and Inspection Plan										
Erosion Control Plan										
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC										
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 1 of 19.15.17.13 NMAC										
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC										

16 Wasta Ramayal Clasura For Clased loop Systems That Utiliza Above Cround Steel Tanks	es or Houland Ring Only (19 15 17 13 D NMAC)								
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tank Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids a are required.	and drill cuttings. Use attachment if more than two facilities								
Disposal Facility Name: Dispo	osal Facility Permit #:								
Disposal Facility Name: Dispo	osal Facility Permit #:								
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									
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection 1 Site Reclamation Plan - based upon the appropriate requirements of Subsection	of 19.15.17.13 NMAC								
17 Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC									
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recomm certain siting criteria may require administrative approval from the appropriate district office or may lefor consideration of approval. Justifications and/or demonstrations of equivalency are required. Please	be considered an exception which must be submitted to the Santa Fe Envi								
Ground water is less than 50 feet below the bottom of the buried waste.	Ye	s No							
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from	om nearby wells	4							
Ground water is between 50 and 100 feet below the bottom of the buried waste	Ye	s No							
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained fro	om nearby wells	4							
Ground water is more than 100 feet below the bottom of the buried waste.	Υe	s No							
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained fro	om nearby wells	A							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant wa (measured from the ordinary high-water mark).	tercourse or lakebed, sinkhole, or playa lake	s No							
- Topographic map; Visual inspection (certification) of the proposed site									
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	ce at the time of initial application.	s ∐No							
	Ye	s ∐No							
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five less purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database; Visual inspection (certification) of the State Engineer - iWATERS database - iWATER	the time of the initial application.								
Within incorporated municipal boundaries or within a defined municipal fresh water well field pursuant to NMSA 1978, Section 3-27-3, as amended.		s No							
 Written confirmation or verification from the municipality; Written approval obtained fr Within 500 feet of a wetland 	om the municipality								
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (, <u> </u>								
Within the area overlying a subsurface mine.	Ŭ Ye:	s No							
- Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral	Division								
Within an unstable area.	Yes	s ∐No							
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral R Topographic map 	esources; USGS; NM Geological Society:								
Within a 100-year floodplain. - FEMA map	Ye	s No							
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.	following items must bee attached to the closure plan. Ple	ase indicate,							
Siting Criteria Compliance Demonstrations - based upon the appropriate requir	rements of 19.15.17.10 NMAC								
Proof of Surface Owner Notice - based upon the appropriate requirements of S									
Construction/Design Plan of Burial Trench (if applicable) based upon the appr	opriate requirements of 19.15.17.11 NMAC								
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad		NMAC							
Protocols and Procedures - based upon the appropriate requirements of 19.15.1	7.13 NMAC								
Confirmation Sampling Plan (if applicable) - based upon the appropriate requir	rements of Subsection F of 19.15.17.13 NMAC								
Waste Material Sampling Plan - based upon the appropriate requirements of Su	absection F of 19.15.17.13 NMAC								
Disposal Facility Name and Permit Number (for liquids, drilling fluids and dril		eved)							
Soil Cover Design - based upon the appropriate requirements of Subsection H									
Re-vegetation Plan - based upon the appropriate requirements of Subsection I on Site Reclamation Plan - based upon the appropriate requirements of Subsection									

Form C-144 Oil Conservation Division Page 4 of 5

19				
Operator Application C			r e e la la e allabate	
	ormation submitted with this application is true, acc			
Name (Print):	Crystal Tafoya	Title:	Regulatory Technician	
Signature:	Constal Jajoya	Date:	12/22/2008	
e-mail address:	crystal.tafoya@conecophillips.com	Telephone:	505-326-9837	
20		l a		
OCD Approval:	ermit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)	
OCD Representative Si	gnature:		Approval Date:	
Title:		OCD Perm	nit Number:	
21				
	ed within 60 days of closure completion); Su	hsection K of 19.15.17.13 NMAC		
Instructions: Operators are	e required to obtain an approved closure plan prior	to implementing any closu	ire activities and submitting the closure report. The closure	
	• • •	-	s. Please do not complete this section of the form until an	
approved closure plan nas	been obtained and the closure activities have been	· —	G 14 P	
		☐ Closure	e Completion Date:	
22				
Closure Method:				
Waste Excavation a	and Removal On-site Closure Method	Alternative Closure	Method Waste Removal (Closed-loop systems only)	
If different from ap	proved plan, please explain.			
23				
_ ·	g Waste Removal Closure For Closed-loop System	ms That Utilize Above Gr	ound Steel Tanks or Haul-off Bins Only:	
			ngs were disposed. Use attachment if more than two facilities	
were utilized.				
Disposal Facility Name	:	Disposal Facility	Permit Number:	
Disposal Facility Name		• • •	Permit Number:	
	ystem operations and associated activities performed	_	or be used for future service and opeartions?	
1 —	demonstrate compliane to the items below)	∐No		
· ' ' '	areas which will not be used for future service and a Photo Documentation)	operations:		
Soil Backfilling and				
1 = 1	lication Rates and Seeding Technique			
	Total Care Care Care Care Care Care Care Care			
Closure Penert Atte	schmont Chacklist. Instructions: Each of the fo	Howing items must be atta	iched to the closure report. Please indicate, by a check mark in	
the box, that the docum		nowing nems musi ve una	icheu to the closure report. I teuse thuiche, by a check mark in	
Proof of Closure	Notice (surface owner and division)			
Proof of Deed No	otice (required for on-site closure)			
Plot Plan (for on-	site closures and temporary pits)			
Confirmation San	npling Analytical Results (if applicable)			
Waste Material S	ampling Analytical Results (if applicable)			
· =	Name and Permit Number			
= '	nd Cover Installation			
<u> </u>	plication Rates and Seeding Technique			
Site Reclamation	(Photo Documentation)			
On-site Closure L	ocation: Latitude:	Longitude:	NAD 1927 1983	
25				
Operator Closure Certi	ification:			
		re report is ture, accurate	and complete to the best of my knowledge and belief. I also certify th	ıat
the closure complies with a	all applicable closure requirements and conditions s	specified in the approved c	losure plan.	
Name (Print):		Title:		
Signature:		Date:		
e-mail address:		Telephone:		

