State of New Mexico

Form C-101 Permit 59618

Energy, Minerals and Natural Resources

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

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

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1.	Operator Name and Address	2. OGRID Number						
C	229137							
ħ	550 W TEXAS MIDLAND , TX 79701	3. API Number						
·	MIDLAND, TA 19701	30-015-35765						
4. Property Code	5. Property Name	6. Well No.						
302526	MESILLA STATE	007						

7. Surface Location

UL - Lo	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	16	17S	30E	D	990	N	915	W	EDDY

8. Pool Information

	'A-YESO 96718
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Additional Well Information

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9. Work Type New Well	10. Well Type OIL		11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3688
14. Mültiple	15. Proposed Depth		16. Formation	17. Contractor	18. Spud Date
N	5	900	Yeso Formation		10/15/2007
Depth to Ground v	vater		Distance from nearest fresh water w	ell	Distance to nearest surface water
150			> 1000		> 1000
<u>it:</u> Liner: Synthetic 🔀	12	mils thick	Clay Pit Volume: 5000 bbls 1	Drilling Method:	
Closed Loop System	1			Fresh Water Brine	Diesel/Oil-based 🗌 Gas/Air 🗙

19. Proposed Casing and Cement Program

					-	
Туре	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	425	450	0
Int1	12.25	8.625	32	1225	850	0
Prod	7.875	5.5	17	5900	1000	0

Casing/Cement Program: Additional Comments

COG proposes to drill 17-1/2 hole to 425' w/fr water mud system, wt 8.5, vis 28. Run 13-3/8 csg & cmt. Drill 12-1/4 hole to 1225' w/brine mud system, wt 10, vis 30. Run 8-5/8 csg & cmt. Drill 7-7/8 hole to 5900' w/cut brine mud system, wt 9.1, vis 29-32. Test Yeso formation. Run 5-1/2 csg & cmt. Note: On production string, a caliper will be run, & COG will attempt to circulate cement.

Proposed Blowout Prevention Program

Туре	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

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 constructed according to	OIL CONSERVATION DIVISION				
NMOCD guidelines \overline{X} , a general permit $\overline{\Box}$, or an (attached) alternative OCD-approved plan $\overline{\Box}$.	Approved By: Bryan Arrant				
Printed Name: Electronically filed by Diane Kuykendall	Title: Geologist				
Title: Regulatory Analyst	Approved Date: 8/22/2007 Expiration Date: 8/22/2008				
Email Address: dkuykendall@conchoresources.com					
Date: 8/21/2007 Phone: 432-685-4372	Conditions of Approval Attached				

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(505) 393-6161 Fax:(505) 393-0720

District II

1301 W. Grand Ave., Artesia, NM 88210 Phone:(505) 748-1283 Fax:(505) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico

Form C-102 Permit 59618

Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr.

Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

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1. API Number	2. Pool Code	3. Pool Name			
30-015-35765	96718	LOCO HILLS; GLORIETA-YESO			
4. Property Code	5. Property	Name 6. Well No.			
302526	MESILLA:	STATE 007			
7. OGRID No.	8. Operator	Name 9. Elevation			
229137	COG OPERA?	TING LLC 3688			

10. Surface Location

										_
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	1
D	16	17S	30E		990	N	915	w	EDDY	ı

11. Bottom Hole Location If Different From Surface

				. 20000								
UL - Lot	Section	To	wnship	Range	Lot	Idn	Feet From	N/S L	ine	Feet From	E/W Line	County
000000000000000000000000000000000000000	cated Acres		13. J	oint or Infill		14	. Consolidation (Code				

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

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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 working interest or unleased mineral interest in the land including the proposed bottom hole location(s) 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.

E-Signed By: Diane Kuykendall Title: Regulatory Analyst

Date: 8/21/2007

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.

Surveyed By: Ronald Eidson Date of Survey: 8/1/2007 Certificate Number: 3239

Permit Comments

Operator: COG OPERATING LLC , 229137 Well: MESILLA STATE #007

API: 30-015-35765

Created By	Comment	Comment Date
PEDWARDS	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not requred.	8/21/2007

Permit Conditions of Approval

Operator: COG OPERATING LLC , 229137 Well: MESILLA STATE #007

30-015-35765 API:

OCD Reviewer	Condition
BArrant	Pit construction and closure must satisfy all requirements of your approved plan, O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines
BArrant	As noted, operator to drill surface hole wyfresh water mud.