1625 N. French Dr , Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

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

For temporary pits, closed-loop sytems, and below-grade

Form C-144 July 21, 2008

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 Closure Plan Application

110posed 7 Mediant v 1 Mediant 1 erim of Crossie 1 min 11ppin	<u></u>
Type of action: X Permit of a pit, closed-loop system, below-grade tank, or proposed alter Closure of a pit, closed-loop system, below-grade tank, or proposed alter	
Modification to an existing permit	
Closure plan only submitted for an existing permitted or non-permitted below-grade tank, or proposed alternative method	pit, closed-loop system,
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade	le 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 environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rule.	water, ground water or the
Operator: ConocoPhillips Company OGRID#: 217817	,
Address: PO Box 4289, Farmington, NM 87499	RCVD AUG 1'08
Facility or well name: Thurston Com #100S	OIL COMS. DIV.
API Number: 30-045-34619 OCD Permit Number:	0151.3
U/L or Qtr/Qtr: O(SWSE) Section: 31 Township: 31N Range: 11W County: S	an Juan
Center of Proposed Design: Latitude: 36.850167' N Longitude: 108.028416' W	NAD: 1927 X 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment	
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 notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other	Other . 120' x W 55' x D 12' e prior approval of a permit or
4	
Note Note	ff
5 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office to	for consideration of approval.

6		l					
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, inst.	utution or chur	ch)					
Four foot height, four strands of barbed wire evenly spaced between one and four feet	minon or come	city					
X Alternate Please specify Please See Design Plan							
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:		ļ					
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 cons	ideration of an	proval					
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	ociation or ap	p					
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.	☐ Yes	XNo					
- NM Office of the State Engineer - (WATERS database search; USGS; Data obtained from nearby wells							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa	Yes	X No					
lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site							
		E3					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	X No					
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	Ппа]					
- 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	<u> </u>						
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	X 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 - 1WATERS database search; Visual inspection (certification) of the proposed site.							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes	X No					
adopted pursuant to NMSA 1978, Section 3-27-3, as amended		<u> </u>					
- Written confirmation or verification from the municipality; Written approval obtained from the municipality		F21					
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	X No					
Within the area overlying a subsurface mine.	□Yes	XNo					
- Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division		ا ```					
Within an unstable area.	Yes	XNo					
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	_ _	_					
Society; Topographic map Within a 100-year floodplain	Yes	VNc					
- FFMA map	☐ I es	X No					

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: 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
X Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15.17 9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19 15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19 15.17 12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15.17 9 NMAC and 19 15.17 13 NMAC
Previously Approved Design (attach copy of design) API or Permit
12
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15 17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15.17.9
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15.17 9
NMAC and 19 15.17 13 NMAC
Previously Approved Design (attach copy of design) API
Previously Approved Operating and Maintenance Plan API
13
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (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
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 Burtal On-site Trench
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
15
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

Page 3 of 5

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins On Instructions: Please identify the faculity or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use						
Disposal Facility Name Disposal Facility Permit #.						
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that M Yes (If yes, please provide the information No		rations?				
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 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMA Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 N	С					
17 Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instruction: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable secretain siting criteria may require administrative approval from the appropriate district office or may be considered an exception for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NM.	n which must be submitted to the Santa Fe Environ					
Ground water is less than 50 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	L_JN/A					
Ground water is between 50 and 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	□N/A					
Ground water is more than 100 feet below the bottom of the buried waste	Yes	XNo				
- NM Office of the State Engineer - tWATERS database search; USGS; Data obtained from nearby wells	□N/A					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, si (measured from the ordinary high-water mark).	nkhole, or playa lake 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 a - Visual inspection (certification) of the proposed site, Aerial photo, satellite image	application. Yes	X No				
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a munipursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	cipal ordinance adopted Yes	XNo				
Within 500 feet of a wetland	Yes	X No				
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the pro-	posed site					
Within the area overlying a subsurface mine.	Yes	XNo				
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area.	, Voc	XNo				
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM (Topographic map		AINO				
Within a 100-year floodplain - FEMA map	Yes	XNo				
On-Site Closure Plan Checklist: (19.15.17 13 NMAC) Instructions: Each of the following items must by a check mark in the box, that the documents are attached.	t bee attached to the closure plan. Please	e indicate,				
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.1	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 ap		1AC				
X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC						
Confirmation Sampling Plan (1f applicable) - based upon the appropriate requirements of Subsection	1 F of 19.15.17.13 NMAC					
X Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.						
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case of		ed)				
X Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA						
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropriate requirements of Subsection I of 19 15.17.13 NMA(X Site Reclamation Plan - based upon the appropria						

Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Crystal Tafoya Title: Regulatory Technician
- The state of the
e-mail address. <u>crystal.tafoya@conocopMillu/s.com</u> Telephone 505-326-9837
20
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: 8-5-08
Title: Eudrolgae OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19 15 17 13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:
22 Closure Method:
Waste Excavation and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)
If different from approved plan, please explain
23
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?
Yes (If yes, please demonstrate compliane to the items below)
Required for impacted areas which will not be used for future service and operations:
Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation
Re-vegetation Application Rates and Seeding Technique
24
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in
the box, that the documents are attached.
Proof of Closure Notice (surface owner and division)
Proof of Deed Notice (required for on-site closure)
Plot Plan (for on-site closures and temporary pits)
Confirmation Sampling Analytical Results (if applicable)
Waste Material Sampling Analytical Results (if applicable) Disposal Facility Name and Permit Number
Soil Backfilling and Cover Installation
Re-vegetation Application Rates and Seeding Technique
Site Reclamation (Photo Documentation)
On-site Closure Location: Latitude Longitude: NAD 1927 1983
25
Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that
the closure complies with all applicable closure requirements and conditions specified in the approved closure plan
the closure complies with all applicable closure requirements and conditions specified in the approved closure plan Name (Print): Signature: Date

Township: 30N Range: 11W Sections: 5,6	And the same of th
NAD27 X: Y: Zone: Sear	rch Radius:
County: Basin: Nu	mber: Suffix:
Owner Name: (First) (Last) C No	on-Domestic C Domestic
POD / Surface Data Report Avg Depth to Wa	iter Report
Water Column Report	
Clear Form iWATERS Menu Help	
WATER COLUMN REPORT 07/2	4/2008
(quarters are 1=NW 2=NE 3=SW 4=SE)	Denth Denth Wate

Zone

Well

83

80

Water

60

65

Colum

2

Record Count: 2

POD Number

SJ 03267

SJ 03245

Tws Rng Sec q q q

30N 11W 05 2 1 3

30N 11W 06 4 4 4

Township: 30N Range: 12W Sections: 1
NAD27 X: Zone: Search Radius:
County: Basin: Number: Suffix:
Owner Name: (First) (Last) C Non-Domestic C Domestic
POD / Surface Data Report Avg Depth to Water Report
Water Column Report Clear Form iWATERS Menu Help
WATER COLUMN REPORT 07/24/2008
(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) POD Number Tws Rng Sec q q q Zone X Y Well Water Column
No Records found try again

No Records found, try again

Township: 31N Range: 12W Sections: 36,25	
NAD27 X: Y: Zone: Search Radius:	
County: Basin: Number: Suffix:	
Owner Name: (First) (Last) C Non-Domestic C Domestic	
ROD / Surface Data Report	
Water Column, Report	
Clear Form iWATERS Menu	

WATER COLUMN REPORT 07/24/2008

	quarter	s are	• 1=1	W	2=	NE.	3=SW 4=SE	E)				
(quarter	s are	e bi	gge	st	: to	smallest	t)		Depth	Depth	Wat∈
POD Number	Tws	Rng	Sec	q	q	q	Zone	x	Y	Well	Water	Colum
SJ 01477	31N	12W	25	2						565	505	(
SJ 01163	31N	12W	25	2	1	3				200	90	11
SJ 01108	31N	12W	25	2	1	4				245	90	15
SJ 01303	31N	12W	25	2	2	3				210		
SJ 01180	31N	12W	25	2	2	4				200	120	8
SJ 00968	31N	12W	25	2	4					170	100	7

