District I

1625 N. French Dr., Hobbs, NM 88240

1301 W Grand Ave , Artesia, NM 88210

 $1000\ Rio\ Brazos\ Rd$  , Aztec, NM  $\ 87410$ 

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

Form C-144 July 21, 2008

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

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

220 D Di Timicis Di	, Sama I C, IVIVI 67303	
4091	Pro	Pit, Closed-Loop System, Below-Grade Tank, or posed Alternative Method Permit or Closure Plan Application
	Type of action:	Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method  Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method  Modification to an existing permit  X Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface

Ogrator: ConocoPhillips Company  Address: PO Box 4289, Farmington, NM 87499  Facility or well name: SAN JUAN 30-5 UNIT 27F  API Number: 30-039-30128  OCD Permit Number: U/L or Qtr/Qtr: C(NE/NW) Section: 20 Township: 30N Range: 5W County: Rio Arriba  Center of Proposed Design: Latitude: 36.803333 °N Longitude: 107.83535 °W NAD: 1927 1983  Surface Owner: X Federal State Private Tribal Trust or Indian Allotment  2 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. Thickness 12 mil X LLDPE HDPE PVC Other  X String-Reinforced  Liner Seams X Welded X Factory Other Volume: 4400 bbl Dimensions L 65' x W 45' x D 10'  3 Closed-loop System: Subsection H of 19 15 17 11 NMAC  Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)  Drying Pad Above Ground Steel Tanks Haul-off Bins Other
Facility or well name: SAN JUAN 30-5 UNIT 27F  API Number: 30-039-30128 OCD Permit Number:  U/L or Qtt/Qtr: C(NE/NW) Section: 20 Township: 30N Range: 5W County: Rio Arriba  Center of Proposed Design: Latitude: 36.803333 °N Longitude: 107.83535 °W NAD: 1927 1983  Surface Owner: X Federal State Private Tribal Trust or Indian Allotment  2  X Pitt: Subsection F or G of 19.15.17.11 NMAC  Temporary: X Drilling Workover Permanent Emergency Cavitation P&A X Lined Unlined Liner type. Thickness 12 mil X LLDPE HDPE PVC Other  X String-Reinforced  Liner Seams X Welded X Factory Other Volume: 4400 bbl Dimensions L 65' x W 45' x D 10'  3  Closed-loop System: Subsection H of 19 15 17 11 NMAC  Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
U/L or Qtr/Qtr: C(NE/NW) Section: 20 Township: 30N Range: 5W County: Rio Arriba  Center of Proposed Design: Latitude: 36.803333 °N Longitude: 107.83535 °W NAD: 1927 X 1983  Surface Owner: X Federal State Private Tribal Trust or Indian Allotment  2  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. Thickness 12 mil X LLDPE HDPE PVC Other  X String-Reinforced  Liner Seams X Welded X Factory Other Volume: 4400 bbl Dimensions L 65' x W 45' x D 10'  3  Closed-loop System: Subsection H of 19 15 17 11 NMAC  Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permut or notice of intent)
Center of Proposed Design: Latitude:  36.803333 °N Longitude:  107.83535 °W NAD: 1927 X 1983  Surface Owner: X Federal State Private Tribal Trust or Indian Allotment  2  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. Thickness 12 mil X LLDPE HDPE PVC Other  X String-Reinforced  Liner Seams X Welded X Factory Other Volume: 4400 bbl Dimensions L 65' x W 45' x D 10'  3  Closed-loop System: Subsection H of 19 15 17 11 NMAC  Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment  2 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. Thickness 12 mil X LLDPE HDPE PVC Other  X String-Reinforced Liner Seams X Welded X Factory Other Volume: 4400 bbl Dimensions L 65' x W 45' x D 10'  3 Closed-loop System: Subsection H of 19 15 17 11 NMAC  Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
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. Thickness   12   mil   X LLDPE   HDPE   PVC   Other   X String-Reinforced   Liner Seams   X Welded   X Factory   Other   Volume:   4400   bbl   Dimensions   65'   x W   45'   x D   10'     3
Temporary: X Drilling Workover  Permanent Emergency Cavitation P&A  X Lined Unlined Liner type. Thickness 12 mil X LLDPE PVC Other  X String-Reinforced  Liner Seams X Welded X Factory Other Volume: 4400 bbl Dimensions L 65' x W 45' x D 10'  Closed-loop System: Subsection H of 19 15 17 11 NMAC  Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Closed-loop System: Subsection H of 19 15 17 11 NMAC  Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Liner Seams: Welded Factory Other
Below-grade tank: Subsection I of 19 15.17.11 NMAC  Volume bbl Type of fluid  OIL CONS. DIV. DI
Below-grade tank: Subsection I of 19 15.17.11 NMAC  Volume bbl Type of fluid  Tank Construction material:  Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  Visible sidewalls and liner Visible sidewalls only Other  Liner Type: Thickness mil HDPE PVC Other
5 Alternative Method:  Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

