District I

1625 N. French Dr., Hobbs, NM 88240

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

June 16, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office.

Form C-144

For permanent pits and exceptions submit to the Santa Fe 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

Type of action: X Permit of a pit, closed-loop system	n, below-grade tank, or proposed alternative method			
Closure of a pit, closed-loop system Instructions: Please submit one application (Form C-144) per individue. Please be advised that approval of this request does not relieve the operator of liabilities environment. Not does approval relieve the operator of its responsibility to comply with	ity should operations result in pollution of surface water, ground water or the			
Operator: ConocoPhillips Company	OGRID#: <u>217817</u>			
Address: PO Box 4289, Farmington, NM 87499	RCVD JUL 11 '08			
Facility or well name: Lodewick #3	OIL CONS. DIV.			
API Number: 30-045-06467 OC	CD Permit Number: DIST. 3			
J/L or Qtr/Qtr: M(SWSW) Section: 18 Township: 27N	Range: 9W County: San Juan			
Center of Proposed Design: Latitude: 36.57025100' N L	ongitude: 107.83515000' W NAD: 1927 X 1983			
Surface Owner: X Federal State Private Triba	al Trust or Indian Allotment			
X Pit: Subsection F or G of 19.15.17.11 NMAC	Closed-loop Systems: Subsection H of 19.15.17.11 NMAC			
Temporary: X Drilling Workover	Drying Pad Tanks Haul-off Bins Other:			
Permanent Emergency X Cavitation	Lined Unlined			
X Lined Unlined	Liner type: Thickness mil LLDPE HDPE PVC			
Liner type: Thickness 20 mil X LLDPE HDPE PVC	Other:			
Other X String-Reinforced	Seams: Welded Factory Other:			
Seams: X Welded X Factory Other	Volume: bbl yd3			
Volume: 7000 bbl Dimensions: L 120' xW 55' xD 12'	Dimernsions: Length x Width			
Below-grade tank: Subsection I of 19 15.17.11 NMAC	Fencing: Subsection D of 19.15.17.11 NMAC			
Volume:bbl	Chain link, six feet in height, two strangs of barbed wire at top			
Type of fluid:	Four foot height, four strands of barbed wire evenly spaced between			
Tank Construction Material:	one and four feet			
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11			
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Screen Netting Other			
Visible sidewalls and liner	Monthly inspections			
Visible sidewalls only	Signs: Subsection C of 19.15 17 11 NMAC			
Other:	12"x 24", 2" lettering, provided Operator's name, site location, and			
Liner type: Thickness:mil HDPE PVC	emergency telephone numbers			
Other	Signed in compliance with 10.15.2.102 NMAC			

Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of

approval.

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 or the Santa Fe Environmental Bureau
office for consideration of approval. (Fencing in Design Plan)
Exception(s): Requests must be submitted to the Santa Fe
Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes	X No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□NA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	По
(Applied to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	XNA	
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	X No
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes	X No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland.	Yes	XNo
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site		
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	∐Yes	XNo
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	XNo
Society; Topographic map Within a 100-year floodplain	Yes	X No
- FEMA map		1110
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17. Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dot [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 NMAC [X] Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC [X] Operating and Maintence Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	ocuments ar	e attached.
Closure Plan - 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 API Number: or Permit		
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dattached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19		re
Siting Criteria Compliance Demonstrations (required for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NM		
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 - based upon the appropriate requirements of Subsection C of 19.15.17.12 NMAC		
Previously Approved Design (attach copy of API Number:		