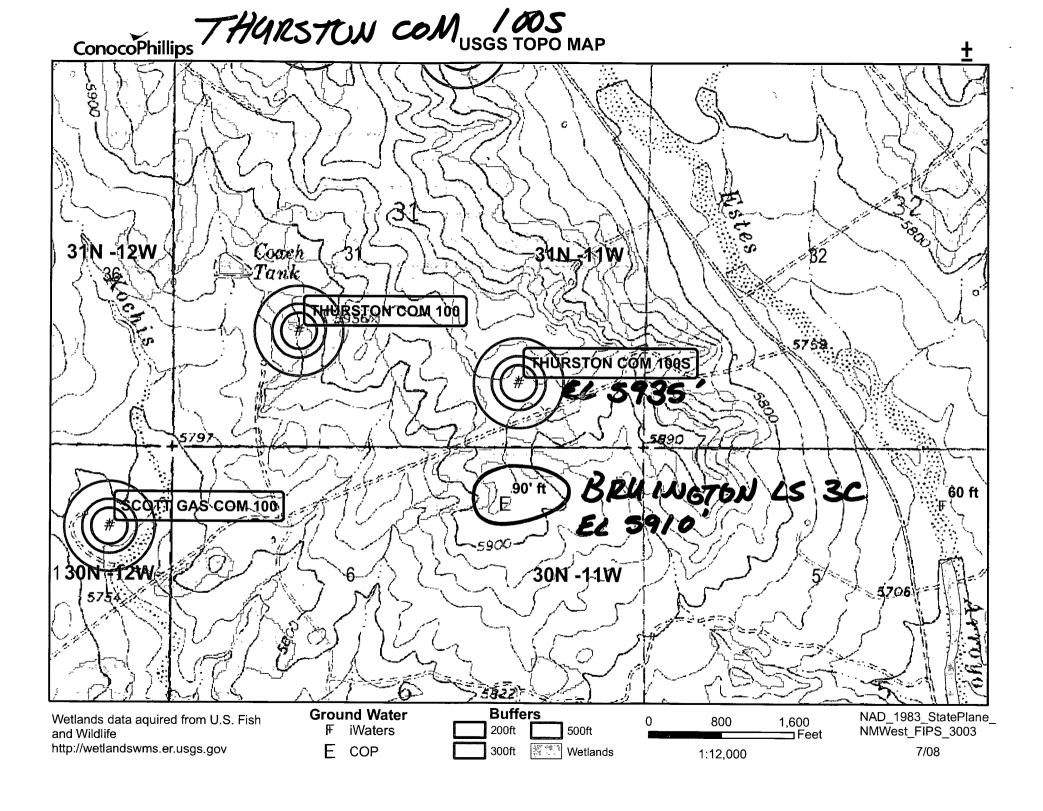
Record Count: 6

Township: 31N Range: 1	1W Sections: 29,30,	31,32
NAD27 X: Y:	Zone:	Search Radius:
County: Basin:		Number: Suffix:
Owner Name: (First)	(Last) 6 All	C Non-Domestic C Domestic
POD/Surface Data R	Report Avg Do	epth to Water Report
Clear Forn	m WATERS Menu	Help

WATER COLUMN REPORT 07/24/2008

(qu	arter	s are	e 1=1	W	2=	=NE	3=SW 4=SE)					
(qu	arter	s are	e big	gge	≥st	to:	smallest)			Depth	Depth	Wat∈
POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Well	Water	Colum
SJ 01884	31N	11W	30	4	2	3				71	30	4
SJ 01834	31N	11W	30	4	2	4				103	30	7
SJ 01154	31N	11W	30	4	2	4				190	150	۷
SJ_01739	31N	11W	30	4	2	4				98	30	6
SJ 01797	31N	11W	30	4	4					100	40	(
SJ 01396	31N	11W	30	4	4	1				80	57	2
SJ 00970	31N	11W	30	4	4	4				110	80	3
SJ 01811	31N	11W	31	2	2					89	50	3

