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

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 tanks, submit to the appropriate NMOCD District Office.

Form C-144

For permanent pits and exceptions submit to the Santa Fe

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505			riate NMOCD District Office
	Pit, Closed-Loop Syster	n, Below-Grade Tan	k, or
Propo	osed Alternative Method	Permit or Closure P	lan Application
Type of action:	X Permit of a pit, closed-loop sy	stem, below-grade tank, or p	proposed alternative method
	Closure of a pit, closed-loop s	ystem, below-grade tank, or	proposed alternative method
	Modification to an existing pe	ermit	
	Closure plan only submitted f	or an existing permitted or ne	on-permitted pit, closed-loop system,
	below-grade tank, or proposed	l alternative method	
		· · ·	ı, below-grade tank or alternative request
• • • • • • • • • • • • • • • • • • • •	f this request does not relieve the operator of I eve the operator of its responsibility to comply		llution of surface water, ground water or the ntal authority's rules, regulations or ordinances
1			· · · · · · · · · · · · · · · · · · ·
Operator: Burlington Resources Oil		OGRII	
Address: PO Box 4289, Farmington	· · · · · ·		RCVD JUL 29'08 OIL CONS. DIV.
Facility or well name: Heaton #1015		000 0 1 1 1	
)-045-34359	OCD Permit Number:	nist 3
U/L or Qtr/Qtr: <u>D(NWNW)</u> Section Center of Proposed Design: Latitude:	·	Range: 11W	County: San Juan
Surface Owner: X Federal		Longitude: 108.06 Fribal Trust or Indian Allotn	176700' W NAD: 1927 X 1983
A rederal	State Filvate	Triour Trust of Mulan / Motin	TOTAL CONTROL OF THE PROPERTY
2 X Pit: Subsection F or G of 19.15.17	' 11 NMAC		
Temporary: X Drilling Work			
	avitation P&A		
	ner type: Thickness 20 mi	I X LLDPE HDPE	PVC Other
X String-Reinforced	··· <u>——</u>		<u> </u>
	ctory Other	Volume: 7000 bbl	Dimensions L 120' x W 55' x D 12'
	· 🗆		
Closed-loop System: Subsecti	on H of 19.15.17.11 NMAC		,
Type of Operation: P&A		or Drilling (Applies to activities	s which require prior approval of a permit or
	notice of in	ntent)	
	nd Steel Tanks Haul-off Bins	Other	
	type: Thicknessmil	LLDPE HDPE	PVD Other
Liner Seams: Welded Fa	ctory Other		
4 X Below-grade tank: Subsection I	of 10.15.17.11.NMAC		
Volume: 120 bt		Wotor	
Tank Construction material:	Metal	water	
Secondary containment with leak det		ner, 6-inch lift and automatic ov	verflow shut-off
Visible sidewalls and liner		Other	
Liner Type: Thickness 30	mil X HDPE PV	Bloom .	
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.

6'		
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)		
Characteristics to book two stands of barbad was at tan (Dawing Life, and anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the anythin 1990 for the annual many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the angular many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the angular many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the angular many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the angular many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the angular many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the angular many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the angular many lands to be a land of barbad was at tan (Dawing Life, and anythin 1990 for the angular many		
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, ins Four foot height, four strands of barbed wire evenly spaced between one and four feet	unnon or can	rcn)
X Alternate. Please specify Please See Design Plan		
Alternate. Please specify Please See Design Plan		
7		
Netting: Subsection E of 19.15.17 11 NMAC (Applies to permanent pits and permanent open top tanks)		
X Screen Netting Other		
X 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:		
Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for con-	sideration of ap	proval
Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval		
10	Τ	
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	ПYes	XNo
lake (measured from the ordinary high-water mark).		AINO
- Topographic map; Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial	□ _{Yes}	X No
application.		Ajrio
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	□NA	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	🗀	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	∏No
(Applied to permanent pits)	X NA	□.,,
- 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	mv	X No
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	ANO
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes	XNo
- Written confirmation or verification from the municipality, Written approval obtained from the municipality		
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area.		₩.
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	X No
Society; Topographic map		
Within a 100-year floodplain	Yes	XNo
- FEMA map		

Form C-144 Oil Conservation Division Page 2 of 5

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
A Hydrogeologic Report (Below-graue Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
Triangestosis State (component) and Entergency (tria) dated upon the appropriate requirements of 19.15.17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of
19.15 17 9 NMAC and 19.15 17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9
NMAC and 19.15 17.13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
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 (I) of Subsection B of 19.15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15 17 10 NMAC Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19 15.17.11 NMAC
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19 15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19 15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19 15.17.13 NMAC
14 Proposed Classing: 10.15.17.13 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 X 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) X On-site Closure Method (only for temporary pits and closed-loop systems)
X 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
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
X Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15 17 13 NMAC
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15 17 13 NMAC
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17 13 NMAC

Form C-144 Oil Conservation Division

16											
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19 15.17 13.D NMA Instructions. Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than											
facilities are required.											
Disposal Facility Name Disposal Facility Permit #:											
Disposal Facility Name: Disposal 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 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 H of 19 15.17.13 N 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	MAC										
Siting Criteria (Regarding on-site closure methods only: 19 15.17 10 NMAC Instructions. Each stung criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 10 NMAC for guidance.	o the Santa Fe Environmental Bureau office										
Ground water is less than 50 feet below the bottom of the buried waste.	Yes X No										
- NM Office of the State Engineer - tWATERS database search; USGS Data obtained from nearby wells	∐N/A										
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes X No										
Ground water is more than 100 feet below the bottom of the buried waste.	X Yes No										
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells											
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	Yes X No										
- Topographic map; Visual inspection (certification) of the proposed site											
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site, Aerial photo, satellite image	Yes XNo										
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes X No										
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 X No										
Within 500 feet of a wetland	Yes X No										
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site											
Within the area overlying a subsurface mine.	Yes X No										
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division											
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources, USGS; NM Geological Society, Topographic map	Yes X No										
Within a 100-year floodplain FEMA map	Yes X No										
18											
On-Site Closure Plan Checklist: (19.15 17.13 NMAC) Instructions: Each of the following items must be attached to the clindicate, by a check mark in the box, that the documents are attached.	losure plan. Please										
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17 10 NMAC											
X Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15 17.13 NMAC											
Construction and Design of Burial Trench (if applicable) based upon the appropriate requirements of 19 15.17.11 NMAC											
X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC											
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17 13 NM	IAC										
X Waste Material Sampling Plan - 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 or in case on-site closure standard	ls cannot be achieved)										
Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15 17.13 NMAC											
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMAC											
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15 17.13 NMAC											

19 Operator Application C	ertification:			
I hereby certify that the info	rmation submitted with this application is		best of my knowledge and belief	
Name (Print)	Crystal Tafoya	Title:	Regulatory Technician	
Signature:	motal apaya	Date:	7/28/2008	
e-mail address:	crystal tafoya@conocophilips.con	Telephone Telephone	505-326-9837	
20 OCD Approval: Pe	rmit Application (including closure p	lan) Closure Plan (only)	OCD Conditions (see attachr	ment)
OCD Representative Sig	gnature: Boll D		Approval Date:	8-4-08
Title: Enui	no Spec	OCD Perr	nit Number:	
Instructions: Operators are report is required to be subt	ed within 60 days of closure comple required to obtain an approved closure p mitted to the division within 60 days of th ween obtained and the closure activities h	olan prior to implementing any clos e completion of the closure activition wave been completed.	ure activities and submitting the closur	
Closure Method: Waste Excavation at	nd Removal On-site Closure proved plan, please explain.	Method Alternative Closure	Method Waste Removal (Clos	ed-loop systems only)
	Waste Removal Closure For Closed-lo y the facility or facilities for where the li			
Disposal Facility Name:		Disposal Facility	Permit Number:	
Disposal Facility Name:		Disposal Facility	Permit Number:	
	stem operations and associated activities	· —	ot be used for future service and opear	tions?
	emonstrate complilane to the items below	_		
	reas which will not be used for future ser hoto Documentation)	vice and operations:		
Soil Backfilling and				
Re-vegetation Appli	cation Rates and Seeding Technique			
the box, that the docume Proof of Closure N Proof of Deed Not Plot Plan (for on-s Confirmation Sam Waste Material Sa Disposal Facility N Soil Backfilling an Re-vegetation App	Notice (surface owner and division) uce (required for on-site closure) ite closures and temporary pits) pling Analytical Results (if applicable impling Analytical Results (if applicable implication Results (if applicable implication Rates and Seeding Technique implication Documentation)	e) ole)	ached to the closure report. Please in	
25				
Operator Closure Certif		the Joseph raport is to be	and governments to the board of the board	ada a mad bala a E. I. al. a sanat Carta a
	rmation and attachments submitted with l applicable closure requirements and co			age and venej. I also certify that
Name (Print)		Title		
Signature		Date:		
e-mail address:		Telephone		

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30N Range: 11W Section	ons: 3,4,5									
NAD27 X: Y: Zon	e: Search Radius:									
County: Basin:	Number: Suffix:									
Owner Name: (First) (Last)	Non-Domestic C Domestic									
POD / Surface Data Report Avg Depth to Water Report										
Water Column Report Clear Form Clear Form WATERS Menu Help										

WATER COLUMN REPORT 07/25/2008

(qu	arter	s are	e 1=ì	W	2=	=NE	3=SW 4	=SE)				
(qu	arter	s are	e big	gge	est	: to	o small	est)		Depth	Depth	Wat∈
POD Number	Tws	Rng	Sec	q	q	q	Zone	х	Y	Well	Water	Colum
SJ 01437	30N	11W	03	1						40	28	1
SJ 03121	30N	11W	03	1	2	4				36	12	2
SJ 02049	30N		03	1	3					26	8	1
SJ 01339	30N	11W	03	1	3	1				40	15	2
SJ 02835	30N	11W	03	1	3	2				26	8	1
SJ 00350	30N	11W	03	1	3	2				46	12	3
SJ 02814	30N	11W	03	1	3	2				31	8	2
SJ 01441	30N	11W	03	1	3	2				48	20	2
SJ 01387	30N	11W	03	1	4					40	18	2
SJ 03698 POD1	30N	11W	03	1		1				40	5	3
SJ 02785	30N	11W	03	1	4	2				31	5	2
SJ 01805	30N	11W	03	2						35	20	1
SJ 01313	30N	11W	03	2						70	58	1
SJ 01807	30И		03		1	_				50	30	2
SJ 02781	30И	11W	03	2	1	2				48	23	2
SJ 01202	30N	11W	03	2	1	2		0.604.50	0405450	35	8	2
SJ 03758 POD1	30N	11W	03	2	1	2		268158	2127473	49	21	2
SJ 03765 POD1	30N	11W	03	2	1	2		268163	2127605	43	20	2
SJ 03756 POD1	30N	11W	03	2	1	2		268179	2127870	41	20	2
SJ 02786	30N	11W	03	2	3	1				51	24	2
SJ 01901	30N	11W	03	2	3	2				60	26	3
SJ 00698	30N	11W	03	2	3	3				44	14	3
SJ 01261	30N	11W	03	2	3	4				0.4	20	4
SJ 02930	30N	11W	03	2	4	4				81	64	1
SJ 02798	30N		03	2	4	4				80	61	1
SJ 00402	30N		03	3	^					32	18	1
SJ 00762	30N		03	3	2					47	22	2
SJ 01734	30N	11W	03	3	2					33	5	2

SJ 01440	30N	11W 03	3	2	3				41	21	2
SJ 01020	30N	11W 03	3	3					27	5	2
SJ 03242	30N	11W 03	3	3	1				23	9	1
SJ 03732 POD1	30N	11W 03	3 3	3	1				38	9	2
SJ 03239	30N	11W 03	3	3	3				33	12	2
SJ 01238	30N	11W 03	3 4	1					95	38	Ę
SJ 02245	30N	11W 03	3 4	1	3				66	30	3
SJ 01043	30N	11W 03	3 4	1	4				50		
SJ 01249	30N	11W 03	3 4	2					52	22	3
SJ 02824	30N	11W 03	3 4	2	1				70	50	2
SJ 02563	30N	11W 03	3 4	2	1				96	60	3
SJ 03153	30N	11W 03	3 4	. 2	1				80	. 60	2
SJ 03454	30N	11W 03	3 4	2	4				100		
SJ 03291	30N	11W 03	3 4	3	2				38	18	2
SJ 00366	30N	11W 03	3 4	4	4				33	18	1
SJ 01364	30N	11W 04	1 2						115	86	2
SJ 03076	30N	11W 04	1 2	2	3				44	10	3
SJ 02903	30N	11W 04	1 2	3	2				49	31	1
SJ 03039	30N	11W 04	1 4	. 1	2				53	40	1
SJ 01450	30N	11W 04	1 4	. 3					45	20	2
SJ 02941	30N	11W 04	. 4	. 3	2				58	37	2
SJ 01367	30N	11W 04	1 4	4	1				48	20	2
SJ 03407	30N	11W 0	. 4	4	4	W	453700	2124100	30	5	2
SJ 03267	30N	11W 09	5 2	1	3				83	60	2

Record Count: 52

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 31N	Range: 11W Sections: 32	2,33,34,27,28,29							
NAD27 X:	Y: Zone:	Search Radius:							
County:	Basin:	Number: Suffix:							
Owner Name: (First)	(Last)	C Non-Domestic C Domestic							
POD Surface Data Report Water Column Report									
Clear Form iWATERS Menu Help									

WATER COLUMN REPORT 07/25/2008

(quarters are 1=NW 2=NE 3=SW 4=SE)												
(qu	arter	s are	e big	gge	est	t to	smalle	est)		Depth	Depth	Wat∈
POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Well	Water	Colum
SJ_02482	31N	11W	27	4	1	2				75	55	2
SJ 03540	31N	11W	27	4	2	1				40	21	1
SJ 03600	31N	11W	27	4	2	1				51	39	1
SJ 03772 POD1	31N	11W	27	4	2	1	,	268239	2135717	41	30	1
SJ 02468	31N	11W	27	4	2	3				49	30	1
SJ 02914	31N	11W	27	4	2	3				25	.15	1
SJ 02871	31N	11W	27	4	2	4				22	11	1
SJ 02656	31N	11W	27	4	2	4				21	9	1
SJ 02676	31N	11W	27	4	3					19	7	1
SJ 02215	31N	11W		4	3					54	23	3
SJ 03247	31N	11W	27	4	3	1				70		
SJ 02549	31N	11W	27	4	3	3				49	30	1
SJ 03505	31N	11W		4	3	3				50	14	3
SJ 02853	31N	11W	27	4	3	4				22	6	1
SJ 03181	31N	11W	27	4	4	1				19	10	
SJ 02984	31N	11W		4	4	1				20		
SJ 02994	31N	11W	33	4	3	2				300	200	10
SJ 02993	31N	11W		4	3	2				280	160	12
SJ 01137	31N	11W		4	4	4				37	19	1
SJ 02277	31N	11W	34	1	2					16	7	_
SJ 01533	31N	11W		1	4					58	40	1
SJ 02167	31N	11W		1	4					83	69	1
SJ 01251	31N	11W	34	1	4					79	65	1
SJ 03211	31N	11W		1	4	1				24	14	1
SJ 01125	31N			1	4	2				59	42	1
SJ 00632	31N	11W		2						. 25	7	1
SJ 01656	31N	11W		2						20	6	1
SJ 00656	31N	11W	34	2						30	8	2

			_				0.0	_	-
SJ 01657	31N	11W 34	2				20	6	1
SJ 01675	31N	11W 34	2				33	7	2
SJ 00631	31N	11W 34	2				30	11	1
SJ 01618	31N	11W 34	2 1				28	8	2
SJ 03448	31N	11W 34	2 1				41	21	2
SJ 01267	31N	11W 34	2 1				65	45	2
SJ 03316	31N	11W 34	2 1				30	10	2
SJ 00660	31N	11W 34	2 1				50	30	2
SJ 01840	31N	11W 34	2 1				65	25	4
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 02119	31N	11W 34	2 3				11	3	
SJ 00659	31N	11W 34	2 3				33	11	2
SJ 02113	31N	11W 34	2 3				12	4	
SJ 00661	31N	11W 34	2 3				52	32	2
SJ 02972	31N	11W 34	2 3				15	5	1
SJ 03107	31N	11W 34	2 4	1 1			18	8	1
SJ 03106	31N	11W 34	2 4	1 1			25		
SJ 03183	31N	11W 34	2 4	14			19	6	1
SJ 03780 POD1	31N	11W 34	3 1	L 2	267922	2130341	28	12	1
SJ 02859	31N	11W 34	3 1				22	6	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	3 2				22	5	1
SJ 03065	31N	11W 34	3 2	2 3			22	7	1
SJ 02967	31N	11W 34	3 2	2 3			20	5	1
SJ 03014	31N	11W 34	3 2				30	5	2
SJ 03002	31N	11W 34	3 2				22		
SJ 02861	31N	11W 34	3 3				21	7	1
SJ 03220	31N	11W 34	3 3				20	6	1
SJ 03710 POD1	31N	11W 34	3 3				20	4	1
SJ 03042	31N	11W 34	3 3				23	6	1
SJ 03048	31N	11W 34	3 3	3 4			21	4	1
SJ 02857	31N	11W 34	3 4				23	6	1
SJ 03492	31N	11W 34	3 4				30		
SJ 03357	31N	11W 34	3 4				22	6	1
SJ_03631	31N	11W 34	3 4	12			27	6	2
SJ 03493	31N	11W 34	3 4	1 2			25	15	1
SJ 03609	31N	11W 34	3 4				27	6	2
SJ 03260	31N	11W 34	3 4	4			41	3	3
SJ 01608	31N	11W 34	4				48	17	
SJ 03720 POD1	31N	11W 34		L 3			21	6	1
SJ 03402	31N	11W 34		L 4			25		
SJ 03497	31N	11W 34		L 4			30	10	2
SJ 03377	31N	11W 34	4 2				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				48	20	2
SJ 00985	31N	11W 34	4 4	1			40	16	2

Record Count: 79

P-33-31N-11W

Ground Bed Drilling Log

Company: Burlington Resource

Location: Sec. D.20-04-197 Ground Bed Depth: 300 ft

Indicate Water Zone Depth: 100'-wet_sand Isolation Plugs Set: NO

Coke: 2400 lbs.

Anodes: 10

Perforate Pipe: 105' -- 300'

Power Source: Battery

CASNG: 80' of Steel Casing

Depth **Drilling Log** Ft

00'-80' River Boulders/Gravel 80'-100' Sand Stone

Shale 100'-120' 120'-160' Shale w/ Sand

160'-200 Sand Stone 200'-220' Shale w/ Sand

220'-240' Shale 240'-250' Sand Stone 250'-290' Shale 290'-300' Sand Stone

175' 180' 185' 190' 195' 200' 205' 210' 215' 220' 225' 230' 235'

1.8 1.5 1.4 2.5 2.6 2.6 2.2 1.9 2.4 240' 2.3 2.2 245' 250' 2.2 255' 2.1 260' 265' 2.2 270' 3.3 275' 3.4 280' 3.6 285' 3.3 290' 3.1 3.3 295' 300' 3.2

Well: Heaton # 1 A Dual Well: Oliver #3

Diameter: 6 3/4"

If So Where:

Type: Loresco SWS

Total Weight: 2400 lbs Type: Silicon Iron Type D Weight: 45 lbs.

Coke Depth: 105' -- 300' Amps: 21.4 Resistance: .64

Date: 3/1/2005

State: N.M.

Volts: 13.6

Logged	Anodes Log Coked	Depth	Remarks		
1.9					
1.9 2.1					
1.6					
1.8 1.5	3.6	# 10			
1.4	3.0	# 10			
2.5	5.1	#9			
2.6 2.6	5.3	#8			
2.2					
1.9 2.4	4.9	#7			
2.3	5.3	#6			
2.2					
2.2 2.1	5.8	# 5			
2	4.7	# 4			
2.2		" •			
3.3 3.4	5.7	#3			
3.6	6	#2			
3.3	_				
3.1 3.3	5	#1			
3.3· 3.2					

RECEIVED DEC 1 2 1977

WEW FEDERO OF LICONSERVATION COMMISSION 1-BLUGGITAC AND CORRESPONDS TAT

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1 1 977 4 I 790	Month of Mell. toer from the Producing	SOUTH		1190	est hun he	FAST	ine	
	Freducing	- E.C	· · · · · · · · · · · · · · · · · ·				วิหมายโลยได้แป้	<u>-</u>
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No offewable postug, er oti	will be assigned the	o the well until o you stor fero	off interests unit, elimina	have been co	nsolicated (by rests, has been	communit zat	ion, unitiza ne Commiss	tion forced-

CERTIFICATION

I haveby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Corrouny

Corrouny

Date

I hereby certify that We well location shown and this plat was platted from fixed notes, who accuses.

this plat was plotted from field notes of octuber surveys made by me or underlying supervision, and that the same is true and correct to the lead of my knowledge and belief.

