Estrict 1 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy Minerals and Natural Resources	Form C-144 July 21, 200
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210 <u>District III</u>	Department Oil Conservation Division 1220 South St. Francis Dr.	For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.
1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
1220 S. St. Hallels DL, Salita PC, 1919 87505	Pit, Closed-Loop System, Below-Grad	e Tank or
Propo	sed Alternative Method Permit or Closur	
	_	
Type of action:	X Permit of a pit, closed-loop system, below-grade ta	
	Closure of a pit, closed-loop system, below-grade t	ank, or proposed alternative method
	Modification to an existing permit	
	Closure plan only submitted for an existing permitt below-grade tank, or proposed alternative method	
	application (Form C-144) per individual pit, closed-loop	
	of this request does not relieve the operator of liability should operations re lieve the operator of its responsibility to comply with any other applicable a	
Operator: Burlington Resources O	il & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmingto	on, NM 87499	
Facility or well name: FEDERAL	A 1N	
API Number:	3004533923 OCD Permit Numbe	r:
U/L or Qtr/Qtr: D Sect		1W County: San Juan
Center of Proposed Design: Latitud		-107.97824°W NAD: X 1927 1983
Surface Owner: X Federal	State Private Tribal Trust or Indian	
Pit: Subsection F or G of 19.15.1	7.11 NMAC	
	rkover	
	Cavitation P&A	
		HDPE PVC Other
String-Reinforced		
	Factory Other Volume:	bbl Dimensions L x W x D
³ Closed-loop System: Subsect Type of Operation: P&A	tion H of 19.15.17.11 NMAC Drilling a new well Workover or Drilling (Applies to notice of intent)	activities which require prior approval of a permit or
Drying Pad Above Grou	und Steel Tanks 🔲 Haul-off Bins 🗍 Other	
Lined Unlined Lin	er type: Thickness mil LLDPE H	IDPE PVD Other
Liner Seams: Welded F	Factory Other	
4		
X Below-grade tank: Subsection	1 of 19.15.17.11 NMAC	
Volume: 120	bbl Type of fluid: Produced Water	
Tank Construction material:	Metal	
Secondary containment with leak d	letection X Visible sidewalls, liner, 6-inch lift and auto	matic overflow shut-off
Visible sidewalls and liner	Visible sidewalls only Other	
Liner Type: Thickness	mil HDPE PVC X Other U	Inspecified
5 Alternative Method:		
Submittal of an exception request is re	quired. Exceptions must be submitted to the Santa Fe Environ	mental Bureau office for consideration of approval.
Form C-144	Oil Conservation Division	Page 1 of 5

 6 * Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, in: Four foot height, four strands of barbed wire evenly spaced between one and four feet X Alternate. Please specify <u>4' hog wire fencing topped with two strands barbed wire.</u> 	stitution or chu	rch)
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Netting Other		
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 <u>Administrative Approvals and Exceptions:</u> 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 cont (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 	sideration of a	pproval.
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (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 purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Ýes	XNo
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes	XNo
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes	XNo
Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	XNo
Society; Topographic map Within a 100-year floodplain - FEMA map	Yes	XNo

1) Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19, 15, 17, 9 NMAC
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
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
13 Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. 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 Ccritified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection 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 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Errosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14 Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System
Alternative Proposed Closure Method: XWaste Excavation and Removal (Below-Grade Tank)
Waste Removal (Closed-loop systems only)
On-site Closure Method (only for temporary pits and closed-loop systems)
In-place Burial On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15 <u>Waste Excavation and Removal Closure Plan Checklist:</u> (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 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel	Fanks of Haul off Bins Onlys (19-15-17-12 D.NMAC)	
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fu are required.	ids and drill cuttings. Use attachment if more than two fi	icilities
Disposal Facility Name:	Disposal Facility Permit #:	
Disposal Facility Name:		
Will any of the proposed closed-loop system operations and associated activities 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 Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	on Lof 19.15.17.13 NMAC	2
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. Rec certain siting criteria may require administrative approval from the appropriate district office or for consideration of approval. Justifications and/or demonstrations of equivalency are required.	may be considered an exception which must be submitted to the	w. Requests regarding changes to Santa Fe Environmental Bureau office
Ground water is less than 50 feet below the bottom of the buried waste.		Yes No
 NM Office of the State Engineer - iWATERS database search; USGS: Data obtain 	ed from nearby wells	N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste		Yes No
- NM Office of the State Engineer - iWATERS database search: USGS; Data obtained	d from nearby wells	N/A
Ground water is more than 100 feet below the bottom of the buried waste.		Yes No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtaine	d from nearby wells	N/A
Within 300 feet of a continuously flowing watercourse. or 200 feet of any other significant (measured from the ordinary high-water mark).	t watercourse or lakebed, sinkhole, or playa lake	Yes No
- Topographic map; Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church in exi - Visual inspection (certification) of the proposed site; Aerial photo: satellite image	stence at the time of initial application.	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than 1 purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence - NM Office of the State Engineer - iWATERS database; Visual inspection (certification)	e at the time of the initial application. on) of the proposed site	Yes No
 Within incorporated municipal boundaries or within a defined municipal fresh water well pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained of the section of		Yes No
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map: Visual inspect	ion (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine.		Yes No
- Written confirantion or verification or map from the NM EMNRD-Mining and Min	eral Division	
 Within an unstable area. Engineering measures incorporated into the design: NM Bureau of Geology & Mine: Topographic map 	ral Resources; USGS; NM Geological Society;	Yes No
Within a 100-year floodplain. - FEMA map		Yes No
18		
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.	the following items must bee attached to the closure	plan. Please indicate,
Siting Criteria Compliance Demonstrations - based upon the appropriate re	auirements of 19,15,17,10 NMAC	
Proof of Surface Owner Notice - based upon the appropriate requirements		
Construction/Design Plan of Burial Trench (if applicable) based upon the a		
Construction/Design Plan of Temporary Pit (for in place burial of a drying		.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 re		
Waste Material Sampling Plan - based upon the appropriate requirements of		
Disposal Facility Name and Permit Number (for liquids, drilling fluids and Soil Cover Design - based upon the appropriate requirements of Subsection		tot be achieved)

