District 1 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

Date 04/11/08

Phone. 432-685-4332

State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

Oil Conservation Division

1220 South St. Francis Dr. APR 1 4 2008

☐ AMENDED REPORT

Submit to appropriate District Office

Santa Ea. NM 87505

APPL			м 87505 R PERMIT	TO DI		ENTER. I			D-ARTES PLUGBA		R ADD	A ZONE
~*				OGRID Number 299137 API Number								
	1.0-1-		Midland, T		N				30-015-3		NI -	
³ Prope 30	e State	Name e State 9 Well No					NO					
Proposed Pool 1 Empire; Glorieta-Yeso, East									10 Propo	osed Pool 2		***************************************
						Location						· · · · · · · · · · · · · · · · · · ·
UL or lot no			Lot I	dn Feet f	rom the North			eet from the	East/West line West		County Eddy	
			⁸ Propo	sed Botto	om Hole Loc	ation If Differ	ent Fro	m Surf	ace			
UL or lot no	Section	Township	Range Lot Id		dn Feet f	from the North	North/South line		eet from the	East/West line Cou		County
				Ad	ditional W	ell Informa	tion	I			1_	
11 Work Type Code D 12 Well Type Co				le	13 Cat	ole/Rotary Otary			ease Type Code S		¹⁵ Ground Level Elevation 3652	
	ultiple N		¹⁷ Proposed Dep 5425	th	nebry	¹⁹ Contractor		Α	20 Spud Date As soon as approved			
Depth to Grou				Distance	e from nearest fr				Distance from nearest surface water			
<u>Pit</u> Liner	Synthetic		nıls thick Clay	Pit V	olumebl	ols	Drilling <u>I</u>	Method [.]				
Closed-Loop System										as/Air 🔲		
			21	Propos	sed Casing	and Cemen	t Prog	gram				
Hole Size Casing Size		Casing weight/foot		Setting			Sacks of Ce	ment	Е	stimated TOC		
17-1/2		1	13-3/8		48		2		350			
12-1/4			8-5/8		24		5		425			
7-7/8		5-1/2		17		420	4267		945			
4-3/4		4		11.3		50:	5050		100			
2.		2-	7/8 tbg	8 tbg		46:	50					
		l program				. •	ata on th	ne preser	nt productive z	one and pro	oposed ne	w productive zone.
					See A	Attachment						
²³ I hereby cer	tify that the	e informatio	on given above is t	rue and co	mplete to the		OH	CON	ISERVAT	TON D	IVISIO)N
constructed a	according t	to NMOCD	urther certify that guidelines □, a proved plan □.			Approved by	Je d	m)	W.	G.	we s	711
Printed name Kanicia Carrillo						Title.		A.		Tople	w.	iel Fr
Title					Approval Da	4/22	3/68	Е	xpiration D	Date 4/	23/10	
E-mail Addre	E-mail Address kcarrillo@conchoresources com						1'	· / · ·		.		- ///
		· · · · · · · · · · · · · · · · · · ·										0.4

Conditions of Approval Attached

Mesquite State #9 1650 FNL & 990 FWL, Sec 20, T17S, R29E Eddy County, New Mexico API: 30-015-30941

PROCEDURE

- 1. MIRU pulling unit. POOH laying down rods and pump. Release TAC and NU BOP. Tag bottom and POOH laying down tubing (need 3-4 joints). Send rods and tubing to Artesia yard.
- 2. PU workstring and TIH w/ bit and scraper. PU cement retainer and TIH.
- 3. 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.
- 5. Wait on cement at least 12 hours.
- 6. PU 4 ¾" workover bit, 20-3 ½" DC's and 2 7/8" L80 workstring. Drill out squeeze and test to 500 psi. If squeeze does not hold, notify engineer. Drill out shoe and 10' of new hole to 4296' circulating w/ 2% KCl.
- 7. POOH w/ workover bit. PU 4 3/4" PDC, 14 additional 3 1/2" DC's and motor.
- 8. Drill using varying weights and RPM's to optimize drill rate. TD 4 3/4" 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 4300'. Run DV tool and set no deeper than 4270'.
- 12. Cement casing w/ 50% 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 5/16" 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.

<u>District I</u>

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 CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

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

API Number	² Pool Code	³ Pool Name
30-015-30941	96610	Empire; Glorieta-Yeso, East
⁴ Property Code	⁵ Property N	ame 6 Well Numbe
302527	Mesquite S	State 9
⁷ OGRID No.	⁸ Operator N	ame Selevation
229137	COG OPERATI	ING LLC 3652

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	20	17S	29E		890	North	480	West	Eddy

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	County
12 Dedicated Acres	s ¹³ Joint or	r Infill	onsolidation Co	ode 15 Orde	er No.			L	, <u>, , , , , , , , , , , , , , , , , , </u>

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

. 31	ANDARD UNIT HAS BEEN	ALL KOVED BY THE L	
i c			17 OPERATOR CERTIFICATION I hereby certify that the information contained herein
890,			is true and complete to the best of my knowledge and
			belief.
! ←→ °			V C.
480'.			Signature
-+			Kanicia Carrillo
,			Printed Name
			Regulatory Analyst
			Title and E-mail Address
			04/11/08
	·		Date
		•	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
			Referred Original Plat Date of Survey
			Signature and Seal of Professional Surveyor.
			Referred Original Survey
			Certificate Number