District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd , Aztec, NM 87410

District IV

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

State of New Mexico Energy Minerals and Natural Resources

Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

July 21, 2008 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, 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
	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 water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

environment. Nor does approval relieve the operator of its responsibility to comply with any other applica	ible governmental authority's rules, regulations or ordinances
Operator: ConocoPhillips Company	OGRID#: 217817
Address: PO Box 4289, Farmington, NM 87499	RCVD JUL 29 '08
Facility or well name: Heaton #101	DIL CONS. DIV.
API Number: 30-045-34708 OCD Permit Nui	mber: DIST. 3
U/L or Qtr/Qtr: B(NWNE) Section: 33 Township: 31N Range:	11W County: San Juan
Center of Proposed Design: Latitude: 36.85958300' N Longitude:	107.9917800' W NAD: X 1927 1983
Surface Owner: X Federal State Private Tribal Trust or Inc	dian 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: Thickness 20 mil X LLDPE String-Reinforced Liner Seams: X Welded X Factory Other Volume: 70	
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applie notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE Liner Seams: Welded Factory Other	s to activities which require prior approval of a permit or HDPE PVD Other
4	
X Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 120 bbl Type of fluid: Produced Water	
Tank Construction material: Metal	<u></u>
Secondary containment with leak detection X Visible sidewalls, liner, 6-inch lift and	automatic overflow shut-off
Visible sidewalls and liner Visible sidewalls only Other	
Liner Type: Thickness 30 mil X HDPE PVC Other	
5	
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Env	rironmental 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 Please See Design Plan										
Netting: Subsection E of 19 15.17 11 NMAC (Applies to permanent pits and permanent open top tanks) X Screen Netting Other X Monthly inspections (If netting or screening is not physically feasible)										
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	ideration 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. (Applies to temporary, emergency, or cavitation pits and below-grade tanks)	☐Yes ☐NA	XNo								
 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) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes X	No								
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 Written confirmation or verification from the municipality; Written approval obtained from the municipality 	Yes	XNo								
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.	Yes	X No								
 Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division 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 - FEMA map	Yes	XNo								

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.
X Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
X Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15 17.9
X String Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15 17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19 15.17.12 NMAC
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15.17 9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API or Permit
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 Description Approved Operating and Maintenance Plan 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
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: X Waste Excavation and Removal (Below-grade Tank) Waste Removal (Closed-loop systems only) X On-site Closure Method (only for temporary pits and closed-loop systems) X In-place 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. The 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 G of 19.15.17.13 NMAC

	nat Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC) the disposal of liquids, drilling fluids and drill cuttings—Use attachment if more than tw									
facilities are required										
	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 Yes (If yes, please provide the information No										
Re-vegetation Plan - based upon the approp	on - based upon the appropriate requirements of Subsection H of 19.15.17.13 NM oriate requirements of Subsection I of 19.15.17.13 NMAC original requirements of Subsection G of 19.15.17.13 NMAC	AC								
Siting Criteria (Regarding on-site closure methods only: 19.15 17.10 NMAC Instructions Each sting criteria requires a demonstration of compliance in the closure plan Recommendations of acceptable source material are provided below Requests regarding changes to certain sting 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 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 - NM Office of the State Engineer - IWATERS da	n of the buried waste. tabase search, USGS Data obtained from nearby wells	Yes N/A	X No							
Ground water is between 50 and 100 feet below th	e bottom of the buried waste	Yes	X No							
	tabase search, USGS; Data obtained from nearby wells	⊟N/A	<u> </u>							
Ground water is more than 100 feet below the bott	om of the buried waste	X Yes	No							
- NM Office of the State Engineer - IWATERS date	abase search; USGS; Data obtained from nearby wells	□N/A								
Within 300 feet of a continuously flowing watercourse, (measured from the ordinary high-water mark).	or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake	Yes	XNo							
- Topographic map; Visual inspection (certification	n) of the proposed site									
Within 300 feet from a permanent residence, school, he - Visual inspection (certification) of the proposed s	Yes	XNo								
Wishing 500 housestell first of a migrate demonstra fresh	and the first that have the first the first throughout throughout the first throughout through the second throughout t	Yes	XNo							
watering purposes, or within 1000 horizontal fee of any	water well or spring that less than five households use for domestic or stock the fresh water well or spring, in existence at the time of the initial application. abase; Visual inspection (certification) of the proposed site									
adopted pursuant to NMSA 1978, Section 3-27-3, as an		Yes	XNo							
- Written confirmation or verification from the mu Within 500 feet of a wetland	nicipality; Written approval obtained from the municipality	Yes	XNo							
	, Topographic map, Visual inspection (certification) of the proposed site	Lifes	_ No							
Within the area overlying a subsurface mine	aho NM EMNIDO Muura and Minaral Dunnian	Yes	X No							
 Written confirantion or verification or map from Within an unstable area. 	the NWI EMINED-Mining and Mineral Division	Yes	X No							
	n; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society.		<u></u> 1.\\							
Within a 100-year floodplain FEMA map		Yes	XNo							
18	IMACO Instanction Full Cale Call in the Call Call Instance Call Call Instance Call Call Instance Call Call Instance Call Call Call Call Call Call Call Cal									
indicate, by a check mark in the box, that the doc		sare puin. Ple	use							
	- based upon the appropriate requirements of 19 15 17.10 NMAC									
	on the appropriate requirements of Subsection F of 19.15.17.13 NMAC									
	(if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC appropriate requirements of 19.15.17.13 NMAC									
	- based upon the appropriate requirements of Subsection F of 19.15.17.13 NMA	C								
	the appropriate requirements of Subsection F of 19 15 17 13 NMAC									
	r (for liquids, drilling fluids and drill cuttings or in case on-site closure standards	cannot be achie	eved)							
_	riate requirements of Subsection H of 19 15 17 13 NMAC									
=	oriate requirements of Subsection I of 19.15.17.13 NMAC									
X Site Reclamation Plan - based upon the app	propriate requirements of Subsection G of 19 15.17.13 NMAC									

Form C-144 Oil Conservation Division Page 4 of 5

Name (Print):	Crystal Tafoya	Title	Regulatory Technician
Signature:	Land Take	Date	7/28/2008
e-mail address	crystal.taloya@conocophillipy.com/	Telephone:	505-326-9837
	•		
0 OCD Approval:	Permit Application (including closure plan	Closure Plan (only)	OCD Conditions (see attachment)
		Closure Figure (om)	
OCD Representative	Signature: But Bull	<u></u>	Approval Date: 8-4-08
itle: Envi	ro / spec	OCD Per	mit Number:
1			
ei Closure Report (regu	ired within 60 days of closure completio	n): Subsection K of 19 15 17 13 NM/	AC
nstructions: Operators o	are required to obtain an approved closure plan	n prior to implementing any clo.	sure activities and submitting the closure report. The closure
•	submitted to the division within 60 days of the co as been obtained and the closure activities have	•	ies Please do not complete this section of the form until an
1 a Common production		. —	re Completion Date:
22 Closure Method:			
Waste Excavatio	n and Removal On-site Closure Me	ethod Alternative Closur	re Method Waste Removal (Closed-loop systems only)
=	approved plan, please explain		
3 Closure Report Regard	ing Waste Removal Closure For Closed-loop	Systems That Utilize Above (Ground Steel Tanks or Haul-off Bins Only:
			ttings were disposed. Use attachment if more than two facilities
ere utilized.		Down of Cont.	to Demoit Month on
Disposal Facility Nan Disposal Facility Nan		-	ty Permit Number:
•	system operations and associated activities per		ty Permit Number:
	se demonstrate compliane to the items below)	No	nor be used for future service and operations.
	d areas which will not be used for future servic	e and operations:	
	(Photo Documentation)	,	
_	and Cover Installation		
Re-vegetation A	pplication Rates and Seeding Technique		
24	_		
Closure Report As		the following items must be at	ttached to the closure report. Please indicate, by a check mark in
_	re Notice (surface owner and division)		
	Notice (required for on-site closure)	I	•
Plot Plan (for o	n-site closures and temporary pits)		
Confirmation S	Sampling Analytical Results (if applicable)		
	Sampling Analytical Results (1f applicable)	
H	ty Name and Permit Number		
Waste Material	ij i tame and i emin i tameer		
Waste Material Disposal Facili	g and Cover Installation		
Waste Material Disposal Facili Soil Backfilling			
Waste Material Disposal Facili Soil Backfilling Re-vegetation	g and Cover Installation		
Waste Material Disposal Facili Soil Backfilling Re-vegetation	g and Cover Installation Application Rates and Seeding Technique on (Photo Documentation)	Longitude	NAD 1927 1983
Waste Material Disposal Facili Soil Backfilling Re-vegetation	g and Cover Installation Application Rates and Seeding Technique on (Photo Documentation)	Longitude	NAD [] 1927 [] 1983
Waste Material Disposal Facili Soil Backfilling Re-vegetation A Site Reclamatic On-site Closure	g and Cover Installation Application Rates and Seeding Technique on (Photo Documentation) e Location. Latitude:	Longitude	NAD [1927 [1983
Waste Material Disposal Facili Soil Backfilling Re-vegetation A Site Reclamatic On-site Closure	g and Cover Installation Application Rates and Seeding Technique on (Photo Documentation) e Location. Latitude: ertification:		
Waste Material Disposal Facili Soil Backfilling Re-vegetation A Site Reclamatic On-site Closure Decrator Closure Ce hereby certify that the	g and Cover Installation Application Rates and Seeding Technique on (Photo Documentation) e Location. Latitude: extification: unformation and attachments submitted with thi	s closure report is ture, accurai	te and complete to the best of my knowledge and belief. I also certify
Waste Material Disposal Facili Soil Backfilling Re-vegetation A Site Reclamatic On-site Closure Decrator Closure Ce hereby certify that the he closure complies with	g and Cover Installation Application Rates and Seeding Technique on (Photo Documentation) e Location. Latitude: ertification:	s closure report is ture, accural	te and complete to the best of my knowledge and belief. I also certify
Waste Material Disposal Facili Soil Backfilling Re-vegetation A Site Reclamatic On-site Closure Decrator Closure Ce thereby certify that the the closure complies with	g and Cover Installation Application Rates and Seeding Technique on (Photo Documentation) e Location. Latitude: extification: unformation and attachments submitted with thi	s closure report is ture, accurai	te and complete to the best of my knowledge and belief. I also certify
Waste Material Disposal Facili Soil Backfilling Re-vegetation A Site Reclamatic On-site Closure 25 Decentor Closure Ce thereby certify that the	g and Cover Installation Application Rates and Seeding Technique on (Photo Documentation) e Location. Latitude: extification: unformation and attachments submitted with thi	s closure report is ture, accural	te and complete to the best of my knowledge and belief. I also certify

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 31N Range: 11W Sections: 32,33,34,27,28,29										
NAD27 X: Zone: Search Radius:										
County: Basin: Number: Suffix:										
Annual state of the first of th										
Owner Name: (First) (Last) C Non-Domestic C Domestic										
POD / Surface Data Report Water Column Report										
Clear Form Help										

WATER COLUMN REPORT 07/25/2008

(qua	arter	s are	e 1=ì	1M	2=	=NE	3=SW 4=SE)					
(qua	arter	sare	e big	gge	est	: to	smallest)			Depth	Depth	Wat€
POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y	Well	Water	Colum
SJ 02482	31N	11W	27	4	1	2				75	55	2
SJ 03540	31N	11W	27	4	2	1				40	21	1
SJ 03600	31N	11W		4	2	1				51	39	1
SJ 03772 POD1	31N	11W	27	4	2	1	26823	9	2135717	41	30	1
SJ 02468	31N	11W		4	2	3				49	30	1
SJ 02914	31N	11W		4	2	3				25	15	1
SJ 02871	31N	11W	27	4	2	4				22	11	1
SJ 02656	31N	11W	27	4	2	4				21	9	1
SJ 02676	31N	11W	27	4	3					19	7	1
SJ 02215	31N	11W	27	4	3					54	23	3
SJ 03247	31N	11W		4	3	1				70		
SJ 02549	31N	11W		4	3	3				49	30	1
SJ 03505	31N	11W		4	3	3				50	14	3
SJ 02853	31N	11W	27	4	3	4				22	6	1
SJ 03181	31N	11W		4	4	1				19	10	
SJ 02984	31N	11W		4	4	1				20		
SJ 02994	31N	11W		4	3	2				300	200	1(
SJ 02993	31N	11W		4	3	2				280	160	12
SJ 01137	31N	11W	33	4	4	4				37	19	1
SJ 02277	31N	11W	34	1	2					16	7	_
SJ 01533	31N	11W		1	4					58	40	1
SJ 02167	31N	11W	34	1	4					83	69	1
SJ 01251	31N	11W		1	4					79	65	1
SJ 03211	31N	11W		1	4	1				24	14	1
SJ 01125	31N	11W		1	4	2				59	42	1
SJ 00632	31N	11W		2						25	7	1
SJ 01656	31N	11W		2						20	6	1
SJ 00656	31N	11W	34	2						30	8	2

			_				0.0	_	-
SJ 01657	31N	11W 34	2				20	6	1
SJ 01675	31N	11W 34	2				33	7	2
SJ 00631	31N	11W 34	2				30	11	1
SJ 01618	31N	11W 34	2				28	8	2
SJ 03448	31N	11W 34	2				41	21	2
SJ 01267	31N	11W 34		1			65	45	2
SJ 03316	31N	11W 34	2	1 1			30	10	2
SJ 00660	31N	11W 34	2	1 1			50	30	2
SJ 01840	31N	11W 34	2	1 1			65	25	Ž
SJ 01721	31N	11W 34	2	2			22	10	1
SJ 01768	31N	11W 34	2	2			20	<u></u> 6	1
SJ 03172	31N	11W 34	2	2 2			19	7	1
SJ 03047	31N	11W 34	2	2 4			19	6	1
SJ 02119	31N	11W 34		3			11	3	
SJ 00659	31N	11W 34		3			33	11	2
SJ 02113	31N	11W 34		3			12	4	
SJ 00661	31N	11W 34		3 1			52	32	2
SJ 02972	31N	11W 34		3 4			15	5	1
SJ 03107	31N	11W 34		4 1			18	8	1
SJ 03106	31N	11W 34		4 1			25	_	-
SJ 03183	31N	11W 34	2	4 4			19	6	1
SJ 03780 POD1	31N	11W 34		1 2	267922	2130341	28	12	1
SJ 02859	31N	11W 34		1 4	20,522	2100011	22	6	1
SJ 02856	31N	11W 34		2 3			24	6	1
SJ 02852	31N	11W 34		2 3			23	7	1
SJ 03025	31N	11W 34		2 3			22	5	1
SJ 03065	31N	11W 34		2 3		,	22	7	1
SJ 02967	31N	11W 34		2 3			20	5	1
SJ 03014	31N	11W 34		2 4			30	5	2
SJ 03002	31N	11W 34		2 4			22	5	2
	31N	11W 34 11W 34		3 1			21	7	1
SJ 02861	31N	11W 34		3 1			20	6	1
SJ 03220		11W 34					20	4	1
SJ 03710 POD1	31N						23	6	1
SJ 03042	31N	11W 34	3				21	4	1
SJ 03048	31N	11W 34		3 4			23	6	1
SJ 02857	31N	11W 34		4 1				O	7
SJ 03492	31N	11W 34	3	4 2			30	6	1
SJ 03357	31N	11W 34	3	4 2			22 27	6	1
SJ 03631	31N	11W 34	3	4 2				6	2
SJ 03493	31N	11W 34	3	4 2			25	. 15	1
SJ 03609	31N	11W 34	3				27	6	2
SJ 03260	31N	11W 34		4 4			41	3	3 3
SJ 01608	31N	11W 34	4				48	17	
SJ 03720 POD1	31N	11W 34		1 3			21	6	1
SJ 03402	31N	11W 34		1 4			25	1.0	_
SJ 03497	31N	11W 34		1 4			30	10	2
SJ 03377	31N	11W 34		2 4			20	2	1
SJ 03739 POD1	31N	11W 34		3 1			25	3	2
SJ 03016	31N	11W 34		3 1			35	~ ~	-
SJ 02966	31N	11W 34		3 3			48	20	2
SJ 00985	31N	11W 34	4	4			40	16	2

Record Count: 79

New Mexico Office of the State Engineer POD Reports and Downloads

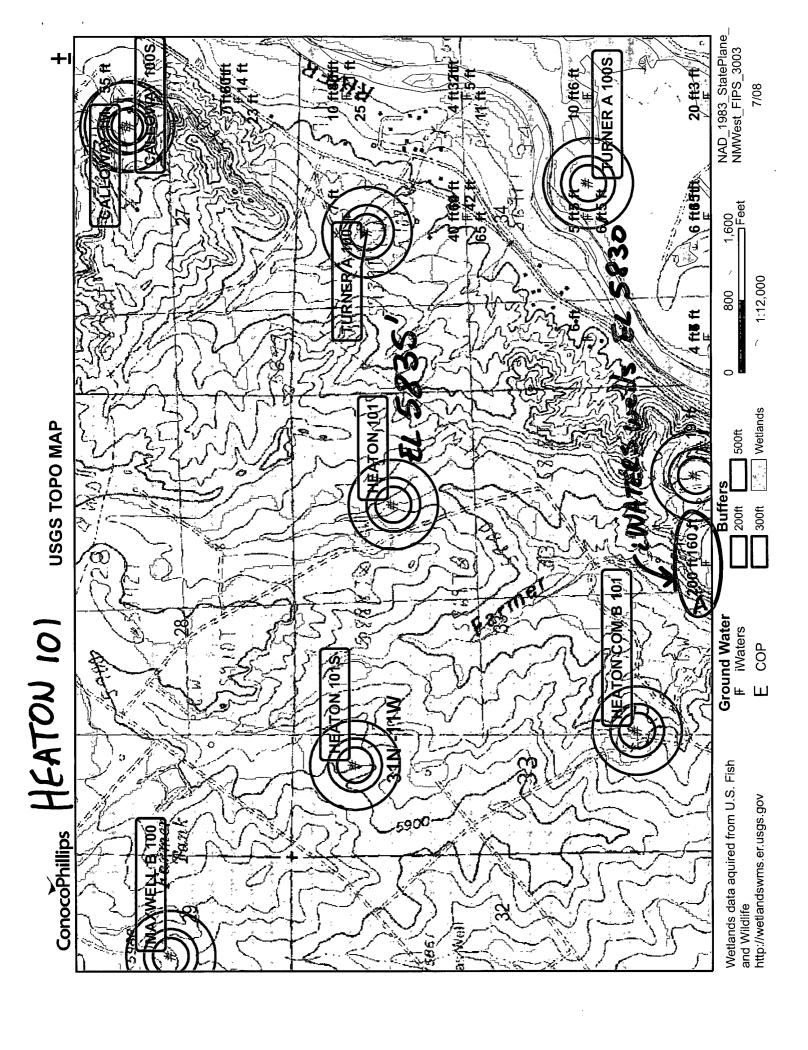
Township: 30N Range:	11W Sections: 3,4,5	what is sure of the second sec								
NAD27 X: Y:	Zone:	Search Radius:								
County: Basin:		Number: Suffix:								
Owner Name: (First)	(Last)	C Non-Domestic C Domestic								
POD / Surface Data Report Avg Depth to Water Report										
Water Column Report										
Cléar Fo	iWATERS Menu	Help								

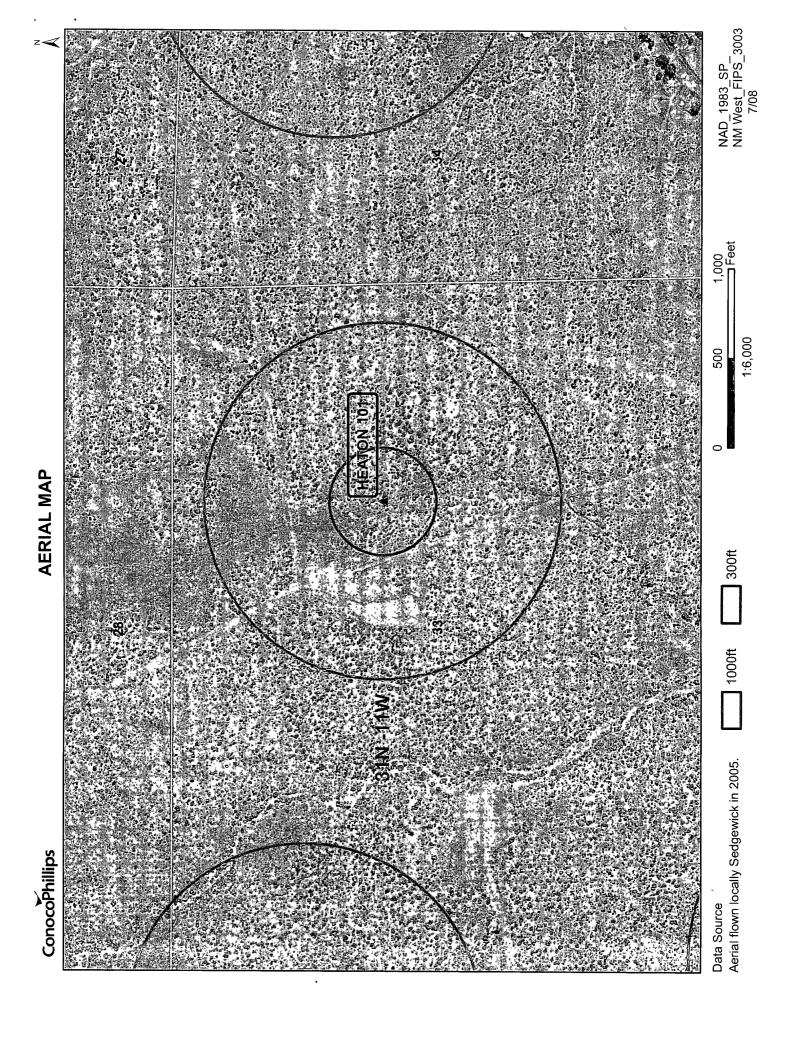
WATER COLUMN REPORT 07/25/2008

(qu	arter	s are	e 1=1	W	2=	=NE	3=SW 4	=SE)					
(qu	arter	s are	e big	gge	st	t to	small	est)			Depth	Depth	Wat€
POD Number	Tws	Rng	Sec	q	q	q	Zone		X	Y	Well	Water	Colum
SJ 01437	30N	11W	03	1							40	28	1
SJ 03121	30N	11W	03	1	2	4				`	36	12	2
SJ 02049	30N	11W	03	1	3						26	8	1
SJ 01339	30N	11W	03	1	3	1					40	15	2
SJ 02835	30N	11W	03	1	3	2					26	8	1
SJ 00350	30N	11W	03	1	3	2					46	12	3
SJ 02814	30N	11W	03	1	3	2					31	8	2
SJ 01441	30N	11W	03	1	3	2					48	20	2
SJ 01387	30N	11W	03	1	4						40	18	2
SJ 03698 POD1	30N	11W	03	1	4	1					40	5	3
SJ 02785	30N	11W	03	1	4	2					31	5	2
SJ 01805	30N	11W	03	2							35	20	1
SJ 01313	30N	11W	03	2							70	58	1
SJ 01807	30N	11W	03	2	_						50	30	2
SJ 02781	30N	11W	03		1	2					48	23	2
SJ 01202	30N	11W	03	2	1	2			_		35	8	2
SJ 03758 POD1	30N	11W	03	2	1	2		26815		2127473	49	21	2
SJ 03765 POD1	30N	11W	03	2	1	2		26816		2127605	43	20	2
SJ 03756 POD1	30N	11W	03	2	1	2		26817	9	2127870	41	20	2
SJ 02786	30N	11W	03	2	3	1					51	24	2
SJ 01901	30N	11W	03	2	3	2					60	26	3
SJ 00698	30N	11W	03	2	3	3					44	14	3
SJ 01261	30N	11W	03	2	3	4						20	
SJ 02930	30N	11W	03	2	4	4					81	64	1
SJ 02798	30N	11W	03	2	4	4					80	61	1
SJ 00402	30N	11W	03	3							32	18	1
SJ 00762	30N	11W	03	3	2						47	22	2
SJ 01734	30N	11W	03	3	2						33	5	2

SJ 01440	30N	11W 03	3	2	3				41	21	2
SJ 01020	30N	11W 03	3	3					27	5	2
SJ 03242	30N	11W 03	3	3	1				23	9	1
SJ 03732 POD1	30N	11W 03	3	3	1				38	9	2
SJ 03239	30N	11W 03	3	3	3				33	12	2
SJ 01238	30N	11W 03	4	1					95	38	E,
SJ 02245	30N	11W 03	4	1	3				66	30	3
SJ 01043	30N	11W 03	4	1	4				50		
SJ 01249	30N	11W 03	4	2					52	22	3
SJ 02824	30N	11W 03	4	2	1				70	50	2
SJ_02563	30N	11W 03	4	2	1				96	60	3
SJ 03153	30N	11W 03	4	2	1				80	60	2
SJ 03454	30N	11W 03	4	2	4				100		
SJ 03291	30N	11W 03	4	3	2				38	18	2
SJ 00366	30N	11W 03	4	4	4				33	18	1
SJ 01364	30N	11W 04	2						115	86	Ź
SJ 03076	30N	11W 04	2	2	3				44	10	3
SJ 02903	30N	11W 04	2	3	2				49	31	1
SJ 03039	30N	11W 04	4	1	2				53	40	1
SJ 01450	30N	11W 04	4	3					45	20	2
SJ 02941	30N	11W 04	4	3	2				58	37	2
SJ 01367	30N	11W 04	4	4	1				48	20	2
SJ 03407	30N	11W 04	4	4	4	M	453700	2124100	30	5	2
SJ 03267	30N	11W 05	2	1	3				83	60	2

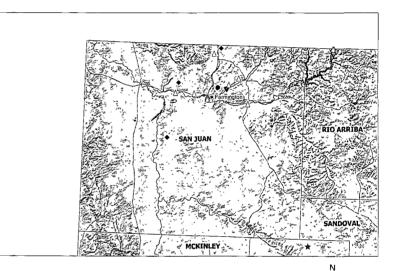
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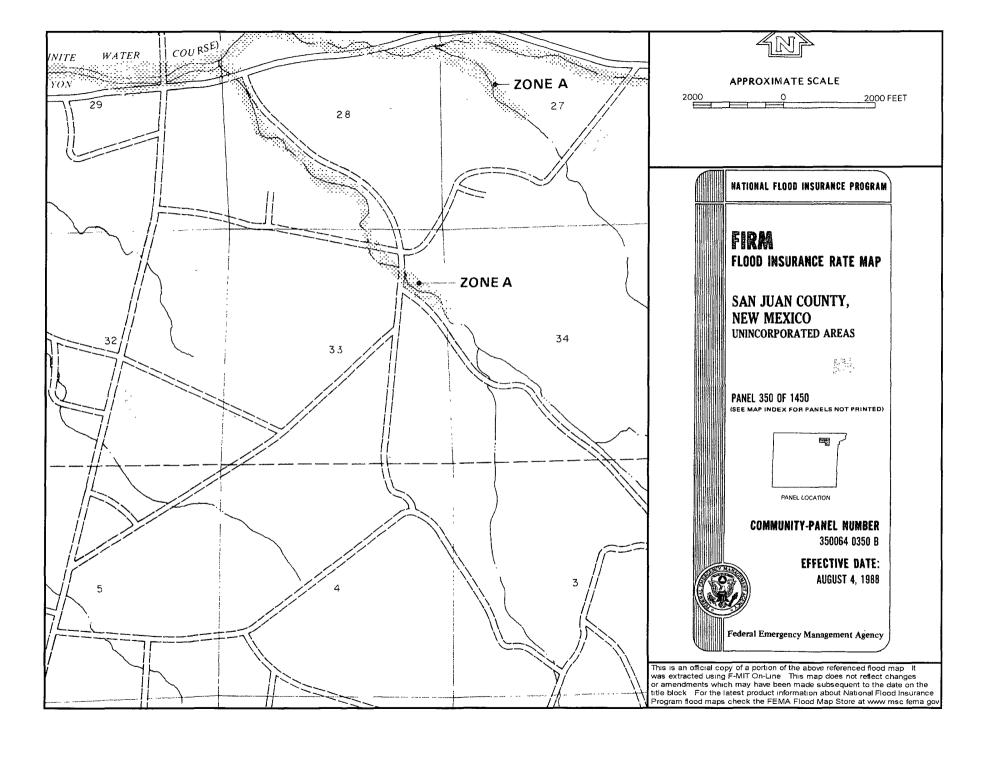
Heaton #101 Mines, Mills and Quarries Web Map

Mines, Mil	ls & Quarries Commodity Groups
Δ	Aggregate & Stone Mines
•	Coal Mines
*	Industrial Minerals Mines
•	Industrial Minerals Mills
	Metal Mines and Mill Concentrate
9 7	Potash Mines & Refineries
	Smelters & Refinery Ops.
*	Uranium Mines
•	Uranium Mills









Siting Criteria Compliance Demonstrations

The Heaton #101 is not located in an unstable area. The location is not over a mine and is not on the side of a hill. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse.

Hydrogeological Report for Heaton #101

Regional Geological context:

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

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

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

Hydraulic Properties:

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

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

References:

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

552, 101 p.

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

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

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

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

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

Tafoya, Crystal

From:

Tafoya, Crystal

Sent: To: Monday, July 28, 2008 9:54 AM 'mark_kelly@nm.blm.gov'

Subject:

Surface Notification

The following temporary pits will be closed on-site. The new OCD Pit Rule 17 requires the surface owner to be notified. Please feel free to contact me at any time if you have any questions. Thank you!

Heaton #101 Heaton #101S

Thanks,

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

Email: Crystal.Tafoya@conocophillips.com

DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 88240 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102 Revised October 12, 2005

DISTRICT II

1301 W. Grand Avenue, Artesia, N.M. 88210

Submit to Appropriate District Office

DISTRICT III

State Lease - 4 Copies

1000 Rio Brazos Rd., Aztec, N.M. 87410

Fee Lease - 3 Copies

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, N.M. 87606

☐ AMENDED REPORT

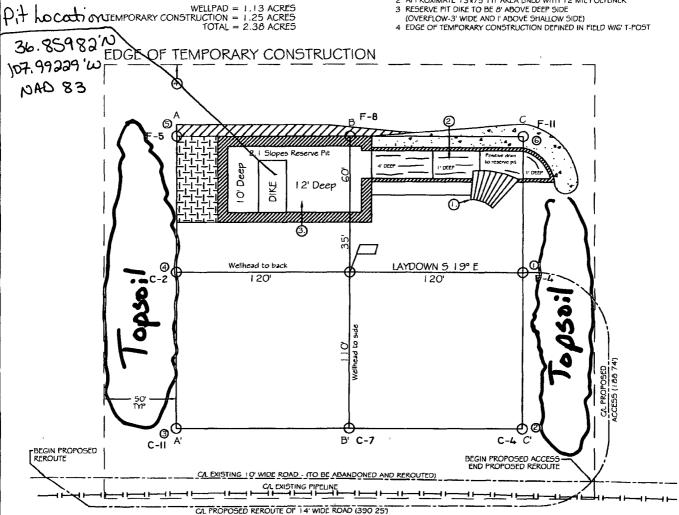
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*Operator Name *Operator Name *CONOCOPHILLIPS *Elevation 5835													
					···		Location						
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CONOCOPHILLIPS

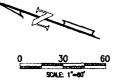
HEATON 101 - 1157' FNL \$ 1421' FEL SECTION 33, T-31-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, N.M. GROUND ELEVATION: 5835 - DATE: DECEMBER 06, 2007

PAD CONST SPECS

- I RAMP INTO PIT CONSTRUCTED FROM PAD GRADE INTO FLARE AREA AT 5% SLOPE
- APPROXIMATE 13'x75' PIT AREA LINED WITH 12 MIL POLYLINER
- 3 RESERVE PIT DIKE TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND I' ABOVE SHALLOW SIDE)



LATITUDE: 36°51.5750' N LONGITUDE: 107°59 5068' W NAD 27



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

SURVEYED: 1	2/06/07	REV. DATE: 01/0	B/08 AP	PP. BY M.W.L.	
DRAWN BY: A	LD.	DATE DRAWN: 12/	12/07 FIL	E NAME: 8140L0	3



P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505)334-0408

CONOCOPHILLIPS

HEATON 101 - 1157' FNL \$ 1421' FEL SECTION 33, T-31-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, N.M. GROUND ELEVATION: 5835 - DATE: DECEMBER 06, 2007

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I'' = 60' - HORIZONTALI'' = 30' - VERTICAL

NOTES:

5810

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

2.) UNITED FIELD SERVICES, INC 15 NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

-	SURVEYED:	12/06/07	REV. DATE: 12/17/07	APP. BY M.W.L.
	DRAWN BY:	A.D.	DATE DRAWN: 12/12/07	FILE NAME: 8140C02



P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505)334-0408

ConocoPhillips Company San Juan Basin Pit Design and Construction Plan

In accordance with Rule 19.15.17 the following information describes the design and construction of temporary pits on ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

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.
- 9. Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.
- 10. All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. COPC will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. COPC will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. COPC will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 13. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into lined drill pit.
- 16. The lower half of the blow pit (nearest lined pit) will be lined with the same 20 mil liner. The upper half of the blow pit will remain unlined as allowed in Rule 19.15.17.11 F.11.
- 17. COPC will not allow freestanding liquids to remain on the unlined portion of a temporary blow pit.

ConocoPhillips Company San Juan Basin Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of temporary pits on ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

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	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

40 percent

Percent PLS

20 percent

Percent PLS

20 percent

Percent PLS

50 percent

Percent PLS

50 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.

ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

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

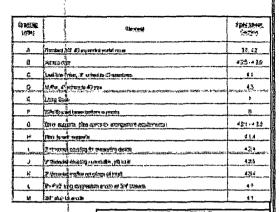
General Plan;

- 1. COPC will design and construct a BGT to contain liquids and to prevent contamination of fresh water and protect public health and environment.
- 2. COPC will use the general location sign posted on location. If no general sign is posted a separate sign at the location of the BGT will be provided.
- 3. COPC shall construct fencing around the BGT using 4 foot hog wire fencing topped with two strands of barbed wire, or with a pipe top rail. A six foot chain link fence topped with three strands of barbed wire will be use if the well location is within 1000 feet of permanent residence, school, hospital, institution or church.
- 4. COPC will construct a expanded metal covering on the top of the BGT
- 5. COPC shall ensure that a below-grade tank is constructed of materials resistant to the below-grade tank's particular contents and resistant to damage from sunlight.
- The COPC below-grade tank system shall have a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom.
- 7. COPC shall construct a below-grade tank to prevent overflow and the collection of surface water run-on.
- 8. COPC will construct and use a below-grade tank that does not have double walls. The below-grade tank's side walls will be open for visual inspection for leaks, the below-grade tank's bottom is elevated a minimum of six inches above the underlying ground surface and the below-grade tank is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.
- COPC shall equip below-grade tanks designed in this manner with a properly operating automatic high-level shut-off control device and manual controls to prevent overflows.
- 10. The geomembrane liner shall consist of 30-mil flexible PVC or 60-mil HDPE liner, or an equivalent liner material that the appropriate division district office approves. The geomembrane liner shall have a hydraulic conductivity no greater

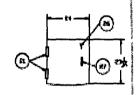
than 1 x 10-9 cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 method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

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





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ConocoPhillips Company San Juan Basin Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of Below Grade Pit (BGT) on ConocoPhillips Company locations hereinafter known as COPC locations. This is COPC's standard procedure for all BGT. A separate plan will be submitted for any BGT which does not conform to this plan.

General Plan:

- 1. COPC will operate and maintain a BGT to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. COPC shall not allow a below-grade tank to overflow or allow surface water runon to enter the below-grade tank.
- 3. COPC shall continuously remove any visible or measurable layer of oil from the fluid surface of a below-grade tank in an effort to prevent significant accumulation of oil overtime.
- 4. COPC shall inspect the below-grade tank at least monthly and maintain a written record of each inspection for five years.
- 5. COPC shall maintain adequate freeboard to prevent overtopping of the below-grade tank.

ConocoPhillips Company San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of Below Grade Tanks (BGTs) on ConocoPhillips Company locations hereinafter known as COPC locations. This is COPC's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

General Requirements:

- 1. COPC shall close a below-grade tank within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the division requires because of imminent danger to fresh water, public health or the environment.
- 2. COPC shall close an existing below-grade tank that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC.
- COPC shall close a permitted below-grade tank within 60 days of cessation of the below-grade tank's operation or as required by the transitional provisions of Subsection B of 19.15.17.17 NMAC in accordance with a closure plan that the appropriate division district office approves. The closure report will be filed on C-144
- COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility.
- 5. COPC shall remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.
- If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.
- 7. COPC shall test the soils beneath the below-grade tank to determine whether a release has occurred. COPC shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for BTEX, TPH and chlorides to demonstrate that the benzene concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 0.2 mg/kg; total BTEX concentration, as determined by EPA SW-846 methods 8021B or 8260B or other EPA method that the division approves, does not exceed 50 mg/kg; the TPH concentration, as determined by EPA method 418.1 or other EPA method that the division approves, does not exceed 100

mg/kg; and the chloride concentration, as determined by EPA method 300.1 or other EPA method that the division approves, does not exceed 250 mg/kg, or the background concentration, whichever is greater. COPC shall notify the division of its results on form C-141.

- 8. If COPC or the division determines that a release has occurred, then COPC shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.
- 9. If contamination is confirmed by field sampling. COPC will follow the Guidelines For Remediation Of Leaks, Spills, and Releases NMOCD August 1993 when remediating contaminants identified
- 10. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Paragraph (4) of Subsection E of 19.15.17.13 NMAC, then COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.
- 11. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 12. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Details on Capping and Covering, where applicable.
 - Inspection Reports
 - Sampling Results
- 13. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
- 14. COPC shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

- 15. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.
- 16. The surface owner shall be notified of COPC's closing of the below-grade tank as per the approved closure plan using certified mail, return receipt requested.