		ļ						
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 bailed wife 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.								
7								
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)								
Scien Netting Other  Monthly inspections (If netting or screening is not physically feasible)								
8								
Signs: Subsection C of 19,15.17.11 NMAC								
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers								
X 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 cons (Fencing/BGT Liner)	ideration of ap	proval.						
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.								
10								
Siting Criteria (regarding permitting): 19.15.17.10 NMAC								
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.		ļ						
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	Yes	□No						
lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site								
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	□No						
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	□NA							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No						
(Applied to permanent pits)	□NA	_						
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image								
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	Yes	∐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	□No						
<ul> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Within 500 feet of a wetland.</li> </ul>	∏Yes							
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	LIE	∐No						
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division								
Within an unstable area,	∏Yes	□No						
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map								
Within a 100-year floodplain	Yes	□No						

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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								
Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9								
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC								
Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC								
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15.17.11 NMAC								
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of								
19.15 17 9 NMAC and 19.15 17.13 NMAC								
Previously Approved Design (attach copy of design)  API  or Permit								
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC								
Instructions Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.								
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17 9								
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15 17.10 NMAC								
Design Plan - based upon the appropriate requirements of 19.15 17 11 NMAC								
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC								
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15 17.9  NMAC and 19.15 17.13 NMAC								
Previously Approved Design (attach copy of design)  API								
Previously Approved Operating and Maintenance Plan API								
13								
Permanent Pits Permit Application Checklist: Subsection B of 19.15 17.9 NMAC								
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.								
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19.15.17.9 NMAC								
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC								
Climatological Factors Assessment								
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC								
Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC								
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC								
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC								
Quality Control/Quality Assurance Construction and Installation Plan								
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17 12 NMAC								
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15 17.11 NMAC  Nuisance or Hazardous Odors, including H2S, Prevention Plan								
Emergency Response Plan								
Oil Field Waste Stream Characterization								
Monitoring and Inspection Plan								
Erosion Control Plan								
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC								
14								
Proposed 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								
Type: X Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System  Alternative								
Proposed Closure Method: Waste Excavation and Removal								
Waste Removal (Closed-loop systems only)								
X On-site Closure Method (only for temporary pits and closed-loop systems)								
X In-place Burial On-site Trench								
Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)								
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.  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								
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)								
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC								
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC								
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC								