Form C-144 Oil Conservation Division Page 5 of 5

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 31N	Range: 11W	Sections:		
NAD27 X:	Y:	Zone:	Search Radius:	
County:	Basin:		Number:	Suffix:
Owner Name: (First)	(Las	st) _.	○ Non-Domestic	ODomestic
POD / Sui	rface Data Report Wate	r Column Rep	Avg Depth to Water Report	כ
[Clear Form	iWATERS	Menu Help	

WATER COLUMN REPORT 12/16/2008

(qu	ıarter	s are 1=	NW	2=	:NE 3=SW 4=SE)					
(qı	arter	s are bi	gge	est	to smallest)			Depth	Depth	Wat∈
POD Number	Tws	Rng Sec	q	q	q Zone	x	Y	Well	Water	Colum
SJ 02395	_ 31N	11W 13	1	1	3			95	35	6
SJ 00560	_ 31N	11W 13	2	4				39	25	1
SJ 01551	31N	11W 13	2	4				64	42	2
SJ 01729	_ 31N	11W 13	2	4				48	28	2
SJ 01640	_ 31N	11W 13	2	4				32	7	2
SJ 01539	_ 31N	11W 13	3					52	30	2
SJ 01541	31N	11W 13	3					52	30	2
SJ 00946	31N	11W 13	3	3				135	100	3
SJ 01879	31N	11W 13	4					26	8	1
SJ 01540	_ 31N	11W 13	4					52	30	2
SJ 01801	31N	11W 13	4					22	15	
SJ 03412	_ 31N	11W 13	4	2				60		
SJ 03413	_31N	11W 13	4	2				60		
SJ 03736 POD1	_ 31N	11W 13	4		1			19	6	1
SJ 02495	_ 31N	11W 13	4	2	1			28	12	1
SJ 03623	_ 31N	11W 13	4	2	1			30	16	1
SJ 03264	_ 31N	11W 13	4	2	2			20	11	
SJ 03125	31N	11W 13	4	2	4			20	5	1
SJ 03124	_ 31N	11W 13	4	2	4			20	5	1
SJ 03712 POD1	_ 31N	11W 13	4	3	1			19	11	
SJ 03670	31N	11W 13	4	3	4			26	10	1
SJ 03018	31N	11W 13	4	3	4			20	8	1
SJ 01767	31N	11W 13	4	4				42	18	2
SJ 01699	_ 31N	11W 13	4	4				42	12	3
SJ 01609	_ 31N	11W 13	4	4				40	18	2
SJ 01730	31N	11W 13	4	4				40	24	1
SJ 01537	31N	11W 13	4	4				52	28	2
SJ 02149	_ 31N	11W 13	4	4				35		

