District I 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue, Artesia, NM 88210

District.III 1000 Rio Brazos Road, Aztec, NM 87410

District IV

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

State of New Mexico **Energy Minerals and Natural Resources**

Submit to appropriate District Office

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

☐ AMENDED REPORT

Form C-101

May 27, 2004

APPLICATIONFOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE OGRID Number Operator Name and Address 217817 ConocoPhillips Company 3300 N. "A" Street, Bldg. 6 #247 Midland, TX 79705 API Number 30-025-³ Property Code ⁵ Property Name Vacuum Glorieta East Unit 31257 10 Proposed Pool 2 Proposed Pool 1 Vacuum; Glorieta Surface Location Feet from the North/South line Feet from the East/Westline Lot Idn County UL or lot no. Township Range Section K 27 **17S** 35E 1350 South 1875 West Lea ⁸ Proposed Bottom Hole Location If Different From Surface Lot Idn North/South line Feet from the Feet from the East/Westline UL or lot no. Township Range County Section Additional Well Information 12 Well Type Code 13 Cable/Rotary 15 Ground Level Elevation 11 Work Type Code Lease Type Code 3935' 0 R S N 18 Formation 20 Spud Date 16 Multiple 17 Proposed Depth 19 Contractor 6400' Paddock Sledge Drilling 02/08/07 No Distance from nearest surfacewater Distance from nearest fresh water well Depth to Groundwater Liner: Synthetic X 12 Pit Volume: 20910bls DrillingMethod: milsthick Clay Pit: Fresh Water X Brine X Diesel/Oi-based Gas/Air Closed-Loop System Proposed Casing and Cement Program Casing weight/foot Sacks of Cement Hole Size Casing Size Setting Depth Estimated TOC 8-5/8" 24# 1600' 840 12-1/4" Surf. 7-7/8" 5-1/2" 15.5# 6400' 1200 Surf. ¹² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. New Drill location, proposed schematic attached. Fresh water mud will be used for drilling the surface section, brine will be used for drilling the production section. Permit Expires 1 Year From Approval
Date Unless Drilling Underway Proposed BOP Program: Working Pressure **Test Pressure** Type Annular 5000 2000 Blind Ram 5000 3000 3000 Pipe Ram 5000 ²³ I hereby certify that the information given above is true and complete to the best **OIL CONSERVATION DIVISION** of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines \square , a general permit \square , or Approved by: an (attached) alternative OCD-approved plan Printed name: Celeste G. Dale Regulatory Specialist Title: E-mail Address: celeste.g.dale@conocophillips.com Conditions of Arter of 1 Act Phone: Date: 12/04/06 (432)688-6884

ConocoPhillips' General Plan for Pit Construction & Closure in Southeast New Mexico October 2005

In accordance with Rule 19.15.2.50(B)(2), the following information describes the construction and closure of drilling pits on COPC Southeast New Mexico (SENM) locations. This will become COPC's standard procedure on all SENM locations. If pits are constructed or closed out of the norm, a separate permit application will be submitted.

Drill Pit Construction:

General:

- Depth to Ground Water, Wellhead Protection Area & Distance to Nearest Surface Water Body ranking criteria will be site specific and information will be provided on APD or Sundry form C-103.
 - In the case where groundwater is encountered during the construction of a drilling pit, the NMOCD will be contacted and COPC will either try to find an alternative well location or use a closed steel tank system.
- The pit size and design is specific to well depth and location conditions.
- Topsoil will be stockpiled in the construction zone for later use in restoration.
- Pits will not to be located in natural drainages.
- Diversion ditches will be constructed and maintained so that runoff water from outside the location is not allowed to enter the pit.
- Under no circumstance will pits be cut and drained during the drilling operations.
- A well sign will be on location identifying ConocoPhillips as the operator.
- Waste material at construction sites shall be disposed of promptly at an appropriate waste disposal site. No trash shall be disposed of in the drilling pit.
- Immediately after cessation of drilling and completion pits shall have any visible or measurable layer of oil removed from the surface.
- Prior to any pit construction the OCD will be notified at least 48 hours in advance.

