# • 1 strict 1 = 1625 N French Dr , Hobbs, NM 88240

State of New Mexico Energy Minerals and Natural Resources Form C-144 July 21, 2008

District II
1301 W Grand Ave , Artesia, NM 88210
District III
1000 Rio Brazos Rd , Aztec, NM 87410

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

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

1220	S St	Francis	Dr.,	Santa	Fe,	NM	87505
	7	7	<	_			

District IV

### Pit, Closed-Loop System, Below-Grade Tank, or Proposed 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 water, ground water or the environment. Not does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

Operator: ConocoPhillips Company	OGRID#: <b>217817</b>
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: Hamner 9S	
API Number: 30-045-34497	OCD Permit Number:
U/L or Qtr/Qtr: P(SESE) Section: 20 Township: 29N	Range: 9W County: San Juan
Center of Proposed Design: Latitude: 36.704389' N	Longitude: 107.796724' W NAD: 1927 X 1983
Surface Owner: X Federal State Private 1	ribal Trust or Indian Allotment
X Pit: Subsection F or G of 19.15.17.11 NMAC     Temporary:   X Drilling   Workover     Permanent   Emergency   Cavitation   P&A     X Lined   Unlined   Liner type: Thickness   20   mit     X String-Reinforced	X LLDPE HDPE PVC Other
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	Other
	er, 6-inch lift and automatic overflow shut-off 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.

Fencing: Subsection D of 19.15.17 11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, inst.  Four foot height, four strands of barbed wire evenly spaced between one and four feet  X Alternate. Please specify  4' hogwire fence with a single strand of barbed wire on top.  Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Scieen Netting Other	utution or chur	rch)
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 consideration of approval.	ideration of ap	proval.
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.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	XNo
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	□NA	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applied to permanent pits)  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes XNA	∐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.	1	
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	Yes	XNo
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	XNo
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes	X No
Society; Topographic map  Within a 100-year floodplain  - FEMA map	Yes	XNo

Form C-144 Oil Conservation Division Page 2 of 5

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
X   Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
X   Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X   Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17.12 NMAC   X   Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of
X Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17.9 NMAC and 19.15.17 13 NMAC
Previously Approved Design (attach copy of design)  API or Permit
12
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15.17.9
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15 17.10 NMAC
Design Plan - based upon the appropriate requirements of 19 15.17.11 NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17 12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9
NMAC and 19 15.17 13 NMAC
Previously Approved Design (attach copy of design)  API
Previously Approved Operating and Maintenance Plan API
13
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19 15.17.9 NMAC
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19 15.17 11 NMAC  Dike Protection and Structural Integrity Design: based upon the appropriate requirements of 19.15.17.11 NMAC
Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
Quality Control/Quality Assurance Construction and Installation Plan
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17 12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15.17.11 NMAC
Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan
Oil Field Waste Stream Characterization
Monitoring and Inspection Plan
Erosion Control Plan
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15 17.9 NMAC and 19.15 17.13 NMAC
Proposed Closure: 19 15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type. X Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System
Alternative   Proposed Closure Method:
Waste Excavation and Kelnoval  Waste Excavation and Kelnoval  Waste Excavation and Kelnoval  Waste Excavation and Kelnoval
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
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