Hydragological Report - based upon the equipments of Pasagon(), 60 Subsection 6 of 19.15.17.0 NMAC		Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC						
Siting Criteria Compitative Demonstrations - based upon the appropriate requirements of 19,15.17.11 NMAC Currified Engineering Design Phase - based upon the appropriate requirements of 19.15.17.11 NMAC Dake Protection and Structural Integrity Designs based upon the appropriate requirements of 19.15.17.11 NMAC Link Protection Designs - based upon the depropriate requirements of 19.15.17.11 NMAC Link Protection Designs - based upon the paper of the appropriate requirements of 19.15.17.11 NMAC Quality Control Quality Assurance Construction and Installation Plan Operating and Mannetance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Mannetance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Installation of the Based Operation of Plan Protection Plan Engineery Response Plan Oil Field Waste Stream Characterization Manitoring and Inspection Plan Engineery Response Plan Closure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Proposed Closure Plan Protection Pla	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.							
Climatological Fictors Assessment	Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC							
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC	Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC							
Dake Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assurance Poststruction and Installation Plan Department of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Emergency Response Plan Emergency Response Plan Entergency Response Plan Entergency Response Plan Erosen Control Plan Erosen Control Plan Erosen Control Plan Erosen 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 Proposed Closure* Moste Excavation and Removal Non-integrity Moste Excavation and Removal Non-integrity Non-integrity Response Plan Alternative Closure Method (Exceptions mast be submitted to the Santa Fe Environmental Bureau for Nilla Criteria (regarding orner) Alternative Closure Method (Exceptions mast be submitted to the Santa Fe Environmental Bureau for Nilla Criteria (regarding orner) Alternative Closure Method (Exceptions mast be submitted to the Santa Fe Environmental Bureau for Nilla Criteria (regarding orner) Alternative Closure Method (Exceptions mast be submitted to the Santa Fe Environmental Bureau for Nilla Criteria (regarding orner) Alternative Closure Method (Exceptions mast be submitted or the Santa Fe Environmental Bureau for Nilla Criteria (regarding orner) Alternative Closure Method (Exceptions mast be submitted or the Santa Fe Environmental Bureau for Nilla Criteria (regarding orner) Alternative Closure Method (Exceptions mast be submitted or properate orner) Nilla (regar	Climatological Factors Assessment							
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Lear Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control(Quality Assessment) - based upon the appropriate requirements of 19.15.17.12 NMAC Prevention Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardaus Odors, including H2S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Emergency Response 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: 19.15.1	Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC							
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Proposed Closure: 19.15.17.13 NMAC Type:	Erosion Control Plan							
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Siting Criteria (regarding on-site Closure Method (only): 19.15.17.10 NMAC								
Name								
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for	XOn-site Closure Method (only for temporary pits and closed-loop							
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	attached					
to the closure plan. Please indicfate, 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						
Confirantion Sampling Plan (if applicable) - based upon the appropria						
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 Subs	ection I of 19 15 17 13 NMAC					
Site Reclamation Plan - based upon the appropriate requirements of S	ubsection G of 19.15.17.13 NMAC					
Waste Removal Closure for Closed-loop Systems That Utilize Haul-off facilities for the disposal of liquids, drilling fluids and drill cuttings.	Bins Only: (19 15.17 13.D NMAC) Instructions: Please identify the facility or					
Disposal Facility Name	Disposal Facility Permit Number.					
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of the check mark in the box, that the documents are attached.	following items must bee attached to the closure plan. Please indicate, by a					
 X Siting Criteria Compliance Demonstrations - based upon the appropria X Proof of Surface Owner Notice - based upon the appropriate requirem 	•					
X Construction and Design of Burial Trench (if applicable) based upon X Protocols and Procedures - based upon the appropriate requirements of						
X Confirmation Sampling Plan (if applicable) - based upon the appropria						
X Waste Material Sampling Plan - based upon the appropriate requirement						
X Disposal Facility Name and Permit Number (for liquids, drilling fluids						
X Soil Cover Design - based upon the appropriate requirements of Subse	-					
X Re-vegetation Plan - based upon the appropriate requirements of Subs						
X Site Reclamation Plan - based upon the appropriate requirements of Si	ubsection G of 19.15.17.13 NMAC					
Operator Application Certification:						
I hereby certify that the information submitted with this application is true, accurate	te and complete to the best of my knowledge and belief.					
Name (Print): Crystal Tafoya	Title Regulatory Technician					
Signature Cartal Talona	Date: 7/11/2008					
e-mail address. crystal.tafoya@conocophillips.com	Telephone. 505-326-9837					
OCD Approval: Permit Application (including closure plan)	Closure Plan (only)					
OCD Approval: Permit Application (including closure plan) OCD Representative Signature:	Closure Plan (only) Approval Date: 7/11/08					
OCD Representative Signature: Ball ball	OCD Permit Number.					
OCD Representative Signature: Boll boll Title: Enviro 13 pec	OCD Permit Number.					
OCD Representative Signature: Ball Ball Title: Frying 13 pec Closure Report (required within 60 days of closure completion): Subsection K of 19 15	Approval Date: 7/11/08 OCD Permit Number.					
OCD Representative Signature: Ball Ball Title: Enviro 13 pec Closure Report (required within 60 days of closure completion): Subsection K of 19 15	Approval Date: 7/11/08 OCD Permit Number.					
OCD Representative Signature: Ball Ball Title: Frying 13 pec Closure Report (required within 60 days of closure completion): Subsection K of 19 15	Approval Date: 7/11/08 OCD Permit Number. 17 13 NMAC Closure Completion Date:					
OCD Representative Signature: Ball Ball Title: Francisco Spec Closure Report (required within 60 days of closure completion): Subsection K of 19 15 Closure Method: Waste Excavation and Removal On-Site Closure Alt If different from approved plan, please explain Closure Report Attactment Checklist: Instructions: Each of the following items.	Approval Date: 7/11/08 OCD Permit Number. 17 13 NMAC Closure Completion Date: ernative Closure					
OCD Representative Signature: Ball Ball Title: Enviro Spec Closure Report (required within 60 days of closure completion): Subsection K of 19 15 Closure Method: Waste Excavation and Removal On-Site Closure Ali If different from approved plan, please explain Closure Report Attactment Checklist: Instructions: Each of the following items box, that the documents are attached.	Approval Date: 7/11/08 OCD Permit Number. 17 13 NMAC Closure Completion Date: ernative Closure					
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Form C-144 Oil Conservation Division Page 4 of 4