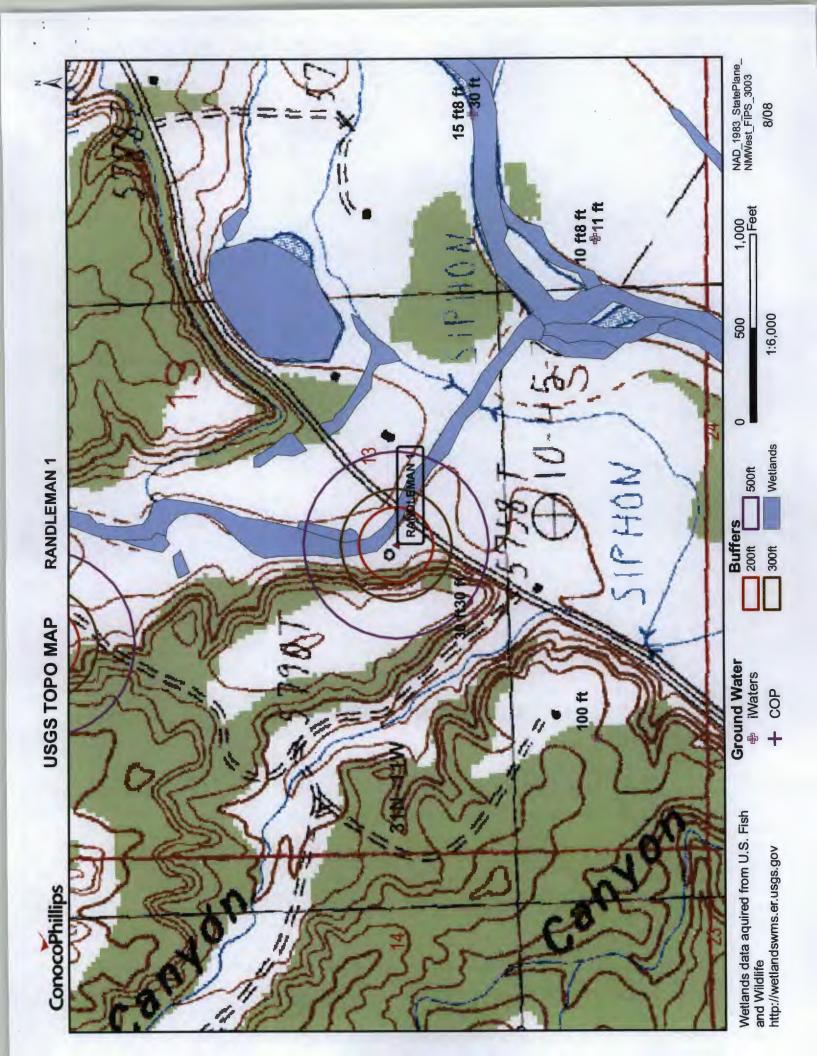
SJ 01542	_ 31N	11W 13	4 4						
SJ 01645	_ 31N	11W 13	4 4				22	6	1
SJ 01644	_ 31N	11W 13	4 4				23	6	1
SJ 01731	31N	11W 13	4 4				43	25	1
SJ 01683	31N	11W 13	4 4				45	25	2
SJ 01538	31N	11W 13	4 4				52	30	2
SJ 01663	31N	11W 13	4 4				45	25	2
SJ 02093	31N	11W 13	4 4	W	470700	2143800	40	20	2
SJ 03440	31N	11W 13	4 4 1	•••	1,0,00		20	6	1
SJ 03085	31N	11W 13	4 4 2				18	8	1
SJ 03084	31N	11W 13	4 4 2				19	11	_
SJ 03064	~	11W 13					45	11	
	31N							E	_
SJ 02801	31N	11W 13	4 4 3				36	5	3
SJ 02838	31N	11W 13	4 4 4				38	10	2
SJ 02855	31N	11W 13	4 4 4				31	_	_
SJ 01142	31N	11W 13	4 4 4				30	8	2
SJ 02289	31N	11W 13	4 4 4				45	16	2
SJ 01173	31N	11W 13	$4 \ 4 \ 4$				46	28	1
SJ 03458	31N	11W 19	3 3 4				140		
SJ 02978	31N	11W 23	2 1 3				800		
SJ 02129	31N	11W 23	2 4				72	35	3
SJ 01817	31N	11W 23	2 4				65	20	٤
SJ 02161	31N	11W 23	3 4				40	25	1
SJ 01600	31N	11W 24	1				30	6	2
SJ 02124	31N	11W 24	1 1				55	40	1
SJ 03755 POD1	31N	11W 24	1 4		269112	2142037	27	7	2
SJ 03695 POD1	31N	11W 24	1 4 2		207112	2142007	25	13	1
SJ 03695 POD	31N	11W 24	1 4 2				25	13	1
SJ 03696	31N	11W 24	1 4 2				24	12	1
	_								
SJ 03695	31N	11W 24	1 4 2				25	13	1
SJ 03696 POD1	31N	11W 24	1 4 2				24	12	1
SJ 01559	31N	11W 24	2				50	27	2
SJ 01375	_ 31N	11W 24	2 2				30	11	1
SJ 01744	31N	11W 24	2 2				4 4	20	2
SJ 01986 S	31N	11W 24	2 2 2				45	30	1
SJ 01986	31N	11W 24	2 2 2				38	21	1
SJ 00555	31N	11W 24	2 2 4				60	19	Ļ
SJ 03408	31N	11W 24	2 3 1				26	11	1
SJ 02924	_ 31N	11W 24	2 3 2				33	15	1
SJ 02928	31N	11W 24	2 3 2				70		
SJ 03650	31N	11W 24	2 3 3				32	15	1
SJ 02888	31N	11W 24	2 3 3				65		
SJ 02846	31N	11W 24	2 3 3				45	18	2
SJ 03844 POD1	31N	11W 24	2 3 3		269186	2141198	40		
SJ 03845 POD1	31N	11W 24	2 3 4		269233	2141379	40		
SJ 00555 X	31N	11W 24	2 4				58	39	1
SJ 02839	31N	11W 24	2 4 1				55	19	3
SJ 03707 POD1	31N	11W 24	2 4 1				60	40	2
SJ 02758	31N	11W 24	2 4 2				69	51	1
SJ 02791	31N	11W 24	2 4 2				74	54	
SJ 00365	31N	11W 24	2 4 4				71	40	-
SJ 00379	31N	11W 24	2 4 4				65	40	3 2
SJ 01670	31N	11W 24	3				45	27	1
SJ 00287	31N	11W 24	3 2 4				38		3
								6 3 5	٤
SJ 01553	31N	11W 24	3 4				44	35	
SJ 02171	31N	11W 24	3 4 3				45	25	2
SJ 01366	31N	11W 24	4 1				30	11	1
SJ 02644	31N	11W 24	4 1 4				45	18	2
SJ 01405	_ 31N	11W 24	4 3				30	9	2