Record Count: 8



RCVD OCT30'06 OIL CONS. DIV. DIST. 3

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

1a.	Type of Work		5. Lease Number
	DRILL	earth of the land	NMSF-078781
		RECEIVED	Unit Reporting Number
1b.	Type of Well GAS	070 FAT 1990T 14 900	6. If Indian, All. or Tribe
 2.	Operator		7. Unit Agreement Name
	ConocoPhillip	os	
3.		e No. of Operator	8. Farm or Lease Name
	(505) 326-		9. Well Number Bruington LS #3C
١.	Location of Well	- COV	10. Field. Pool. Wildcat
••		E), 660' FML & 1560' FML,	Blanco Mesaverde
	Latitude 36°	84649'N	11. Sec., Twn, Rge, Mer. (NMPM) 8 Sec. 6, T30N, R11W
	Longitude 10	Jot 9	API # 30-045- 33988
14.	Distance in Miles	s from Nearest Town	12. County 13. State San Juan NM
15.	Distance from Pr	oposed Location to Nearest Property or Lease	Line
16.	Acres in Lease		17. Acres Assigned to Well MV 3332 314.26 - E/2
18.	Distance from Pro	oposed Location to Nearest Well, Drlg, Compl.	, or Applied for on this Lease
19.	Proposed Depth 5026'		20. Rotary or Cable Tools Rotary
21.	Elevations (DF. F 5910' GL	T, GR, Etc.)	22. Approx. Date Work will Start
23.	Proposed Casing See Operat	and Cementing Program	
24.	Authorized by:	Jally Cling	10/5/06
		Sr. Regulatory Analyst	Date
ERMIT	NO.	APPROVAL	. DATE
NPPRO\	/ED BY	Manho TITLE ATA	DATE 18/27/
	•		

United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED

"GENERAL REQUIREMENTS".

This action is subject procedural review pur and appeal pursuant to the procedural review pur and the procedural review



This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

TIERRA CORROSION CONTROL, INC. **DRILLING LOG**

COMPANY: Conoco Phillips LOCATION: Bruington LS 3C

STATE: NM BIT SIZE: 7 7/8"

ANODE TYPE: 2" X 60" Duriron

LBS COKE BACKFILL: 2,600#

DATE: April 18, 2008 LEGALS: S6 T30N R11W

DRILLER: Gilbert Peck CASING SIZE/TYPE: 8" X 20' PVC

VENT PIPE: 300"

ANODE AMOUNT: 10

COUNTY: San Juan

DEPTH: 300'

COKE TYPE: Asbury

PERF PIPE: 140'

BOULDER DRILLING: None

DEPTH	DRILLER'S LOG	AMPS	DEPTH	DRILLER'S LOG	AMPS
20	Cooling	.5	310		
25	Casing Sand	.7	315		-
30	Sanu	.8	320		-
35	Gray Shale	1.1	325		
40	L Gray Gridio	1.0	330		
45	· · · · · · · · · · · · · · · · · · ·	1.2	335		
50		1.1	340		
55		1.3	345		
60		1.5	350		
65		1.8	355		
70		1.8	360		
75		2.1	365		
80		2.0	370		
85		1.9	375		
90		1.7	380		
95		2.1	385		
100		2.3	390		
105		2.4	395		
110		1.9	400		., [
115		2.3	405		
120		2.2	410		
125		2.4	415		
130		2.3	420		
135		2.2	425		
140		2.2	430		
145	▼ 	1.5	435		
150	Black Shale	2.1	440		
155 160		2.6	445 450		
165		2.7	455		
170		2.8	460		
175	,	3.3	465		
180		3.6	470		
185		3.7	475		1
190		3.7	480		
195		3.5	485		
200		3.3	490		
205		3.0	495		
210		2.9	500		
215		2.7			
220		2.6			
225		2.5			
230		2.0			
235		1.8	ļ <u> </u>		
240		1.9			
245		2.3			
250		2.7			
255		3.0			
260		3.1			
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275		3.0	 		
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	2	285	3.4	7.3
	3	275	3.0	6.7
	4	265	3.2	6.6
	5	255	3.0	6.4
1	6	245	2.3	6.2
ı	7	235	1.8	5.2
	8	225	2.5	6.1
	9	215	2.7	6.5
	10	205	3.0	4.7
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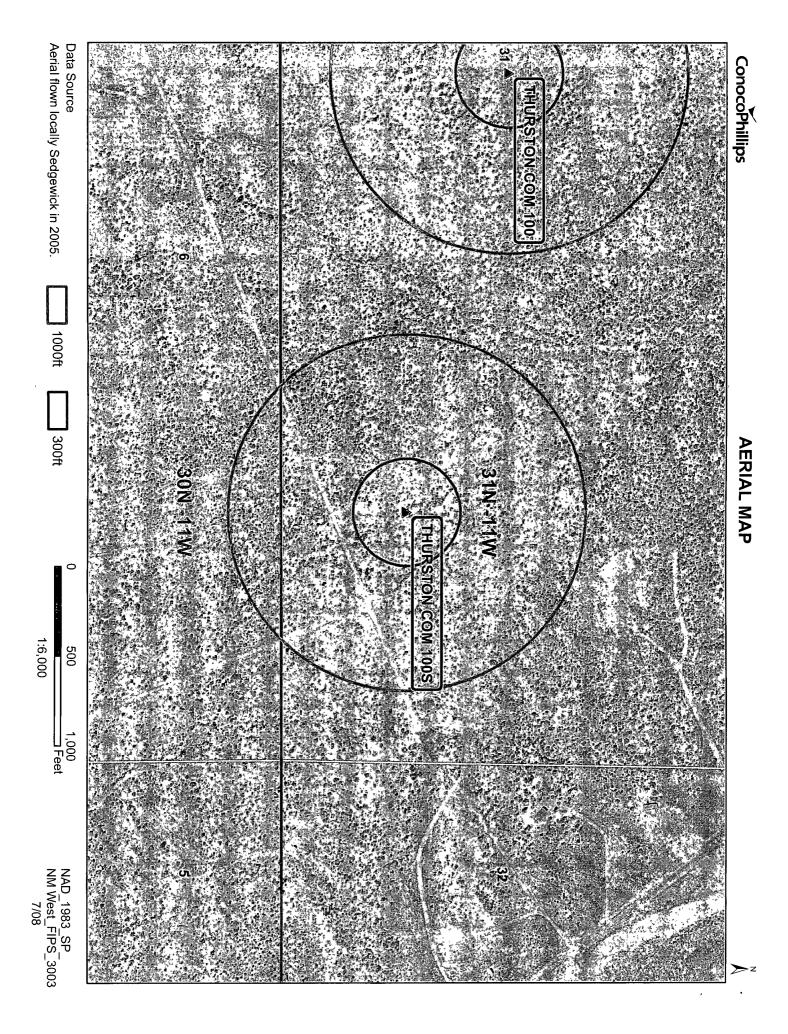
WATER DEPTH: 90' ISOLATION PLUGS: None LOGING VOLTS: 11.87