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

19			
Operator Application Cer			have a formal a surface to the first
	nation submitted with this application is true, a		
Name (Print):	Crystal Fafoya	Title:	Regulatory Technician
Signature:	instal Top	Date:	12/22/2008
e-mail address:	systanterbya 4 reproductivitos con	Télephone:	505-326-9837
20			
OCD Approval: Per	mit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Sign	ature:		Approval Date:
		<u></u>	
Title:		OCD Peri	mit Number:
21			
	within 60 days of closure completion):		
		-	ure activities and submitting the closure report. The closure es. Please do not complete this section of the form until an
	en obtained and the closure activities have bee		es. Precise do not complete this section of the form multitude
		Closur	e Completion Date:
		Ciosui	e completion trate.
32			
Closure Method:			
Waste Excavation and	Removal On-site Closure Method	Alternative Closure	e Method Waste Removal (Closed-loop systems only)
If different from appro	oved plan, please explain.		
23 Closure Report Reporting V	North Remound Closure For Closed Joan Sur	tome That Iltilian Above C	round Steel Tenks on Houl off Bins Only
	Vaste Removal Closure For Closed-loop System the facility or facilities for where the liquids.		ings were disposed. Use attachment if more than two facilities
were utilized.			ingo were any obtain the second contraction of the second contracts
Disposal Facility Name:		Disposal Facility	y Permit Number:
Disposal Facility Name: Disposal Facility Name:			y Permit Number:
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. New Mexico Office of the State Engineer

Page	1	of	6
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New Mexico Office of the State Engineer POD Reports and Downloads
Township: 30N Range: 11W Sections:
NAD27 X: Y: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) CNon-Domestic CDomestic CAll
POD / Surface Data Report Avg Depth to Water Report Water Column Report
Clear Form iWATERS Menu Help

WATER COLUMN REPORT 08/21/2008

						3=SW 4=S						
(POD Number	quarter Tws		_	-		o smalles	-		Depth	Depth	Water	(in
RG 50669	30N	Rng 9		đ	વવ	Zone	X	Y	Well 3.60	Water	Column	
SJ 02765		11W 0		1 :	2					310	50	
				1 :					54	20	34	
SJ 00975	30N	11W (60	20	40	
SJ 01217	30N	11W (1 :					60	30	30	
SJ 02837	30N	11W (4 1				150			
SJ 01437	30N	11W (1					40	28	12	
SJ 03121	30N	11W (24				36	12	24	
SJ 02049	30N	11W (1 3					26	8	18	
SJ 01339	30N	11W (1 3					40	15	25	
SJ 02814	30N	11W C)3	1 1	32				31	8	23	
SJ 00350	30N	11W C)3	1 3	32				46	12	34	
SJ 01441	30N	11W ()3	1 3	32				48	20	28	
SJ 02835	30N	11W ()3	1 3	32				26	8	18	
SJ 01387	30N	11W C)3	1 4	1				40	18	22	
SJ 03698 POD1	30N	11W C)3	1 4	4 1				40	5	35	
SJ 02785	30N	11W C)3	1 4	42				31	5	26	
SJ 01313	30N	11W C)3	2					70	58	12	
SJ 01805	30N	11W C)3	2					35	20	15	
SJ 01807	30N	11W 0)3	2 1	1				50	30	20	
SJ 01202	30N	11W C)3	2 1	12				35	8	27	
SJ 02781	30N	11W C)3	2 1	12				48	23	25	
SJ 03758 POD1	30N	11W C)3	2 1	1 2	26	8158	2127473	49	21	28	
SJ 03765 POD1	30N	11W C)3	2 1	1 2	26	8163	2127605	43	20	23	
SJ 03756 POD1	30N	11W C		2 1	12		8179	2127870	41	20	21	
SJ 02786	30N	11W C		2 3					51	24	27	
SJ 01901	30N	11W C		2 3					60	26	34	
SJ 00698	30N	11W C		2 3					44	14	30	
SJ 01261	30N	11W C			3 4				77	20	50	
SJ 02930	30N	11W C			4 4				81	64	17	
SJ 02798	30N	11W C		_	± 4 1 4							
SJ 00402	30N	11W C		3	± '±				80	61	19	
					2				32	18	14	
SJ 01734	30N	11W C	13	3 2	2				33	5	28	