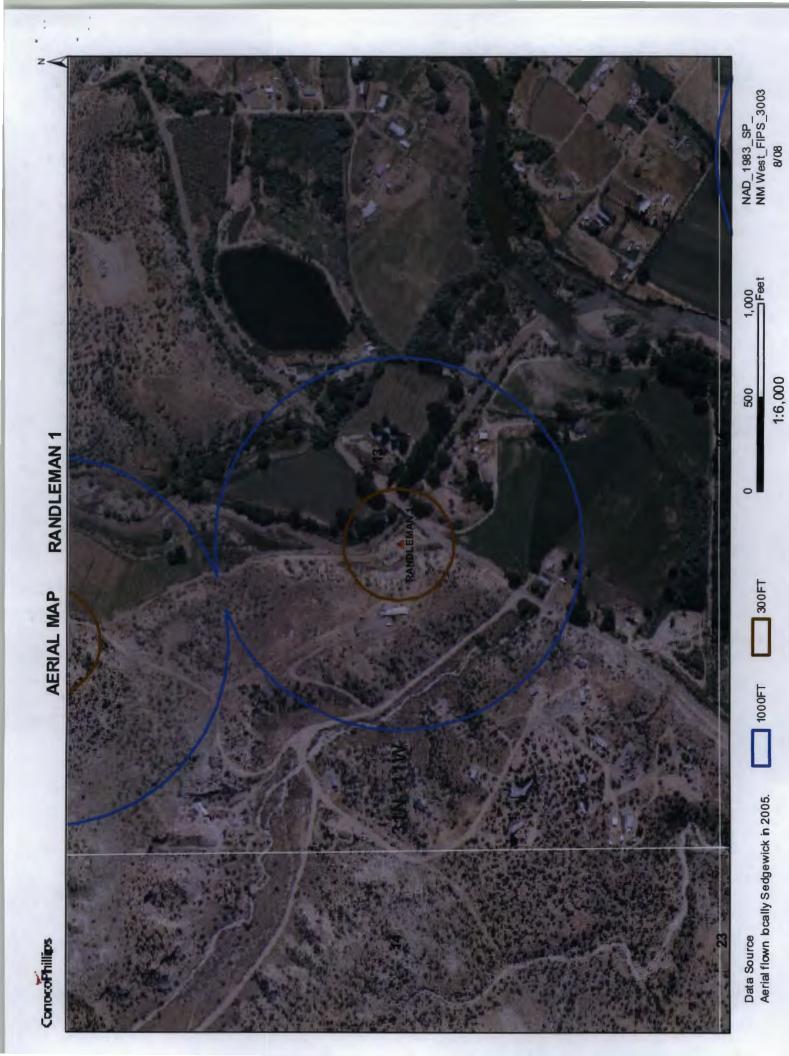
SJ 00913	31N	11W 24		3			81	55	2
SJ 01047	31N	11W 24		3 4			205	70	13
SJ 00405	31N	11W 24		3 4			69	42	2
SJ 01455	31N	11W 24	4	3 4			101	66	3
SJ 03438	31N	11W 24	4	4 4			40		
SJ 03045	31N	11W 25	_	4 4			200		
SJ 02499	31N	11W 25	_	1 1			66	45	2
SJ 03198	31N	11W 25		3 1			600	100	50
SJ 02834	31N	11W 25		3 3			200	160	4
SJ 03450	31N	11W 25		3 3			144	95	4
SJ 03126	31N	11W 26		1 1			41	21	2
SJ 01233	31N	11W 26	1	4			49	27	2
SJ 03158	31N	11W 26		4 2			280	25	25
SJ 00675	31N	11W 26		4 3			36	22	1
SJ 02887	31N	11W 26		4 4			51	28	2
SJ 02898	31N	11W 26		1 4			50		
SJ 01789	31N	11W 26		1			29	12	1
SJ 00705	31N	11W 26		1 1			18	8	1
SJ 00371	31N	11W 26		1 2			29	9	2
SJ 00363	31N	11W 26		1 4			25	5	2
SJ 03323	31N	11W 26		1 4			30	6	2
SJ 01545 X	31N	11W 26		3			27	10	1
SJ 00926	31N	11W 26		1			62	32	3
SJ 01519	31N	11W 26		2			69	47	2
SJ 00610	31N	11W 26		2			80	50	3
SJ 02011	31N	11W 26		2			55	38	1
SJ 01620	31N	11W 26		2			67	26	Ļ
SJ 01628	31N	11W 26		2			66	25	4
SJ 03697 POD1	31N	11W 26		2 3			80	50	3
SJ 00561	31N	11W 26		3			38	20	1
SJ 00562 SJ 01042	31N	11W 26 11W 26		3 4			40 100	20 30	2
SJ 00494	31N 31N	11W 26		4			88	60	2
SJ 02482	31N	11W 20	_	1 2			75	55	2
SJ 03600	31N	11W 27	_	2 1			51	39	1
SJ 03540	31N	11W 27		2 1			40	21	1
SJ 03772 POD1	31N	11W 27		2 1	268239	2135717	41	30	1
SJ 02914	31N	11W 27		2 3	200233	2100/1/	25	15	1
SJ 02468	31N	11W 27		2 3			49	30	1
SJ 02871	31N	11W 27		2 4			22	11	1
SJ 02656	31N	11W 27		2 4			21	9	1
SJ 02215	31N	11W 27		3			54	23	3
SJ 02676	31N	11W 27		3			19	7	1
SJ 03247	31N	11W 27	4	3 1			70		
SJ 02549	31N	11W 27	4	3 3			49	30	1
SJ 03505	31N	11W 27	4	3 3			50	14	3
SJ 02853	31N	11W 27	4	3 4			22	6	1
SJ 02984	31N	11W 27	4	4 1			20		
SJ 03181	31N	11W 27	4	4 1			19	10	
SJ 01884	31N	11W 30		2 3			71	30	Ź
SJ 01739	31N	11W 30		2 4			98	30	(
SJ 01154	31N	11W 30		2 4			190	150	۷
SJ 01834	31N	11W 30	4	2 4			103	30	7
SJ 01797	31N	11W 30		4			100	40	€
SJ 01396	31N	11W 30		4 1			80	57	2
SJ 00970	31N	11W 30		4 4			110	80	9 3
SJ 01811	31N	11W 31		2			89	50	
SJ 02993	31N	11W 33		3 2			280	160	12
SJ 02994	31N	11W 33	4	3 2			300	200	10