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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 NMAC)							
Instructions, Please identify the facility or facilities for the disposal of liquids, drilling for are required	luids and drill cuttings. Use attachment if more than two fa	cilities						
•	Disposal Facility Permit #.							
Disposal Facility Name Disposal Facility Permit #.								
Will any of the proposed closed-loop system operations and associated activities  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 I 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 siting criteria requires a demonstration of compliance in the closure plan. Receitain siting criteria may require administrative approval from the appropriate district office of for consideration of approval Justifications and/or demonstrations of equivalency are required	may be considered an exception which must be submitted to the S							
Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - tWATERS database search, USGS: Data obtain	ned from nearby wells	Yes X No						
Ground water is between 50 and 100 feet below the bottom of the buried waste		Yes X No						
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtain	ned from nearby wells	□N/A						
Ground water is more than 100 feet below the bottom of the buried waste.		X Yes No						
- NM Office of the State Engineer - tWATERS database search; USGS; Data obtain	ed from nearby wells	□N/A						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significations (measured from the ordinary high-water mark).	Yes XNo							
- Topographic map; Visual inspection (certification) of the proposed site	viotanae at the time of contint controls	Yes X No						
Within 300 feet from a permanent residence, school, hospital, institution, or church in ex- 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 obtain	ned from the municipality							
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspe	ction (certification) of the proposed site	Yes X No						
Within the area overlying a subsurface mine	maral Discussion	Yes X No						
- Written confirantion or verification or map from the NM EMNRD-Mining and M Within an unstable area.		Yes XNo						
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mir Topographic map</li> </ul>	neral Resources, USGS; NM Geological Society,							
Within a 100-year floodplain FEMA map		Yes XNo						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of	f the following items must bee attached to the closure	e plan. Please indicate,						
by a check mark in the box, that the documents are attached.  X String Criteria Compliance Demonstrations - based upon the appropriate	requirements of 19 15 17 10 NMAC							
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 dryin		9.15.17.11 NMAC						
X Protocols and Procedures - based upon the appropriate requirements of 1								
Confirmation Sampling Plan (if applicable) - based upon the appropriate								
X Waste Material Sampling Plan - based upon the appropriate requirement		anot be achieved)						
<ul> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids at</li> <li>Soil Cover Design - based upon the appropriate requirements of Subsection</li> </ul>	-	mor de acmeveu)						
X Re-vegetation Plan - based upon the appropriate requirements of Subsect								
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:
1 hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief
Name (Print) Ethel Tally Title Staff Regulatory Technician
Signature Date:
e-mail address: ethel tally@conocophillips.com Telephone: 505-599-4027
20 OCD Approval: Rermit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: \[ \frac{\infty}{2} \text{if \infty} \] Approval Date: \[ \frac{\infty}{1} \left( \frac{\infty}{9} \]
Title: COCD Permit Number:
21
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.
Name (Print): Title:
Signature Date:
e-mail address:Telephone:



# New Mexico Office of the State Engineer Wells with Well Log Information

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(in feet)

Sub POD Number basin	Use	County	Source	.q 641	q q  6 4	Sec	Tws Rng	x	Y	Start Date	Finish Date	Log File Date	Depth Well	Depth Water
SJ 02771	STK						30N 05W			12/18/1997		01/27/1998	325	

#### **Record Count: 1**

#### **PLSS Search:**

Section(s): 16, 17, 18, 19, Township: 30N Range: 05W

20, 21, 28, 29,

30

#### \*UTM location was derived from PLSS - see Help



## New Mexico Office of the State Engineer Wells with Well Log Information

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(in feet)

POD Number	Sub basin Use	County	Source	q ( 641	1 ,q 6 4 *	Sec	Tws Rng	X		Start Date	Finish Date	Log File Date	Depth :	Depth Water
SJ 02771	STK	RA	Shallow	2 1	1	17	30N 05W	287141	4077449*	12/18/1997	12/30/1997	01/27/1998	325	137