SJ 00762	_ 30N	11W 03	32				47	22	25
SJ 01440	30N	11W 03	3 2 3				41	21	20
SJ 01020	_ 30N	11W 03	33				27	5	22
SJ 03242	30N	11W 03 11W 03	$\begin{array}{ccc} 3 & 3 & 1 \\ 3 & 3 & 1 \end{array}$				23	9	14
SJ 03732 POD1 SJ 03239	30N 30N	11W 03	3 3 1 3 3 3				38	9	2'9
SJ 01238	30N	11W 03	4 1				33 95	12	21
SJ 02245		11W 03	4 1 3				66	38 30	57
SJ 01043	30N	11W 03	4 1 4				50	30	36
SJ 01249	30N	11W 03	4 2				52	22	30
SJ 02563	30N	11W 03	4 2 1				96	60	36
SJ 02824	30N	11W 03	4 2 1				70	50	20
SJ 03153	30N	11W 03	4 2 1				80	60	20
SJ 03454	30N	11W 03	4 2 4				100	00	20
SJ 03291	30N	11W 03	4 3 2				38	18	20
SJ 00366	30N	11W 03	444				33	18	15
SJ 01364	30N	11W 04	2				115	86	29
SJ 03076	30N	11W 04	2 2 3				44	10	34
SJ 02903	30N	11W 04	2 3 2				49	31	18
SJ 03039	30N	11W 04	4 1 2				53	40	13
SJ 01450	30N	11W 04	4 3				45	20	25
SJ 02941	30N	11W 04	4 3 2				58	37	21
SJ 01367	30N	11W 04	4 4 1				48	20	28
SJ 03407	30N	11W 04	4 4 4	W	453700	2124100	30	5	25
SJ 03267	30N	11W 05	2 1 3				83	60	23
SJ 03245	30N	11W 06	4 4 4				80	65	15
SJ 02194	3.0N	11W 07					59	22	37
SJ 02140	30N	11W 07	1 1 1				70	60	10
SJ 00689	30N	11W 07	143				78	65	13
SJ 00690	30N 30N	11W 07 11W 07	1 4 3 1 4 3				60	5.0	1.0
SJ 00882 SJ 00889	30N	11W 07	143				60 55	50	10
SJ 00806	30N	11W 07	1 4 3 1 4 3				55 38	20	1.0
SJ 00739	30N	11W 07	143				70	58	18 12
SJ 00389	30N	11W 07	143				53	90	12
SJ 00688	30N	11W 07	1 4 3				70	58	12
SJ 00358	30N	11W 07	1 4 3				61	38	23
SJ 00397	30N	11W 07	143				56	35	21
SJ 00415	30N	11W 07	1 4 3				53	40	13
SJ 00387	30N	11W 07	1 4 3						
SJ 00748	30N	11W 07	1 4 3				60	41	19
SJ 03271	30N	11W 07	2 3 2						
SJ 01475	30N	11W 07	2 3 3				49	27	22
SJ 03465	30N	11W 07	2 3 4				80		
SJ 00259	30N	11W 07	24				25	12	13
SJ 01492	30N	11W 07	3				60	22	38
SJ 03794 POD1	30N	11W 07	3 1 3		266272	2119520	44	27	17
SJ 01172 SJ 01310	30N	11W 07 11W 07	3 2 3 3				50	30	20
SJ 01484	30N 30N	11W 07	33				80	50	30
	30N	11W 07	333				61	10	51
SJ 03630 SJ 01425	30N	11W 07 11W 07	34				68 55	24	44
SJ 01425	30N	11W 07	34				55 60	25 25	30 35
SJ 02006	30N	11W 07	342				50	25	35 26
SJ 03484	30N	11W 07	343				75	24	20
SJ 02005	30N	11W 07	344				55	20	35
SJ 02715	30N	11W 07	344				68	20	48
SJ 00135	30N	11W 07	4 1				180	23	157
SJ 00769	30N	11W 07	4 1				50	14	36
	5 011	0 /					50	T.4	50

