District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III

04/13/2007

Date:

Regulatory Specialist

E-mail Address: celeste.g.dale@conocophillips.com

Phone:

(432)688-6884

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

Form C-101 May 27, 2004

Oil Conservation Division

Submit to appropriate District Office

District IV	zos Road, A	Aztec,	NM 8	/410		1	220 So	outh St	Franc	cis Dr.				MEND.	ED DEDOD
1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa						util St. Francis Dr. ☐ AMENDED REPOR Fe, NM 87505					ED KEFOK				
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				¹ OperatorNam	e and Addi	ess	<u> </u>	<u> </u>	<u> </u>	19191 19	217817	² OC	GRID Numb	er	LONE
ConocoPhillips Company 3300 N. "A" St., Bldg. 6 Midland, TX 79705-5490								³ API Number							
³ Prope	³ Property Code ⁵ Property 1							30 025-20864 Name							
31257				Vacuum	Gloriet	a East 1	Unit (Ti	ract 17)					2		
	° Proposed Pool 1										¹⁰ P	roposedP	Pool 2		
Vacuum; C	florieta					7 a		-	•				7210 ¹⁴	। । । । । । । । । । । । । । । । । । । 	
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UL or lot no.	Section 31	17S	nship/	Range 35E	Loi	Idn	2080	om the	South	South line 1	Feet from the 660	e Eas	st/Westline	bea	County
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UL or lot no.	Section	Tow	nship	Range		Idn		om the		South line	Feet from the		st/Westling	80	County
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P "Work	Type Code		0	12 Well Type Co	ode	R	" Cabl	e/Rotary		s	⁴ Lease Type Code	\rightarrow	3818201 Gro	und Leyel	Elevation
	Iultiple			17 Proposed Dep				mation			19 Contractor		23/10-01	20 Spud I	Date
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	Synthetic		_	ilsthick Clay	∟ Pit Vo	lume <u>:20</u>	1910 _{bbls}			ingMetho			_		
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				۷.	Propo	sed C	asing a	nd Ce	ment	Progra	<u>m</u>		-		
Hole S	Hole Size Casing Size					Casing weight/foot Sett			Setting D	etting Depth Sacks of C		Cement	ement Estimated To		ted TOC
12 1111							<u> </u>								
12-1/4" 8-5/8" 7-7/8" 4-1/2"				9.5#			1550' 6500'		900sx						
7-776		4-1/			9.5#			0300			1600sx		Λης	vrova	1
									Pe	rmit E	xpires 1 Y	ear Fr	on Apr	av	•
22 Describe th	ne proposed	progr	am. If	this application i	s to DEEF	EN or PI	LUG BAC	CK, give	the data	of hate	sent productive zo	one and p	roposed nev	v produc	tive zone.
Describe the b	olowout pre owing Pro	ventio ocedi	n progi ire. C	ram, if any. Use	additional s nlans t	sheets if	necessary	y. ack of 1	200' 16	noth wi	thin existing o	eacad be	Ontal	@ 5 0′	20 🗸
', penetratio	n (format	tion e	entry)	point locatio	n - 1938	'FSL &	& 589' F	EL Se	200 ic	chemati	c attached.	aseu iii	ole. KOP	w 393	50 -
				ertical Wellb n Bridge Plug											
-Mill a wind	dow in the	e 5-1	/2" ca	asing (windov	v mill of	f the w	hipstoc	k)							
-Directional	lly drill 4 norizonta	-3/4" I late	horiz ral as	zontal lateral an open hole	hole usin	ng 10 p sing to	pg brin be run i	e or alt	ernativ Lno ce	ely a 9 p	opg brine or C in the horizon	'alcium	Carbonat	te Drill	l-In Fluid
-Recover the	e Whipst	ock								_			Jai.		
-Drill out th	e Cast Ire	on Bi vith tl	ridge . he pui	Plug in the ve mp (either be	ertical w	ellbore n or Fl	and cle	an out	the ver	rtical we	llbore as need n the vertical	led	ra Comm	oinglo :	tha
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the vertical	wellbore d to ame	and j	produ iginal	ice the horizo lly applied for	ntal late	ral by i n. dated	tself as	an opti /07	on.						
								707.		ОП С	ONGEDIA	A TELON	IDH IIG	10)1	
of my knowledge and belief. I further certify that the drilling pit will be								OIL CONSERVATION DIVISION							
	constructed according to NMOCD guidelines \square , a general permit \square , or an (attached) alternative OCD-approved plan \boxtimes .							Approved by:							
				1	/	1./	7			_(N	us Wa	lle	em		
Printed name:	rinted name: Celeste G. Dale (Illati Alla)							Title: OC DISTRICT SUPERVISOR/GENERAL MANAGER							

Approval Date:

MAY 2 3 2007

Conditions of Approval Attached Daniel Society

Expiration Date:

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

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

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

☐ AMENDED REPORT

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code 62160 Vacuum; Glorieta

API Number 30-025-20864 ' Property Name Property Code Well Number Vacuum Glorieta East Unit (Tract 17) 2 31257 OGRID No. **Operator Name** Elevation 3978' GR ConocoPhillips Company 217817

¹⁰ Surface Location

I 31 17S 35E 2080 South 660 East Lea	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	I	31	1 1/8			2080	South	660	East	Lea

11 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	Cou
K	32	17S	35E		1330	South	1380	West	Lea
12 Dedicated Acres	" Joint or	Infili "	Consolidation	Code " Or	der No.				
120									

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.

	T 71	רי יי		T. Company of the com
16	S. 31	S. 32		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to
		İ		the best of my knowledge and belief, and that this organization either owns a
				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,
				or to a voluntary pooling agreement or a compulsory pooling order
				heretofore entered by the division.
				/ weste A Nale 05/07/2007
				Signature Date
				Celeste G. Dale
				Printed Name
				5
	// //			
	*			¹⁸ SURVEYOR CERTIFICATION
	S T		·	I hereby certify that the well location shown on this plat
	S.L.			was plotted from field notes of actual surveys made by
	*		:	me or under my supervision, and that the same is true
				and correct to the best of my belief.
				and correct to the best of my being.
	*		B.H.L.	
	T'		''' '' ''' '''	Date of Survey
				Signature and Seal of Professional Surveyor:
				Certificate Number
				Command Number
L		A	· · · · · · · · · · · · · · · · · · ·	<u> </u>

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.
 - o 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.
 - 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.