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

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004



Oil Conservation Division

Submit to appropriate District Office

1220 South St. Francis Dr. Santa Fe, NM 87505 FEB 0 8 2008

☐ AMENDED REPORT

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

OCD-ARTESIA

APPL	ICATI	ON FO	R PERMIT	TO D	RILL, R	E-ENT	ER, DI	EEPE	<u>N, P</u>	<u>LUGBA</u>	CK, (OR AD	D A ZONE	
Operator Name and Address COG OPERATING LLC							² OGRID Number 299137							
550 W. Texas, Suite 1300							API Number							
Midland, TX 79701							30-015-30940							
3 Property Code 3 Property 23810 Amesquite						erty Name uite State	y Name e State 8 Well No							
			Proposed Pool 1			· · · · · · · · · · · · · · · · · · ·				10 Prop	osed Po	ol 2		
Empire; Glorieta-Yeso, East 96610														
⁷ Surface						ace Loca	tion				,			
UL or lot no E				Lot I	dn F	eet from the 1650	North/South line Feet from the North 990		East/West line West		County Eddy			
⁸ Proposed Bottom Hole Locat							ation If Different From Surface							
UL or lot no			Range	Lot Idn		eet from the	m the North/Sout		Feet from the		East/	West line	County	
Additional Well Information														
	Type Code		12 Well Type Cod	de 13 Cable/Rotary				¹⁴ Lease Type Code			15 Ground Level Elevation			
	D ultiple	<u> </u>	O 17 Proposed Depth		Rotary 18 Formation			S 19 Contractor					3642 KB 20 Spud Date	
	uitipie N		5425		Yeso			Contractor			As soon as approved			
Depth to Grou		•		Distanc	e from neare	st fresh water								
Pit Liner Syntheticmils thick Clay Pit Volumebbls Drilling Method														
Close	d-Loop Sys	tem 🗵								Brine D	iesel/Oil	-based	Gas/Air 🗌	
			21	Propos	sed Casii	ng and Co	ement	Progra	ım					
Hole Size Casing Size			l l	Casing weight/foot			Setting Depth Sa		Sacks of C	Sacks of Cement		Estimated TOC		
17-1/2 13-		3-3/8	48, 54			346			350) 				
<u> </u>		-5/8		24		802	· -	_	425					
7-7/8		5-1/2		15.5		4334		_	750					
4-3/4			4		11.3		5425			100	<u> </u>			
22 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														
See Attachment														
See Attachment														
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be							OIL CONSERVATION DIVISION							
constructed according to NMOCD guidelines, a general permit, or						Approved by: BRYAN G. ARRANT								
an (attached) alternative OCD-approved plan .							DISTRICT II GEOLOGIST							
Printed name Kanicia Carrillo						Title								
Title Regulatory Analyst						Аррго	Approval Date Expiration Date						2	
E-mail Address kcarrillo@conchoresources com							ν 4	-40 T 1	L ZU	40		# 65 P	701c	
Date 02/01/08 Phone 432-685-4332				Condi	Conditions of Approval Attached									

PROCEDURE

- 1. MIRU pulling unit. POOH laying down rods and pump. Send rods to ICO for inspection. Release TAC and NU BOP. Tag bottom and POOH laying down tubing (need 3-4 joints). Send tubing to Cottons Inspection.
- 2. PU workstring and TIH w/ bit and scraper. PU cement retainer and TIH.
- Pump through retainer and set @ 3800'. Pump 300 sx of Class C w/ 2% CaCl2 + 0.25 celloflake + 3 ppg LCM. Wash up lines and then hesitate down tubing. If no squeeze obtained, over displace 8-10 bbls and repeat.
- 4. Once squeeze is obtained sting out and reverse out tubing. POOH w/ setting tool.
- Wait on cement at least 12 hours.
- PU 4 3/4" workover bit, 20-3 1/2" DC's and 2 7/8" L80 workstring. Drill out shoe and 10' of new hole to 4350' circulating w/ 2% KCl.
- 7. POOH w/ workover bit. PU 4 3/4" PDC and motor.
- 8. Drill using varying weights and RPM's to optimize drill rate. TD 4 ¾" hole @ 5425'.
- 9. Log well according to geology and utilize caliper log for cement volume determinations.
- 10. TIH and circulate clean. POOH laying down drill string.
- 11 Run 4" 11.3# ULTFJ casing w/ float shoe and float collar. Locate positive stand off centralizers @ shoe, 5050', 4650' and 4250'. Run DV tool and set @ +/-4200.
- 12. Cement casing w/ 30% excess volume. Batch mix cement to ensure good cement throughout job. Make sure field blends are tested prior to pumping.
- 13 Drop DV plug and open stage tool. Circulate cement from top of DV tool out of hole.
- 14. Pickup 3 1/8" bit and 2 3/8" workstring w/ turned down collars. Drill out DV tool and chase to PBTD. POOH laying down workstring.
- 15 Prep well for Blinebry frac.

District 1

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

12 Dedicated Acres

40

¹³ Joint or Infill

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

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102 \rightarrow Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

☐ AMENDED REPORT

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number			² Pool Code			³ Pool Name						
30	40		96610		Empire; Glorieta-Yeso, East							
⁴ Property Code		⁵ Property Name								⁶ Well Number		
23810				8								
7 OGRID	No.			⁹ Elevation								
229137				3632								
					¹⁰ Surface	Location						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	t line	County		
E	20	17S	29E		1650	North	990		West Eddy			
	•		11 Bc	ottom Ho	le Location I	f Different From	n Surface					
UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/V	West line	County		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-

¹⁵ Order No.

14 Consolidation Code

STANDARD CIVIT HAS BEL	N APPROVED BY THE DIVISION
	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein
	is true and complete to the best of my knowledge and
1650'	belief
-	Line Can
	Signature
	Kanicia Carrillo
¹ ← → ∘ ¹	Printed Name
990'	Regulatory Analyst
	Title and E-mail Address
	02/07/08
+ +	Date
1-11	¹⁸ 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 supervision, and that the
	same is true and correct to the best of my belief
	Date of Survey
	Signature and Seal of Professional Surveyor
	Referred Original Survey
	Certificate Number