SJ 01137	31N	11W 33	4 4	4		37	19	1
SJ 02277	31N	11W 34	1 2	2		16	7	
SJ 01533	31N	11W 34	1 4	1		58	40	1
SJ 02167	31N	11W 34	1 4	4		83	69	1
SJ 01251	31N	11W 34	1 4	1		79	65	1
SJ 03211	31N	11W 34	1 4	1 1		24	14	1
SJ 01125	31N	11W 34	1 4	4 2		59	42	1
SJ 01675	31N	11W 34	2			33	7	2
SJ 01657	31N	11W 34	2			20	6	1
SJ 00656	31N	11W 34	2			30	8	2
SJ 01656	31N	11W 34	2			20	6	1
SJ 00631	31N	11W 34	2			30	11	1
SJ 00632	31N	11W 34	2			25	7	1
SJ 03448	31N	11W 34	2 :	1		41	21	2
SJ 01267	31N	11W 34	2 :			65	45	2
SJ 01618	31N	11W 34	2 :			28	8	2
SJ 01840	31N	11W 34		1 1		65	25	Ļ
SJ 00660	31N	11W 34	2 :			50	30	2
SJ 03316	31N	11W 34	2 1			30	10	2
SJ 01721	31N	11W 34	2 2			22	10	1
SJ 01768	31N	11W 34	2 2			20	6	1
SJ 03172	31N	11W 34	2 2			19	7	1
SJ 03047	31N	11W 34	2 2			19	6	1
SJ 02113	31N	11W 34	2 3			12	4	
SJ 02119	31N	11W 34	2 3			11	3	
SJ 00659	31N	11W 34	2 3			33	11	2
SJ 00661	31N	11W 34	2 3			52	32	2
SJ 02972	31N	11W 34		3 4		15	5	1
SJ 03106	31N	11W 34	2 4			25		
SJ 03107	31N	11W 34	2 4			18	8	1
SJ 03183	31N	11W 34	2 4			19	6	1
SJ 03780 POD1	31N	11W 34	3 :		267922 21303		12	1
SJ 02859	31N	11W 34	3 :			22	6	1
SJ 03065	31N	11W 34	3 2	2 3		22	7	1
SJ 02967	31N	11W 34	3 2			20	5	1
SJ 02856	31N	11W 34	3 2			24	6	1
SJ 02852	31N	11W 34	3 2			23	7	1
SJ 03025	31N	11W 34		2 3		22	5	1
SJ 03002	31N	11W 34	3 2			22		
SJ 03014	31N	11W 34		2 4		30	5	2
SJ 03220	31N	11W 34	3 3			20	6	1
SJ 02861	31N	11W 34	3 3	3 1		21	7	1
SJ 03042	31N	11W 34	3 3	3 2		23	6	1
SJ 03710 POD1	31N	11W 34	3 3	3 2		20	4	1
SJ 03048	31N	11W 34	3 3	3 4		21	4	1
SJ 02857	31N	11W 34	3 4	1 1		23	6	1
SJ 03631	31N	11W 34	3 4	1 2		27	6	2.
SJ 03493	31N	11W 34	3 4	1 2		25	15	1
SJ 03357	31N	11W 34	3 4	4 2		22	6	1
SJ 03492	31N	11W 34	3 4	4 2		30		
SJ 03609	31N	11W 34	3 4	4		27	6	2
SJ 03260	31N	11W 34	_	4 4		41	3	3
SJ 01608	31N	11W 34	4			48	17	3
SJ 03720 POD1	31N	11W 34	4]	1 3		21	6	1
SJ 03497	31N	11W 34	4 1	L 4		30	10	2
SJ 03402	31N	11W 34	4 1	L 4		25		
SJ 03377	31N	11W 34	4 2	2 4		20	2	1
SJ 03739 POD1	31N	11W 34	4 3			25	3	2
SJ 03016	31N	11W 34		3 1		35		_
	,			_				