SJ 01406		11W		4	1		
SJ 02936	_ 30N	11W		4	1	1	
SJ 00679	30N	11W		4	1	3	
SJ 00620	30N	11W		4	1	3	
SJ 00329	30N	11W		4	1	3	
SJ 00162	30N	11W	07	4	1	3	
SJ 02906	30N	11W	07	4	1	4	
SJ 00893	30N	11W	07	4	2		
SJ 01667	30N	11W	07	4	3		
SJ 01404	30N	11W	07	4	3		
SJ 00919	30N	11W	07	4	3	2	
SJ 00604	30N	11W	07	4	3	2	
SJ 00601	30N	11W	07	4	3	2	
SJ 00918	30N	11W	07	4	3	2	
SJ 00920	30N	11W	07	4	3	2	
SJ 01567	30N	11W	07	4	4	2	
SJ 00183	30N	11W	80	1	1		
SJ 03154	30N	11W	80	1	1	4	
SJ 03431	30N	11W	0.8	1	4		
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SJ 01451		11W	08	2	2		
SJ 01968		11W	08	2	2		
SJ 01999	30N	11W	08	2	2		
SJ 01814		11W		2	2		
SJ 03398		11W	08	2	2	1	
SJ 03210		11W	08	2	2	2	
SJ 03098	30N	11W		2	2	2	
SJ 03381	30N	11W	08	2	2	2	
SJ 03240	30N	11W	08	2	2	2	
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SJ 03639		11W	08	2	2	4	
SJ 01115		11W	08	2	2	4	
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SJ 03646	30N	11W	08	2	2	4	
SJ 00228	30N	11W	08	2	2	4	
SJ 03202		11W	80	2	4	2	
SJ 03030	30N	11W	08	2	4	2	
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SJ 03378	30N	11W	08	2	4	2	
SJ 02331	30N	11W	08	2	4	2	
SJ 03303	30N			2	4	2	
SJ 02293	30N	11W	80	2	4	2	
SJ 00249	30N	11W	08	2	4	2	
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SJ 03089	30N	11W	0.8	3	2	4	
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SJ 02413	30N	11W	80	3	4	1	
SJ 02915	30N	11W	80	3	4	1	
SJ 03367	30N	11W	80	3	4	4	
SJ 01570	30N	11W	80	4	1		
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SJ 03642	30N	11W		4	1	2	
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SJ 02485	30N	11W		4	1	4	
SJ 02261	30N	11W		4	3	2	
SJ 03419	30N	11W		4	4	2	
SJ 02241	30N	11W		1	-	_	

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

GJ 01560	30N	11W (10	1	1		36	26
SJ 01585	30N	11W (1			40	28
5J 03499	30N	11W 0			1	1	53	12
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J 03225	30N	11W 0		1	1	4	50	31
SJ 03229	30N	11W C		1		4	50	
SJ 00924	30N	11W C		1	2	2	46	16
J 00438	30N	11W C		1		3	29	19
J 01169	30N	11W C		1		2	56	33
J 01574	30N	11W 0		1			46	27
J 02237	30N	11W C			3	1	48	28
J 03019	30N	11W C		1		1	50	30
J 02493	30N	11W C				1	49	26
J 03724 POD1	30N	11W C			3	1	49	36
J 03031	30N	11W C		1	3	1	47 55	36
J 01465	30N	11W C			3	2	.47	22
J 02336	30N	11W C				2		11
J 03482	30N	11W C				2	46 50	11
	30N	11W C				3		20
SJ 03423 SJ 00750		11W C				2	50	20
	30N					Á	26	6
J 02975	30N	11W 0					37	12
J 03268	30N	11W 0		2	2	2	61	10
J 00364	30N	11W 0				2	50	20
J 03128	30N)9		3	2	50	1 1
J 00364 CLW263561	30N)9	2	3	2	33	11
J 01955	30N	11W 0		2	4		40	11
J 02528	30N	11W 0			4	~	60	28
J 02290	30N	11W 0			4	2	45	15
J 00347	30N)9	4	1		36	19
J 01436	30N	11W 0		4		1	210	50
J 03471	30N	11W 0			1		20	5
J 03223	30N	11W 0		4		2	59	25
J 03263	30N	11W 0				2	63	35
J 03374	30N	11W 0 11W 0			3 3	1 2	44	29
J 02796	30N						100	62
J 03214	30N 30N	11W 0 11W 0		4	4 4	2	93	63
5J 03213 5J 02176	30N	11W 0				2	100 57	37
J 03356	30N	11W 1		1		1	55	
J 03258	30N	11W 1		1			55	30 10
J 03444	30N	11W 1			3		60	10
J 03248	30N	11W 1			3		90	20
J 03354	30N	11W 1				3	90 80	30
J 00348	30N	11W 1				3 4	80 72	30
	30N	11W 1				4 1		24
J 03032	30N					1 3	80	30
J 02819		11W 1					140	40
J 03282	30N	11W 1				4	70	30
J 03281	30N	11W 1					62	32
J 03572	30N	11W 1					70.	_
	30N	11W 1		3	3	3	50	30
J 03218	2 2	7 7 8 9 1	1				225	90
J 01720	30N	11W 1						
J 01720 J 03745 POD1	30N	11W 1	.3	1		2	325	150
5 01720 5 03745 POD1 5 01693	30N 30N	11W 1 11W 1	.3	1	3	2	325 225	150 89
J 01720 J 03745 POD1	30N	11W 1	.3 .3 .3		3. 3		325	150

