District! 1625 N French Dr , Hobbs, NM 88240

District II 1301 W Grand Ave , Artesia, NM 88210 District III

1000 Rio Brazos Rd, Aztec, NM 87410

Energy Minerals and Natural Resources Department Oil Conservation Division

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

State of New Mexico

July 21, 2008 For temporary pits, closed-loop sytems, and below-grade $\,$

Form C-144

tanks, submit to the appropriate NMOCD District Office

For permanent pits and exceptions submit to the Santa Fe

District IV 1220 S St Francis Dr , Santa Fe, NM 87505	Environmental Bureau office and provide a copy to the appropriate NMOCD District Office
	-Loop System, Below-Grade Tank, or
Proposed Alterna	tive Method Permit or Closure Plan Application
Type of action: Permit of a p	nt, closed-loop system, below-grade tank, or proposed alternative method
	pit, closed-loop system, below-grade tank, or proposed alternative method
	to an existing permit
	only submitted for an existing permitted or non-permitted pit, closed-loop system, tank, or proposed alternative method
Instructions: Please submit one application (Form	C-144) per individual pit, closed-loop system, below-grade tank or alternative request
	elieve the operator of liability should operations result in pollution of surface water, ground water or the esponsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
I	esponsionity to compiy with any other applicable governmental audiomy's fulles, regulations of ordinances
Operator: ConocoPhillips Company	OGRID#: <u>217817</u>
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: Rhoda Abrams 1M	
API Number: 30-045-34150	OCD Permit Number.
	wnship: 30N Range: 11W County: San Juan 3848' N Longitude: 108.01981' W NAD: 1927 X 1983
Surface Owner: X Federal State	Private Trubal Trust or Indian Allotment
X Pit: Subsection F or G of 19.15.17 11 NMAC Temporary: X Drilling Workover Permanent Emergency Cavitation P&/A X Lined Unlined Liner type Thicks X String-Reinforced Liner Seams: X Welded X Factory Other	ness 20 mil X LLDPE HDPE PVC Other
Closed-loop System: Subsection H of 19.15.17.1 Type of Operation: P&A Drilling a new work Drying Pad Above Ground Steel Tanks Lined Unlined Liner type: Thickney Liner Seams: Welded Factory Other	Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Haul-off Bins Other HDPE PVD Other
Below-grade tank: Subsection I of 19.15.17 11 NM Volume: bbl Type of flu Tank Construction material. Secondary containment with leak detection Visible sidewalls and liner Visible side	visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
5 Alternative Method:	

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

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet X Alternate. Please specify 4' hogwire fence with a single strand of barbed wire on top.							
Netting: Subsection E of 19.15 17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)							
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							
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s) Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	deration of ap	proval.					
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.							
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map, Visual inspection (certification) of the proposed site	Yes	XNo					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo					
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site: Aerial photo: Satellite image	□NA						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applied to permanent pits) XNA							
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. 	Yes	XNo					
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended							
Within 500 feet of a wetland. - 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 Society; Topographic map	Yes	XNo					
Within a 100-year floodplain - FEMA map	Yes	XNo					

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Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC						
Instructions. Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17.9 NMAC						
Tydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 13 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 Comphance 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						
Closed-loop Systems Permit Application Attachment Checklist: Closed-loop Systems 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. 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						
Permanent Pits Permit Application Checklist: Subsection B of 19.15 17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.						
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19 15.17.9 NMAC						
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC						
Climatological Factors Assessment						
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC						
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC						
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15 17.11 NMAC						
Quality Control/Quality Assurance Construction and Installation Plan						
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15.17.12 NMAC						
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15 17 11 NMAC						
Nuisance or Hazardous Odors, including H2S, Prevention Plan						
Emergency Response Plan						
Oil Field Waste Stream Characterization						
Monitoring and Inspection Plan						
Erosion Control Plan						
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15 17.13 NMAC						
14						
Proposed Closure: 19.15 17.13 NMAC						
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type X Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System						
Alternative						
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)						
X On-site Closure Method (only for temporary pits and closed-loop systems)						
X In-place Burial On-site Trench Alternative Clasure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)						
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)						
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan.						
Please indicate, by a check mark in the box, that the documents are attached.						
Protocols and Procedures - based upon the appropriate requirements of 19.15 17.13 NMAC						
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC						
Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)						
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC						
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC						
Ste Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17.13 NMAC						