Reserve Pit

- Pits will be constructed so as not to leak, break or allow discharge of liquids or produced solids during the drilling operations.
- Pits will be lined with impervious material at least 12 mils thick, which meets long-term standards as referenced in the guidelines. Padding (hay or pad dirt) is used underneath the synthetic liner in rocky areas.
- The pit will have adequate capacity to maintain 2 feet of free board.
- The reserve pit will be fenced on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves out.

Blow Pit

- Pits will be constructed to allow gravity flow to discharge into lined drill pit.
- The lower half of the pit, which is toward the drain line to the fully lined reserve pit, will be lined.
- Design of pit has been changed to reduce potential for trapped fluid at tail end of pit
- Pit will be fenced on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves off.
- Corrective actions will be taken to ensure the pit does not contain fluid.
 - This includes pumping out trapped fluid or fluid in low spots.
 - Filling in low spots in the blow pit that are below the elevation of the drain pipe to the lined pit.
 - Removing any high spots in blow pit that could trap rain water.

Pit Monitoring and Maintenance

- COPC will perform an inspection of the location including pit compliance within 72 hours of rig moving
 off.
- COPC will review the OCD pit requirements and the requirements included in this document with all COPC and contract personnel responsible for construction and closure of pits.

Drill Pit Closure:

- Good faith effort is made to close pits within required timeframe on Federal wells (90 days) and State/Fee wells (6 months). If pits will remain open past due dates, an extension will be requested by sundry notice to allow pits to remain open.
- The BLM is notified 24 hours prior to fluid hauling on Federal wells.
- The NMOCD will be notified 48 hours prior to closing of any pit.
- Aeration of pit fluids will be confined within pit area.
- Wells which have not penetrated a salt section and where less than 9.5# brine was used during drilling will be encapsulated below-grade.
 - Encapsulation will be accomplished by mixing earthen materials with the pit contents to stiffen the pit contents, as necessary, folding the edges of the liner over the stiffened mud and cuttings and covering the encapsulated wastes and liner with a minimum of 3 feet of clean soil or like material that is capable of supporting native plant growth.
- Wells which have penetrated a salt section or 9.5# brine or greater was used during drilling may be capped and encapsulated insitu or deep trench buried and capped below-grade.
 - Capping and encapsulation insitu will be accomplished by mixing earthen materials with the pit contents, as necessary to stiffen the pit contents sufficiently to provide physical stability and support for the pit cover, folding the edges of the liner over the stiffened mud and cuttings; capping the pit with either a 1-foot thick clay cap compacted to ASTM standards, or a 20 mil minimum liner and covering the cap with a minimum of 3 feet of clean soil or like material that is capable of supporting native plant growth.
 - Deep trench burial and capping will be accomplished by digging a trench adjacent to the drilling pit; lining the trench with a 12 mil liner; mixing earthen materials with the pit contents, as necessary to stiffen the pit contents sufficiently to provide physical stability and support for the trench cap; capping the trench with either a 1-foot clay cap compacted to ASTM standards, or a 20 mil minimum liner and covering the cap with a minimum of 3 feet of clean soil or like material that is capable of supporting native plant growth.
 - When constructing the cap, the liner or clay cap will overlap the underlying pit or trench area by at least 3 feet in all directions.
- If the depth to groundwater is less that 50 feet or if the well is located less than 200 feet from a domestic fresh water well or spring or less than 1000 feet from any other fresh water well or if the distance to surface water body is less than 200 feet; the well is considered to be in sensitive area. (Keep in mind that these are not the only scenarios of sensitive area.)
 - A special encapsulation or solidification process prior to covering the pit contents will be accomplished by mixing the pit contents with cement or some other solidifying product at approximately a 3 to 1 ratio with samples taken and approved by the OCD prior to closure and then contents buried as described above.
 - o OCD must give written approval on any special closure or encapsulation prior to any work being done.
- The reserve pit will then be backfilled, leveled and contoured so as to prevent run-off to surface water.
- The area will be reseeded with the appropriate seed mixture.
- The final grade of reserve pit (after reclamation) will be returned to natural contour of the land such that no pooling will occur.
- A closure report will be submitted on Form C-144 on all drilling pits.
- Note: On Federal wells, a BLM inspector may witness pit closures and may mandate specific modifications to that which is mentioned above. If this happens, OCD will be contacted for concurrence and modifications will be noted in the closure report.