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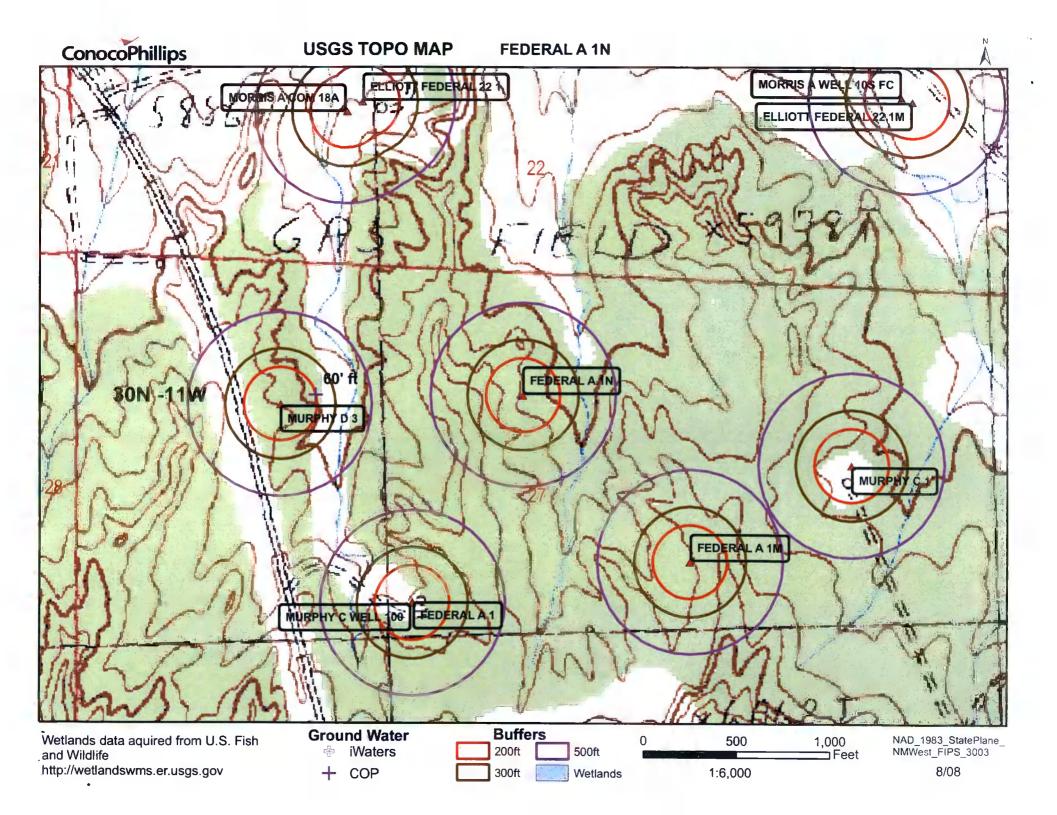
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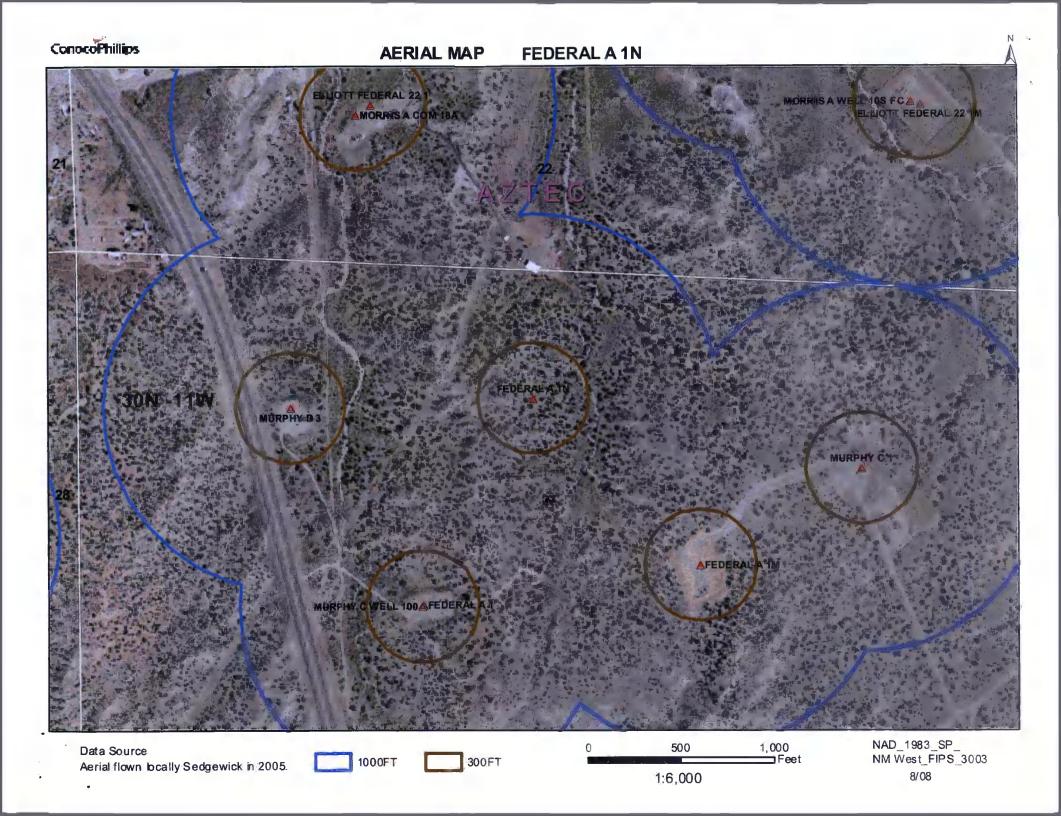
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SJ 00410	30N	11W 16	1 2				61	45	16
SJ 03010	30N	11W 16	1 3				80	40	40
SJ 03257	30N	11W 16	1 3				80	40	40
SJ 02923	30N	11W 16	1 3				75	40	35
SJ 03265	30N	11W 16	1 3				90	70	20
SJ 03310	30N	11W 16	1 3	_			55	20	35
SJ 01082	30N	11W 16		1			80	34	46
SJ 01722	30N	11W 17	1				20	8	12
SJ 01528	30N	11W 17	1 1				26	10	16
SJ 03373	30N	11W 17	1 1	3			50	35	15
SJ 01948	30N	11W 17	1 2				21	3	18
SJ 02817	30N	11W 17	1 2	2			15	~	10
SJ 01722 POD2	30N	11W 17	1 2	4	266967	2116417	17	3	14
SJ 01899	30N	11W 17	1 3	2			27	7	20
SJ 03771 POD1	30N	11W 17	1 3	3	266811	211517	20	6	14
SJ 03750 POD1	30N	11W 17	1 3	3	266811		20	6	14
SJ 03319	30N	11W 17	1 3	4			55	31	24
SJ 03266	30N	11W 17	14	3			30	10	20
SJ 03436	30N	11W 17	1 4	3			20		
SJ 00745	30N	11W 17	2				54	30	24
SJ 00665	30N	11W 17	2 1				28	14	14
SJ 01342	30N	11W 17	2 1	1			26	5	21
SJ 00166	30N	11W 17	2 3				48	11	37
SJ 01057	30N	11W 17	2 3				63	28	35
SJ 01060	30N	11W 17	23				58	23	35
SJ 03241	30N	11W 17	23	3			75	20	55
SJ 03269	30N	11W 17	23	4			80	10	70
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SJ 03219	30N	11W 17	2 4	2			68	38	30