26 November 1977

Date Surveyed

Ferfield Professional Engineer

The Lond Surveyor James 2. Linese

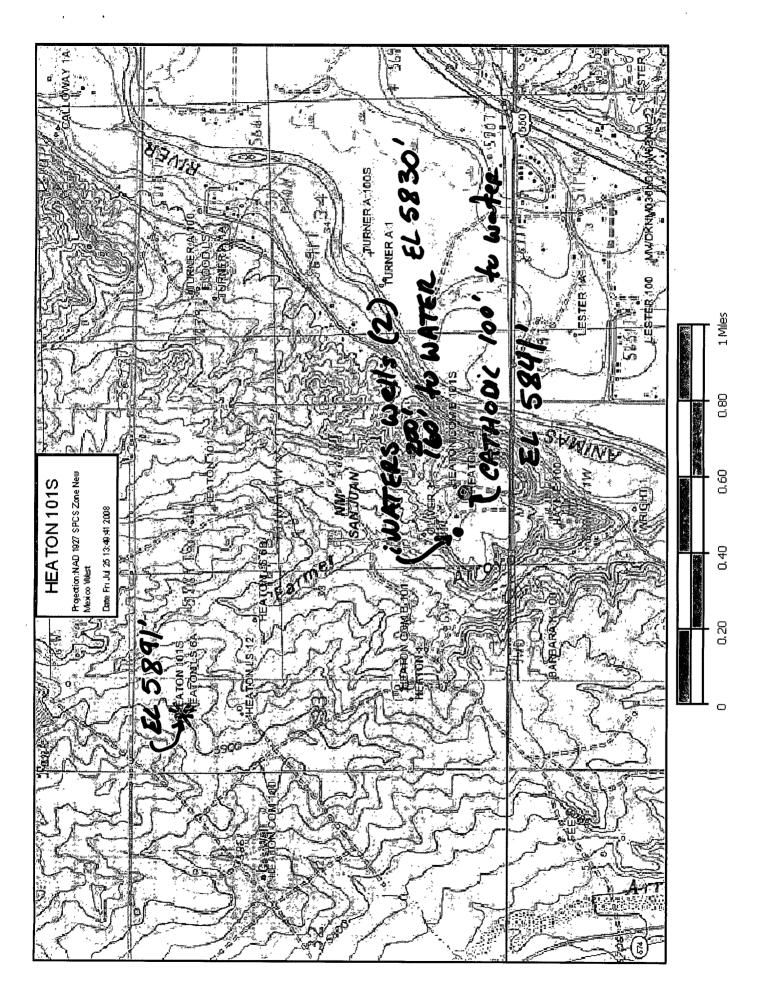
SCALE— INCHES EQUALS 1 MILE

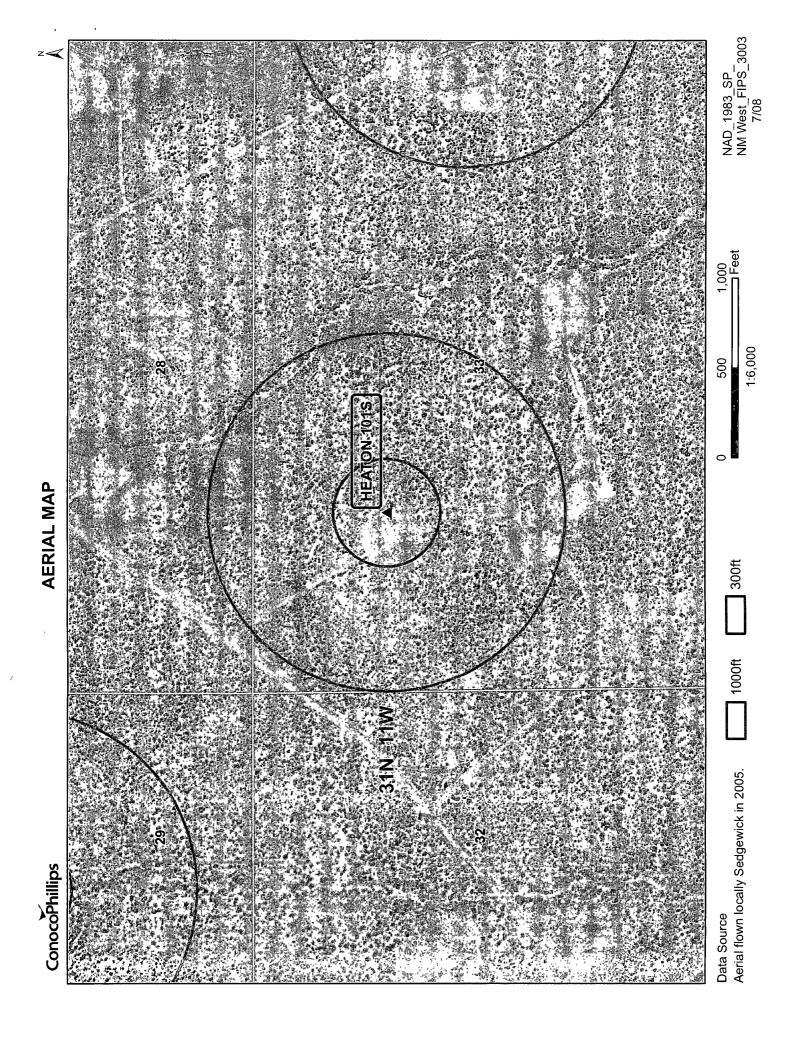
DAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

Certificate No 1463

REC | EDDEC | 2 1977

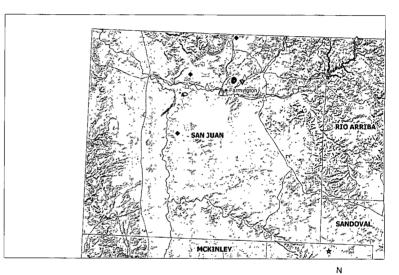
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DISTRIBUTION	NEW	MEXICO OU CONS	ERVATION COMMISSIO	IN Fran	- C 101	
SANTA FE	HER MEXICO OIL CONSERVATION COMMISSION				Form C+101 Revised 1-1-65	
FILE			51	5A. Indicate Type of Lease		
U.S.G.S.				į	STATE PEE X	
LAND OFFICE				S.	State Oil & Gas Lease No.	
OPERATOR				į		
				177		
APPLICATION APPLIC	ON FOR PERMIT TO	DRILL DEEPEN	OR PLUG BACK			
In. Type of Work			/	7.	Unit Agreement Name	
	٦	0558511				
b. Type of Well DRILL	Ú	DEEPEN	PLUG	BACK B.	Farm or Lease Name	
OIL GAS WELL	OTHER		SINGLE X MU	LTIPLE	leaton	
2. Name of Operator	D OTHER		2012		Well No.	
W. P. Carr				1	I A	
3. Address of Operator					Field and Pool, or Wildcat	
6700 Forest Lar	ne, Dallas, Texa	s 75230		1	Blanco-Mesaverde	
			FEET FROM THE SOUT			
UNIT LETT	TER LOC	ATED	FEET FROM THE	_7LINE		
AND 1190 FEET FROM	ATHE East LIN	IE OF SEC. 33	TWP. 3/ N RGE. //	LO NMPM		
THINITINE TO THE			Million III	17/1/1/12.	County	
					an Juan	
<i>(††††††††††</i>	44444	<i>HHHHHH</i>				
	/////////////////////////////////////	44444	19. Proposed Depth	19A. Formation	20. Rotary or C.T.	
			4500	Me sa verde	Rotary	
21. Elevations (Show whether Di	RI, etc.) 21A. Kind	& Status Plug. Bond	21B. Drilling Contractor	22	2. Approx. Date Work will start	
5841 G.L.	Blank	e t	Young Drilling	Co.	1/2/78	
23.	P	ROPOSED CASING AN	ID CEMENT PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SETTING DEPTH	SACKS OF CE	MENT EST. TOP	
12 1/4	8 5/8	32	200		200 Surface	
8 3/4	7	17	2650		50	
6 1/4	4 ½	9.5	2500 - 4500		50	
				1		
BOP equipment to Gas is dedicate	o be furnished b	PROPOSAL 15 TO DEEPEN	OR PLUG BACK, GIVE DATA DI		gas well.	
I hereby certify that the informati	on above in true and comp	lete to the best of my i	knowledge and belief.	•		
Suned 3 21 -1	This -	TitleAgent		Date	12/8/77	
(This space for	State Usej					
APPHOVED BY		TITLE		DATE	·	





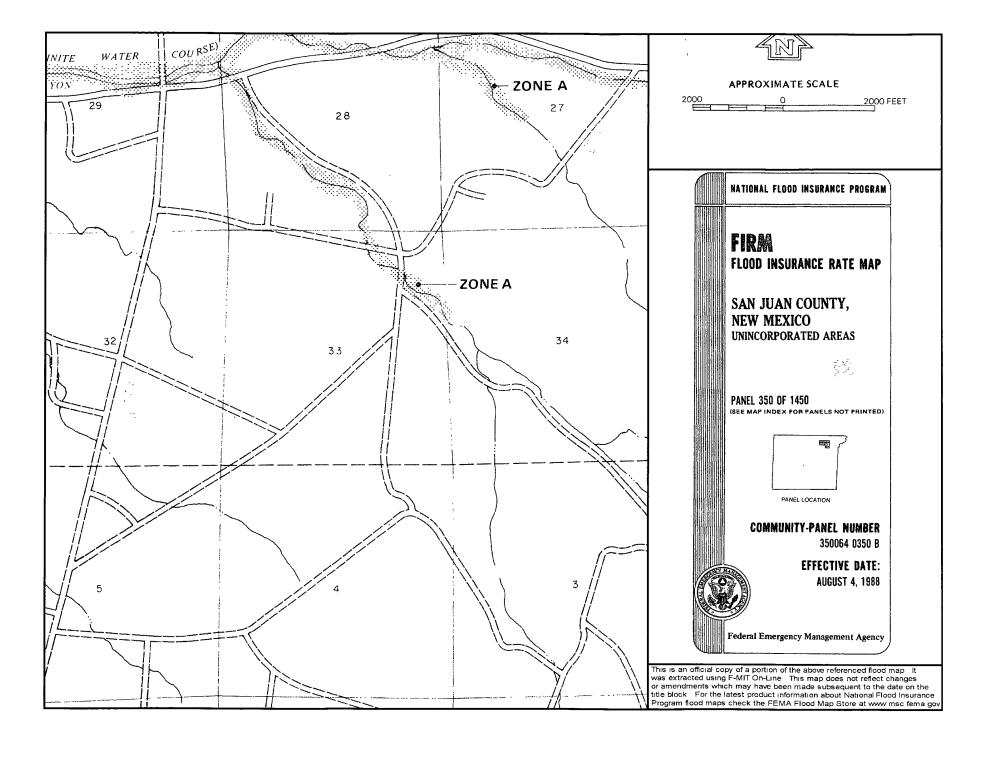
Heaton #101S Mines, Mills and Quarries Web Map

Mines, Mills & Quarries Commodity Groups				
Δ	Aggregate & Stone Mines			
*	Coal Mines			
*	Industrial Minerals Mines			
₹	Industrial Minerals Mills			
Ø	Metal Mines and Mill Concentrate			
C	Potash Mines & Refineries			
2	Smelters & Refinery Ops.			
*	Uranium Mines			
•	Uranium Mills			









Siting Criteria Compliance Demonstrations

The Heaton #101S is not located in an unstable area. The location is not over a mine and is not on the side of a hill. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse.

Hydrogeological report for Heaton #101S

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.

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.

Tafoya, Crystal

From:

Tafoya, Crystal

Sent:

Monday, July 28, 2008 9:54 AM

To:

'mark_kelly@nm.blm.gov'

Subject:

Surface Notification

The following temporary pits will be closed on-site. The new OCD Pit Rule 17 requires the surface owner to be notified. Please feel free to contact me at any time if you have any questions. Thank you!

Heaton #101 Heaton #101S

Thanks,

Crystal L. Tafoya Regulatory Technician *ConocoPhillips Company* San Juan Business Unit Phone: (505) 326-9837

Email: Crystal.Tafoya@conocophillips.com

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II 1301 West Grand Avenue, Artesia, N.M. 88210 OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 67505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

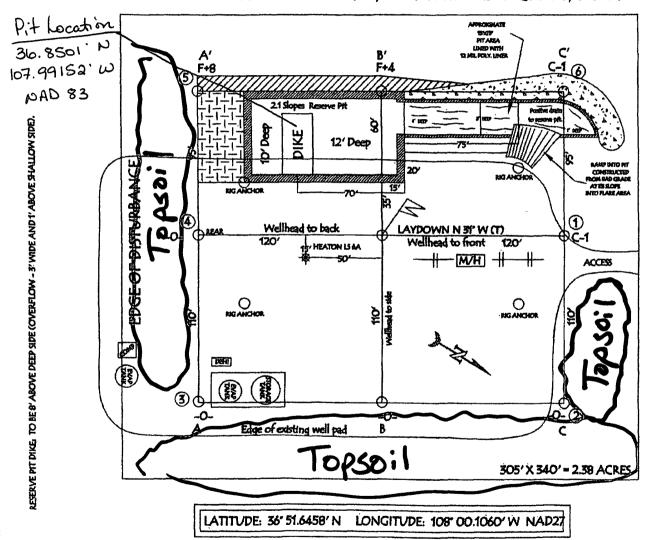
DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