New Mexico Office of the State Engineer POD Reports and Downloads

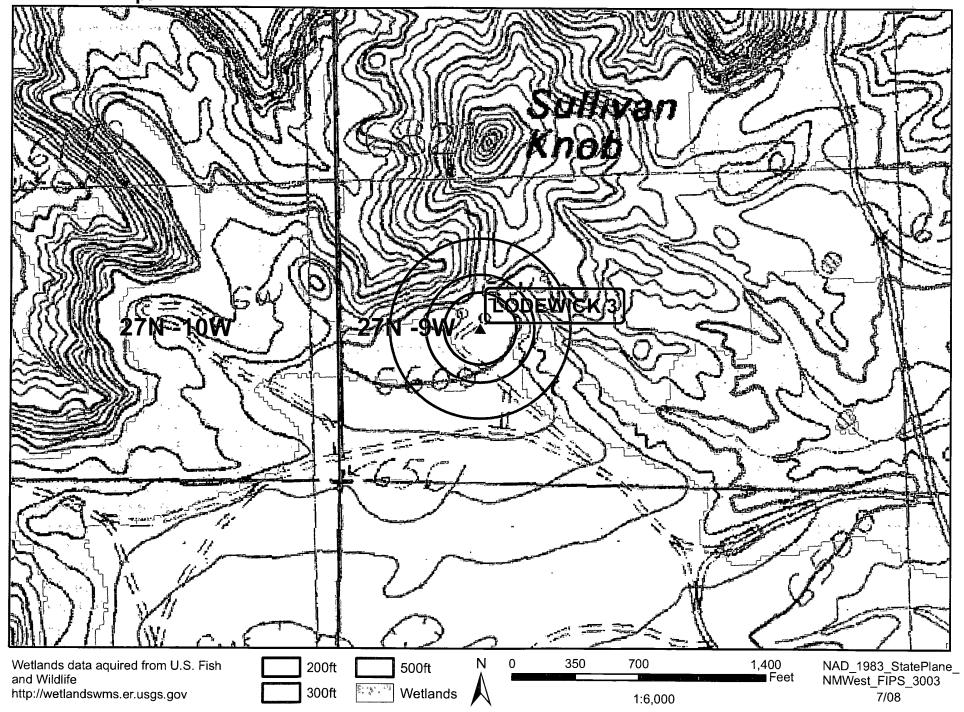
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Towns	hip: 27N	Range: 09W	Sections:					
NAD27	X:	Y:	Zone:		Search Radius:			
County:		Basin:			Number:	Suffix	<b>(</b> :	
Owner Name: (F	ïrst)	(Li	ast) ⁱ	(	⊃Non-Domestic	ODome	estic	
	POD / Surface Data Report Avg Depth to Water Report  Water Column Report							
		Clear Form	iWATERS Me	nu ,	Help			
escare de la companya	and the second seco	W	ATER COLUMN RE	EPORT 0	7/11/2008		Anna and an anna anna anna anna anna ann	
POD Number			=NE 3=SW 4=SE) to smallest) q Zone		Depth Y Well	Depth Water	Wat∈ Colum	
No Records found	d, try aga	ain						