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SJ 01296 SJ 03249	30N	11W 17 11W 17	32	2			50	10	40
SJ 01810	30N 30N	11W 17	32 34	2			55	12	43
SJ 00411	30N	11W 17	4 1				29	9	20
SJ 00234	30N	11W 17	4 1				60	25	35
SJ 01847	30N	11W 17	4 1				54 30	23 6	31
SJ 00457	30N	11W 17	4 1	2			52	18	24 34
SJ 00650	30N	11W 17	4 1				49	18	31
SJ 02018	30N	11W 17	4 2	0			100	40	60
SJ 00136	30N	11W 17	4 2				69	35	34
SJ 03718 POD1	30N	11W 17	4 2	2			68	41	27
SJ 03261	30N	11W 17	4 2	2			88	50	38
SJ 03215	30N	11W 18	1 1	3			52	9	43
SJ 01316	30N	11W 18	1 1	3			46	12	34
SJ 03152	30N	11W 18	1 1	3			52	22	30
SJ 02805	30N	11W 18	1 2				60		
SJ 03463	30N	11W 18	1 2				70	20	50
SJ 02996	30N	11W 18	1 2				50	25	25
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SJ 01401	30N	11W 18	1 3				44	12	32
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SJ 03177	30N	11W 18	1 4				37	15	22
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SJ 03801 POD1	3.0N	11W	18	2	2	
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SJ 02109	30N	11W	18	2	4	
SJ 02123	30N	11W	18	2	4	
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SJ 01621	30N	11W	19	3	2	
SJ 02692	30N	11W	19	3	2	2
SJ 02968	30N	11W	19	.3	2	2
SJ 02812	30N	11W	19	3	2	2
SJ 01123	30N		19	4	1	
SJ 03437	30N	11W	19	4	1	2
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SJ 03251	30N	11W	32	3	4	4