#### **Record Count: 1**

#### **PLSS Search:**

Section(s): 16, 17, 18, 19,

20, 21, 28, 29,

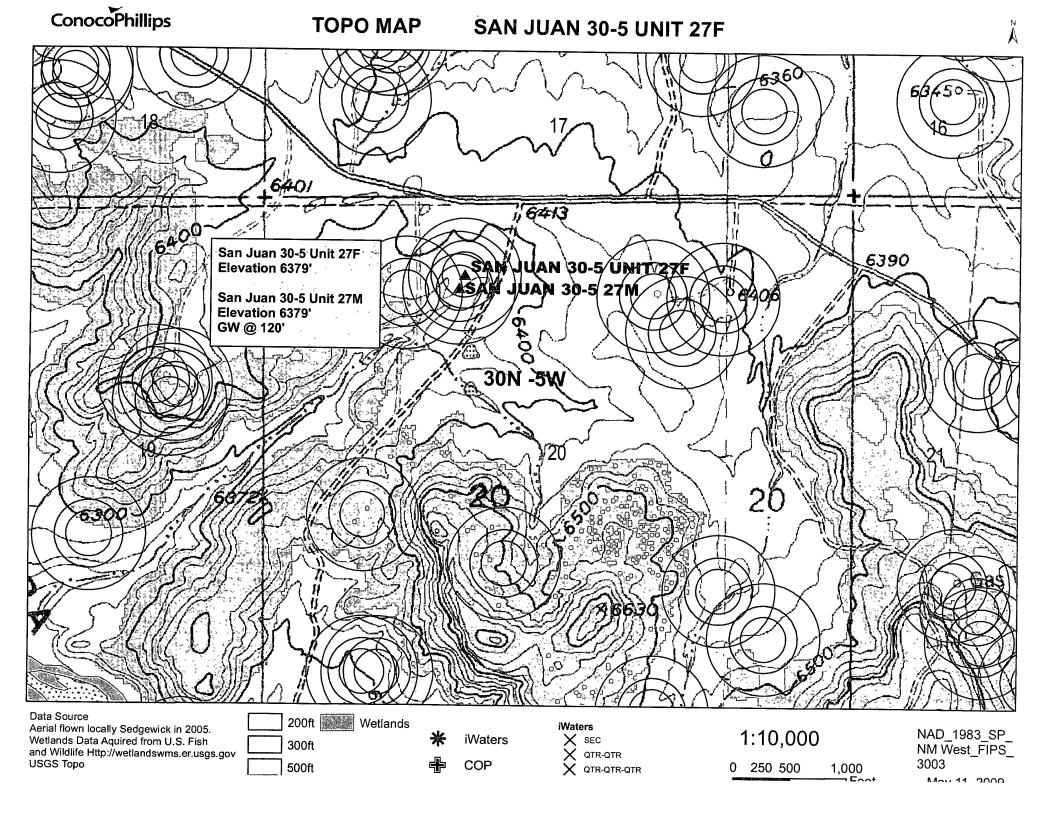
Township: 30N

Range: 05W

30

#### \*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



3253

### OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT DATA SHEET: NORTHWESTERN NEW MEXICO

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFI

OPERATOR: PHILLIPS PETROLEUM CO FARMINGTON, NM 87401

PHONE: 599-3400

30-039-25669

#### LOCATION INFORMATION

WELLNAME OR PIPELINE SERVED: SJ 30-5 #27-M

**ADDTIONAL WELLS: NA** 

**LEGAL LOCATION** C-20-30-5

DATE OF INSTALLATION: 7/8/97

LEASE NUMBER: SF-078740

TYPE OF LEASE: FEDERAL

**PPCO RECTIFIER NUMBER: FM-610** 

TOTAL G/B DEPT 320

#### **GROUNDBED INFORMATION**

CASING SIZE: 8

CASING TYPE: PVC

CASING DEPTH: 20

**CASING CEMENT: YES** 

TOP ANODE:

200

**BOTTOM ANODE** 

285

INDIVIDUAL ANODE DEPTHS 200,210,220,230,240,250,259,265,275,285

**AMOUNT OF COKE:** 

2200

#### WATER INFORMATION

**WATER DEPTH (1): 120** 

WATER DEPTH (2): NA

CEMENT PLUGS: NA

#### OTHER INFORMATION

GAS DEPTH: NA

**VENT PIPE DEPTH** 320

**TOP OF VENT PERFORATIONS: 200** 

REMARKS:

G/B DRILLED 7-97

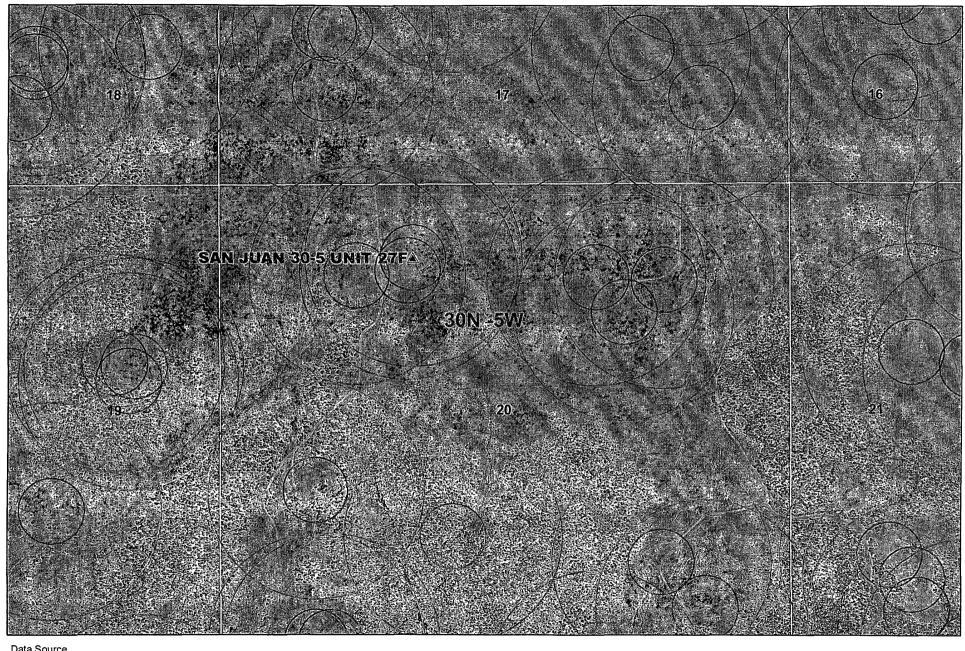
IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED WELLS ARE TO BE INCLUDED.

