1625 N French Dr , Hobbs. NM 88240

District II 1301 W Grand Ave , Artesia, NM 88210

District III 1000 Rio Brazos Rd , Aztec. NM 87410

District IV

1220 S St Francis Dr , Santa Fe, NM 87505

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

Form C-144

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

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

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closura Plan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
Modification to an existing permit
X Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of hability should operations result in pollution of surface water, ground water or the environment. Not does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: HUERFANITO UNIT 177
API Number: 30-045-34651 OCD Permit Number
U/L or Qtr/Qtr: H(SE/NE) Section: 28 Township: 27N Range: 9W County: San Juan
Center of Proposed Design: Latitude: 36.548541 °N Longitude: 107.787465 °W NAD: 1927 X 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
2 RCUD JUL 22 '01' X Pit: Subsection For G of 19 15.17 11 NMAC
Temporary X Dulling Workever
Permanent Emergency Cavitation P&A
X Lined Unlined Liner type: Thickness 12 mil X LLDPE HDPE PVC Other
X String-Reinforced
Liner Seams: X Welded X Factory Other Volume: 4400 bbl Dimensions L 65' x W 45' x D 10'
3 Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or
notice of intent)
Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE HDPE PVD Other
Liner Seams: Welded Factory Other
4
Below-grade tank: Subsection I of 19.15.17 11 NMAC
Volume:bbl Type of fluid:
Tank Construction material:
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other
Liner Type: Thickness mil HDPE PVC Other
5
Alternative Method:
Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19 15.17 11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)								
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)								
Four foot height, four strands of barbed wife evenly spaced between one and four feet								
X Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top.								
Netting: Subsection E of 19 15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)								
		[
Screen Netting Other								
Monthly inspections (If netting or screening is not physically feasible)								
8								
Signs: Subsection C of 19 15.17.11 NMAC								
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers								
X Stgned 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 consi	deration of ap	proval.						
(Fencing/BGT Liner)	T.	-						
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval								
10								
Siting Criteria (regarding permitting): 19.15.17.10 NMAC	1							
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable	1							
source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the	İ	1						
appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for	ı	ł						
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.								
does not apply to drying paus 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.	Yes	□No						
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells								
Within 200 fact of a continuously flowing watercourse, or 200 fact of any other watercourse lakehold sinkhole or plays	□Yes							
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).	LJ 163							
- Topographic map; Visual inspection (certification) of the proposed site								
ropographic map, visual inspection (continuation) of the proposed site	_	_						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes	No						
application.								
(Applies to temporary, emergency, or cavitation pits and helow-grade tanks)	NA							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	المسا							
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	ΠNo						
(Applied to permanent pits)	□NA							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	1							
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering	Yes	No						
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.								
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.								
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes	No						
adopted pursuant to NMSA 1978, Section 3-27-3, as amended								
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	l							
Within 500 feet of a wetland.	Yes	No						
- US Fish and Wıldlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site		_						
Within the area overlying a subsurface mine.	Yes	No						
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division								
Within an unstable area.	Yes	□No						
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	L	ш						
Society; Topographic map								
Within a 100-year floodplain	Yes	□No						
- FEMA map	السا ا	⊔```						

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 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 (4) of Subsection B of 19.15.17.9 NMAC
Stung Criteria Compliance Demonstrations - 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 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
Situng 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 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 Below-grade Tank Closed-loop System
Alternative
Proposed Closure Method: Waste Excavation and Removal 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)
Weste Engagestion and Description and Description and Description (10.15.17.12.) PMACO V. According Facility of the following the standard description of the standard des
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.
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
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17 13 NMAC
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17 13 NMAC
Form C 144 Oil Consequenties Division Page 2 of 5

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 tare 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 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 Covei Design Specification - based upon the appropriate requirements of Subsection H of 19.15 17 13 NI 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 ·					
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 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.						
Ground water is less than 50 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 between 50 and 100 feet below the bottom of the buried waste	Yes X No					
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	N/A					
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 XNo					
- 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 X No					
	Yes X No					
Within 500 horizontal feet of a piivate, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	Yes X No					
 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 confirantion or verification or map from the NM EMNRD-Mining and Mineral Division	Yes X No					
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society,	Yes X No					
Topographic map						
Within a 100-year floodplain FEMA map	Yes X No					
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the cl by a check mark in the box, that the documents are attached.	osure plan. Please indicate,					
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/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC						
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements						
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.	AC					
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	s cannot be achieved)					
X 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						

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19 Operator Application Certification:		•
I hereby certify that the information submitted with this application is true, accur	ate and complete to the	best of my knowledge and belief.
Name (Print) Crystal Tafoya	Title.	Regulatory Technician
Signature	Date:	7/21/09
e-mail address: crystal afoya@conocophillips.com	Telephone	505-326-9837
OCD Approval: Permit Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Signature:		Approval Date: 7/29/09
Title: Envirolspec	OCD Perm	nit Number:
Closure Report (required within 60 days of closure completion): Subset Instructions: Operators are required to obtain an approved closure plan prior to report is required to be submitted to the division within 60 days of the completio approved closure plan has been obtained and the closure activities have been co	o implementing any closure of the closure activities ompleted.	re activities and submitting the closure report. The closure
22		
Closure Method:	[] Alternative Classics	Maked [Wate Bernard (Claud Law and an end
Waste Excavation and Removal On-site Closure Method If different from approved plan, please explain.	Alternative Closure	Method Waste Removal (Closed-loop systems only)
23 Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please identify the facility or facilities for where the liquids, drill were utilized.		
Disposal Facility Name:	Disposal Facility	Permit Number:
Disposal Facility Name.	Disposal Facility	
Were the closed-loop system operations and associated activities performed of Yes (If yes, please demonstrate complilane to the items below)	on or in areas that will no	or be used for future service and opeartions?
Regured for impacted areas which will not be used for future service and op	_	
Site Reclamation (Photo Documentation)		
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Technique		
24 <u>Closure Report Attachment Checklist:</u> Instructions: Each of the follothe box, that the documents are attached.	owing items must be atta	sched to the closure report. Please indicate, by a check mark in
Proof of Closure Notice (surface owner and division)		
Proof of Deed Notice (required for on-site closure)		
Plot Plan (for on-site closures and temporary pits)		
Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (if applicable)		
Soil Backfilling and Cover Installation		·
Re-vegetation Application Rates and Seeding Technique		
Site Reclamation (Photo Documentation)		
On-site Closure Location: Latitude:	Longitude:	NAD
25 Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure the closure complies with all applicable closure requirements and conditions spi	•	
Name (Print):	Title:	
e-mail address:	Date: Telephone:	



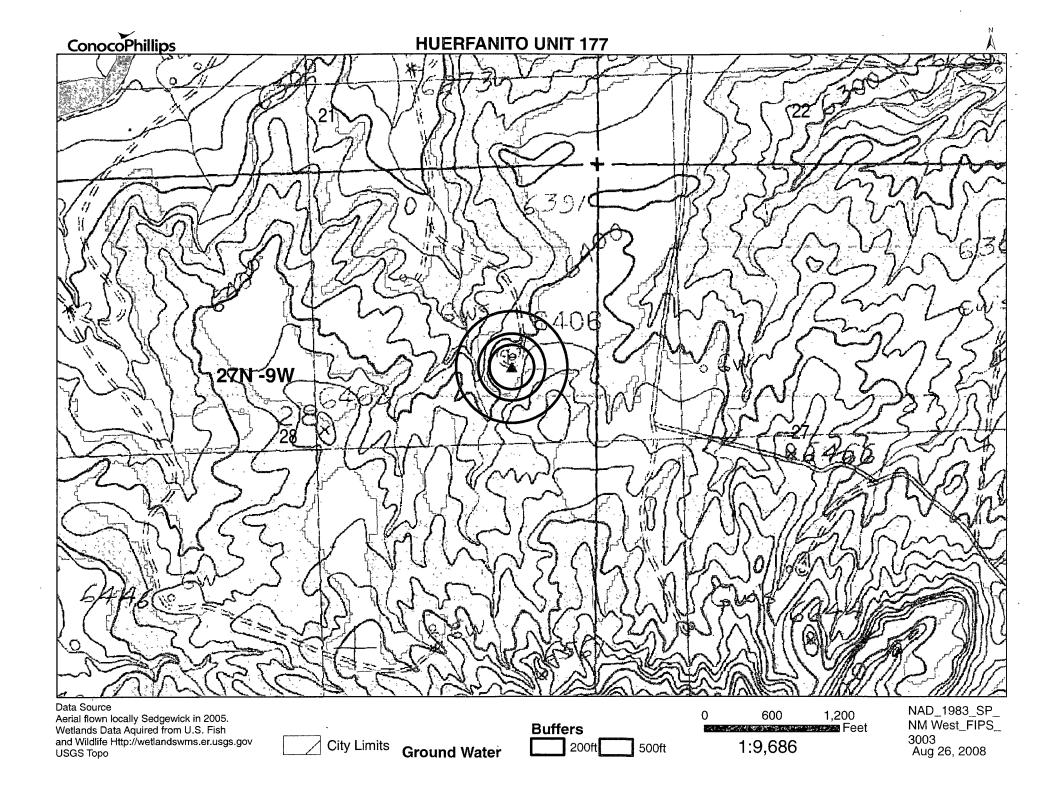
New Mexico Office of the State Engineer Water Column/Average Depth to Water

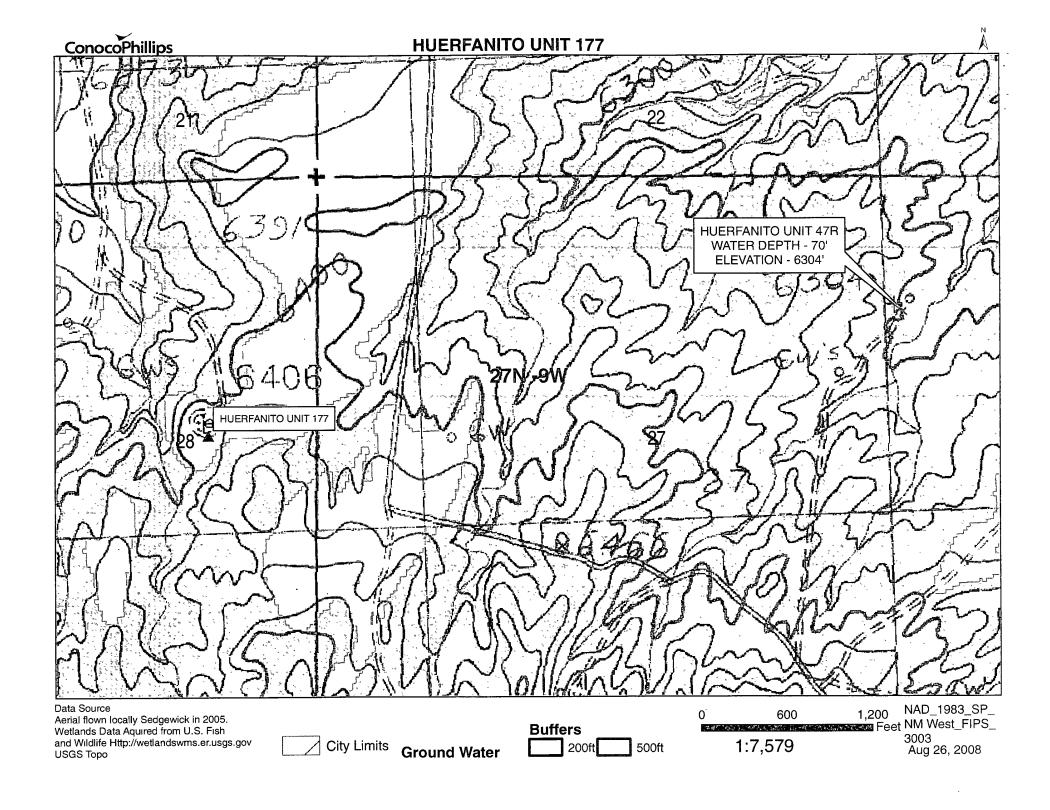
No records found.

PLSS Search:

Section(s): 20-22, 27-29, Township: 27N Range: 09W

32-34





TIERRA CORROSION CONTROL, INC DRILLING LOG

COMPANY: ConocoPhillips LOCATION: Huerfanito 47R

STATE: NM BIT SIZE: 7 7/8"

LBS COKE BACKFILL: 2,600# ANODE TYPE: 2" X 60" Duriron DATE: March 11, 2008 LEGALS: S27 T27N R9W DRILLER: Gilbert Peck

CASING SIZE/TYPE: 8" X 20' PVC

VENT PIPE: 300' ANODE AMOUNT: 10 COÜNTY: San Juan

DEPTH: 300°

COKE TYPE: Asbury PERF PIPE: 140'

BOULDER DRILLING: None

DEPTH	DRILLER'S LOG	AMPS	DEPTH	DRILLER'S LOG	AMPS
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		.5	390		
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2	280	1.5	3.9
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5	250	1.9	5.1
6	240	1.8	, 5.0
7	230	1.5	4.6
8	220	.8	3.3
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WATER DEPTH: 70' ISOLATION PLUGS: None LOGING VOLTS: 12.95

VOLT SOURCE: AUTO BATTERY

TOTAL AMPS: 14.5

TOTAL GB RESISTANCE: .89 REMARKS: Drilled groundbed at

entrance

Form 3160-4 (October 1990) *

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN DUPLICATE

FOR APPROVED

OMB	NO.	1004-0137
Expires:	Dece	ember 31, 1991

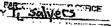
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k TYPE OF	COMPL	ETION.								· · · · · · · · · · · · · · · · · · ·	7. U	IT AGREEMEN Huorfani	
// 0.	NEW .	WOR	K DEEP-	PLUG [7	DIFF.	1		()	• • • • • •	B. FA		NAME WELL NO.
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2. NAME O	F OPER	ATOR									B. AF	WELL NO.	
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At total d	eath	Same	as above										RCVD FEB28'07
VII 2000 -										·	l		OIL CONS. DIV.
					14.	PERMIT	10,	DATE ISSUE	iD	, ,		OUNTY OR PARISH	1989# 3
												San Juar	New Mexico
15. DATE SP	משטטנ		E T.D. REACHEI			PL (Ready	to prod.)			EVATIONS (OF, F		BR, ETC.)*	19. ELEV. CASINGHEAD
/11/08 20. TOTAL DE	ייי ערמי		8/06	MCK T.D., MD 8	1/10/0		York of Co.	71 674	GL	6304'	KB	6315'	AIRIPEANA
O. IUIALDE	.∍'i⊓,MU	a I A D	ZI. PLUG,	8 QM "U.I <i>TUN</i> G	(1 AD)	22. IF MUL	HOW A			TERVALS RALED BY	KUTAR	T ICOLS	CASLETOOLS
	2375		2370			<u> </u>	2 _		1		yes		
4. PRODUCT	TION INTE	RVAL (B)	OF THIS COMPL	ETION-YOP, BO	TTOM,	NAME (ND A	מעד סאו)•				25. WAS DIRI SURVEY	
Basin !	Fruitia	nd Coa	l 2073' - 21	43"								SURVET	No
6. TYPE ELE			LOGS RUN			•		**************************************			27. WA	S WELL CORE	
Casec	hole	GR			to the day		****						No .
18.								(Report ali string					
CASING SIZ	E/GRADE		GHT, LBJFT.	CEPTH SET	(MED)	HOLE 8 3/4*	SIZE	Surface: 34 e		EMENTING RECO	IRD	3 bbts	AMOUNT PULLED
4 1/2"			5# J-55	2372		6 1/4"		TOC surface				20 bb/s	
SIZE	TOP (I	<i>a</i> n 1	LINER R	SACKS CEM	CAITA	SCREE	P (1 65)	30.		T propies		ISING RECO	
312.0	100 (1	~, ·	CH TOM (MC)	OUCKS CEM	CNI	SURCE	u (sers)	2-3/8"		DEPTH SET	MD)		PACKER SET (MO)

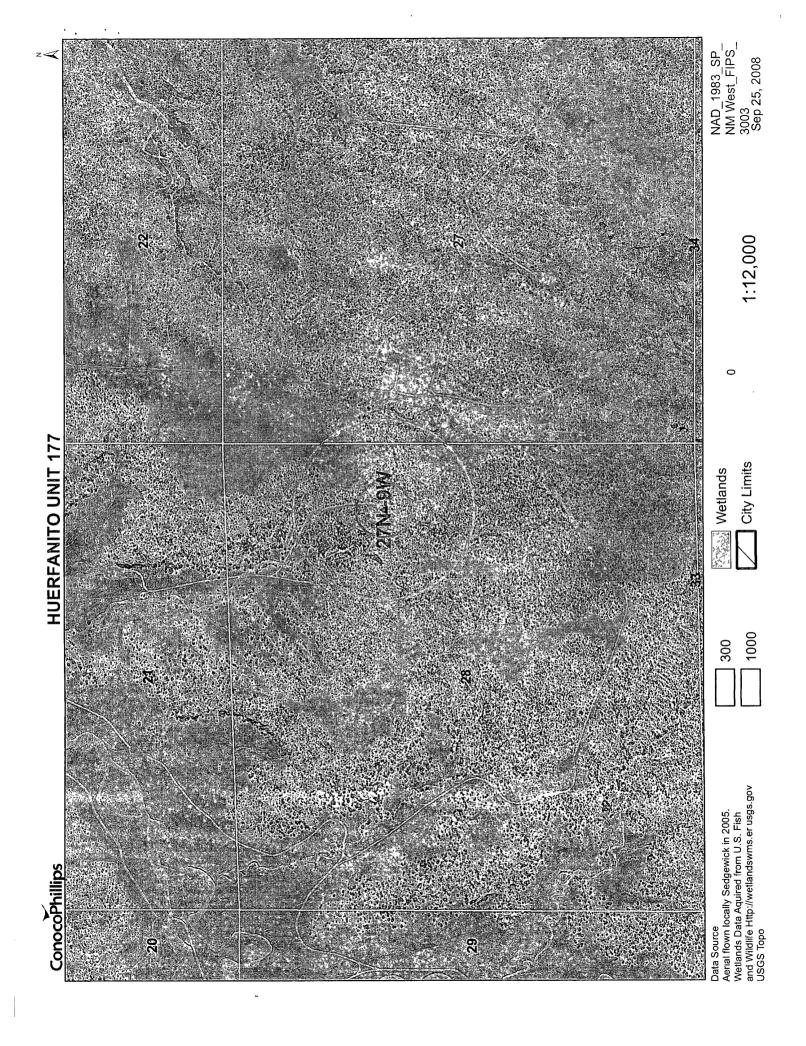
PERFORA 1SPF	TION REC	CORD (Init	rvel. Step and nu	mber)		32.		AC	D, SH	OT, FRACTURE,	CEME	NT SQUEEZE	LETC.
, 13ee)73' - 209	0 = 18	holas				2073' - 2	143		1167	32; 10% Spear 8 col 75/3 28d	nead,	1932 gai 26	# X-Link pad, ad, 140,000# 20/40
106" - 21	23' = 11	9 holes						·		na Sand, 482			114, 170,000# £0140
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tal holes	= 50												
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3.						<u> </u>		ODUCTION					
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*(See Instructions and Spaces for Additional Data on Reverse Side)

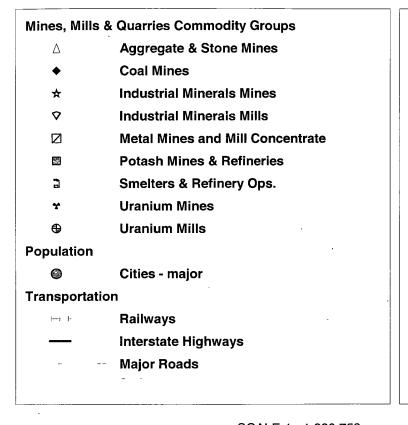
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department of agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

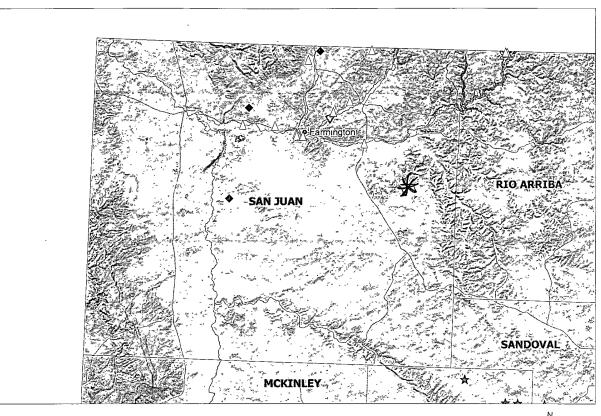
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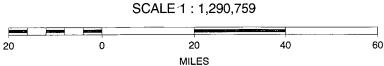




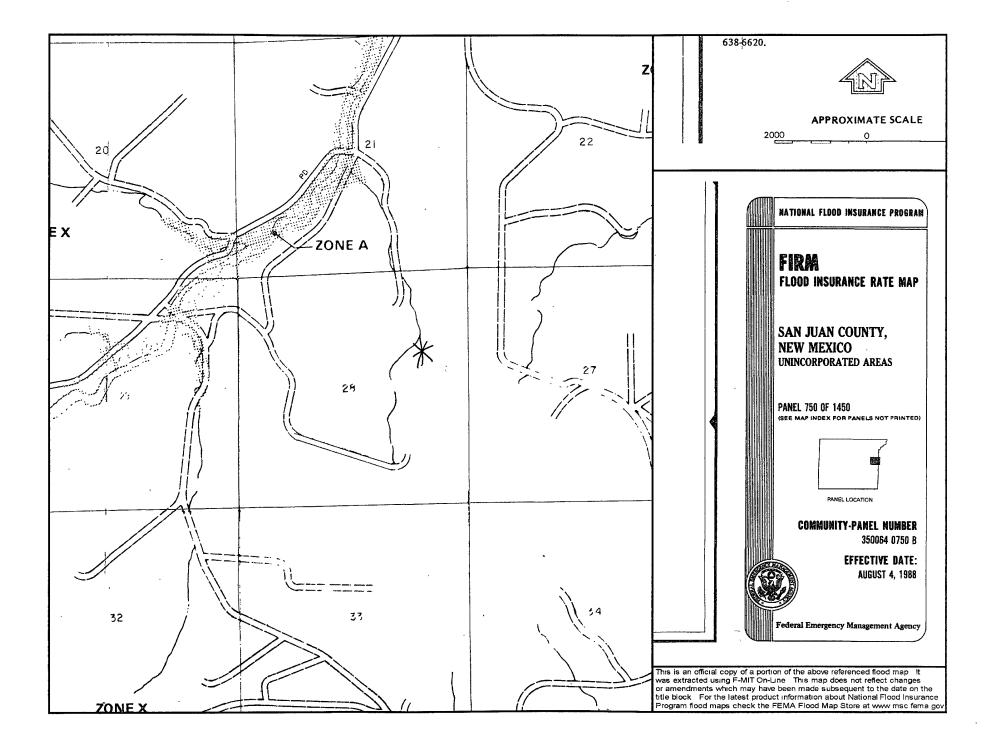
HUERFANITO UNIT 177 MINES, MILLS & QUARRIES WEB MAP











Hydrogeological Report for HUERFANITO UNIT 177

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 commformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett, 1974, p. 229). The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971, p. 34); thus, in this area, the two formations occupy the same stratigraphic interval.

Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall, 1973, p. 201). In general, the Nacimiento consists of drab, interbedded black and gray shale with discontinuous, white, medium- to very coarse grained arkosic sandstone (Stone e al., 1983, p.30). Stone et al. indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope-forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones. Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet. The unit generally thickens from the basin margins toward the basin center (Steven et al., 1974). The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973, p. 201). The thickness of the combined San Jose, Animas, and Nacimiento Formations ranges from 500 to more than 3.500 feet.

Hydraulic Properties:

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

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

References:

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

552, 101 p.

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

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

Fassett, J.E., and Hinds, J.S., 1971, Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado: USGS Professional Paper 676, 76 p.

Levings, G.W., Craigg, S.d., Dam, W.L., Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico, Colorado, Arizona, and Utah: USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets.

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.

Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Huerfanito Unit 177 is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. The Cathodic well data from the Huerfanito Unit 47R has an elevation of 6304' and groundwater depth of 70'. The subject well has an elevation of 6411' which is 107' greater than the Huerfanito Unit 47R, therefore the groundwater depth is greater than 100'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the Nacimiento formation will create a stable area for this new location.

Tafoya, Crystal

From:

Tafoya, Crystal

Sent:

Monday, July 20, 2009 2:53 PM 'mark_kelly@nm.blm.gov'
Surface Owner Notification

To:

Subject:

The Huerfanito Unit 177 temporary pit will be buried in place. Please let me know if you have any questions.

Thanks,

Crystal Tafoya Regulatory Technician

Phone: (505) 326-9837

Email: crystal.tafoya@conocophillips.com

"Safety has no quitting time"

District I

1625 N French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505

Revised October 12, 2005 Submit to Appropriate District Office

REC State Lease - 7 Copies

Fee Lease - 3 Copies

Form C-102

MAR 1 7 2008

<u>District IV</u> 1220 S. St. Francis	s Dr., Santa F	Fe, NM 87505	MAR 1 7 2008 Bureau of Land Manager Terri AMMENDED REPOWELL LOCATION AND ACREAGE DEDICATION FERT Field Office 2 Pool Code 3 Pool Name 3 Pool Name							
API Number 30-045- 3465/			2 Pool Code 3 Pool Name 71629 BASIN FRUITLAND COAL							
⁴ Property Code 7138						⁶ Well Number 177				
⁷ ogrid ni 14538	⁹ OGRID No. 14538		BURL	INGTON		⁹ Elevation 6411				
					10 SURFACE I	LOCATION				
JL or lot no.	Section 28	Township 27-N	Range 9-W	Lot ldn	Feet from the 1800	North/South line NORTH	Feet from the 765	East/West line EAST	County SAN JUAN	
			11 E	ottom H	ole Location I	f Different Fro	m Surface			
IL or lot no. H '	Section	Township	Range		Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acres	13 Joint	or Infill	Consolidation	Code .	Order No.		·	1	L	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		Control of the second s			
16 S 88°23'55" W S 88°23' W			1800'	5246.8' (M) 5247.0' (R) 2' 7 2' 7 2' 7 2' 7 2' 7 2' 7 2' 7 2' 7	organization either owns a working interest or unleased mineral interest in the land including the proposed hottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a nuneral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. 3/44/08
	A CONTRACTOR AND A CONT	LAT: 36.54854 LONG: 107.78746	D 83 11° N 5° W D 27 50' N	765' ພູ່ເ ວິດ ວິດ ຂະ	3-14-08 Date
		E/2 DEDICATEL USA SF-C SECTIC T-27-N, R	78081 ON 28	GE ,	I hereby certify that the well location shown on this plat was plotted from felid notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my bettef. Date of Survey: 10/17/07 Signature and Seal of Professional Surveyors
					Certificate Number: NM 11393

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

General Plan:

- 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. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011).
- 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 prior to closure as per the approved closure plan via 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 prior to closure to the Aztec Division office between 72 hours and one week via email, or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 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 the San Juan County Landfill located on CR 3100.
- 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.

Tests Method	Limit (mg/Kg)
EPA SW-846 8021B or 8260B	0.2
EPA SW-846 8021B or 8260B	50
EPA SW-846 418.1	2500
EPA SW-846 8015M	-5 Q0
EPA 300.1	(1000/500
	EPA SW-846 8021B or 8260B EPA SW-846 8021B or 8260B EPA SW-846 418.1 EPA SW-846 8015M

- 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 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.

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

50 percent

Germination

40 percent

Percent PLS

20 percent

Source No. two (better quality)

Purity

80 percent

Germination

63 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.