VOLT SOURCE: AUTO BATTERY

TOTAL AMPS: 23.5

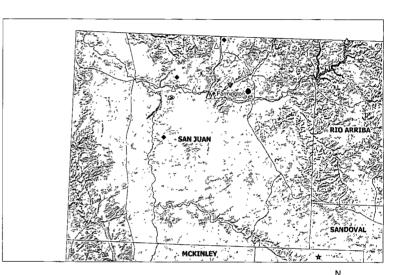
TOTAL GB RESISTANCE: .50

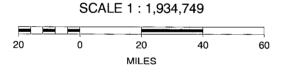
REMARKS:



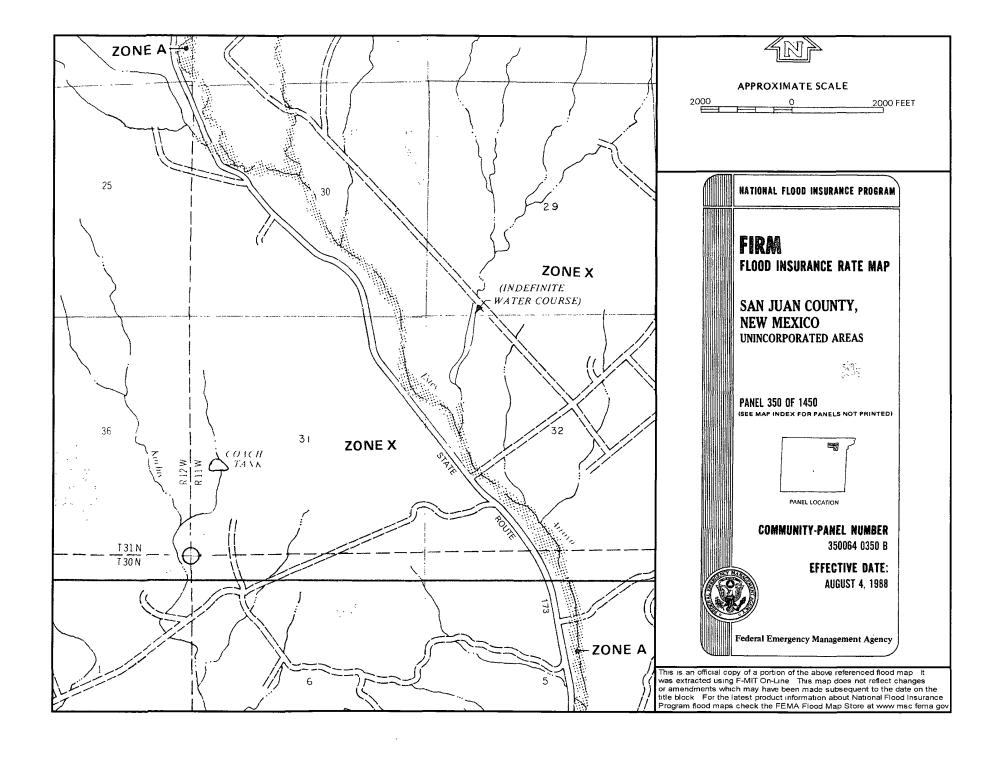
Thurston Com #100S Mines, Mills and Quarries Web Map