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16								
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15 17.13 D NMA Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than are required.								
Disposal Facility Name Disposal Facility Permit #:								
Disposal Facility Name: Disposal Facility Permit #								
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information No								
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17 13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC								
17								
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions: Each string criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 10 NMAC for guidance.								
Ground water is less than 50 feet below the bottom of the buried waste.	Yes X No							
- NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	∐N/A							
Ground water is between 50 and 100 feet below the bottom of the burned waste	X Yes No							
- NM Office of the State Engineer - tWATERS database search; USGS, Data obtained from nearby wells	│							
Ground water is more than 100 feet below the bottom of the buried waste.	Yes X No							
- NM Office of the State Engineer - 1WATERS database search; USGS; Data obtained from nearby wells								
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes XNo							
	Yes X No							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application - Visual inspection (certification) of the proposed site; Aerial photo; satellite image								
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 municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended								
 Written confirmation or verification from the municipality; Written approval obtained from the municipality 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.	Yes X No							
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area.	Yes X No							
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources, USGS, NM Geological Society; Topographic map								
Within a 100-year floodplain FEMA map	Yes X No							
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must bee attached to the closure was the box, that the documents are attached.	losure plan. Please indicate,							
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC								
X Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15.17.13 NMAC								
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC								
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements								
X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC								
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15 17 13 NM	AC							
X Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC								
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standard	Is cannot be achieved)							
X Soil Cover Design - based upon the appropriate requirements of Subsection H of 19 15.17 13 NMAC								
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC								
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17 13 NMAC								

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19 Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Crystal Tafoya Title. Regulatory Technician
Signature: Constal Talaya Date: 10/6/08
e-mail address; crystal.tatoya@conocophillips.com Telephone: / 505/326-9837
20 OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Approval Date: 11-31-08
Title: Enviro Epec 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
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
On site Crosule Execution. Lantage Exhibiting 1727 1727 1705
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 the closure complies with all applicable closure requirements and conditions specified in the approved closure plan
Name (Print): Title
Signature: Date
e-mail address. Telephone:

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30N Range: 11W Sections: 4,5,6,7,8,9 NAD27 X: **Y**: Search Radius: Zone: County: Basin: Number: Suffix: Owner Name: (First) (Last) O Non-Domestic O Domestic (a) All POD/Surface Data Report Avg. Depth. to. Water Report Water Column Reports Clear Form iWATERS Menu Help

WATER COLUMN REPORT 10/03/2008

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth Wate POD Number Tws Rng Sec q q q Zone Y Well Water Colum SJ 01364 30N 11W 04 115 86 2 2 2 SJ 03076 30N 11W 04 44 10 SJ 02903 30N 11W 04 3 49 31 1 SJ 03039 30N 11W 04 53 40 1 SJ 01450 30N 11W 04 45 20 SJ 02941 30N 11W 04 4 3 2 58 37 30N 11W 04 4 4 1 48 20 SJ 01367 30N 11W 04 4 4 4 SJ 03407 453700 2124100 30 5 30N 11W 05 2 1 3 SJ 03267 83 60 30N SJ 03245 11W 06 80 65. 30N SJ 02194 11W 07 59 22 SJ 02140 30N 11W 07 70 1 60 SJ 00688 30N 11W 07 1 4 3 70 58 1 SJ 00358 30N 11W 07 61 38 2 11W 07 SJ 00690 30N 60 30N SJ 00415 11W 07 53 40 1 30N 11W 07 SJ 00882 1 60 50 1 30N 11W 07 SJ 00748 60 41 1 SJ 00689 30N 11W 07 4 78 65 30N 11W 07 1 SJ 00387 SJ 00389 30N 11W 07 1 4 3 53 30N 11W 07 1 4 3 70 58 SJ 00739 1 30N 11W 07 1 4 3 SJ 00397 56 35 2 SJ 00806 30N 11W 07 38 20 1 30N SJ 00889 11W 07 55 11W 07 30N 2 3 2 SJ 03271 30N 11W 07 2 3 3 49 27 SJ 01475 30N 11W 07 2 3 4 SJ 03465 80

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SJ 00769	30N	11W 07	4 1			50	14	3
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SJ 02936	30N	11W 07	4 1 1			38	30	
SJ 00329	30N	11W 07	4 1 3			63	20	۷
SJ 00620	30N	11W 07	4 1 3			52	35	1
SJ 00162	30N	11W 07	4 1 3			58	23	3
SJ 00679	30N	11W 07	4 1 3			48	22	2
SJ 02906	30N	11W 07	4 1 4			45	24	2
SJ 00893	30N	11W 07	4 2			80	40	4
SJ 01404	30N	11W 07	4 3			40	15	2
SJ 01667	30N	11W 07	4 3			41	21	2
SJ 00604	30N	11W 07	4 3 2			38	22	1
SJ 00920	30N	11W 07	4 3 2			35	12	2
SJ 00601	30N	11W 07	4 3 2			40	22	1
SJ 00918	30N	11W 07	4 3 2			35	14	2
SJ 00919	30N	11W 07	4 3 2			35	12	2
SJ 01567	30N	11W 07	4 4 2			35	300	2
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SJ 00332	30N	11W 08	2 2			61	45	1
SJ 01814	30N	11W 08	2 2			52	10	4
SJ 01451	30N	11W 08	2 2			64	34	3
SJ 01968	30N	11W 08	2 2			40	25	1
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SJ 01585	30N	11W 09	1			40	28	1
SJ 02236	30N	11W 09		1	1	35	17	1
SJ 03499	30N	11W 09			1	53	12	4
SJ 03304	30N	11W 09	1		2	55	30	2
SJ 03726 POD1	30N	11W 09	1	1	3	47	30	1
SJ 03209	30N	11W 09		1		49	32	1
SJ 03342	30N	11W 09		1		50	31	1
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SJ 03031	30N	11W 09			1	55	35	2
SJ 02493	30N	11W 09			1	49	26	2
SJ 03724 POD1	30N	11W 09			1	47	36	1
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Record Count: 143