\*- LAND TYPE MAY BE SHOWN: F-FEDERAL; I-INDIAN; S-STATE, P-FEE
IF FEDERAL OR INDIAN, ADD LEASE NUMBER.

PPCO.GROUNDBED LOG

loun.	IDC DET	שחוב	UM CO.	T	DEE		CATHOD			GROUNDBEL	LOGDATA	SHEET
PHILL										·····		The state of the s
	DKILL	נחפי	DRILLER	(S NAME A	AND COM	PANY)	JACKI	201	3211 ER-	TIERICH	DYNAM	
LOCA	TION NO	WE:	53,30	2-5-6	27 111	DATE	DRILLEL	): 7-	8-97	311 211 2	<u> </u>	J
LEGA	L LOCA	TION:	Secalo	-30N	-5W	SIZE A	WD TYP	E OF		" PVC		Y
PPCO	ID NO.(	FM NO	<i>اعا</i> (.c	0	<u> </u>		OF CAS			- A) (A) (B)		<u></u>
TOTA	L DEPTH	1:	320,			COKE	:(CIRCLE)	PET	R OR MET		T: 220	O LBS.
	ETER OF					TYPE	OF ANO	DES:	Richte	dunca	<del></del>	
COUN	TY: K	10	Airiba	<del></del>	<del></del>	<del></del>	ļ				<u> </u>	
		1			1	1	1		COMPLETI	ON INFORMA	TION:	
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105	1	1	270	1.8	1	435		· · · · ·	2)	BTM: 320		<del></del>
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120		1	285	1.60	1	450		!	1	285	1.6	2.7
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135	1		300	1,8		465			4	259	7,7	5,2 4,8
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165	1.60	<u> </u>	330			495			10	200	1.8	4.9
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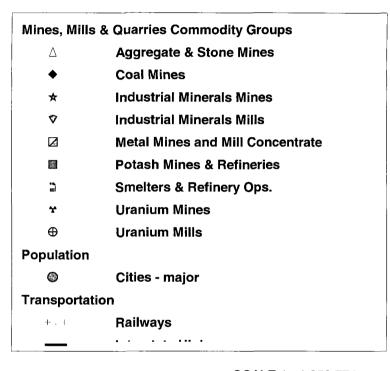
Data Source
Aerial flown locally Sedgewick in 2005.
Wetlands Data Aquired from U S. Fish
and Wildlife Http://wetlandswms.er.usgs.gov
USGS Topo