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









Siting Criteria Compliance Demonstrations

The Thurston Com 100S 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 Thurston Com #100S

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.

Tafoya, Crystal

From:

Tafoya, Crystal

Sent:

Thursday, July 31, 2008 1:04 PM 'mark_kelly@nm.blm.gov'

To:

Subject:

Surface Owner Notification

The following locations temporary pit will be closed on-site. Please let me know if you have any questions.

Thurston Com 101 Thurston Com 100S San Juan 28-6 U nit 158N

Thank you,

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. 68240 DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Asteo, N.M. 97410
DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, N.M. 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, N.M. 87505 Form C-102 Revised October 12, 2005

Submit to Appropriate District Office State Lease — 4 Copies

Fee Lease - 3 Copies

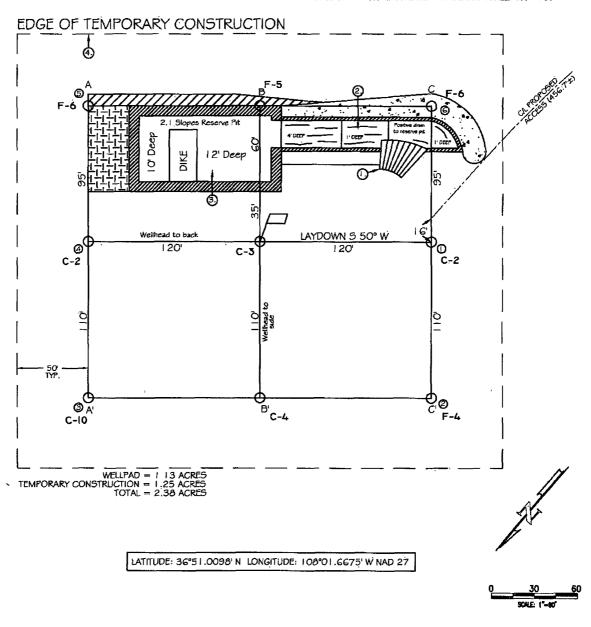
□ AMENDED REPORT

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CONOCOPHILLIPS

THURSTON COM 1005 - 677' FSL \$ 1610' FEL SECTION 31, T-31-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, N.M. GRADED ELEVATION: 5935 - DATE: NOVEMBER 8, 2007

- I. RAMP INTO PIT CONSTRUCTED FROM PAD GRADE INTO FLARE AREA AT 5% SLOPE
- 2. APPROXIMATE 13'x75' PIT AREA LINED WITH 12 MIL POLYLINER 3. RESERVE PIT DIKE TO BE 8' ABOVE DEEP SIDE
- (OVERFLOW-3' WIDE AND I' ABOVE SHALLOW SIDE)
 4. EDGE OF TEMPORARY CONSTRUCTION DEFINED IN FIELD WIG'T-POST



- 1.) CONTRACTOR SHOULD CALL "ONE-CALL" FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELLPAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONST.
- 2.) UNITED FIELD SERVICES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

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DRAWN BY:	H.S.	DATE DRAWN: 11/13/07	FILE NAME: 8108L02
SURVEYED;	11/08/07	REV. DATE: 12/03/07	APP. BY M.W.L.