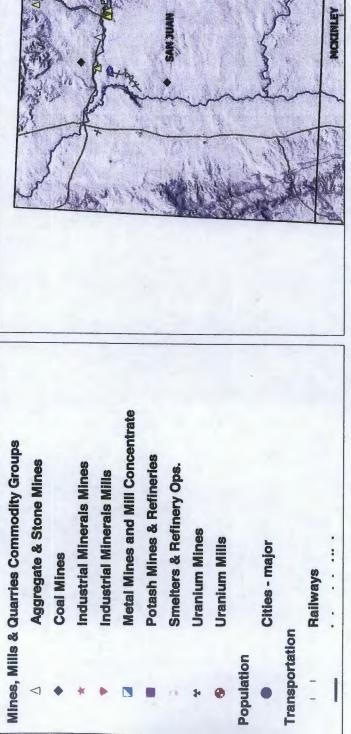
SJ 02966	31N	11W 34	4	3	3			48	20	2
SJ 00985	31N	11W 34	4	4				40	16	2
SJ 02827	31N	11W 35	1	1	2			60		
SJ 02902	31N	11W 35	1	1	3			19	5	1
SJ 03371	31N	11W 35	1	1	3			21	5	1
SJ 02897	31N	11W 35	1	3	1			17	6	1
SJ 00333	31N	11W 35	1	3	4			30	6	2
SJ 03760 POD1	31N	11W 35	1	4	1	268465	2130772	43	12	3
SJ 01144	31N	11W 35	1	4	4			55	30	2
SJ 03543	31N	11W 35	1	4	4			61	30	3
SJ 01319	31N	11W 35	2	2	2				155	
SJ 00185	31N	11W 35	2	3				54		
SJ 03676	31N	11W 35	2	3	1			52	19	3
SJ 03560	31N	11W 35	2	3	2			62	32	3
SJ 03166	31N	11W 35	2	4	4			20		
SJ 03165	31N	11W 35	2	4	4			20		
SJ 00983	31N	11W 35	3					110	70	Ļ
SJ 00939	31N	11W 35	3					60	30	3
SJ 00940	31N	11W 35	3	1				64	15	4
SJ 01580	31N	11W 35	3	1	1			65	30	3
SJ 02933	31N	11W 35	3	1	2			37	24	1
SJ 02932	31N	11W 35	3	1	2			27	14	1
SJ 03574	31N	11W 35	3	1	4			100		
SJ 00591	31N	11W 35	3	1	4			83	54	2
SJ 00939 1	31N	11W 35	3	2				60	30	3
SJ 00713	31N	11W 35	4	2				37	19	1