Record Count: 303

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266718	2116651	21	6	15
200710	STICOST	40	18	22
		21	7	14
		19	4	15
		22	8	14
		40	10	30
		480	200	280
		40	10	30
		80		00
		80		
			105	
		400		
		130	70	60
		100	38	62
		105	35	7.0
		140		
		120	80	40
		70	25	45
		20		
		200	35	165
		60	20	40
		2.0		
		40	38	2
		52	12	40
		75	5	70
		50		
		40	15	25
		30		
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		80	30	50
		75	70	5
		380	280	100
		150	77	73

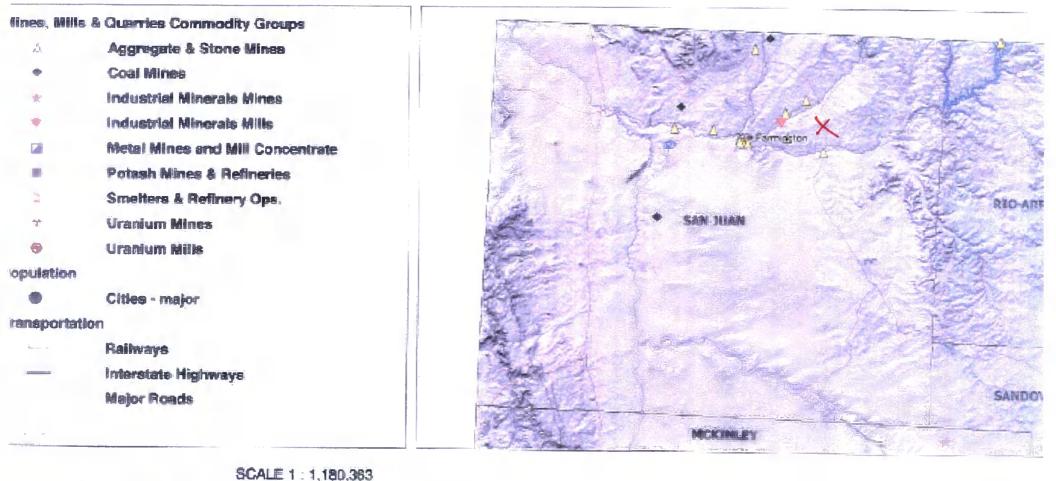


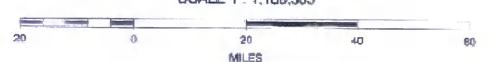


Mines, Mills and Quarries Web Map

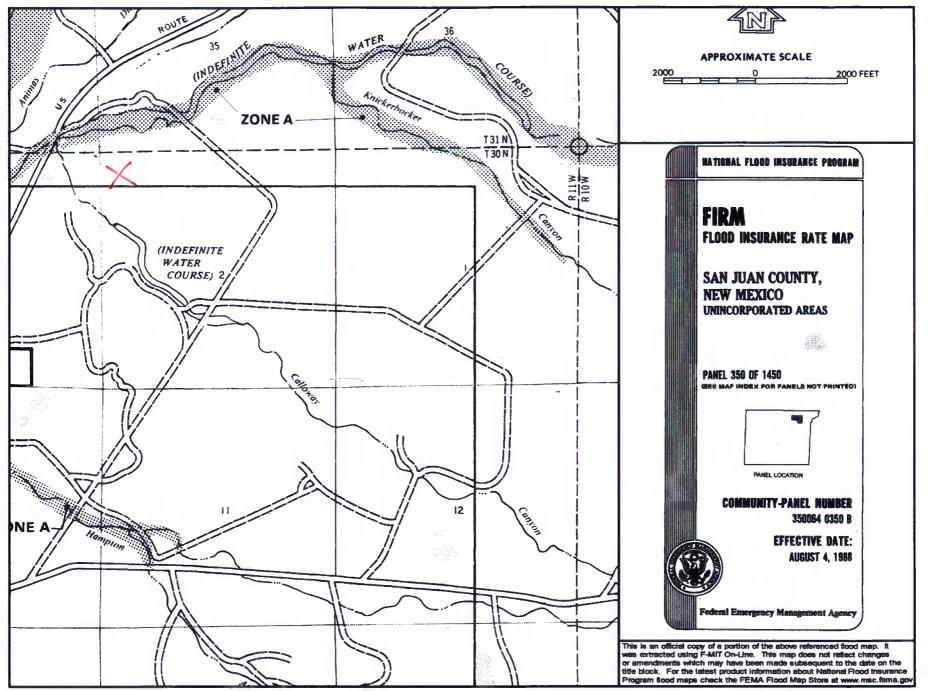
FEDERAL A 1N

Unit Letter: D, Section: 02, Town: 030N, Range: 011W





Federal A IN



FEDERAL A 1N

Site Specific Hydrogeology

A visual site inspection confirming the information contained herein was performed on the well 'FEDERAL A 1N', which is located at 36.78889 degrees North latitude and 107.97824 degrees West longitude. This location is located on the Aztec 7.5' USGS topographic quadrangle. This location is in section 27 of Township 30 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 Aztec, located 2.4 miles to the north. The nearest large town (population greater than 10,000) is Farmington, located 13.2 miles to the west (National Atlas). The nearest highway is US Highway 550, located 0.3 miles to the west. The location is on BLM land and is 607 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 1802 meters or 5910 feet above sea level and receives 11 inches of rain each year. The vegetation at this location is classified as Colorado Plateau Pinon-Juniper Woodland as per the Southwest Regional Gap Analysis Program.

The estimated depth to ground water at this point is 87 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 119 feet to the east and is classified by the USGS as an intermittent stream. The nearest perennial stream is 3,804 feet to the northeast. The nearest water body is 2,684 feet to the northeast. It is classified by the USGS as an intermittent lake and is 0.1 acres in size. The nearest spring is 26,435 feet to the southeast. All stream, river, water body and spring information was determined as per the USGS Hydrographic Dataset (High Resolution), downloaded 3/2008. The nearest water well is 344 feet to the west. The nearest wetland is a 0.4 acre Freshwater Pond located 12.642 feet to the northwest. The slope at this location is 3 degrees to the north as calculated from USGS 30M National Elevation Dataset. This information is also discerned from the aerial and topographic map included. The surface geology at this location is NACIMIENTO FORMATION--Shale and sandstone with a Shale dominated formations of all ages substrate. The soil at this location is 'Gypsiorthids-Badland-Stumble complex, moderately steep' and is somewhat excessively drained and not hydric with severe erosion potential as taken from the NRCS SSURGO map unit, downloaded January 2008. The nearest underground mine is 12.9 miles to the northeast as indicated on the Mines, Mills and Quarries Map of New Mexico provided.