Form C-144 Oil Conscivation Division Page 3 of 5

16  Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Stee Instructions Please identify the facility or facilities for the disposal of liquids, drilling	el Tanks or Haul-off Bins Only: (19 15 17.13 D NMAC) fluds and drill cuttings. Use attachment if more than two fa	cilities
are required .  Disposal Facility Name.	Disposal Facility Permit #	
Disposal Facility Name.	Disposal Facility Permit #.	1
Will any of the proposed closed-loop system operations and associated activitie  Yes (If yes, please provide the information No		
Required for unpacted areas which will not be used for future service and operations:  Soil Backfill and Cover Design Specification - based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Plan - based upon the appropriate requirements.	etion I of 19.15.17.13 NMAC	;
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. I certain siting criteria may require administrative approval from the appropriate district office for consideration of approval Justifications and/or demonstrations of equivalency are require	Recommendations of acceptable source material are provided belov or 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 obta	uned 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 - 1WATERS database search; USGS; Data obta		□ 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 - iWATERS database search; USGS; Data obta	ned from nearby wells	□ N/A □
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signific (measured from the ordinary high-water mark).	cant watercourse or lakebed, sinkhole, or playa lake	Yes X No
- Topographic map, Visual inspection (certification) of the proposed site		
Within 300 feet from a permanent residence, school, hospital, institution, or church in  - Visual inspection (certification) of the proposed site, Aerial photo; satellite image	**	Yes X No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less that purposes, or within 1000 horizontal fee of any other fresh water well or spring, in exist - NM Office of the State Engineer - iWATERS database, Visual inspection (certific Within incorporated municipal boundaries or within a defined municipal fresh water w	ence at the time of the initial application. cation) of the proposed site	Yes XNo
pursuant to NMSA 1978, Section 3-27-3, as amended.	nunad from the municipality	
<ul> <li>Written confirmation or verification from the municipality; Written approval obtivition 500 feet of a wetland</li> <li>US Fish and Wildlife Wetland Identification map, Topographic map; Visual insp</li> </ul>	. ,	Yes X No
Within the area overlying a subsurface mine.		Yes X No
- Written confiramtion or verification or map from the NM EMNRD-Mining and N	Ameral Division	
Within an unstable area.  - Engineering measures incorporated into the design, NM Bureau of Geology & M Topographic map	neral Resources; USGS, NM Geological Society;	Yes X No
Within a 100-year floodplain - FEMA map	,	Yes X No
On-Site Closure Plan Checklist: (19.15.17 13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached.	of the following items must bee attached to the closure	e plan. Please indicate,
X Siting Criteria Compliance Demonstrations - based upon the appropriate	e requirements of 19.15 17.10 NMAC	
X Proof of Surface Owner Notice - based upon the appropriate requirement	nts of Subsection F of 19.15.17.13 NMAC	
Construction/Design Plan of Burial Trench (if applicable) based upon the	ne appropriate requirements of 19.15.17.11 NMAC	
Construction/Design Plan of Temporary Pit (for in place burial of a dryi		0.15.17.11 NMAC
X   Protocols and Procedures - based upon the appropriate requirements of		•
Confirmation Sampling Plan (if applicable) - based upon the appropriate	•	
<ul> <li>Waste Material Sampling Plan - based upon the appropriate requiremen</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids a</li> </ul>		anot he achieved)
<ul> <li>Soil Cover Design - based upon the appropriate requirements of Subsec</li> </ul>	•	mot be demertuj
X   Re-vegetation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements of Subset   X   Site Reclamation Plan - based upon the appropriate requirements   X   Site Reclamation Plan - based upon the appropriate requirements   X   Site Reclamation Plan - based upon the appropriate requirements   X   Site Reclamation Plan - based upon the appropriate requirements   X   Site Reclamation Plan - based upon the appropriate requirements   X   Site Reclamation Plan - based upon the appropriate requirements   X   Site Reclamation Plan - based upon the appropriate requirements   X   Site Reclamation Plan - based upon the appropriate requirements   X   Site Reclamation Plan - based upon the appropriate requirements   X   Site Reclamation Plan - based upon the appropriate requirements   X   Site Reclamation Plan - based upon the appropriate requirements   X   Site Reclamation Plan - based upon the appropriate requirements   X   Sit	ction I of 19.15.17.13 NMAC	

19			•
Operator Application Certific		rata and complete to the	hert of my knowledge and belief
,	n submitted with this application is true, accur	rate and complete to the Title	Regulatory Technician
Name (Print):	Crystal Tafoya		Regulatory recinician
Signature	motal Topoga	Date:	9/29/08
e-mail address: <u>CI</u>	rystal tafoya@conocophijlps com	Telephone	/505-32/6-9837
OCD Approval: Dermit A	Application (including closure plan)	Closure Plan (only)	OCD Conditions (see attachment)
OCD Representative Signatur	re: Brand D- 11		Approval Date: 11-3-08
Title: Emily	nlsper	OCD Perr	nit Number:
	9,3,4		
Instructions. Operators are requir report is required to be submitted		o implementing any closi in of the closure activitie impleted.	Cure activities and submitting the closure report. The closure es. Please do not complete this section of the form until an e Completion Date:
22 Classes Mathada			
Closure Method:  Waste Excavation and Rer  If different from approved	<u> </u>	Alternative Closure	Method Waste Removal (Closed-loop systems only)
23			
	e Removal Closure For Closed-loop Systems		round Steel Tanks or Haul-off Bins Only: ings were disposed. Use attachment if more than two facilities
were utilized.	uciny or fucinities for where the requius, with	ing jiulus una uriti culli	ings were aisposed. Ose autonment if more than two factures
Disposal Facility Name:		Disposal Facility	Permit Number:
Disposal Facility Name:		Disposal Facility	Permit Number:
	perations and associated activities performed of	_	of be used for future service and opeartions?
	• -	No	
Required for impacted areas w  Site Reclamation (Photo D	hich will not be used for future service and op locumentation)	erations:	
Soil Backfilling and Cover			
	Rates and Seeding Technique		
24			
	nt Checklist: Instructions: Each of the follo	owing items must be atte	ached to the closure report. Please indicate, by a check mark in
the box, that the documents ar		•	
<u> </u> 2	(surface owner and division)		
<del>     </del>	equired for on-site closure)		
1 🖹	sures and temporary pits)		
1 Ħ ' '	Analytical Results (if applicable)		
Disposal Facility Name	g Analytical Results (if applicable)		
Soil Backfilling and Cov			
	on Rates and Seeding Technique		
Site Reclamation (Photo	• .		
On-site Closure Location		Longitude:	NAD
<u> </u>			
25			
Operator Closure Certification	on:		
	on and attachments submitted with this closure icable closure requirements and conditions spi	•	and complete to the best of my knowledge and belief. I also certify that closure plan.
Name (Print):		Title:	
Signature		Date:	
e-mail address:		Telephone	

Form C-144

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

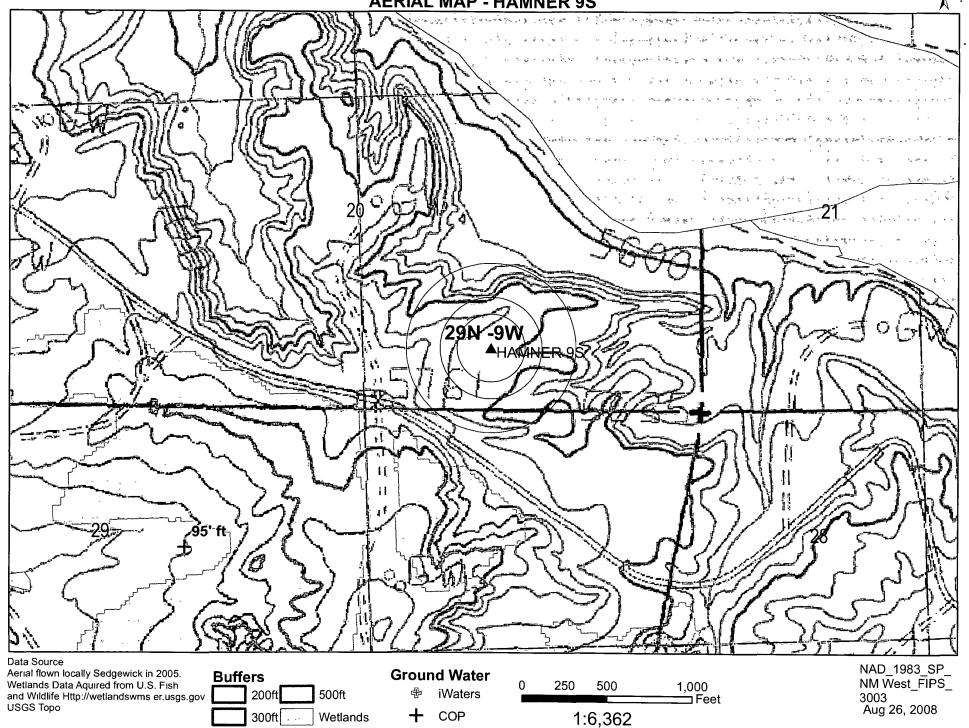
Township:  2	9N Range: 09W	Sections: 16	,17,18,19,20,21,28,29,30	-
NAD27 X:	<b>Y</b> : [	Zone:	Search Radius:	1
County:	Basin:		Number:	Suffix:
Owner Name: (First)	(	(Last)	○ Non-Domestic	○ Domestic
POD	/ Surface Data Rep	ort Av Vater Column Repo	g Depth to Water Report	
	Clear Form	. iWATERS M	enu Help	

#### WATER COLUMN REPORT 09/29/2008

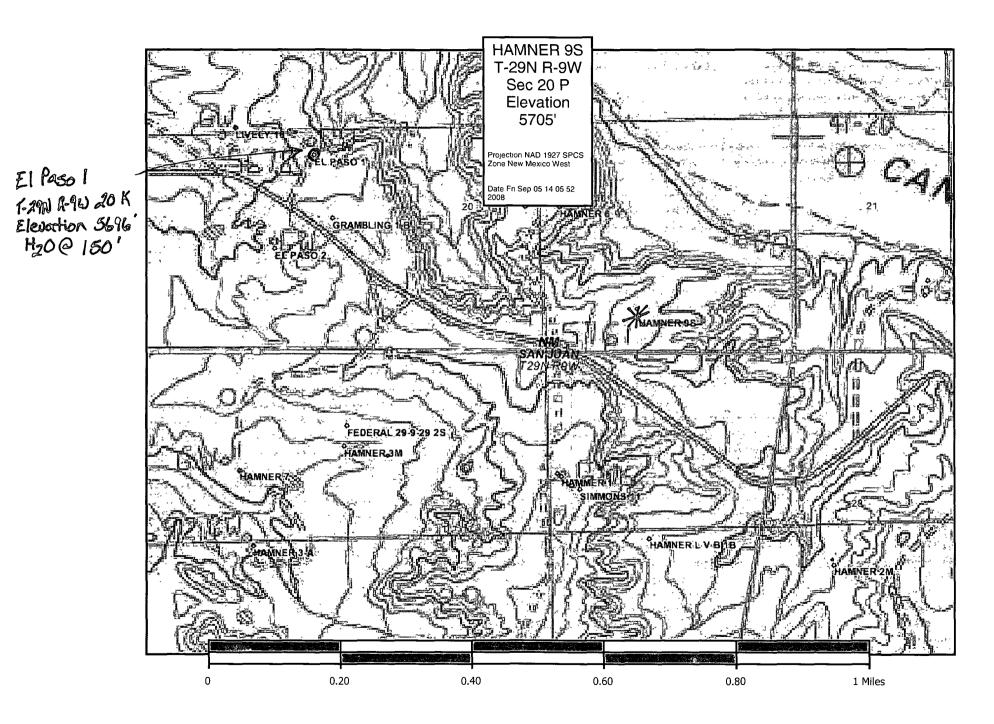
## (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest)

(đư	arter	s are	e big	ge	est	: to	smallest)			Depth	Depth	Wat∈
POD Number	Tws	Rng	Sec	q	đ	<b>q</b>	Zone	x	Y	Well	Water	Colum
SJ 02883	29N	09W	16	2	3	3				123	87	3
SJ 03185	29N	09W	16	3	4	4				220	100	12
SJ 03430	29N	09W	18	2	2	1				21	1	2
SJ 03428	·29N	09W	18	2	2	4				21	5	1
SJ 00097	29N	09W	18	2	4					16	4	1
SJ 00099	29N	09W	18	2	4					16	4	1
SJ 00098	29N	09W	18	2	4					16	4	1
SJ 00101	29N	09W	18	2	4					16	4	1
SJ 00100	29N	09W	18	4	1					16	4	1
SJ 00096	29N	09W	18	4	2					16	4	1
SJ 00095	29N	09W	18	4	2					16	4	1
SJ 02910	29N	09W	18	4	2	1				20		
SJ 00094	29N	09W	18	4	4	2				15		
SJ 00093	29N	09W	18	4	4	4				155		

Record Count: 14



The Map



https://l48twp.conocophillips.net/servlet/com.esri.esrimap?ServiceName=SanJuan&ClientVersion=4.0&Form=True&En... 9/5/2008

30-045-11795 EL-PASO#1
30-045-20916 EL-PASO#Z 30-54

## DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS NORTHWESTERN NEW MEXICO

Operator Mevidian Cil Co. Location: Unit K Sec. 20 Twp 29 Rng 09
Name of Well/Wells or Pipeline Serviced
E/ FR50 "/ ANd " 2
Elevation 5696 Completion Date 2/24/93 Total Depth 335 Land Type F
Casing Strings, Sizes, Types & Depths 2/19 Set 100 Of 8" PVC CASING.
NO GAS, WATER, OF BOULDERS WERE ENCOUNTERED DURING CASING.
If Casing Strings are cemented, show amounts & types used <u>Comented</u>
L'ITH 22 SACKS.
If Cement or Bentonite Plugs have been placed, show depths & amounts used
N/A
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 150' Great
Depths gas encountered: Nuw ?
Ground bed depth with type & amount of coke breeze used: 335 Vsed
42 Sacks of Luresco type SW & 4 Sacks of Asbury work Breeze
Depths anodes placed: 265, 255, 245, 275, 228, 220, 210, 200, 193, 183, 125, 165, 155, 145, 138
Depths vent pipes placed: 335' DECEIVED
Vent pipe perforations: Bottom 200 10 10031 1994
Remarks: OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Ind Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

Form 3160-4 (November 1983) (formerly 9-330)

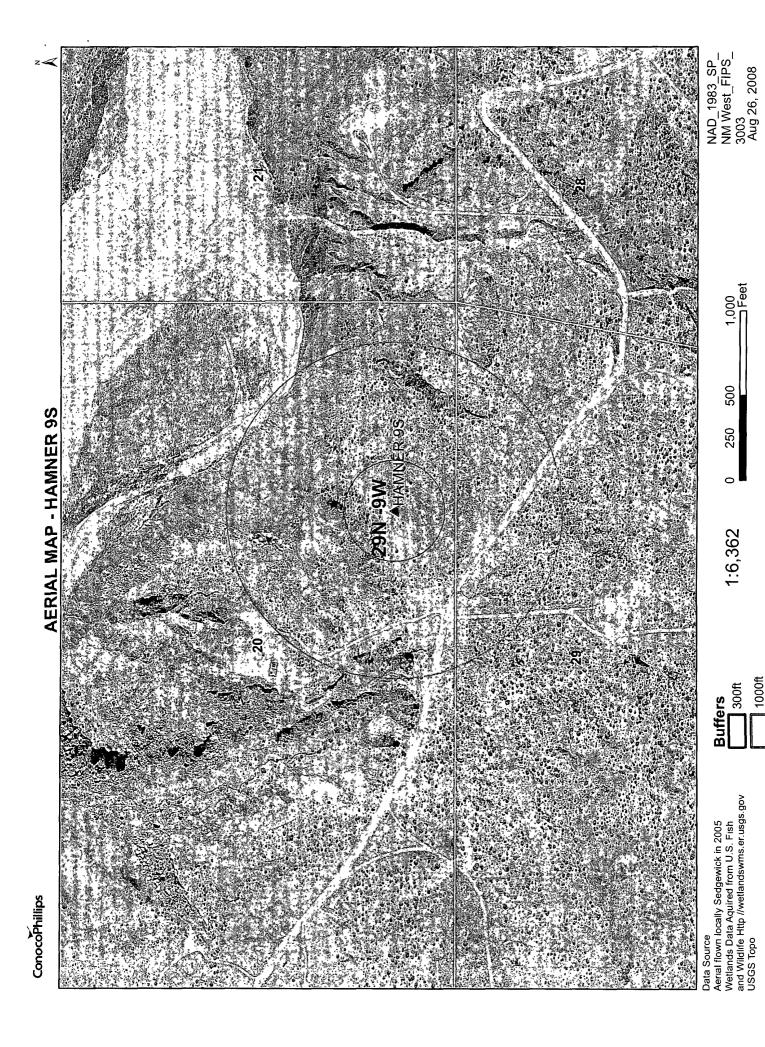
## UNITED STATES

SUBMIT IN DUPLICATE.

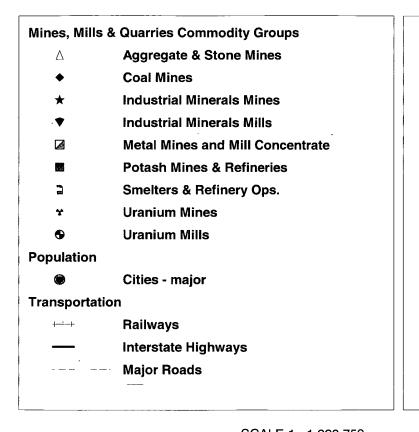
Form approved.
Budget Bureau No. 1004—0137
Expires August 31, 1985

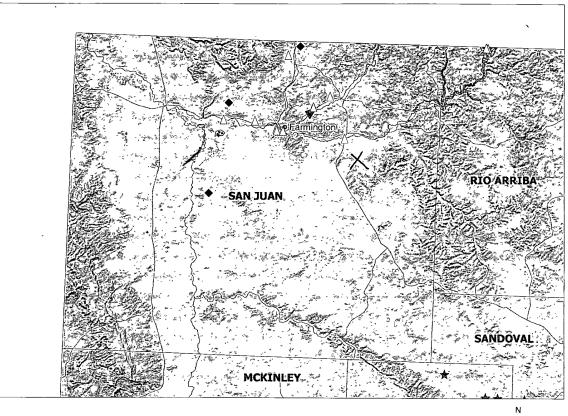
• • • • • • • • • • • • • • • • • • • •			
DEPARTMENT	OF	THE	INTERIOR
BURFALLOF L	AND	MANAG	EMENT

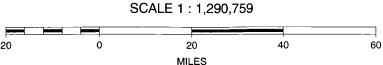
			T OF T			teve	otherin- ctions on rse side)	NM 0560	ATION AND BERIAL
WELL CO.			LAND M						LOTTES OR TRIBS NA
WELL CO	MPLETION			FIION I	KEPORE /	and Fo	<u>G *</u>		
b. TYPE OF COM	W 82		YELL X	DRY	Other			7. PNIT AGREEM	ENT NAME
NEW WELL		EIT-	PIEG X	DIFF. E	Other			N FARM OR LEA	BE NAME
2. NAME OF OPERAT								El Pas	0
	n Oil Inc	· .			DEC	SIVE	TU	9. WELL NO.	<u> </u>
3. ADDRESS OF OPER PO BOX 4		ningto	n. NM	87499				10 PIRID AND R	OOL, OR WILDCAT
4. LOCATION OF WE	LL (Report locati	on clearly o	nd in accord		v State Melis	म्मक्ता <u>य</u> ण[]			uitland Co
At surface		)'s, 1							OR BLOCK AND BUR
At top prod. int		•			<b>—</b> —	DN. DIV	J.		20 17 70 2
At total depth					DI	ST 7		NMPM	-29-N,R-C-
			14	. PERMIT NO.		ATE ISSUED		12. COUNTY OR	13. STATE
								San Juan	NM
5. DATE SPUDDED	16. DATE TD.	1	7. DATE COM		o prod.) 18.	5696 1		T. GE. ETC.)* 1	D. ELEV. CASINGEBAT
09-13-66	09-20-6		. ND & TVD		TIPLE COMPL.		ERVALS	ROTARY TOOLS	CABLE TOOLS
4750'	34			HOW 11			LLED BY	ves	1
1. PRODUCING INTER				OM, NAME ()	O ( GVT GKA GP			100	25. WAS DIRECTION SURVEY MADE
1962-209	0' (Frui	tland	Coal)					}	no
S. TYPE ELECTRIC A	ND OTHER LOGS	BUN	<del></del>	····				1 27	. WAS WELL COMED
								-	no
ι.					ort all strings				
9 5/8"	32.3#	/FT. DE	201		LE SIZE		DKITKE	RECORD	AMOUNT PULLE
7"	20.0#		2313'		3/4"	130 s 125 225 s	SX SX	<del></del>	_
	20.0#		2313	-		163			
								T-1	
9.		LINER RE				30.		CUBING RECORD	
		POTTOM (	MD) SACK	B CEMBAT*	SCREEN (ME			2074	PACKER SET (M
4 1 / 2 <sup>11</sup>	2242 t	4750		265		2 3	/X"l	/11/4	1
4 1/2"	2242 t	4750		265		2 3,	/8"	2074	_
4 1/2"	2242	se and num	iber)		82.			URE, CEMENT S	QUEEZR, ETC.
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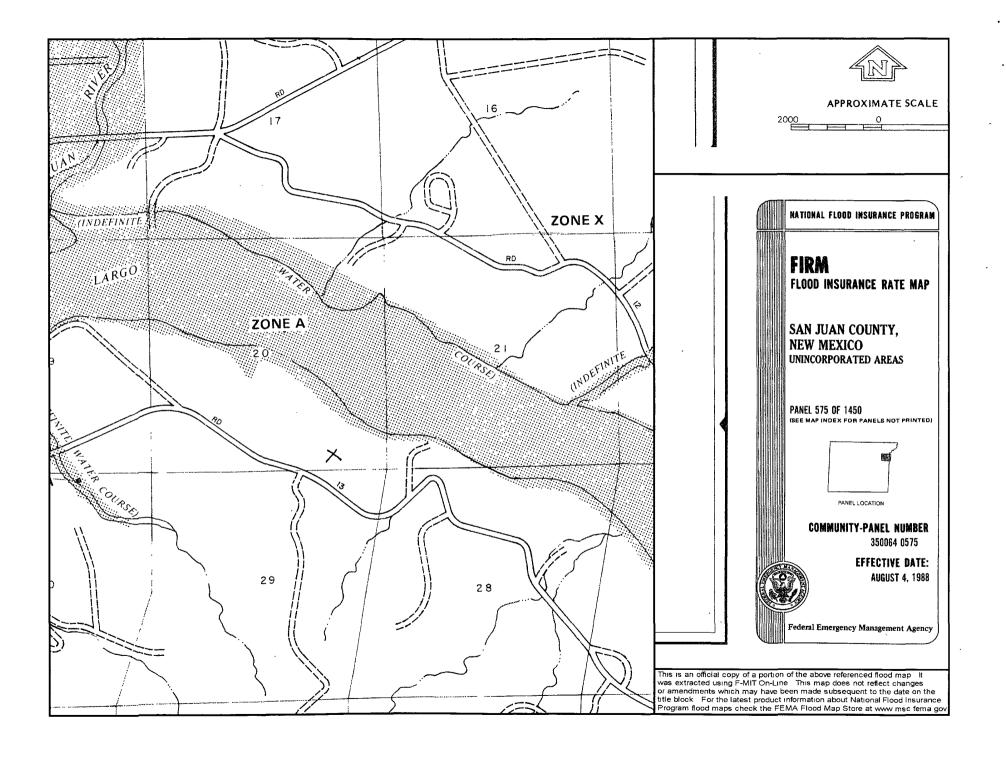
# Hamner 9S Mines, Mills and Quarries Web Map











#### Hydrogeological Report for Hamner 9S

#### **Regional Geological context:**

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

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

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

#### **Hydraulic Properties:**

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

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

#### **References:**

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

552, 101 p.

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

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

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

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

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

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

The Hamner 9S 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 groundwater depth is considered to be greater than 100' as determined by the topographic map and the Cathodic well data from the El Paso 1 with an elevation of 5696' and groundwater depth of 150'. The subject well has an elevation of 5705' which is greater than the El Paso 1, therefore the groundwater depth is greater than 100'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The Cathodic data provided the indication of groundwater depth and the Nacimiento formation will create a stable area for this new location.

#### Tafoya, Crystal

From:

Tafoya, Crystal

Sent:

Thursday, July 10, 2008 8:16 AM

To:

'mark\_kelly@nm.blm.gov'

Subject:

OCD Pit Closure Notification

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

Allison Unit 2B

Allison Unit 40N

Angel Peak B 27E

Ballard 11F

Cain 725S

Canyon Largo Unit 250N

Canyon Largo Unit 279E

Canyon Largo Unit 288E

Canyon largo Unit 297E

Canyon Largo Unit 465E

Carson SRC 4E

Day B 4P

Day B 5A

East 17S

**EPNG A 1B** 

**EPNG B 1M** 

Federal A 1E

Filan 5M

Filan 5N

Fogelson 4 100

Fogelson 4 100S

Grambling C 202S

Hagood 19

\*Hamner 95"

Hardie 4P

**Hare 295** 

Heaton Com 100

Helms Federal 1G

Howell 12

Huerfanito Unit 103F

**Huerfanito Unit 29S** 

**Huerfanito Unit 39S** 

**Huerfanito Unit 47S** 

Huerfanito Unit 50E

Huerfanito Unit 75E

Huerfanito Unit 83E

Huerfanito Unit 87E Huerfanito Unit 90E

i dellamo omi ool

Huerfanito Unit 90M

Huerfanito Unit 98S Huerfano Unit 108F

Huerfano Unit 282E

Huerfano unit 305

Huerfano unit 307

Huerfano Unit 554

Johnston Federal 24S

NSL-YPS Q/G-OK

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240 DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 88210 1000 Rio Brazos Rd., Aztec, N.M. 87410 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, N.M. 87505

S 89°41'34" W

State of New Mexico

Energy, Minerels & Natural Resources Department Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

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

NOV 062007

Fee Lease - 3 Copies

Bureau of Land Managemen AMENDED REPORT Farmington Field Office

		·	METT T	OCATIO	N AND A	CREAGE DED	ICATION P	JAT .	
30-045-	Number	149-	71	Pool Code		DAG	Pool Nam		AI.
Property Code 3/806 TOGRID NO.				*Property Name HAMNER *Operator Name			AND COA	• Well Number • 9S • Elevation	
14538 Z	17811	<u> </u>			CONOCOPI				5707
UL or lot no.	Section	Township	Range	Lot Idn	Surface Feet from the	Location North/South line	Feet from the	East/West b	ine County
P	20	29 N	9 W		310	SOUTH	1222	EAST	
11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fost from the	East/West li	ne County
320 (E/2	- 1	or Infili	Consolidation	Code 150	rder No.		J		
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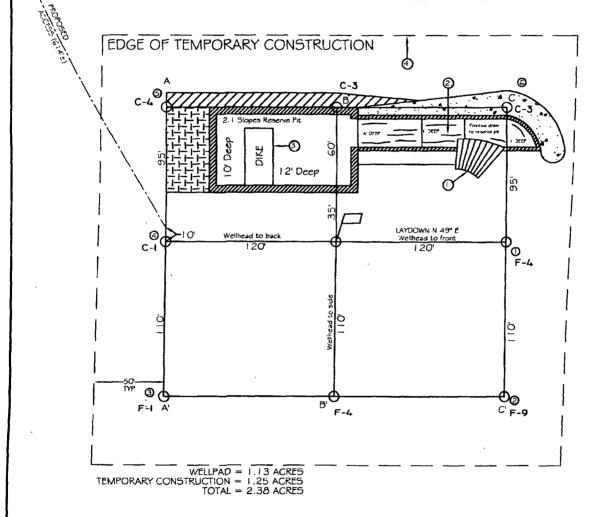
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## **CONOCOPHILLIPS**

HAMNER 95 - 310' FSL & 1222' FEL
SECTION 20, T-29-N, R-9-W, N.M.P.M., SAN JUAN COUNTY, N.M.
GROUND ELEVATION: 5707 - DATE: AUGUST 9, 2007

#### PAD CONST SPECS:

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



LATITUDE: 36°42.2714' N LONGITUDE. 107°47 7599' W NAD 27

0 30 60

NOTES:

- I ) 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: 8/09/07	REV. DATE:	APP. BY M.W.L.
DRAWN BY: H.S.	DATE DRAWN: 8/16/07	FILE NAME: 7679L03
. Care		



P.O. BOX 3851 FARMINGTON, NM 87499 OFFICE: (505)334-0408

# CONOCOPHILLIPS HAMNER 95 - 310' FSL \$ 1222' FEL SECTION 20, T-29-N, R-9-W, N.M.P.M., SAN JUAN COUNTY, N.M. GROUND ELEVATION: 5707 - DATE: AUGUST 9, 2007

**ELEVATION** £ 5720 5710 5700 5690 5680 B-**B'** 5720 5710 5700 5690 5680 . 5720 5710 5700 5690 5680

> I" = 60' - HORIZ. I" = 30' - VERT.

NOTES:

I ) 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 UNDER	RGROUND
LITHITIES OF PIPELINES	

SURVEYED: 8/09/07	REV. DATE:	APP. BY M.W.L.
DRAWN SY: H.S.	DATE DRAWN: 8/18/07	FILE NAME: 7679C03

UNITED FIELD SERVICES INC.

P.O. BOX 3851 FARMINGTON, NM 87499 OFFICE: (505)334-0408

# 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
  - 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

and the second s			$\sim$	
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

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.