P.O. BOX 3651 FARMINGTON, NM 37499 OFFICE: (505)334-0408

CONOCOPHILLIPS

THURSTON COM 1005 - 677' FSL & 1610' FEL SECTION 31, T-31-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, N.M. GRADED ELEVATION: 5935 - DATE: NOVEMBER 8, 2007

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NOTES:

5910

1.) CONTRACTOR SHOULD CALL "ONE-CALL" FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELLPAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONST.

2.) UNITED FIELD SERVICES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

SURVEYED: 11/08/07	REV. DATE: 12/03/07	APP. BY M.W.L.
DRAWN BY: H.S.	DATE DRAWN: 11/13/07	FILE NAME: 8108C02



P.O. BOX 3551 FARMINGTON, NM 87499 OFFICE: (505)334-0408

ConocoPhillips Company 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 ConocoPhillips Company (COPC) locations. This is COPC'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. COPC 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. COPC 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. COPC 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. COPC 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.
- COPC 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.
- 10. All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. COPC will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. COPC 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. COPC 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. COPC will not allow freestanding liquids to remain on the unlined portion of a temporary blow pit.

ConocoPhillips Company 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 ConocoPhillips Company (COPC) locations. This is COPC'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. COPC will operate and maintain a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- COPC 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. COPC 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 COPC 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, COPC shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner. COPC shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels COPC 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.
- 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. COPC 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. COPC will maintain the temporary pit free of miscellaneous solid waste or debris.
- 11. During drilling or workover operations, COPC will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged in the IADC reports. COPC will file this log with the Aztec Division office upon closure of the pit.
- 12. After drilling or workover operations, COPC will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at COPC's office electronically and will be filed with the Aztec Division office upon closure of the pit.
- 13. COPC shall maintain at least two feet of freeboard for a temporary pit.
- 14. COPC shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the drilling rig.
- 15. COPC shall remove all free liquids from a cavitation pit within 48 hours after completing cavitation. COPC may request additional time to remove liquids from the Aztec Division office if it is not feasible to remove liquids within 48 hours.

ConocoPhillips Company 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 ConocoPhillips Company (COPC) locations. This is COPC'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 COPC'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 COPC 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. A five point composite sample will be taken from the cavitation pit pursuant to 19.15.17.13(B)(1)(b)(i) in order to assure there has not been any type of release.

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	500

- 10. 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 COPC 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.
- 11. 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.
- 12. 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
- 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. Notification will be sent to OCD when the reclaimed area is seeded.
- 15. COPC 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.

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

16. 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.

ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

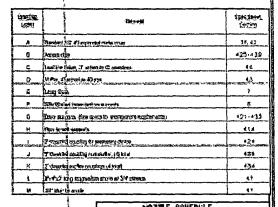
In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on ConocoPhillips Company locations hereinafter known as COPC locations. This is COPC standard procedure for all below grade tanks (BGT). A separate plan will be submitted for any BGT which does not conform to this plan.

- 1. COPC will design and construct a BGT to contain liquids and to prevent contamination of fresh water and protect public health and environment.
- 2. COPC 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. COPC 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. COPC will construct a expanded metal covering on the top of the BGT
- 5. COPC 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 COPC 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. COPC shall construct a below-grade tank to prevent overflow and the collection of surface water run-on.
- 8. COPC 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.
- COPC 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

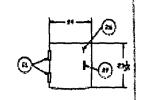
than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method 9090A.

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

120 BBL PIT TANKS AUTOCAD GRAMMS - BLEVENTS



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ConocoPhillips Company 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 ConocoPhillips Company locations hereinafter known as COPC locations. This is COPC's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

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

ConocoPhillips Company 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 ConocoPhillips Company locations hereinafter known as COPC locations. This is COPC'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. COPC 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. COPC 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.
- COPC 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. COPC 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. COPC 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.
- If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.
- 7. COPC shall test the soils beneath the below-grade tank to determine whether a release has occurred. COPC 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. COPC shall notify the division of its results on form C-141.

- 8. If COPC or the division determines that a release has occurred, then COPC shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.
- 9. If contamination is confirmed by field sampling. COPC 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 COPC 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. COPC 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 COPC's closing of the below-grade tank as per the approved closure plan using certified mail, return receipt requested.