Regional Geological context:

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

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

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

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

Hydraulic Properties:

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

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

References:

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

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

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

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

Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6.

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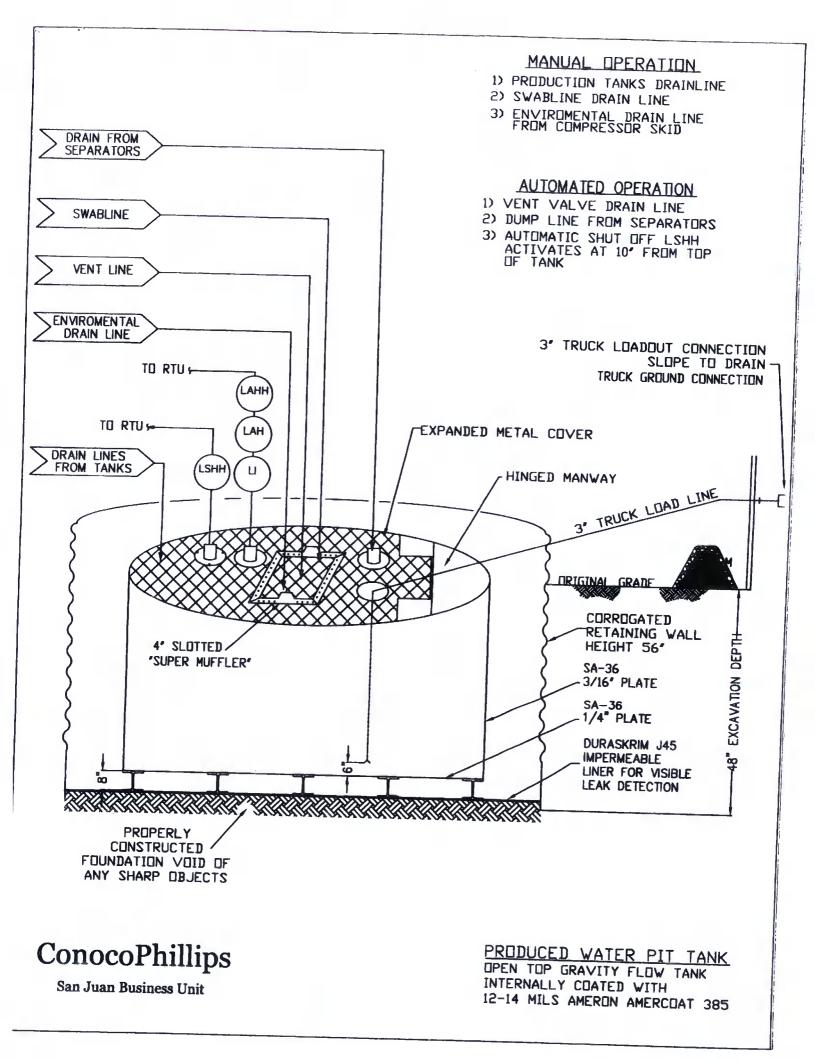
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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:

- 1. 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.
- 6. 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.
- 11. The general specification for design and construction are attached in the BR document.



PROPERTIES TEST METHOD J30BB J36BE J45BE Min. Roll Typical Roll Min. Roll **Typical Roll** Min. Roll Averages Averages Averages Averages Averages Appearance Black/Black Black/Black Black/Black Thickness **ASTM D 5199** 27 mil Т 30 mil Т 32 mil 36 mil Τ

and the second se	1	27 (11)	30 mil	32 mil	36 mil	40 mil	45	
Weight Lbs Per MSF (oz/yd ²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs	45 mil	
Construction	1	**Ex	1	. ,		(27.21)	(30.24)	
Ply Adhesion	**Extrusion laminated with encapsulated tri-directional scrim reinforcement							
	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 ibf MD 191 ibf 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		
Maximum Use Temperature		180° F	180° F	180° F			99 lbf	
Minimum Use Temperature					180° F	180° F	180° F	
D = Machine Direction		-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 discriministic and liability for resulting loss or damage.

RAVEN INDUSTRIES

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**

0**8/06**

Typical Roll

Averages



RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

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

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

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

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

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

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

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

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

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

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

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 below-grade 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:

- 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 50 mg/kg; the TPH division approves, does not exceed 100 mg/kg; and the chloride concentration, as determined by 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.
- 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

e. *

- ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 9. 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 below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation
 - Re-vegetation application rates and seeding techniques
 - Photo documentation of the site reclamation
 - Confirmation Sampling Results
 - Proof of closure notice