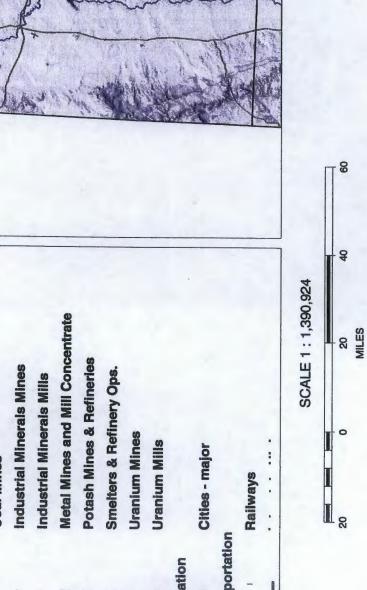
Record Count: 231



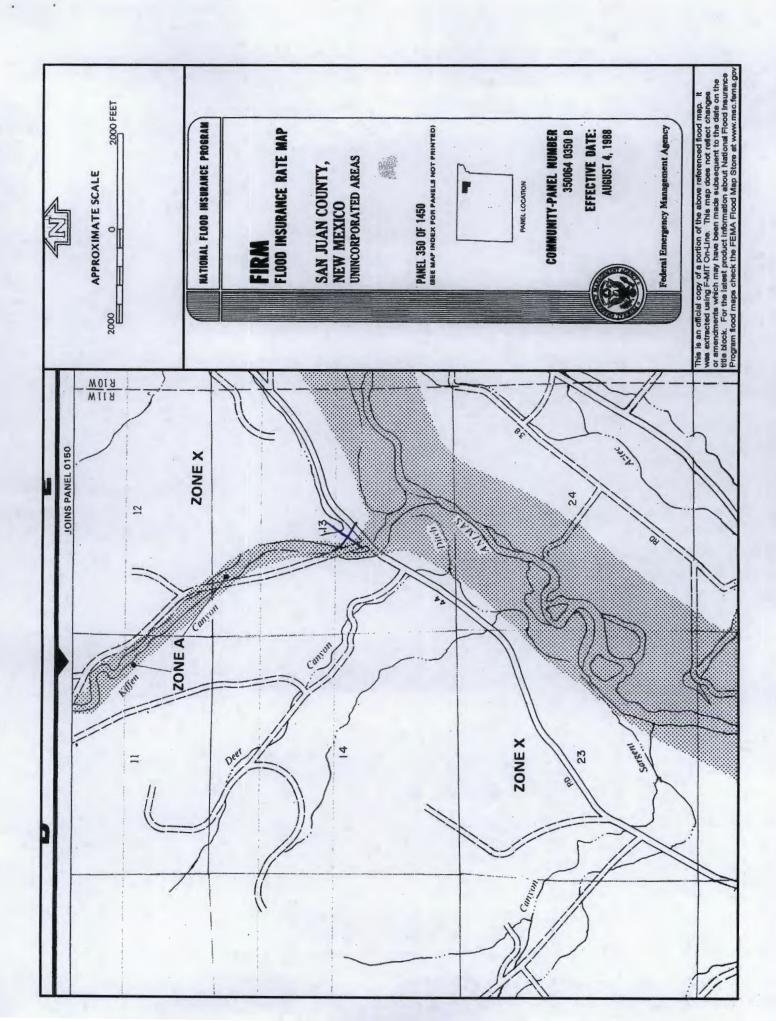


MMQonline Public Version Map









RANDLEMAN 1

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'RANDLEMAN 1', which is located at 36.89591 degree, North latitude and 107.94475 degree, West longitude. This location is located on the Cedar Hill 7.5' USGS topographic quadrangle. This location is in section 13 of Township 31 North Range 11 West of the Public Land Survey System (New Mexico Principal Meridian). This location is located in San Juan County, New Mexico. The nearest town is Cedar Hill, located 4.3 miles to the northeast. The nearest large town (population greater than 10,000) is Farmington, located 18.3 miles to the southwest (National Atlas). The nearest highway is US Highway 550, located 0.9 miles to the southeast. The location is on Private land and is 1,906 feet from the edge of the parcel as notated in the BLM land status layer updated January 2008. This location is in the Animas. Colorado, New Mexico, Sub-basin. This location is located 1758 meters or 5766 feet above sea level and receives 11.5 inches of rain each year. The vegetation at this location is classified as Open Water as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 25 feet. This estimation is based on the data published on the New Mexico Engineer's iWaters Database website and water depth data from ConocoPhillips' Cathodic wells. Groundwater data available from the NM State Engineer's iWaters Database for wells near the proposed site are attached. The nearest stream is 14 feet to the southwest and is classified by the USGS as a perennial stream. The nearest perennial stream is 14 feet to the southwest. The nearest water body is 894 feet to the northeast. It is classified by the USGS as an intermittent lake and is 7.9 acres in size. The nearest spring is 10,292 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 601 feet to the southwest. The nearest wetland is a 7.9 acre Ravine located 0 feet to the north. The slope at this location is 2 degree, 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 MODERN ALLUVIUM--Includes Piney Creek Alluvium and younger deposits with a Quaternary age younger alluvium and surficial deposits substrate. The soil at this location is 'River wash' and is poorly drained and all hydric with slight erosion potential as taken from the NRCS SSURGO map unit. downloaded January 2008. The nearest underground mine is 5.5 miles to the northeast as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

Quaternary and recent deposits in the San Juan Basin include stream-deposited alluvium and older terrace deposits, landslide deposits, and Aeolian sand. Most Quaternary and younger deposits area unconsolidated and form a thin covering over older bedrock sediments.

Stream-deposited alluvium and older terrace deposits are associated with major streams and rivers in the San Juan Basin. The alluvium consists of unconsolidated sediments that range from silt to cobbles in size but predominantly are sand and gravel. Along major streams the alluvium is varied in composition, depending on the mix of material from the various erosional source areas and fluvialy-driven sorting. Alluvial deposits also occur as a thin veneer of fine-grained sediments in the valleys of intermittent streams. Landslide deposits are mapped on the northeastern flank of the Chuska Mountains and locally in the San Juan Mountains. These colluvial deposits consist of material derived from the topographically higher source areas. The landslide material on the flank of Chuska Mountains consists of reworked sand from the Chuska Sandstone; the deposits in the San Juan Mountains primarily are derived from volcanic or volcaniclastic sources.

Unconsolidated wind-blown deposits are common in the central part of the basin, although they generally are not mapped on small scale geologic maps. Typically, these deposits are very thin, but local dunes near dry washes, which are excellent sources of fine-grained material, may reach heights of 20 feet. These recent Aeolian deposits are not known to yield water to wells.

e no compositivitas, e e a a

Hydraulic Properties:

In the absence of other sources of water, alluvial deposits, where present, are commonly relied upon as a source of water for domestic and livestock use. Along the major rivers and streams, wells are of conventional vertical design, whereas in the valleys of intermittent streams, where the hydraulic conductivities and saturated thickness are generally small, most wells are constructed as galleries of horizontal drains feeding to a central collector. Reported well yields range from less than 1 gallon per minute to as much as 1,100 gallons per minute. The median yield of 48 wells is 15 gallons per minute. Hydraulic conductivities of sand and gravel can vary from 10 to 1,000,000 gallons per day per foot squared (roughly 1 to 100,000 feet per day) (Freeze and Cherry, 1979, table 2.2.) but a more typical range is from 15 feet per day for fine sand to about 1,000 feet per day for coarse gravel (Lohman, 1972, table 17). Tests along the San Juan River upstream from Farmington indicate that the hydraulic conductivity of alluvium ranges from 0.006 to 220 feet per day (Peter et al, 1987, p. 29). The thickness of alluvium at this site was reported to range from about 14 to 61 feet, and the saturated thickness was less than 25 feet in all 13 test holes. Water occurs in the alluvium under unconfined conditions. No tests have been made where the storage coefficient of the alluvium was determined. However, a typical specific yield for moderate to well-sorted unconsolidated sediments would be in the range of 0.1 to 0.25.

