

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., 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 and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
Permit 1499

APPLICATION FOR PERMIT TO DRILL

Operator Name and Address COG OPERATING LLC 550 W Texas Midland, TX 79701		OGRID Number 229137
		API Number 30-025-36871
Property Code 34284	Property Name RED RAIDER STATE	Well No. 001

Surface Location

UL or Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
K	19	20S	36E	K	1650	S	1980	W	Lea

Proposed Pools

OSUDO;MORROW, NORTH (GAS) 82160

Work Type New Well	Well Type GAS	Cable/Rotary	Lease Type State	Ground Level Elevation 3643
Multiple N	Proposed Depth 12000	Formation Morrow	Contractor	Spud Date

Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	500	500	0
Int1	12.25	9.625	40	5400	1500	0
Prod	8.75	5.5	17	12000	600	8000

Casing/Cement Program: Additional Comments

No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. 13-3/8 500sx C1 C+add, circ to surf. 9-5/8 1300sx 50/50 Poz lead, 200sx C1 C tail, circ to surf. 5-1/2 600sx C1 H+add.TOC +/-8000. 17-1/2 hole to be drilled w/fr water, 12-1/4 hole to be drilled w/ fr water/brine & starch to protect water sands. 8-3/4 hole to be drilled w/ cut brine.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	2500	
Double Ram	5000	4000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Electronically Signed By: Erick Nelson

Title: Manager

Date: 09/14/2004

Phone: 432-683-7443

OIL CONSERVATION DIVISION

Electronically Approved By: Paul Kautz

Title: Geologist

Approval Date: 09/15/2004

Expiration Date: 09/15/2005

Conditions of Approval:

There are conditions. See Attached.