ConocoPhillips

CASING & CEMENTING PROGRAM PROPOSAL Vacuum Glorieta East Unit Ph 4 27-024

Deture DKD (40) should secured level		
Datum: RKB (12' above ground level)	11" 5M x 7 1/16" 5	M Tubing Head
Conductor	8-5/8" SOW x 11" 5	
13-3/8" conductor set at 40' to 80' with rat hole machin	TOTAL CONTRACTOR CONTR	Surface Cement
Sunface Cooling	XNew	Spacer: 20 bbls fresh water
Surface Casing	Used	Land Observed
Size <u>8 5/8</u> in	Usea	Lead Slurry:
Wt. <u>24</u> ppf		610 - 700 sx 35/65 POZ:Class C + 5% bwow D44 salt
Gtrade: <u>J-55</u> ppf		+ 6% D20 bentonite
Conn: STC ppf		+ 2% S1 Calcium Chloride
		+ 0.25 pps D29 celloflake
	11	+ CemNet if needed.
Hole Size <u>12 1/4</u> in		Mix Weight = 12.8 ppg,
Excess Cmt 120 - 150 %		Yield = 1.97 cuft/sx yield,
T.O.C. SURFACE		Mix Water = 10.54 gal/sx
	/ / /	Top of Lead Slurry at Surface
Surface Casing Shoe set at 1600' to 1650' MD	HKB /	Tail Slurry:
TD of 12-1/4" hole at 1610' to 1660' MD RKB		230 - 260 sx Class C Cement
	/ 1	+ 2% S1 calcium chloride
	/	+ 0.25 pps D29 celloflake
Propose Variance to allow us to test the su	urface /	+ CemNet if needed.
casing to 1000 psi instead of 1500 psi.		Mix Weight = 14.8 ppg,
		Yield = 1.34 cuft/sx yield,
		Mix Water = 6.29 gal/sx
		Length of Tail Slurry: 330'
		Top of Tail Slurry at 1270' - 1320' MD RKB
	*	
		Production Cement
Production Casing:		Spacer: 20 bbls fresh water
Size 5 1/2 in	X New	Lead Slurry:
Wt. 15.5 ppf	Used	620 sx 50/50 POZ:Class C
Gtrade: J-55 ppf		+ 5% bwow D44 salt
Conn: LTC ppf		+ 10% D20 bentonite
Сонирри		+ 0.2% D167 Fluid Loss Additive
		+ 0.2% D65 Dispersant
Hala Cina 77/0 in		+ 0.25 pps D29 celloflake
Hole Size 77/8 in	11-1- 4 1/-1	+ CemNet if needed
Lead Slurry 190 % Excess Cmt on Open		Mix Weight = 11.8 ppg,
Tail Slurry 90 % Excess Cmt on Open	Hole Ann Vol	Yield = 2.54 cuft/sx yield,
T.O.C. <u>SURFACE</u>		Mix Water = 14.71 gal/sx
		Tail Slurry:
		580 sx 50:50 POZ:Class H
		+ 5% D44 Salt (bwow) + 2% D20 Bentonite
		+ 0.4% D167 Fluid Loss Additive
	√	+ 0.4% D65 dispersant
Production Casing Shoe set at 6340' to 6390	O' MD RKB	+ CemNet if needed
TD of 7-7/8" hole at 6350' to 6400' MD RKB		Mix Weight = 14.2 ppg,
		Yield = 1.36 cuft/sx yield,
Production casing cement volumes will be adjus	sted based on	Mix Water = 6.32 gal/sx
open hole caliper log data if available.	ned based off	Ton of Tail Shuray at 4000 MD DKR
Sport fold damper log data if available.		
Schematic prepared by:	ä	Displacement: 2% KCL
Steven O. Moore, Drilling Engineer		or Fresh Water
04-December-2006		