☐ AMENDED REPORT

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 67505

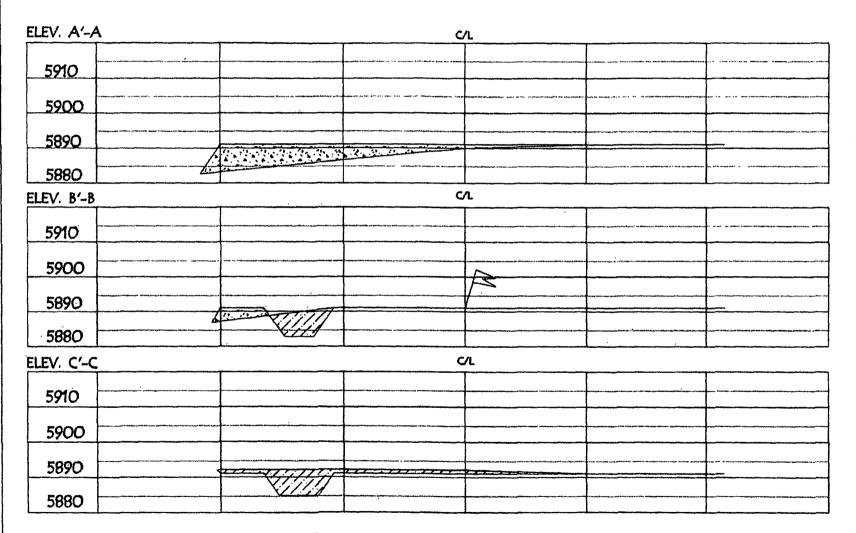
'AP! Number 30-045-34359	⁹ Pool Code 71629/	Code Pool Name BASIN FRUITLAND COAL,				
*Property Code		*Property Name				
7105		ATON		1018		
OGRID No.	⁶ Opc	rator Name		• Elevation		
14538	Burlington Resou	RCES OIL AND GAS, LP	,	5891		
	¹⁰ Surf	ace Location				
IL or lot no. Section Tow	ship Range Lot idn Fest from	the North/South line Feet	from the East/We	1 11 1		
D 33 31	N 11-W 725'	NORTH 8	300' WE	san juan		
	11 Bottom Hole Locati	on If Different From S	urface	,		
UL or lot no. Section Tow	ship Range Lot Idn Feet from	the North/South line Feet	from the East/We	est line County		
		LETION UNTIL ALL INTE		EEN CONSOLIDATEI		
800' \$ 89' 28' 39'	LAT: 3651.8458' LONG: 10800.106 NAD 1927 LAT: 36.860767' LONG: 108.00239' NAD 1983 LOT 2	o' F' '	I hereby certify that t is true and complete belief, and that his o	A CERTIFICATION the information contented hereinted to the bask of my broadsides and operations other owns unleased instanced interest in the pased bottom hade location, prayant or is well at this location, prayant or other owns. A mineral or in a columbary positing agreement is order hereinforce aniscrut by the		

BURLINGTON RESOURCES OIL & GAS COMPANY LP HEATON 100S, 725' FNL & 800' FWL SECTION 33, T-31- N, R-11-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 5891', DATE: MARCH 14, 2007



CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES

BURLINGTON RESOURCES OIL & GAS COMPANY LP HEATON 1005, 725' FNL & 800' FWL SECTION 33, T-31-N, R-11-W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 5891', DATE: MARCH 14, 2007



NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED
PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

Burlington Resources Oil & Gas Company, LP San Juan Basin Pit Design and Construction Plan

In accordance with Rule 19.15.17 the following information describes the design and construction of temporary pits on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

- 1. BR will design and construct a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3. BR will post a well sign, not less than 12" by 24", on the well site prior to construction of the temporary pit. The sign will list the operator on record as the operator; the location of the well site by unit letter, section, township range; and emergency telephone numbers.
- 4. BR shall construct all new fences utilizing 48" steel mesh field-fence (hogwire) on the bottom with a single strand of barbed wire on top. T-posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T-post. Temporary pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes.
- 5. BR shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure.
- 6. BR shall construct the pit so that the slopes are no steeper than two horizontal feet to 1 vertical foot.
- 7. Pit walls will be walked down by a crawler type tractor following construction
- 8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- 9. Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.
- All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. BR will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. BR will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. BR will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 13. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into lined drill pit.
- 16. The lower half of the blow pit (nearest lined pit) will be lined with the same 20 mil liner. The upper half of the blow pit will remain unlined as allowed in Rule 19.15.17.11 F.11.
- 17. BR will not allow freestanding liquids to remain on the unlined portion of a temporary blow pit.

Burlington Resources Oil & Gas Company, LP San Juan Basin Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of temporary pits on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

- 1. BR will operate and maintain a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. BR will conserve drilling fluids by transferring liquids to pits ahead of the rigs whenever possible. All other drilling fluids will be disposed at Basin Disposal Inc., permit # NM-01-005.
- 3. BR will not discharge or store any hazardous waste in any temporary pit.
- 4. If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, then BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner.
- 5. If a leak develops below the liquid's level, BR shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner. BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels BR shall notify the Aztec Division office 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.
- 6. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 7. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 8. BR shall immediately remove any visible layer of oil from the surface of the temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from the pit's surface. An oil absorbent boom will stored on-site until closure of pit.
- 9. Only fluids generated during the drilling or workover process may be discharged into a temporary pit.
- 10. BR will maintain the temporary pit free of miscellaneous solid waste or debris.
- 11. During drilling or workover operations, BR will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged in the IADC reports. BR will file this log with the Aztec Division office upon closure of the pit.
- 12. After drilling or workover operations, BR will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at BR's office electronically and will be filed with the Aztec Division office upon closure of the pit.
- 13. BR shall maintain at least two feet of freeboard for a temporary pit.
- 14. BR shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the drilling rig.
- 15. BR shall remove all free liquids from a cavitation pit within 48 hours after completing cavitation. BR may request additional time to remove liquids from the Aztec Division office if it is not feasible to remove liquids within 48 hours.