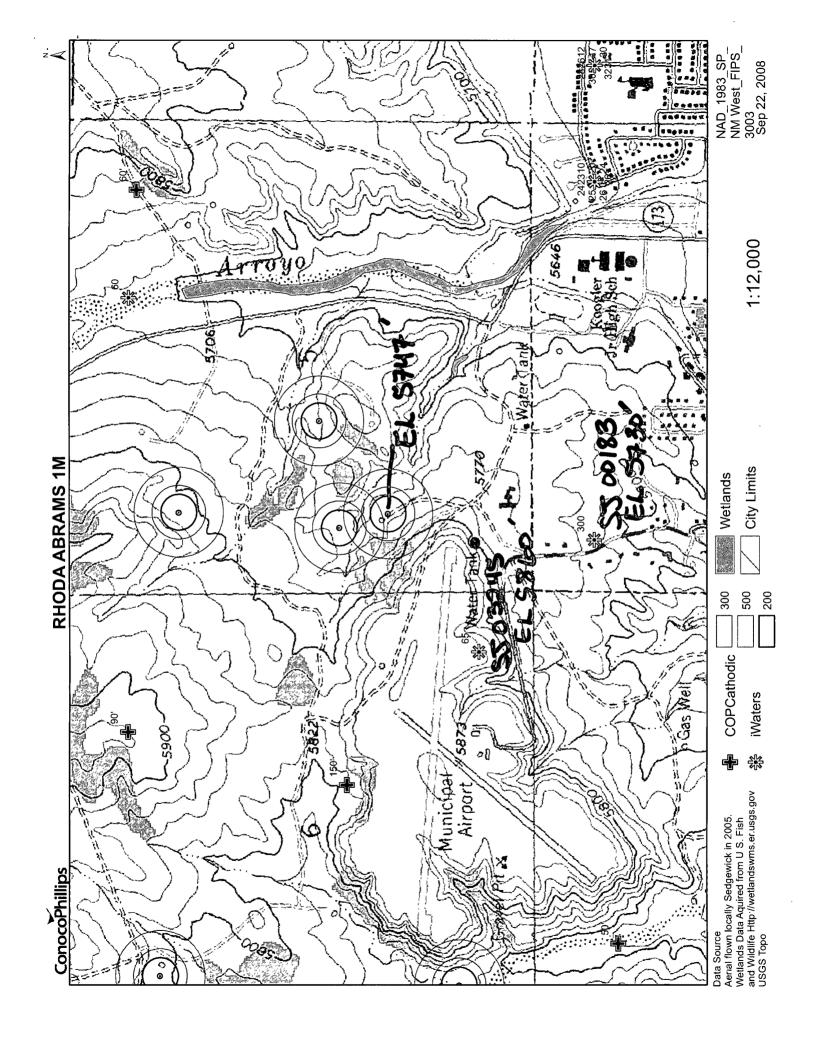
New Mexico Office of the State Engineer POD Reports and Downloads

Range: 11W Township: 31N Sections: 31,32,33 NAD27 X: Y: Zone: Search Radius: County: Basin: Suffix: Number: Owner Name: (First) (Last) Non-Domestic Domestic All POD / Surface Data Report Avg Depth to Water Report Water Column Report Clear Form iWATERS Menu Help

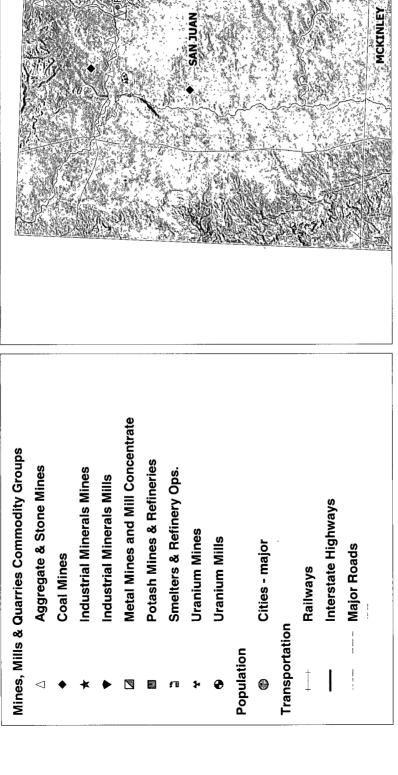
WATER COLUMN REPORT 10/03/2008

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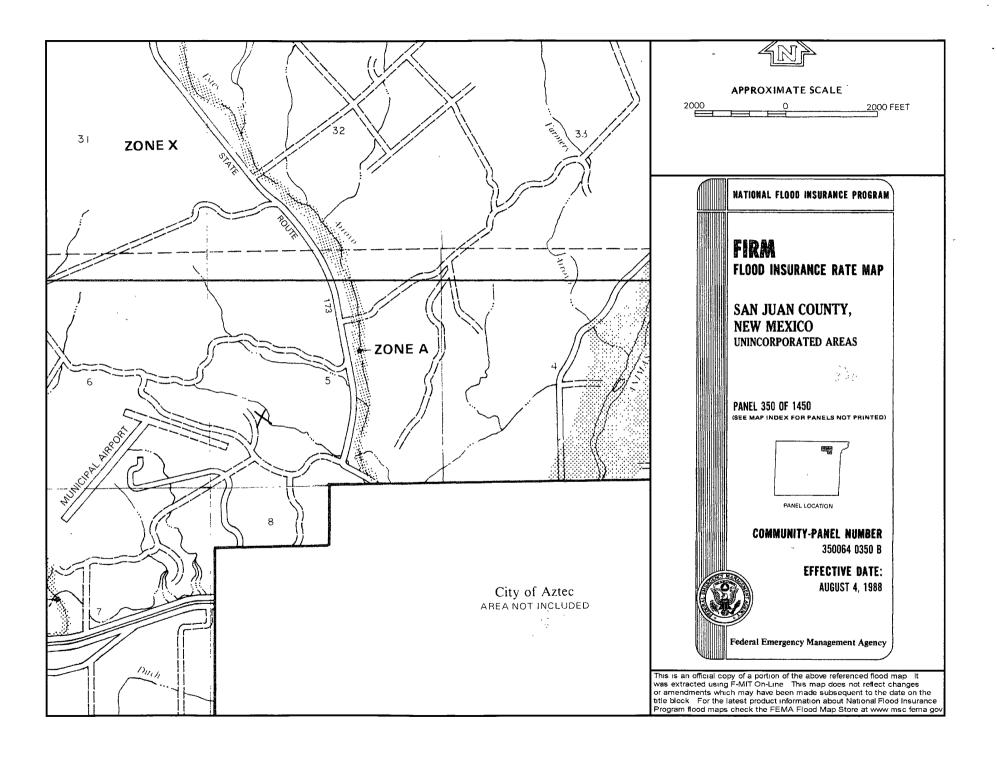
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Rhoda Abrams 1M Mines, Mills and Quarries Web Map







Hydrogeological Report for Rhoda Abrams 1M

Regional Geological context:

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

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

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

Hydraulic Properties:

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

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

References:

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

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

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

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

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

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

Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Rhoda Abrams 1M is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. The subject well has an elevation of 5747'. The iWATERS data points are located in section 6 and 11 and are SJ03245 and SJ00183 with a depth to water of 65' and 300' with an approximate elevation of 5860' and 5730' as indicated on the TOPO Map. The iWATERS data provides the indication that groundwater depth is greater than 50'. The hydro geologic analysis indicates the groundwater depth and the Nacimiento formation will create a stable area for this new location.

Tally, Ethel

From:

Tally, Ethel

Sent:

Friday, October 03, 2008 2:46 PM

To: Subject: 'mark_kelly@nm.blm.gov' Surface Owner Notification

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

Rhoda Abrams 1M

Roelofs 1N

San Juan 28-7 Unit 249G

Thank You,

Ethel Tally ConocoPhillips-SJBU 3401 E. 30th Farmington NM 87402 (505)599-4027 phone Ethel.Tally@conocophillips.com

Form C-Revised October 12, 3

DESTRUCT A

000 Ho Br

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Pe, NM 87506

Submit to Appropriate District 0: State Lease - 4 Co Fee Lease - 3 Co RCUD JUN 11'08

AMENDED REPORTED AMENDED REPORTED IN CONS. DIV.

AS DRILLED

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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:

- All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division-approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011)
- 2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
- 3. The surface owner shall be notified of COPC's closing of the temporary pit prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring COPC will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. Notice of Closure will be given prior to the Aztec Division office between 72 hours and one week via email, or verbally. The notification of closure will include the following:
 - i. Operator's name
 - Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at the San Juan County Landfill located on CR 3100.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

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

Source No. two (better quality)

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.