No known hydraulic data exists for the landslide and recent Aeolian deposits in the basin. No instances are known where these deposits are used as a source of water.

References:

Freeze, R.A., and Cherry, J.A., 1979, Groundwater: Englewood cliffs, N.J., Prentice-Hall, Inc., 604 p. Lohman, S.W., 1972, Ground-water hydraulics: U.S.G.S. Professional Paper 708, 70 p. Peter, K.D., Williams, R.A., and King, K.W., 1987, Hydrogeologic characteristics of the Lee Acres landfill area, San Juan County, New Mexico: U.S.G.S. Water Resources Investigations Report 87-4246, 69 p.

into age of

12.37.00

74 J.Z.C.S.

n de en egen jaron. Santa egeneratie

the training the property of the training of the contract of t

a con Apper No. 191

2 1 H. W. Siki

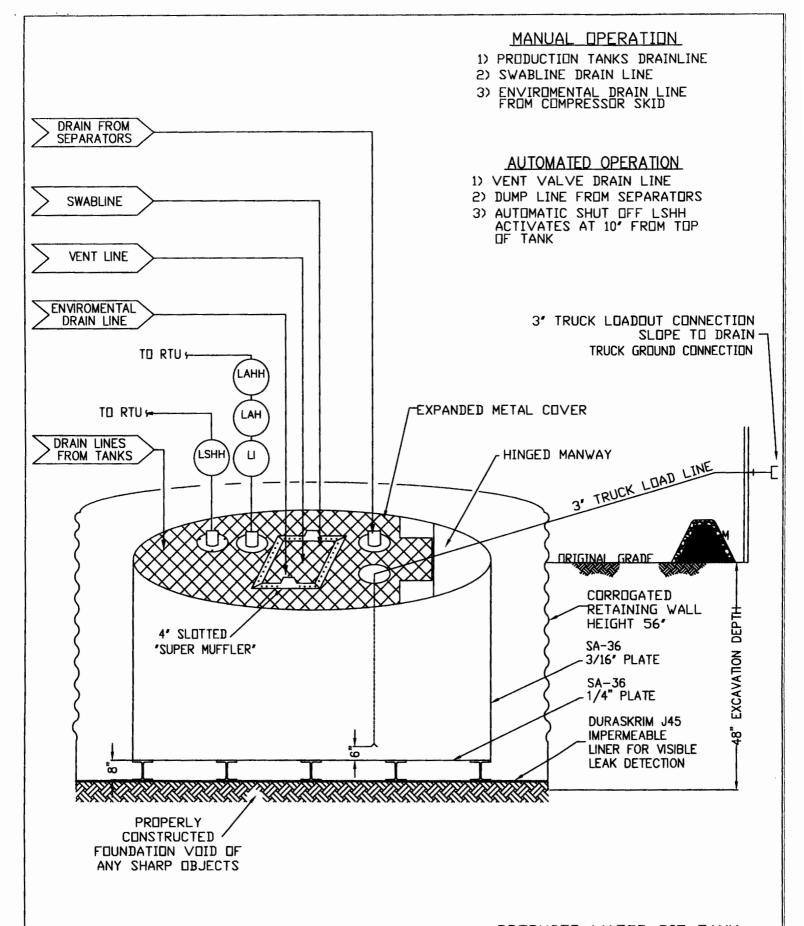
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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.
- 2. 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.
- 5. 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

DURA-SKRIM®

130, 136 & 145

PROPERTIES	TEST METHOD	J3	0BB	J36	вв	J45BB		
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	
Appearance		Black	√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	ed tri-direction	al scrim reinford	ement	
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 Tensilë	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

RAVEN

800-635-3456

RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

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

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

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

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

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

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

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

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.
- 2. 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.
- 5. 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 of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, 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
 - 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

Burlington Resources /Conoco Phillips BGT REGISTRATION

✓ Signed C-144 (Page 5 of C-144)
✓ Site Specific Hydrogeology
19.15.17.10 NMAC SITTING REQUIREMENTS
 ✓ New Mexico Office of State Engineer attachment ✓ USGS TOPO map ✓ Aerial Map ✓ Mines, Mills and Quarries Map ✓ FIRM map (flood insurance rate map from Federal Emergency Agency)
19.15.17.11 NMAC DESIGN PLAN CONTENTS
19.15.17.12 NMAC OPERATING AND MAINTENCE PLAN
19.15.17.13 NMAC CLOSURE PLAN
✓ Below Grade Tank Closure Plan
REGISTRATION DATE:
09/30/2015
NOTES: