#### District I

1625 N French Dr., Hobbs, NM 88240

District II

١.

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

Form C-144 July 21, 2008 For temporary pits, closed-loop sytems, and below-grade

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

tanks, submit to the appropriate NMOCD District Office

#### Pit, Closed-Loop System, Below-Grade Tank, or 10311 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	le governmental authority's rules, regulations or ordinances
Operator ConocoPhillips Company	OGRID# 217817
Address PO Box 4289, Farmington, NM 87499	
Facility or well name FC STATE COM 16	
API Number 30-045-27623 OCD Permit Num	nber
U/L or Qtr/Qtr G(SW/NE) Section. 16 Township 30N Range	11W County: SAN JUAN
Center of Proposed Design Latitude 36.8142	-107.99285 °W NAD x 1927 1983
Surface Owner Federal X State Private Tribal Trust or Ind	lian Allotment
Pit: Subsection F or G of 19 15 17 11 NMAC     Temporary	RCVD AUG 9 '12   OIL CONS. DIV.   DIST. 3   HDPE   PVC   Other   x W _ x D
Closed-loop System: Subsection H of 19 15 17 11 NMAC  Fype of Operation P&A Drilling a new well Workover or Drilling (Applies 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	to activities which require prior approval of a permit or  HDPE PVD Other
X   Below-grade tank:   Subsection   of 19 15 17 11 NMAC	utomatic overflow shut-off  LLDPE
Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Envir	ronmental Bureau office for consideration of approval

Form C-144

Oil Conservation Division

Page 1 of 5

Fencing: Subsection D of 19 15 17 11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet							
X Alternate Please specify 4' hogwire fence with a single strand of barbed wire on top.							
Netting: Subsection E of 19 15 17 11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)							
Signs: Subsection C of 19 15 17 11 NMAC  12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  X Signed in compliance with 19 15 3 103 NMAC							
Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required Please refer to 19 15 17 NMAC for guidance  Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s) Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval  Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	deration of app	roval :					
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	X No					
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo					
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)  - Visual inspection (certification) of the proposed site; Aerial photo, Satellite image	□NA						
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applied to permanent pits)	Yes XNA	□No					
<ul> <li>Visual inspection (certification) of the proposed site, Aerial photo; Satellite image</li> <li>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.</li> </ul>	Yes	XNo					
<ul> <li>NM Office of the State Engineer - 1WATERS database search; Visual inspection (certification) of the proposed site.</li> <li>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</li> <li>Written confirmation or verification from the municipality. Written approval obtained from the municipality</li> </ul>	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.  - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	X No					
Within an unstable area.  - Engineering measures incorporated into the design, NM Bureau of Geology & Mineral Resources, USGS; NM Geological Society; Topographic map	Yes	X No					
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   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							
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC							
Previously Approved Design (attach copy of design) API or Permit							
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC Instructions Each of the following items must be attached to the application Please indicate, by a check mark in the box, that the documents are attached Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9							
Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17 10 NMAC							
Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC							
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC							
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC							
Previously Approved Design (attach copy of design)  API							
Previously Approved Operating and Maintenance Plan API							
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							
Line: Specifications and Compatibility Assessment - based upon the appropriate requirements of 19 15 17 11 NMAC							
Quality Control/Quality Assurance Construction and Installation Plan							
Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC							
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19 15 17 11 NMAC  Nuisance or Hazardous Odors, including H2S, Prevention Plan							
Emergency Response Plan							
Oil Field Waste Stream Characterization							
Monitoring and Inspection Plan							
Erosion Control Plan							
Closure Plan - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC							
14							
Proposed Closure: 19 15 17 13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.							
Type Drilling Workover Emergency Cavitation P&A Permanent Pit X Below-grade Tank Closed-loop System							
Alternative							
Proposed Closure Method X Waste Excavation and Removal							
Waste Removal (Closed-loop systems only)							
On-site Closure Method (only for temporary pits and closed-loop systems)							
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.							
X   Protocols and Procedures - based upon the appropriate requirements of 19 15 17 13 NMAC							
X Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19 15.17.13 NMAC							
X   Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)   X   Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC							
X   Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC							
X   Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15 17 13 NMAC							

Form C-144 Oil Conservation Division Page 3 of 5

	bove Ground Steel Fanks or Haul-off Bins Only:(19 15 17 13 D NMAC)							
Instructions Please identify the facility or facilities for the disposal facilities are required	of liquids, drilling fluids and drill cuttings. Use attachment if more than tw	o e						
Disposal Facility Name	Disposal Facility Permit #							
Disposal Facility Name	Disposal Facility Permit #							
Will any of the proposed closed-loop system operations and Yes (If yes, please provide the information	associated activities occur on or in areas that will nbe used for futur	re service and						
Required for impacted areas which will not be used for future services Soil Backfill and Cover Design Specification - based Re-vegetation Plan - based upon the appropriate requires Site Reclamation Plan - based upon the appropriate requires	upon the appropriate requirements of Subsection H of 19 15 17 13 1 cments of Subsection I of 19 15 17 13 NMAC	NMAC						
	the closure plan Recommendations of acceptable source material are provided belo tate district office or may be considered an exception which must be submitted to the							
Ground water is less than 50 feet below the bottom of the but	ried waste	Yes No						
- NM Office of the State Engineer - (WATERS database search	n, USGS Data obtained from nearby wells	N/A □						
Ground water is between 50 and 100 feet below the bottom of	of the buried waste	☐Yes ☐No						
- NM Office of the State Engineer - (WATERS database search								
Ground water is more than 100 feet below the bottom of the	hurred waste	☐Yes ☐No						
- NM Office of the State Engineer - IWA FERS database search								
(measured from the ordinary high-water mark)  - Topographic map, Visual inspection (certification) of the prop	of any other significant watercourse or lakebed, sinkhole, or playa lake	Yes No						
Within 300 feet from a permanent residence, school, hospital, institu		☐Yes ☐No						
- Visual inspection (certification) of the proposed site. Aerial ph	••							
		Yes No						
Within 500 horizontal feet of a private, domestic fresh water well or purposes, or within 1000 horizontal fee of any other fresh water well - NM Office of the State Engineer - iWATERS database, Visual		]						
pursuant to NMSA 1978, Section 3-27-3, as amended	pal fresh water well field covered under a municipal ordinance adopted	Yes No						
<ul> <li>Written confirmation or verification from the municipality, William 500 feet of a wetland</li> </ul>	ntten approval obtained from the municipality							
- US Fish and Wildlife Wetland Identification map, Topographi	c map, Visual inspection (certification) of the proposed site	Tes INO						
Within the area overlying a subsurface mine		☐Yes ☐No						
- Written confiramtion or verification or map from the NM EMN	RD-Mining and Mineral Division							
Within an unstable area		Yes No						
<ul> <li>Fingineering measures incorporated into the design, NM Burear Topographic map</li> </ul>	u of Geology & Mineral Resources, USGS, NM Geological Society,							
Within a 100-year floodplain - FEMA map		☐Yes ☐No						
On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Inst by a check mark in the box, that the documents are attached	tructions: Each of the following items must bee attached to the clo	osure plan. Please indicate,						
_	on the appropriate requirements of 19 15 17 10 NMAC	1						
	opriate requirements of Subsection F of 19 15 17 13 NMAC							
Construction/Design Plan of Burial Trench (if applica	ble) based upon the appropriate requirements of 19 15 17 11 NMAG	C						
Construction/Design Plan of Temporary Pit (for in pla	ce burial of a drying pad) - based upon the appropriate requirement	s of 19 15 17 11 NMAC						
Protocols and Procedures - based upon the appropriate								
Confirmation Sampling Plan (if applicable) - based up	on the appropriate requirements of Subsection F of 19 15.17 13 NM	MAC						
Waste Material Sampling Plan - based upon the appro	priate requirements of Subsection F of 19 15 17 13 NMAC							
Disposal Facility Name and Permit Number (for liquid	ls, drilling fluids and drill cuttings or in case on-site closure standar	ds cannot be achieved)						
Soil Cover Design - 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								

19
Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief  Name (Print)  Jamie Goodwin  Title  Regulatory Technician
Signature Date S S S S S S S S S S S S S S S S S S S
e-mail address / jamie I goodwin@conocophilips.com Telephone 505-326-9784
20
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Approval Date: 8/10/2012
OCD Representative Signature:  Approval Date:
Title: 18MO (auce) Office (9CD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 1915 1713 NMAC Instructions Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure
report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an
approved closure plan has been obtained and the closure activities have been completed
Closure Completion Date:
22
Closure Method:
Waste Excavation and Removal On-site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only)
If different from approved plan, please explain
23
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
Disposal Facility Name Disposal Facility Permit Number
Disposal Facility Name Disposal Facility Permit Number
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?
Yes (If yes, please demonstrate compliane to the items below)
Required for impacted areas which will not be used for future service and operations
Site Reclamation (Photo Documentation)
Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique
Ke-vegetation Application Rates and Securing Technique
24  Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in
the box, that the documents are attached.
Proof of Closure Notice (surface owner and division)
Proof of Deed Notice (required for on-site closure)
Plot Plan (for on-site closures and temporary pits)
Confirmation Sampling Analytical Results (if applicable)
Waste Material Sampling Analytical Results (if applicable)
Disposal Facility Name and Permit Number
Soil Backfilling and Cover Installation
Re-vegetation Application Rates and Seeding Technique
Site Reclamation (Photo Documentation) On-site Closure Location Latitude Longitude NAD 1927 1983
On the Ground Location Cambridge Longitude NAD 1721 1963
Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that
the closure complies with all applicable closure requirements and conditions specified in the approved closure plan
Name (Print) Title
Signature Date



### New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced

(R=POD has been replaced, O=orphaned,

& no longer serves a water right file )

(quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is

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

(In feet)

, , , , , , , , , , , , , , , , , , ,		· · · · · · · · · · · · · · · · · · ·	-									<u> </u>
	POD	,	Q	Q (	2					Depth	Depth	Water
POD Number	Code Subbasin	County	64	16 4	1 Sec	Tws	Rng .	X	Y	Well	Water (	Column
RG 50669		TA			27	30N	11W	234215	4075013*	360	310	50
SJ 03251		SJ	4	4 3	3 32	30N	11W	230879	4072752*	150	77	73
								Aver	age Depth to	o Water	. 193 f	eet
						,			Mınımun	n Depth	: 77 f	eet
									Maxımun	n Depth	310 f	eet

**Record Count: 2** 

PLSS Search:

Section(s): 29, 28, 27, 32, 33, 34

Township: 30N

Range: 11W



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

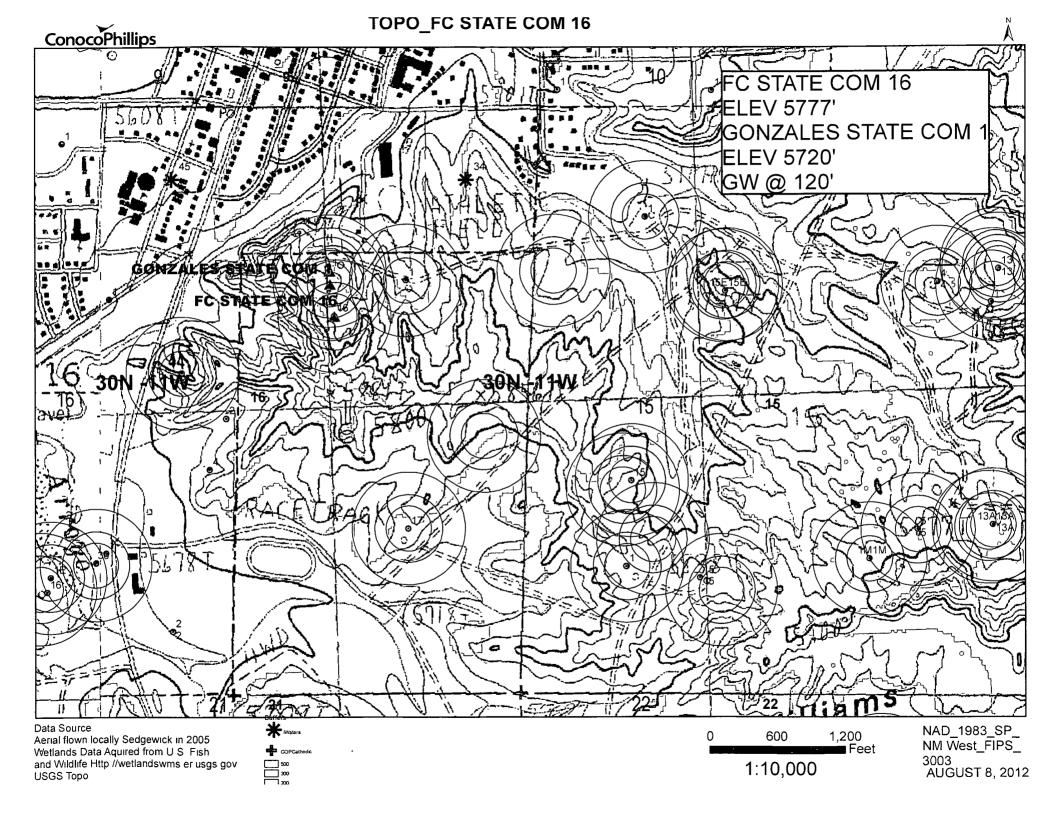
No records found.

**PLSS Search:** 

Section(s): 5, 4, 3

Township: 29N

Range: 11W



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

Operator Menidian Oil Inc. Location: Unit G Sec. 16 Twp 30 Rng 11
Name of Well/Wells or Pipeline Serviced Gonzales State Com #/
Elevation 5 700 Completion Date 7 50 95 Total Depth 380 Land Type
Casing Strings, Sizes, Types & Depths Set 96' of 8" P. J. C.
If Casing Strings are cemented, show amounts & types used <u>Cemented</u> with 17 socks of Type I 3 II cement.
If Cement or Bentonite Plugs have been placed, show depths & amounts used no plugs
Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 120 and was clear
Depths gas encountered: No go 5
Ground bed depth with type & amount of coke breeze used: 380 with  188 (5016) socks of Asbury 318R
Depths anodes placed: 1/15 at 365 and #15 is at 155  Depths vent pipes placed: Bo Hom to Sertace
Vent pipe perforations: Up 20 130: DECEMEN
Remarks:  JAN 1 1 1996  OIL CON. DIV.  If any of the above data is unavailable, please indicate so. Copies of all
logs, including Drillers Log. Water Analyses & Well Bore Schomatics should

including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

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

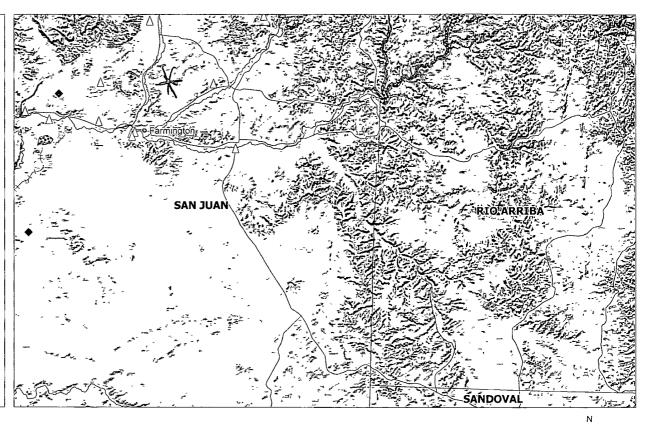
#### NEW MEXICO OIL CONSERVATION COMMISSION

#### Well Location and Acreage Dedication Plat

Operator  SOUTHMEST PRODUCTION CO.  Leane  Well No.	Section - A.				Date	24 T 4 W	1, 1403	
Note: All distances must be from under board from Section.  Section Parks Pearing ten and complete to the best of my knowledge and belief.  Section Parks Section Composition to the information is Section A above in true and complete to the best of my knowledge and belief.  Section Parks Section Composition to the information is Section A above in true and complete to the best of my knowledge and belief.  Section Parks Section Composition of the information is Section A above in true and complete to the best of my knowledge and belief.  Section Parks Section Composition of the information is Section A above in true and complete to the best of my knowledge and belief.  Section Parks Section Composition of the information is Section A above in true and complete to the best of my knowledge and belief.  Section Parks Section Composition of the information is Section Section Composition of the information in the informat	SOUNDLINES PRODUCT	ON CO	_	Gense I	es Stat	te (I	-10796)	
Located 1470 Feet From the NORTH Line 1770 Feet From the SAST Line County SAN JUN G. I. Elevation 5720.01 Dedicated Acress 18230 Acres Name of Froducing Formation In the Operator the only owner in the dedicated acresses cuttined on the plat below?  Yea No N No. 1 No. 1 No. 1 No. 1 No. 2 No. 2 No. 2 No. 3 No. 4 No. 5 No								T
County SAM JUN G. L. Elevation 5720,01 Dedicated Acresses Acres and Debries Pool Basis Debries Acres Pool Resis Debries Pool Re	MAIL 140: Out reces 000						he EAST	
Name of Producing Formation Babets  1. Is the Operator the only owner in the dedicated acreage outlined on the plan below?  Yee No. No. It answer to question one in "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yee No. It answer is "yee", Type of Consolidation.  3. If the answer to question two is "no", list all the owners and their respective interests below:  Owner  Tensace Corperation  MARS 1953  Bection B.  This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.  Section Corperation  Note: All distances must be from outer boundaries of section.  Note: All distances must be from outer boundaries of section.  Note: All distances must be from outer boundaries of section.  Note: This is to certify that the assessment of the best of my knowledge and belief.  Section Plans  Farmington, Mars Senitor  This is to certify that the above plat was prepared from field notes of actual surveys made by me of under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed 25 February 1963								
1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?  Yes No X  2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes No X  3. If the answer to question two is "no", list all the owners and their respective interests below:  Owner  Comer  Tensace Corperation  Note: All distances must be from outer boundaries of section.  Note: All distances must be from outer boundaries of section.  Note: All distances must be from outer boundaries of section.  Note: All distances must be from outer boundaries of section.  Note: GEO plat dated: 7 April 1881  This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.  Sectiones: Preduction Company  (Operator)  (Representative)  This is to certify that the showe plat was prepared from field notes of actual curveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed  25 February 1963	Mahad				Basin			
Yes No X  If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes No X  If the answer to question two is "no", list all the owners and their respective interests below:    Commercia	_	ted acreage	outlined on		low?			<del></del>
S. If the answer to question two is "no", list all the owners and their respective interests below:  Land Description  Tennece Corporation  Ma/4 Ma/4 S2/4 Ma/4 (80 care)  Tenne Pacific Ceal & 611 Ce.  Ma/8 Ma/8 Ma/8 Ma/8 Ma/8 Ma/8 Ma/8 Ma/8								
Tennese Corperation  Well 182/4 182/								nitization
Tennece Corporation  Pulse Petr. Corp.  HE/4 SE/4 ME/4 (80 ceres)  MARS 1953  Tenne Pacific Coal & Cil Co.  Section B.  Note: All distances must be from outer boundaries of section.  Note: All distances must be from outer boundaries.  Note: All distances	agreement or otherwise? YesN	o	. If answe	r is "yes"	', Type o	f Conso	lidation.	
Tennece Corporation  Pulse Petr. Corp.  HE/4 SE/4 ME/4 (80 ceres)  MARS 1953  Tenne Pacific Coal & Cil Co.  Section B.  Note: All distances must be from outer boundaries of section.  Note: All distances must be from outer boundaries.  Note: All distances					_			
Pulse Petr. Cerp.    Marcology   Marcology		tall the ow	ners and the	•				FILE
Pulses Petits Cosi & Gil Co.  Mil/4	Owner			Lar	d Descri	puon	/off	FIVEN
Pulses Petits Cosi & Gil Co.  Mil/4	Tennece Corporation		100/	4 ME/4 SI	V4 15/4	(80 4	PARTY PARE	TIA[D]
Section B.  Note: All distances must be from outer boundaries of section.  This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.  Seuthmest Production Company  (Coperator) Original signed by Carl W. Smith  234 Petr. Club Plaza  Farmington, Sew Serice  Farmington, Sew Serice  This is to certify that the above plat was prepared from field notes of sound surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed  25 February 1963	Buchte Bake Com			4 300 /4 1	10	. 1	MARS	2 4000
Section B.  Note: All distances must be from outer boundaries of section.  This is to certify that the information in Section A above to true and complete to the best of my knowledge and belief.  Seuthnest Prediction Company  (Operator) Original signed by (Representative)  234 Petr. Class Plaza  Farmington, Rew Senice  16  This is to certify that the above plat was prepared from field notes of sound surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed  25 February 1963	reso, ress. cesp.	<del></del>		. my	O GETAI	• /		
Section B.  Note: All distances must be from outer boundaries of section.  This is to certify that the information in Section A above to true and complete to the best of my knowledge and belief.  Seuthnest Prediction Company  (Operator) Original signed by (Representative)  234 Petr. Class Plaza  Farmington, Rew Senice  16  This is to certify that the above plat was prepared from field notes of sound surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed  25 February 1963	Tomas Pacific Coel & Oil Co.		HE/4	4 51/4 51	1/4 51/4	(80 a	CC	N. COM.
This is to certify that the information is Section A above is true and complete to the best of my knowledge and belief.  Sections Predection Company  (Operator) Original signed by Carl W. Smith  (Representative)  Parmington, How Mexico  16  16  N  Ref: GLO plat dated, 7 April 1881  This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed 25 February 1963		· · · · · · · · · · · · · · · · · · ·						<del>) . 3</del>
This is to certify that the information is Section A above is true and complete to the best of my knowledge and belief.  Sections Predection Company  (Operator) Original signed by Carl W. Smith  (Representative)  Parmington, How Mexico  16  16  N  Ref: GLO plat dated, 7 April 1881  This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed 25 February 1963		••						
in Section A above is true and complete to the best of my knowledge and belief.  Seathwest Production Company  (Operator) Original signed by Cort W. Smith  (Representative)  234 Petr. Club Plaze  Farmington, (Address)  Parmington, (Address)  and one see two see take sace take sace take see take see to see the see of my seem of my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed  25 February 1963	Section B.	Note: A	il distances	must be fr	om outer	boundari	es of section.	•
in Section A above is true and complete to the best of my knowledge and belief.  Seathwest Production Company  (Operator) Original signed by Cort W. Smith  (Representative)  234 Petr. Club Plaze  Farmington, (Address)  Parmington, (Address)  and one see two see take sace take sace take see take see to see the see of my seem of my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed  25 February 1963	This is to partify that the information	1		1 '	1		1	l
(Operator) Original signed by Carl M. Smith (Representative)  234 Petr. Club Plaza  Farmington, New Series  16  1770  1770  1881  16: GEO plat dated: 7 April 1881  This is to certify that the above plat was prepared from field notes of sotnal surveys made by me of under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed  25 February 1963	•	1		1			1	I
(Representative)  234 Petr. Cimb Plaza  Farmington, (Address)  16  16  1770  1881  16  1770  1881  16  1770  1881  16  1770  1881  16  1770  1881  16  16  1770  1881  16  1770  1881  16  16  1770  1881  16  16  1770  1881  16  16  1770  1881  16  16  1770  1881  16  16  1770  1881  16  16  1770  1881  16  16  1770  1881  16  16  1770  1881  16  16  1770  1881  16  16  1770  1881  16  16  1770  1881	-			-1	1-	<b>%</b> -		1
(Coperator) Original signed by Corl W. Smith  234 Petr. Club Plaza  Farmington, (Address)  Parmington, (Address)  16  16  1770  1881  16  1770  1881  16  1770  1881  16  1770  1881  16  16  1770  1881  16  16  1770  1881  16  1770  1881  16  1770  1881  16  16  1770  1881  16  1770  1881  16  16  1770  1881  16  1770  1881  16  16  1770  1881  16  16  1770  1881  16  16  1770  1881	Sauthment Deadaction Comean		1	ł	,	2	1	1
Confidence of the second secon	(0)	1		1	,		t	1
Parmington, Mari Senice  16  16  16  16  17 April 1881  This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed  25 February 1963	Olidinal sidued by	1	<del></del>	1	-	•		1
Parmington, (Address)  16  16  16  16  16  17  1881  1	Carl W. Smith	1 ,	l	1	,		1770	
Farmington, flow Regice  16  16  16  16  16  17 April 1881  18					,		1	i
Ref: GLO plat dated: 7 April 1881				1	7 - ,			1
Ref: GLO plat dated: 7 April 1881   • sao seo seo seo seo seo seo seo seo seo se	Farmington, Now Mexico	- t	İ	1			i	ł
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed 25 February 1963	,				16			-1
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed 25 February 1963		1		t	,	. ]	1	
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed 25 February 1963	•			t		ļ	í	
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed 25 February 1963				-1	<b>! -</b> - r			N
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed 25 February 1963	Ref: GLO plat dated: 7. April 1681	1		1	,	- 1	1	
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed		1 _ 1		1		- 1	1	11
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed		1		ı			1	
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed		1		•		1	1	
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed		+		-1	1-	1	4	. 📗
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed	• •	-		ı	,	]	ŧ	
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed				1	,		1	1 '
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed								<b>₩</b>
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed	" care distant	0 330 66	0 990 1920 14	10 1900 22 10	640 204	1500	1000 500	디
This is to certify that the above plat was prepared from field notes of sotual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed	The second of the second		Ro	ale 4 Izobe				~
made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed 25 February 1963			•					
made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.  Date Surveyed 25 February 1963								
of my knowledge and belief.  Date Surveyed 25 February 1963								
Date Surveyed 25 February 1963				and that	the same	are true	and correct	to the best
Some Property of the second se	of my knowle	dge and be	lief.					
Se Q Lea	(641)		De	e Buryeved	25	Febru	ary 1963	
V. 100-0							P	
James P. Leese. N. Mex. Reg. No. 1463							-	A B
	A semisficat has maxico		<u>⊀•</u> [	108 P. Le	77 <b>9591008</b> 9686.	N. Mes	Reg. No.	a paryeyor

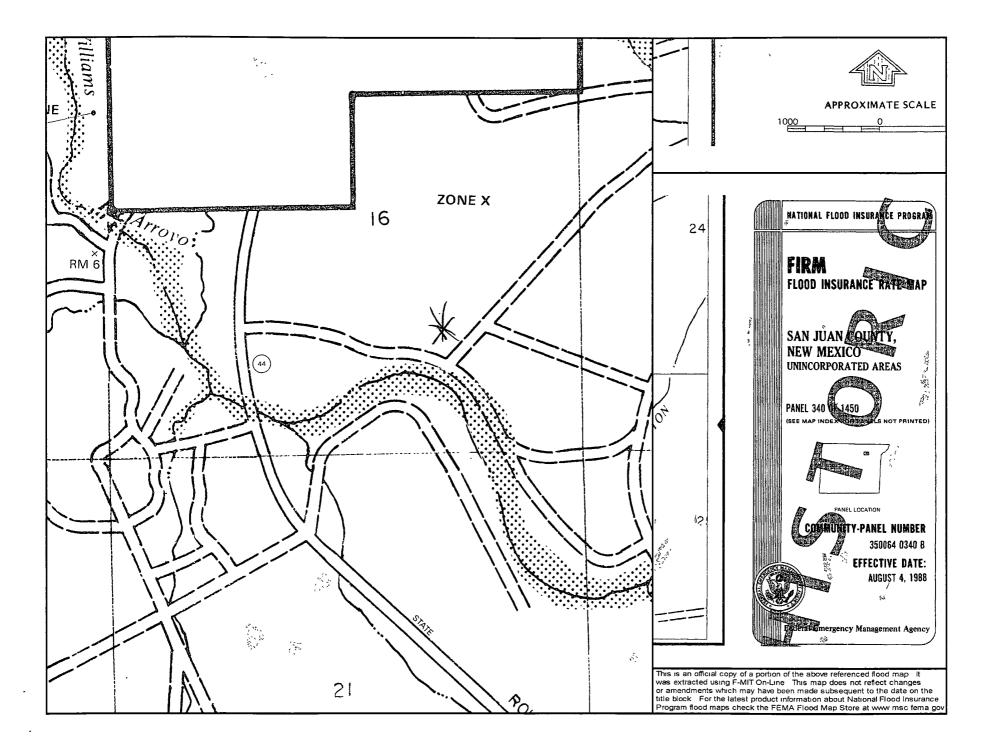
### MINES, MILL AND QUARRIES FC STATE COM 16

#### Mines, Mills & Quarries Commodity Groups **Aggregate & Stone Mines Coal Mines Industrial Minerals Mines** Industrial Minerals Mills **Metal Mines and Mill Concentrate Potash Mines & Refineries** Smelters & Refinery Ops. **Uranium Mines Uranium Mills Population** 0 Cities - major Transportation Railways Interstate Highways **Major Roads**









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

The FC STATE COM 16 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 Cathdic well data came from the GONZALES STATE COM 1 has an elevation of 5720' and groundwater depth of 120'. The subject well has an elevation of 5777' which is greater then the FC STATE COM 161therefore the groundwater is greater then 177'. There are 2 iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the Nacimiento formation will create a stable area for this new location.

#### Hydrogeological Report for Nacimiento Formation FC STATE COM 16

#### **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 conformably 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.

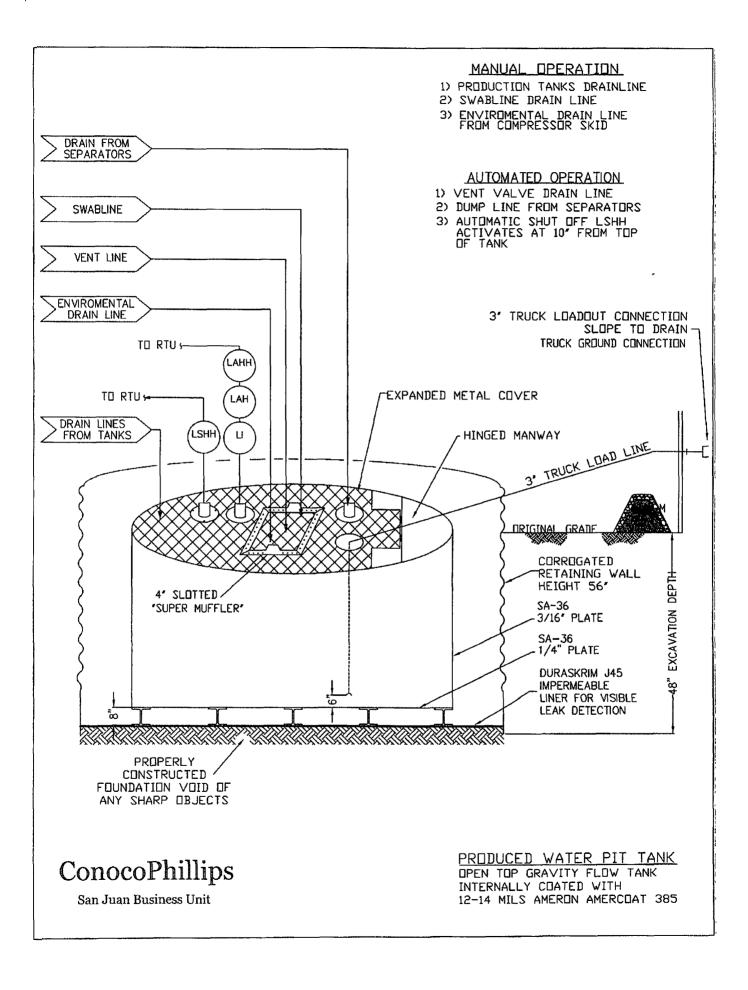
## ConocoPhillips Company San Juan Basin Below Grade Tank Design and Construction

In accordance with NMAC 19.15.17 the following information describes the design and construction of below grade tanks on ConocoPhillips Company (COPC) locations. This is COPC's 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:

- COPC will design and construct a properly sized and approved BGT which will
  contain liquids and should prevent contamination of fresh water to protect the
  public health and environment.
- 2 COPC signage will comply with 19.15.17.11NMAC. COPC includes Emergency Contact information on all signage.
- 3. COPC has approval to use alternative fencing that provides better protection. COPC constructs 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. COPC ensures that all gates associated with the fence are closed and locked when responsible personnel are not onsite.
- COPC will construct a screened, 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 as shown on design drawing and specification sheet.
- 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 as shown on design drawing.
- 7. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 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.

- 9. COPC has equipped the below-grade tanks with the ability to detect high level in the tank and provide alarm notification and shutdown process streams into the tank. Once high level is detected RTU logic closes the inlet separator sales valve and does not permit vent valve to open. This shutdown of the sales valve and gagging of the vent valves prevents any hydrocarbon process streams from entering the pit tank once a high level is detected. Furthermore, an electronic page is sent to the COPC MSO for that well site and to the designated contract "Water-Hauling" Company indicating a high level and that action must be taken to address this alarm. The environmental drain line from COPC's compressor skid under normal operating conditions is in the open position. The environmental drain line is in place to capture any collected rain water or spilled lubricants from our compressor skids. The swab drain line is a manually operated drain and by normal operating procedures is in the closed position. The tank drain line is also a manually operated drain and during normal operations it is in the closed position.
- 10. The geomembrane liner consists of a 45-mil flexible LLDPE material manufactured by Raven Industries as J45BB. This product is a four layer reinforced laminated containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. The J45BB is reinforced with 1300 denier (minimum) tri-directional scrim reinforcement. It exceeds ASTMD3083 standard by 10%. J45BB has a warranty for 20 years from Raven Industries and is attached. It is typically used in Brine Pond, Oilfield Pit liner and other industrial applications. The manufacture specific sheet is attached and the design attached displays the proper installation of the liner.
- The general specification for design and construction are attached in the COPC document.



## DURASKRIVE

## BOBBBBAS

PROPERTIES	TEST METHOD	J3	0BB	J36	вв	J451	3B. (;
		Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages	Min. Roll Averages	Typical Roll Averages
Appearance.		Black	/Black	Black/l	Black	Black/Black	
Thickness	ASTM D 5199	27 mil	30 mil	32 mil	36 mil	40 mil	45 mil
Weight Lbs Per MSF (oz/yd²)	ASTM D 5261	126 lbs (18.14)	140 lbs (20.16)	151 lbs (21.74)	168 lbs (24.19)	189 lbs (27.21)	210 lbs (30.24)
Construction		**Extr	usion laminated	with encapsulat	ed tri-direction	al scrim reinforc	ement
Ply Adhesion	ASTM D 413	16 lbs	20 lbs	19 lbs	24 lbs	25 lbs	31 lbs
1 Tensile Strength	ASTM D 7003	88 lbf MD 63 lbf DD	110 lbf MD 79 lbf DD	90 lbf MD 70 lbf DD	113 lbf MD 87 lbf DD	110 lbf MD 84 lbf DD	138 lbf MD 105 lbf DD
1: Tensile Elongation @ Break: % (Film Break)	ASTM D 7003	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD	550 MD 550 DD	750 MD 750 DD
1 Tensile Elongation @ Peak % (Scrim Break)	ASTM D 7003	20 MD 20 DD	33 MD 33 DD	20 MD 20 DD	30 MD 31DD	20 MD 20 DD	36 MD 36 DD
Tongue Tear Strength	ASTM D 5884	75 lbf MD 75 lbf DD	97 lbf MD 90 lbf DD	75 lbf MD 75 lbf DD	104 lbf MD 92 lbf DD	100 lbf MD 100 lbf DD	117 lbf MD 118 lbf DD
Grab I ensile	ASTM D 7004	180 lbf MD 180 lbf DD	218 lbf MD 210 lbf DD	180 lbf MD 180 lbf DD	222 lbf MD 223 lbf DD	220 lbf MD 220 lbf DD	257 lbf MD 258 lbf DD
Trapezoid Tear	ASTM D 4533	120 lbf MD 120 lbf DD	146 lbf MD 141 lbf DD	130 lbf MD 130 lbf DD	189 lbf MD 172 lbf DD	160 lbf MD 160 lbf DD	193 lbf MD 191 lbf DD
Dimensional Stability	ASTM D 1204	<1	<0.5	<1	<0.5	<1	<0.5
Puncture Resistance Maximum Use Temperature	ASTM D 4833	50 lbf	64 lbf	65 lbf	83 lbf	80 lbf	99 lbf
Maximum Use Temperature		180° F					
Minimum Use Temperature		-70° F					

MD = Machine Direction

DD = Diagonal Directions



Note: Minimum Roll Averages are set to take into account product variability in addition to testing variability between laboratories.

\*Dimensional Stability Maximum Value

\*\*DURA-SKRIM J30BB, J36BB & J45BB are a four layer reinforced laminate containing no adhesives. The outer layers consist of a high strength polyethylene film manufactured using virgin grade resins and stabilizers for UV resistance in exposed applications. DURA-SKRIM J30BB, J36BB & J45BB are reinforced with a 1300 denier (minimum) tri-directional scrim reinforcement

Note: RAVEN INDUSTRIES MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage

PLANT LOCATION

Sioux Falls, South Dakota

SALES OFFICE

P.O. Box 5107 Sloux Falls, SD 57117-5107 (605) 335-0174 (605) 331-0333 FAX **800-635-3456** 



08/06

### RAVEN INDUSTRIES INC. EXPOSED GEOMEMBRANE LIMITED WARRANTY

Raven Industries Inc. warrants Dura-Skrim J30BB, J36BB, and J45BB to be free from manufacturing defects and to be able to withstand normal exposure to sunlight for a period of 20 years from the date of sale for normal use in approved applications in the U.S and Canada, excluding Hawaii. This warranty is effective for products sold and shipped from January 1, 2008 to December 31, 2008. These dates will be updated prior to December 31, 2008.

This Limited Warranty does not include damages or defects in the Raven geomembrane resulting from acts of God, casualty or catastrophe including but not limited to: earthquakes, floods, piercing hail, or tornadoes. The term "normal use" as used herein does not include, among other things improper handling during transportation, unloading, storage or installation, the exposure of Raven geomembranes to harmful chemicals, atypical atmospheric conditions, abuse of Raven geomembranes by machinery, equipment or people; improper site preparation or covering materials, excessive pressures or stresses from any source or improper application or installation. Raven geomembrane material warranty is intended for commercial use only and is not in effect for the consumer as defined in the Magnuson Moss Warranty or any similar federal, state, or local statues. The parties expressly agree that the sale hereunder is for commercial or industrial use only.

Should defects or premature loss of use within the scope of the above Limited Warranty occur, Raven Industries Inc. will, at its option, repair or replace the Raven geomembrane on a pro-rata basis at the then current price in such manner as to charge the Purchaser/User only for that portion of the warranted life which has elapsed since purchase of the material. Raven Industries Inc. will have the right to inspect and determine the cause of any alleged defect in the Raven geomembrane and to take appropriate steps to repair or replace the Raven geomembrane if a defect exists which is covered under this warranty. This Limited Warranty extends only to Raven's geomembrane, and does not extend to the installation service of third parties nor does it extend to materials furnished or installed by others in connection with the intended use of the Raven geomembranes.

Any claim for any alleged breach of this warranty must be made in writing, by certified mail, to the General Manager of Engineered Films Division of Raven Industries Inc. within ten (10) days of becoming aware of the alleged defect. Should the required notice not be given, the defect and all warranties are waived by the Purchaser, and Purchaser shall not have any rights under this warranty. Raven Industries Inc. shall not be obligated to perform repairs or replacements under this warranty unless and until the area to be repaired or replaced is clean, dry, and unencumbered. This includes, but is not limited to, the area made available for repair and/or replacement of Raven geomembrane to be free from all water, dirt, sludge, residuals and liquids of any kind. If after inspection it is determined that there is no claim under this Limited Warranty, Purchaser shall reimburse Raven Industries Inc. for its costs associated with the site inspection.