Burlington Resources Oil & Gas Company, LP San Juan Basin Closure Plan

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of temporary pits on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

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 pit closure. Closure report will be filed on C-144 and incorporate the following:

- Details on Capping and Covering, where applicable.
- Plot Plan (Pit Diagram)
- Inspection Reports
- Sampling Results
- C-105
- Copy of Deed Notice will be filed with County Clerk

- 1. All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division—approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves.
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
- 3. The surface owner shall be notified of BR's closing of the temporary pit as per the approved closure plan using certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure 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.
- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at a licensed disposal facility.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	(1000/500

- 9. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. 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. If standard testing fails BR will dig and haul all contents pursuant to 19.15.17.13.i.a. After doing such, confirmation sampling will be conducted to ensure a release has not occurred.
- 10. During the stabilization process if the liner is ripped by equipment the Aztec OCD office will be notified within 48 hours and the liner will be repaired if possible. If the liner can not be repaired then all contents will be excavated and removed.
- 11. Dig and Haul Material will be transported to the Envirotech Land Farm located 16 miles south of Bloomfield on Angel Peak Road, CR 7175. Permit # NM010011
- 12. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Reshaping 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.
- 13. Notification will be sent to OCD when the reclaimed area is seeded.
- 14. 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 or Forest Service stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (unimpacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

Туре	Variety or Cultivator	PLS/A
Western wheatgrass	Arriba	3.0
Indian ricegrass	Paloma or ' Rimrock	3.0
Slender wheatgrass	San Luis	2.0
Crested wheatgrass	Hy-crest	3.0
Bottlebrush Squirreltail	Unknown	2.0
Four-wing Saltbrush	Delar	.25

Species shall be planted in pounds of pure live seed per acre: Present Pure Live Seed (PLS) = Purity X Germination/100

Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality)

Purity

Source No. two (better quality)

Purity

Source No. two (better quality)

Purity

80 percent

Germination

40 percent

Percent PLS

20 percent

Percent PLS

Source No. two (better quality)

Purity

80 percent

Percent PLS

50 percent

5 lb. bulk seed required to make 2 lb. bulk seed required to make

1 lb. PLS 1 lb. PLS

15. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.

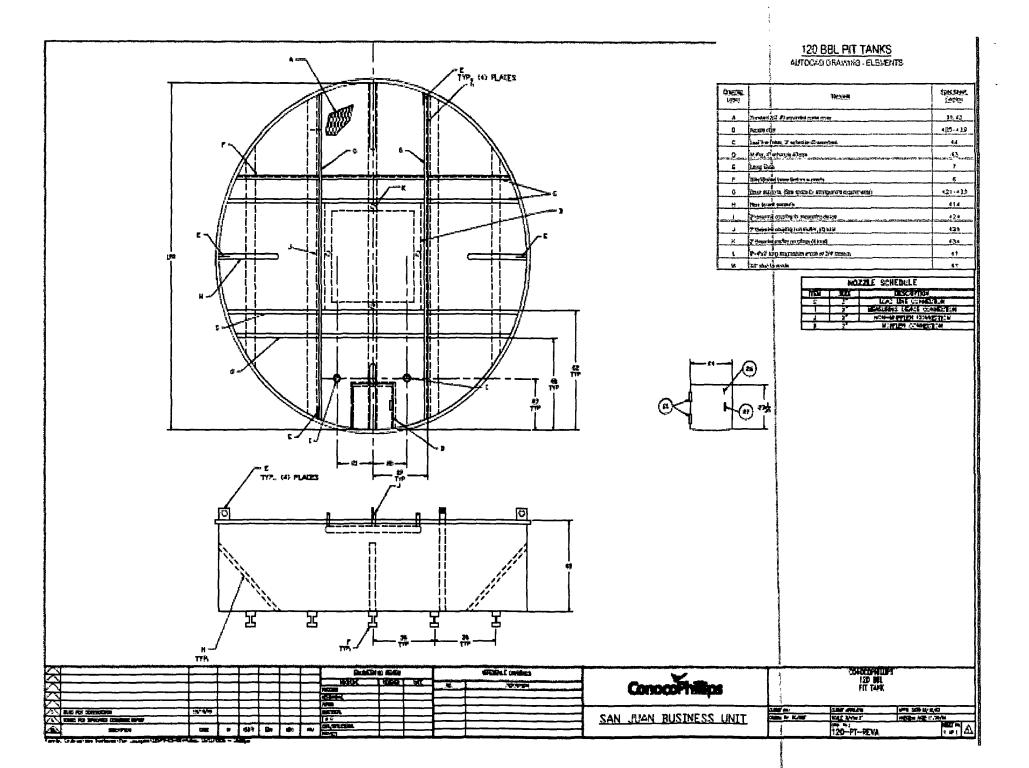
Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Design and Construction

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.

- 1. BR will design and construct a BGT to contain liquids and to prevent contamination of fresh water and protect public health and environment.
- 2. BR will use the general location sign posted on location. If no general sign is posted a separate sign at the location of the BGT will be provided.
- 3. BR shall construct 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.
- 4. BR will construct a 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.
- 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.
- 7. BR shall construct a below-grade tank to prevent overflow and the collection of surface water run-on.
- 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 shall equip below-grade tanks designed in this manner with a properly operating automatic high-level shut-off control device and manual controls to prevent overflows.
- 10. The geomembrane liner shall consist of 30-mil flexible PVC or 60-mil HDPE liner, or an equivalent liner material that the appropriate division district office approves. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions. The liner material shall be resistant to

ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A.

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



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 Pit (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.

- 1. BR will operate and maintain a BGT to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. BR shall not allow a below-grade tank to overflow or allow surface water run-on to enter the below-grade tank.
- 3. BR shall continuously 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.
- 4. BR shall inspect the below-grade tank at least monthly and maintain a written record of each inspection for five years.
- 5. BR shall maintain adequate freeboard to prevent overtopping of the below-grade tank.

Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19.15.17.12 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 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- 2. BR shall close an existing below-grade tank that does 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 after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- BR shall close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on C-144
- 4. 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.
- 5. BR shall 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.
- 6. 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.
- 7. 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.

- 8. 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.
- If contamination is confirmed by field sampling. BR will follow the Guidelines For Remediation Of Leaks, Spills, and Releases NMOCD August 1993 when remediating contaminants identified
- 10. 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.
- 11. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 12. 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:
 - Details on Capping and Covering, where applicable.
 - Inspection Reports
 - Sampling Results
- 13. 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.
- 14. 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 or Forest Service stipulated seed mixes will used on federal 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. Repeat seeding or planting will be continued until successful vegetative growth occurs.

- 15. 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.
- 16. The surface owner shall be notified of BR's closing of the below-grade tank as per the approved closure plan using certified mail, return receipt requested.