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Frances Dr. Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	_
30-025- 38ない	62160	Vacuum; Glorieta	
Property Code	Proper	ty Name	Well Number
31257	VACUUM GLORIET	A EAST UNIT PH 4	27-024
OGRID No.		or Name	Elevation
217817	Conocol	PHILLIPS	3935'

Surface Location

	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
ł	K	27	17 S	35 E		1350	SOUTH	1875	WEST	LEA

Bottom Hole Location If Different From Surface

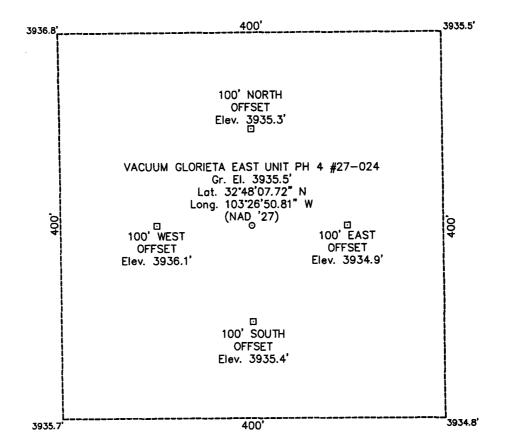
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres Joint or Infill Consolidation Code Order No.									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my threutedge and bettef, and that this ergunisation either owns a working interest or unlessed mineral interestin the land including the proposed bottom hale location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or werking interest, or to a voluntary pooling openement or a computery pooling order heretofore entered by the division.
		Celeste G. Dale Printed Name
		SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my belief.
Plane Coordinate X = 772,206.8 Y = 656,671.2 3936.83935.5'		November 15, 2006 Date of Survey LVA Signature & Seal of Professional Surveyor
3935.7° 3934.8°	NOTE: 1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.	W.O. Num. 2006-1176 Certificate No. MACON McDONALD 12185

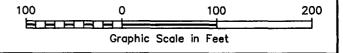
SECTION 27, TOWNSHIP 17 SOUTH, RANGE 35 EAST, N.M.P.M. **NEW MEXICO**





DRIVING DIRECTIONS

FROM THE INTERSECTION OF STATE HIGHWAY 8 AND COUNTY ROAD 50 IN BUCKEYE, NM GO EAST ON SAID COUNTY ROAD 50 3.3 MILES TO A LEASE ROAD ON NORTH (LEFT) SIDE OF SAID ROAD, THEN GO NORTH ON SAID LEASE ROAD 0.2 MILE TO A POINT APPROXIMATELY 200 FEET SOUTHWEST OF PROPOSED LOCATION.