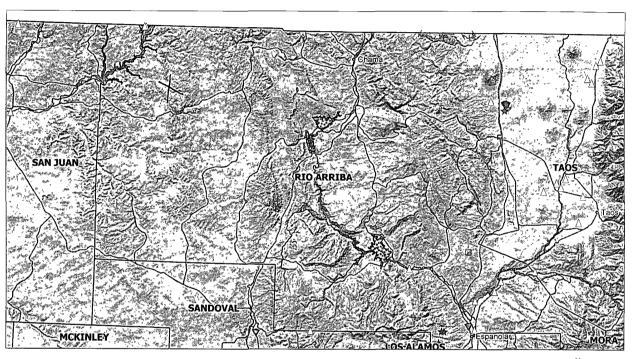
300ft City Limits

1:10,000

0 250 500 1,000 Feet NAD\_1983\_SP\_ NM West\_FIPS\_ 3003 May 11, 2009

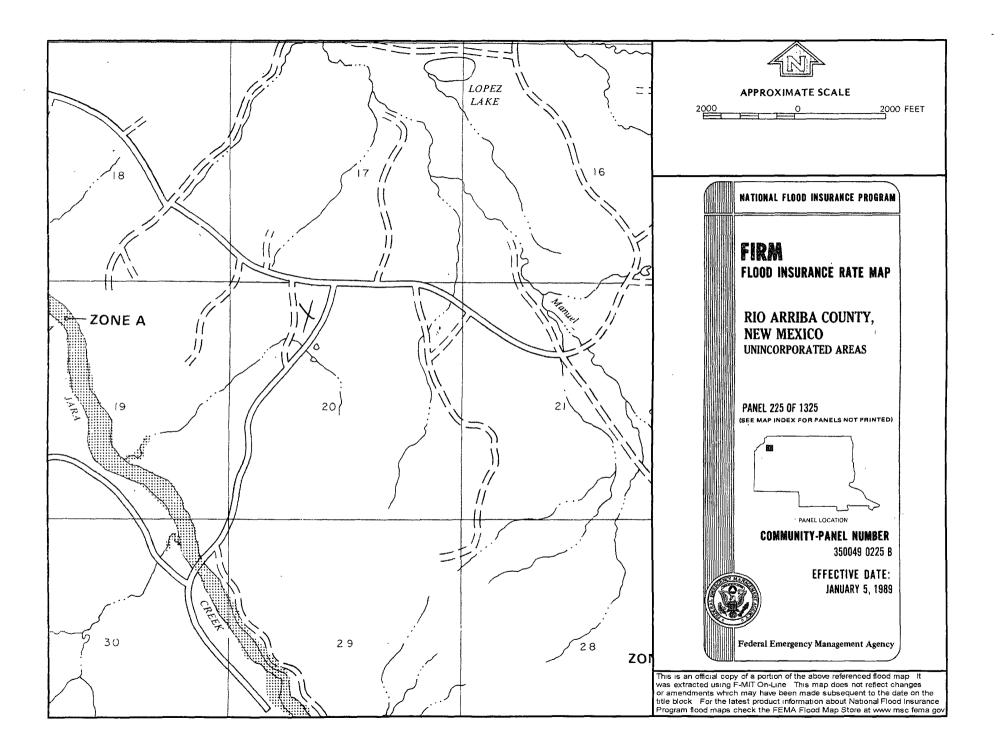
### MMQonline Public Version/SJ 30-5 UNIT 27F











#### Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The San Juan 30-5 Unit 27F is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. The Cathodic well data from the San Juan 30-5 Unit 27M has an elevation of 6379' and groundwater depth of 120'. The subject well has an elevation of 6379' which is the same as the San Juan 30-5 Unit 27M, therefore the groundwater depth is 120'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the San Jose formation will create a stable area for this new location.

#### Hydrogeological report for San Jose Formation San Juan 30-5 Unit 27F

#### Regional Hydrogeological context:

The San Jose Formation of Eocene age occurs in New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally south of the Colorado-New Mexico State line and overlies the Animas Formation in the area generally north of the State line.

The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and variegated shale. Thickness of the San Jose Formation generally increases from west to east (200 feet in the west and south to almost 2,700 feet in the center of the structural basin). Ground water is associated with alluvial and fluvial sandstone aquifers. Thus, the occurrence of ground water is mainly controlled by the distribution of sandstone in the formation. The distribution of such sandstone is the result of original depositional extent plus any post-depositional modifications, namely erosion and structural deformation. Transmissivity data for San Jose Formation are minimal. Values of 40 and 120 feet squared per day were determined from two aquifer tests (Stone et al, 1983, table 5). The reported or measured discharge from 46 water wells completed in San Jose Formation ranges from 0.15 to 61 gallons per minute and the median is 5 gallons per minute. Most of the wells provide water for livestock and domestic use.

The San Jose Formation is a very suitable unit for recharge from precipitation because soils that form on the unit are sandy and highly permeable and therefore readily adsorb precipitation. However, low annual precipitation, relatively high transpiration and evaporation rates, and deep dissection of the San Jose Formation by the San Juan River and its tributaries all tend to reduce the effective recharge to the unit.

Stone et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico: Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.

## 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 closure to the Aztec Division office between 72 hours and one week via email, or verbally. The notification of closure will include the following:
  - i. Operator's name
  - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at the San Juan County Landfill located on CR 3100.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

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

- 9. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. If standard testing fails 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
50 percent
Germination
Percent PLS
20 percent
Source No. two (better quality)
Purity
80 percent
Germination
63 percent
Percent PLS
50 percent

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

1 lb. PLS . 1 lb. PLS

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