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

Form C-101 May 27, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office

☐ AMENDED REPORT

APPLICAT	IONFO	R PERMI'	<u>г то р</u>	RILL, RE-	ENTE	R, D	EEPE	N, PLUGBA				ZONE
ConocoPhillips Co				217817 ² OGRID Number								
ConocoPhillips Co 3300 N. "A" St., B		³ API Number 30 025-20869										
³ PropertyCode ⁵ Property					Name							
31257 Vacuum Glorieta East Unit (Tr					ract 44)	•				1		
Vacuum; Glorieta	°F	ProposedPool 1						¹⁰ Prop	osedPool 2	2		
<u> </u>		Locati	on									
UL or lot no. Section L 33	Township Range 17S 35E				om the			Feet from the 990	East/We West	stline	Lea	County
⁸ Proposed Bottom Hole Location If Different From Surface												
UL or lot no. Section 33	UL or lot no. Section Township Range			Lot Idn Feet from the 400			North/South line Feet from the North 1876			East/Westline County West Lea		
			Ac	ditional W		rmati	on					
" Work Type Code	Work Type Code O		ode	13 Cable/Rotary			14 Lease Type Code S			¹⁵ Ground Level Elevation 3940' GR		
¹⁶ Multiple		17 Proposed Dep	epth 18 Formation			¹⁹ Contractor			3,	20 Spud Date		
Depth to Groundwater	6086TVD ', MD			8064' Glorieta Distancefrom nearest fresh water wel				Distance from	Up n nearest su	Upon Approval arest surface water		
Pit: Liner: Synthetic	75' X 12 mil	sthick Clay	Pit Vol	ume:20910bls	>1000' >1000'						- 	
Closed-Loop System Fresh Water Brine Diesel/Ol-based Gas/Arts C												
21 2												
Hole Size	Hole Size Casing Size		Casing weight/foot		Setting Depth		Sacks of Cement		e inestimated Toc			
								11		BIVER S		
17-1/2"	13-3/8"		48#		355'		300sx	<u>qe</u>	Hopps)	27.2	
8-3/4"	9-5/8" 7" (liner)		36# 23#		3200' 3401		1530sx 750sx		HE HUGO		}	
6-3/4 / (IIIIer)			Σ3π		3401		73081		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		/	
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. Per the following Procedure, ConocoPhillips plans to drill a sidetrack within existing cased hole. KOP @ 6008', penetration (formation entry) point location - 1834' FSL & 1092' FWL Sec. 33, schematic attached. Set Cast Iron Bridge Plug in Vertical Wellbore -Set Whipstock above Cast Iron Bridge Plug -Mill a window in the 5-1/2" casing (window mill off the whipstock) -Directionally drill 4-3/4" horizontal lateral hole using 10 ppg brine or alternatively a 9 ppg brine or Calcium Carbonate Drill-In Fluid -Leave the horizontal lateral as an open hole - no casing to be run in it and no cementing in the horizontal lateralRecover the Whipstock -Drill out the Cast Iron Bridge Plug in the vertical wellbore and clean out the vertical wellbore as needed -Complete the well with the pump (either beam pump or Electrical Submersible Pump) in the vertical wellbore. Commingle the production from the perforations in the vertical wellbore and produce the horizontal lateral by itself as an option. DEEPEN Revenue description and produce the horizontal lateral by itself as an option.												
of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines, a general permit, or						Approved by:						
an (attached) alternative OCD-approved plan .						Slave,						
Printed name: Celeste G. Dale Cullific H. Wall						Title:						
Title: Regulatory Specialist						Approval Date: Expiration Date:						
E-mail Address: celeste.g.dale@conocophillips.com					1 29 394					**		
Date: 04/13/2007 Phone: (432)688-6884						Conditions of Approval Attached						

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

District IV

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATIONDIVISION

1220 South St. Francis 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 DEDORT

1220 S. St. Francis I	Dr., Santa F	e, NM 8750	5						→ AME	NDED K	SPUKI		
			WELL LO	CATIO	N AND ACR	EAGE DEDIC	ATION PLA	T					
¹ API Number			¹ Pool Code										
30-025-20869			621	.60	V	acuum; Glorieta							
Property Code				' Property Name							' Well Number		
31257	Vacuun	n Glorieta E	orieta East Unit (Tract 44)							1			
OGRID No. Operator Name							'Elevation						
217817		ConocoPhillips Company							3940' GR				
					10 Surface	Location							
UL or lot no.	Section	Township	Range Lot Idn			North/South line	Feet from the	East/West line			County		
L	33	17S	35E		1700	South	900	West		Lea			
			11 Bo	ottom Ho	le Location I	f Different From	n Surface						
UL or lot no.	Section	Township			Feet from the	North/South line		East	ast/West line		County		
С	33	17S	35E		400	North	1876	West		Lea			
" Dedicated Acres	Acres '' Joint or Infill		" Consolidation	solidation Code "Order No.									
200			_]									

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.

16	B.H.L.	*		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a
	<i>K</i> 1	`		working interest or unleased mineral interest in the land including the
1	′			proposed bottom hole location or has a right to drill this well at this location
	/			pursuant to a contract with an owner of such a mineral or working interest,
1	'			or to a voluntary pooling agreement or a compulsory pooling order
1		- (AVI 1876)		heretoforg entered by the division.
11 11	,	Herein Man	22	Signature Date 04/13/2007
	/ :	1/2 2 25	[July 20 1 1 1 1 1 1 1 1 1	,
		100 00 V	22	Celeste G. Dale
* /	•	2 0 g 0 3	25	Printed Name
	;	Wed Wed	24 25 26 25	
/	,	\$651-1806		¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat
1				was plotted from field notes of actual surveys made by
1	;			me or under my supervision, and that the same is true
S.L.				· -
5.11.				and correct to the best of my belief.
II I	`			
F	// // // // //			Date of Survey
				Signature and Seal of Professional Surveyor:
}}				
<u> </u>				
1				
 				
1				Certificate Number

Datum: RKB (12' above ground level) 11" 5M x 7 1/16" 5M Tubing Head 8-5/8" SOW x 11" 5M Casing Head 8-5/8" Surface Casing Window 5-1/2" Production Casing Horizontal Lateral **Tubing & Pump** Schematic prepared by: Jaime Avendano, Drilling Engineer Steve Moore, Drilling Engineer 12-April-2007

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.
 - o 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.
 - 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.