In the event the exclusive remedy provided herein fails in its essential purpose, and in that event only, the Purchaser shall be entitled to a return of the purchase price for so much of the material as Raven Industries Inc. determines to have violated the warranty provided herein. Raven Industries Inc. shall not be liable for direct, indirect, special, consequential or incidental damages resulting from a breach of this warranty including, but not limited to, damages for loss of production, lost profits, personal injury or property damage. Raven industries Inc. shall not be obligated to reimburse Purchaser for any repairs, replacement, modifications or alterations made by Purchaser unless Raven industries Inc. specifically authorized, in writing, said repairs, replacements, modifications or alteration in advance of them having been made. Raven Industry's liability under this warranty shall in no event exceed the replacement cost of the material sold to the Purchaser for the particular installation in which it failed.

Raven Industries Inc. neither assumes nor authorizes any person other than the undersigned of Raven Industries Inc. to assume for it any other or additional liability in connection with the Raven geomembrane made on the basis of the Limited Warranty. The Limited Warranty on the Raven geomembrane herein is given in lieu of all other possible material warranties, either expressed or implied, and by accepting delivery of the material; Purchaser waives all other possible warranties, except those specifically given. This Limited Warranty may only be modified by written document mutually executed by Owner and Raven Industries Inc.

Limited Warranty is extended to the purchaser/owner and is non-transferable and non-assignable; i.e., there are no third-party beneficiaries to this warranty.

Purchaser acknowledges by acceptance that the Limited Warranty given herein is accepted in preference to any and other possible materials warranties

THIS LIMITED WARRANTY SHALL BE GOVERNED BY SOUTH DAKOTA LAW AND VENUE FOR ALL LEGAL PROCEEDINGS IN CONNECTION WITH THIS LIMITED WARRANTY SHALL BE IN MINNEHAHA COUNTY, SOUTH DAKOTA RAVEN INDUSTRIES INC. MAKES NO WARRANTY OF ANY KIND OTHER THAN THAT GIVEN ABOVE AND HEREBY DISCLAIMS ALL WARRANTIES, BOTH EXPRESSED OR IMPLIED, OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE THIS IS THE ONLY WARRANTY THAT APPLIES TO THE MATERIALS REFERRED TO HEREIN AND RAVEN INDUSTRIES INC. DISCLAIMS ANY LIABILITY FOR ANY WARRANTIES GIVEN BY ANY OTHER PERSON OR ENTITY, EITHER WRITTEN OR ORAL

RAVEN INDUSTRIES' WARRANTY BECOMES AN OBLIGATION OF RAVEN INDUSTRIES INC. TO PERFORM UNDER THE WARRANTY ONLY UPON RECEIPT OF FINAL PAYMENT AND EXECUTION BY A DULY AUTHORIZED OFFICER OF RAVEN INDUSTRIES INC

## 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 Tank (BGT) on ConocoPhillips Company (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:

- COPC will operate and maintain a BGT to contain liquids and solids and maintain
  the integrity of the liner, liner system and secondary containment system to
  prevent contamination of fresh water and protect public health and environment.
  COPC will accomplish this by performing an inspection on a monthly basis,
  installing cathodic protection, and automatic overflow shutoff devices as seen on
  the design plan.
- 2. COPC will not discharge into or store any hazardous waste in the BGT.
- 3. COPC shall operate and install the below-grade tank to prevent the collection of surface water run-on. COPC has built in shut off devices that do not allow a below-grade tank to overflow. COPC constructs berms and corrugated retaining walls at least 6" above ground to keep from surface water run-on entering the below grade tank as shown on the design plan.
- 4. As per 19.17.15.12 Subsection D, Paragraph 3, COPC will inspect the below-grade tank at least monthly reviewing several items which include 1) containment berms adequate and no oil present, 2) tanks had no visible leaks or sign of corrosion, 3) tank valves, flanges, and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids. In addition, COPC's multiskilled operators (MSOs) are required to visit each well location once per week. If detected on either inspection, COPC shall 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. The written record of the monthly inspections will include the items listed above and will be maintained for five years.
- COPC shall require and maintain a 10" adequate freeboard to prevent overtopping of the below-grade tank.
- 6. If the below grade tank develops a leak, or if any penetration of the pit liner or below grade tank, occurs below the liquid's surface, then COPC shall remove all liquid above the damage or leak line within 48 hours. COPC shall notify the appropriate district office. COPC shall repair or replace the pit liner or below grade tank, within 48 hours of discovery. If the below grade tank or pit liner does not demonstrate integrity, COPC shall promptly remove and install a below grade tank or pit liner that complies with Subsection I of 19.15.17.11 NMAC. COPC shall notify the appropriate district office of a discovery of leaks less than 25 barrels 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.

#### ConocoPhillips Company San Juan Basin Below Grade Tank Closure Plan

In accordance with Rule 19.15.17.13 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 Subsection A of 19.15.17.13 NMAC. This will include a) below-grade tanks that do 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 f19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) permitted below-grade tanks within 60 days of cessation of the below-grade tank's operation., or c) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, COPC will file the C144 Closure Report as required.
- 2. 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. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.
- 3. COPC will receive prior approval to 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. Documentation of how the below-grade tank was disposed of or recycled will be provided in the closure report.
- 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.
- 5. 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.

- 6. 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.
- 7. 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
- 8. 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.
- The surface owner shall be notified of COPC's closing of the below-grade tank prior to closure as per the approved closure plan via certified mail, return receipt requested.
- 10. 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.
- 11. 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 stipulated seed mixes will used on federally jurisdicted lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private 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. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. COPC will repeat seeding or planting will be continued until successful vegetative growth occurs.
- 12. 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.
- 13. 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 belowgrade tank. Closure report will be filed on C-144 and incorporate the following:
  - Soil Backfilling and Cover Installation
  - Re-vegetation application rates and seeding techniques
  - Photo documentation of the site reclamation
  - Confirmation Sampling Results
  - Proof of closure notice