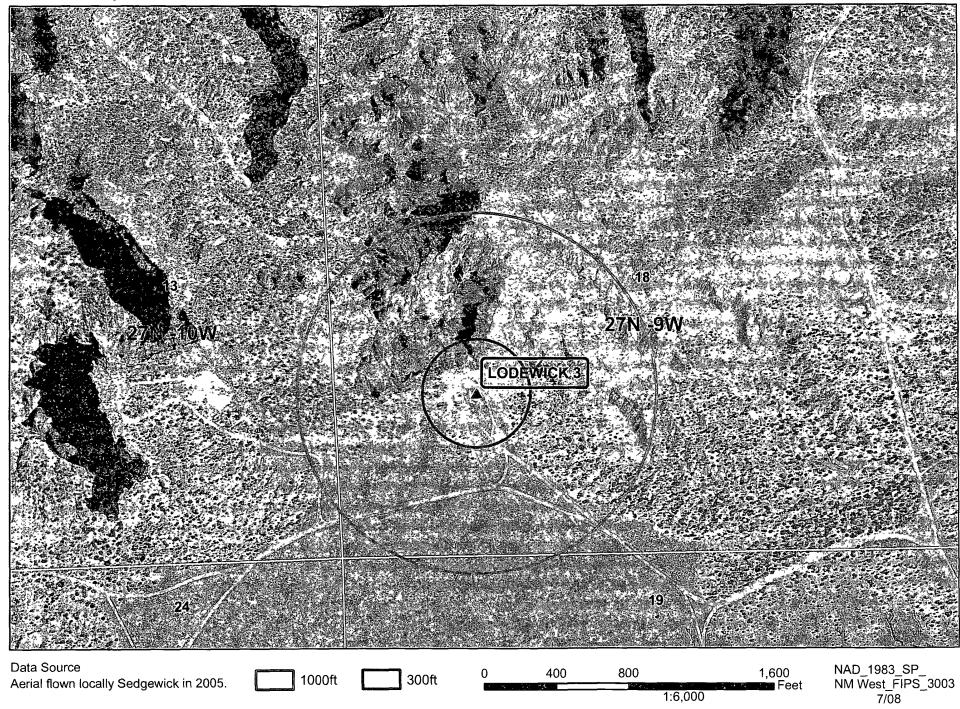
# New Mexico Office of the State Engineer POD Reports and Downloads

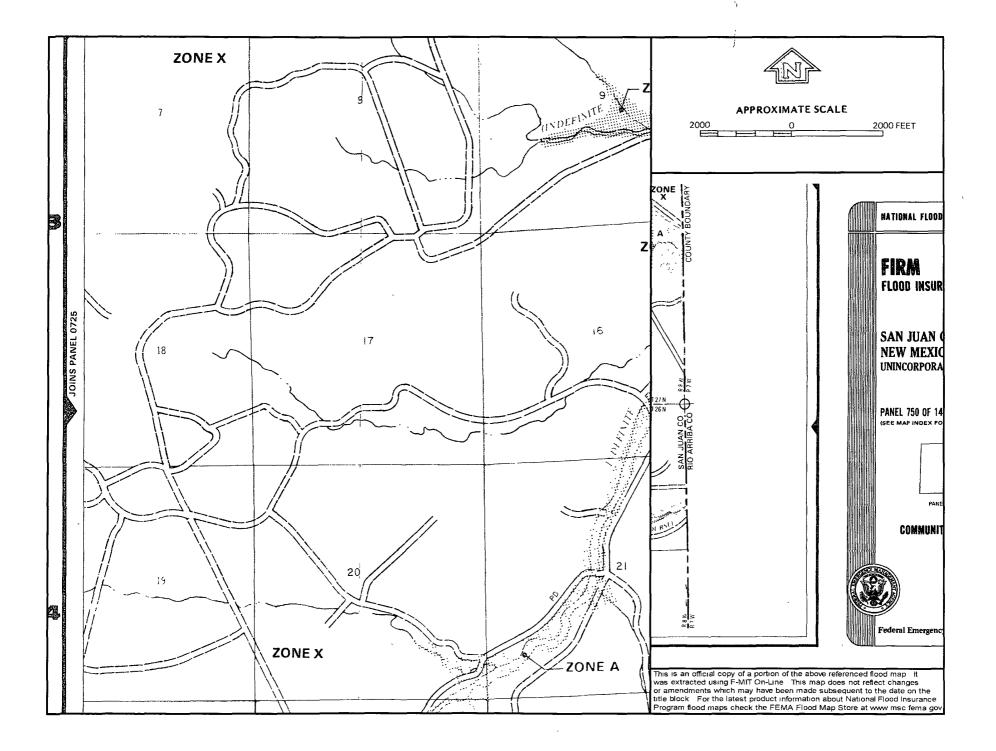
Township: 27N Range: 10W Sections:							
NAD27 X:	Y:	Zone: Search Radius:	!				
County:	Basin:	Number:	Suffix:				
Owner Name: (First)	(Last)	○ Non-Domestic	O Domestic				
POD	POD / Surface Data Report Avg Depth to Water Report  Water Column Report						
Clear Form iWATERS Menu Help							
WATER COLUMN REPORT 07/11/2008							

	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)					Depth D	Depth	Wat∈					
POD Number		Tws	Rng	Sec	q	q	<b>q</b>	Zone	x	Y	Well	Water	Colum
SJ 00032		27N	10W	08	2	2	3				235	60	17
SJ 00033		27N	10W	08	2	2	3				204		
SJ 00034		27N	10W	08	2	2	3				235	170	6

Record Count: 3

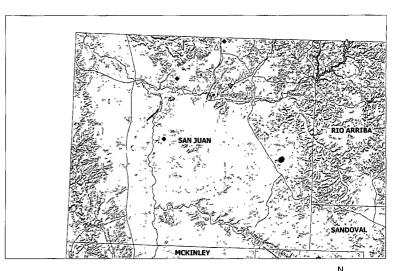


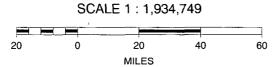




# Lodewick #3 Mines, Mills and Quarries Web Map

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







### Hydrogeological Report for Lodewick #3

### 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 Demonstrations**

The Lodewick #3 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.

# Tafoya, Crystal

From:

Sent:

Tafoya, Crystal Friday, July 11, 2008 12:26 PM 'mark_kelly@nm.blm.gov'

To:

Subject:

Surface Owner Notification

The temporary pits for the following wells will be closed on-site. Please let me know if you have any questions.

Huerfanito Unit #72 Lodewick #3

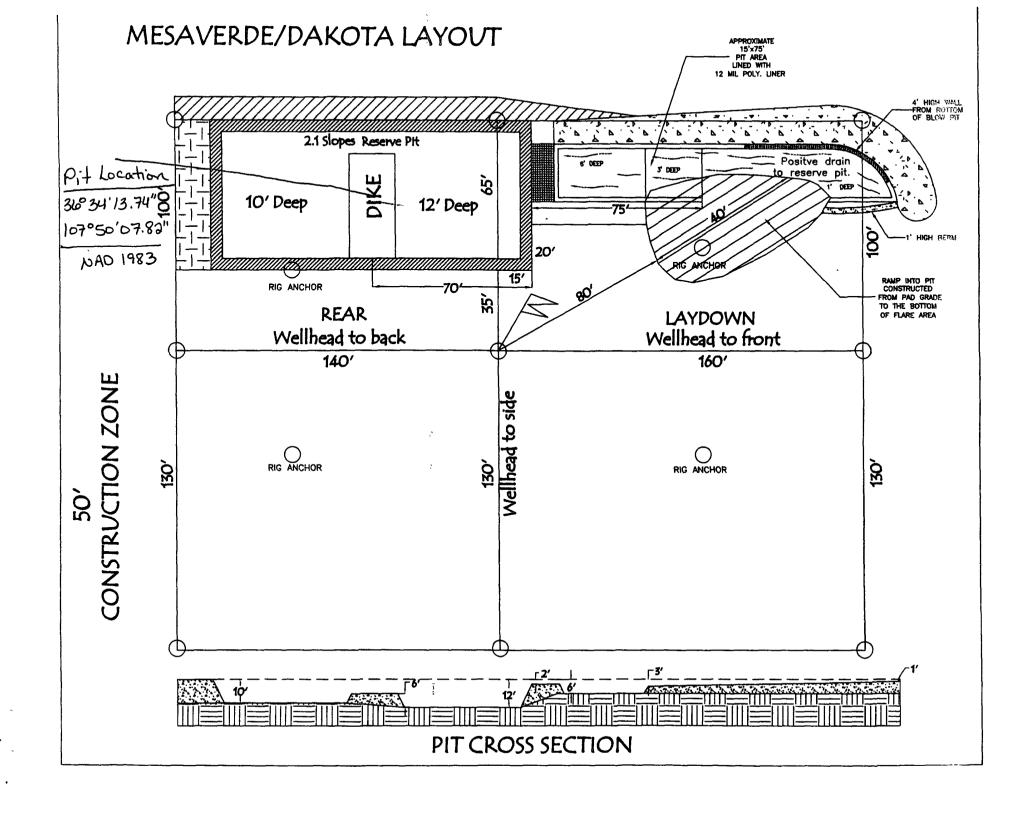
Thank you, Crystal L. Tafoya
Regulatory Technician
ConocoPhillips Company
San Juan Business Unit Phone: (505) 326-9837

Email: Crystal.Tafoya@conocophillips.com

# NEW MEXICO OIL CONSERVATION COMMISSION

## Well Location and Acreage Dedication Plat

Section	n A.		·		Date	April 7, 1959
Well N	03	States Natural Ga Unit LetterM	Section 18	Tow	nship 27 Nor	th Range 9 West NMPM
Locate	a 910'	Feet From S	South Line,	790 F		West Line
County	san Ju Producing	an G. L. El Formation Dak	evation <u>6612</u>	Dedicat Pool	Angels Peak	
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# 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.

#### **General 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.
- 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.

#### General 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.
- 2. 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.
- 6. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 7. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 8. 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

#### General Plan:

- 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	5,00
Chlorides	(1000/500	

- 9. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. If standard testing fails 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.
- 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. 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 (unimpacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

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

Species shall be planted in pounds of pure live seed per acre: Present Pure Live Seed (PLS) = Purity X Germination/100 Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality)

Purity

Source No. two (better quality)

Purity

Source No. two (better quality)

Purity

80 percent

Germination

Percent PLS

20 percent

Percent PLS

Source No. two (better quality)

Purity

80 percent

Percent PLS

50 percent

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

1 lb. PLS 1 lb. PLS

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