CONOCOPHILLIPS

|VACUUM GLORIETA EAST UNIT PH 4 #27-024

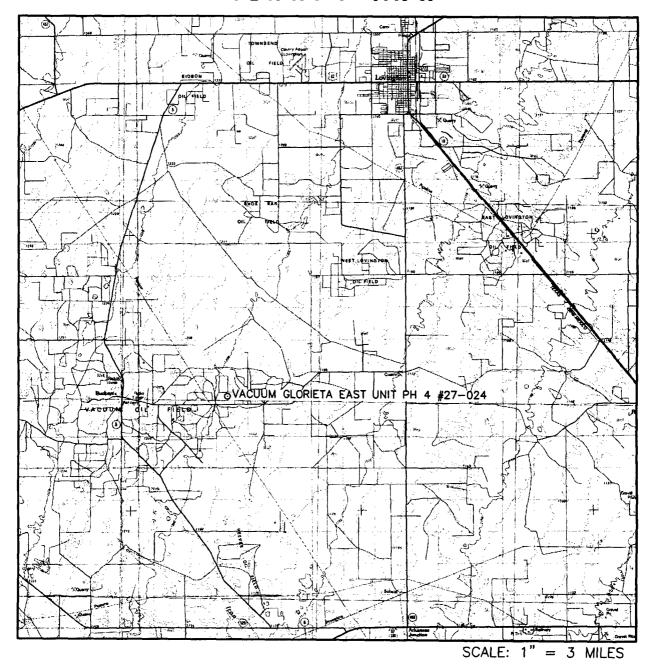
Located 1350' FSL & 1875' FWL, Section 27 Township 17 South, Range 35 East, N.M.P.M. Lea County, New Mexico



110 W. LOUISIANA, STE. 110 MIDLAND TEXAS, 79701 (432) 687-0865 - (432) 687-0868 FAX

Drawn By: LVA	Date: November 27, 2006
Scale: 1"=100'	Field Book: 331 / 38-39
Revision Date:	Quadrangle: Lovington SW
W.O. No: 2006-1176	Dwg. No.: L-2006-1176-A

VICINITY MAP

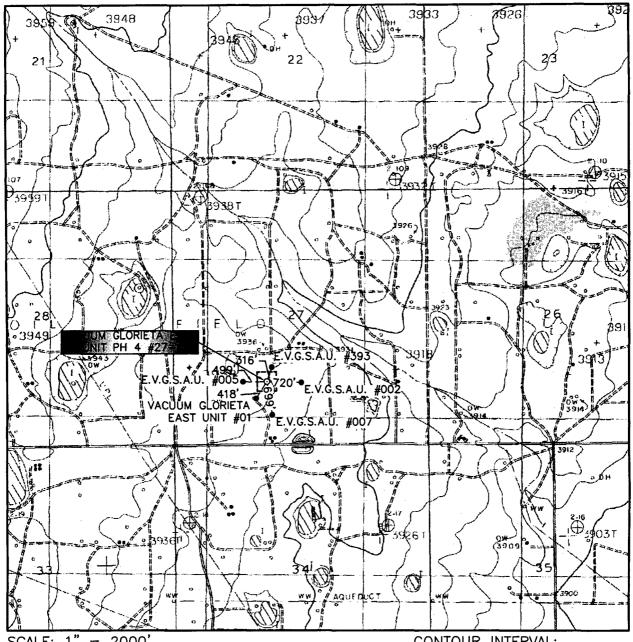


SEC. <u>27</u> TWP. <u>17-S</u> RGE. <u>35-E</u> SURVEY N.M.P.M. COUNTY LEA DESCRIPTION 1350' FSL & 1875' FWL ELEVATION 3935' OPERATOR CONOCOPHILLIPS LEASE VACUUM GLORIETA EAST UNIT PH 4



COMPANY 110 W. LOUISIANA, STE. 110 MIDLAND TEXAS, 79701 of Midland, Inc. (432) 687-0865 - (432) 687-0868 FAX

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

LOVINGTON SW, N.M.

CONTOUR INTERVAL: LOVINGTON SW - 5'

SEC. 27 TW	P. <u>17-S</u>	RGE.	_35	<u>-Е</u>	
SURVEY	N.M.I	⊃.M.			
COUNTY	LE	A			
DESCRIPTION		. & 18	375'	FWL	-
ELEVATION	393	35'			
OPERATOR	Conocc	PHILLI	PS		
LEASE VACUUM	GLORIETA	EAST U	JNIT	PH	4
U.S.G.S. TOPO				<u> </u>	



COMPANY

110 W. LOUISIANA, STE. 110

MIDLAND TEXAS, 79701

of Midland, Inc. (432) 687–0865 – (432) 687–0868 FAX