

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 8104

APPLICATION FOR PERMIT TO DRILL

Operator Name and Address CHESAPEAKE OPERATING, INC. PO Box 11050 Midland, TX 79702-8050		OGRID Number 147179
		API Number 30-025-37129
Property Code 34679	Property Name KF 4 STATE	Well No. 001

Surface Location

UL or Lot X	Section 4	Township 21S	Range 35E	Lot Idn	Feet From 660	N/S Line S	Feet From 990	E/W Line E	County Lea
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Proposed Pools

OSUDO;MORROW, SOUTH (GAS) 82200

Work Type New Well	Well Type GAS	Cable/Rotary	Lease Type State	Ground Level Elevation 3621
Multiple N	Proposed Depth 12100	Formation Morrow	Contractor	Spud Date 03/18/2005

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	450	500	0
Int1	12.25	9.625	40	5350	1300	0
Prod	8.75	5.5	17	12100	1350	4000

Casing/Cement Program: Additional Comments

13 3/8 csg: Lead 295 sx 35:65 Poz C + additives, Tail 205 sx C1 C + additives, circ to surface; 9 5/8 cmt: 1,150 sx 50:50 Poz C1 C + additives, Tail 150 sx C1 C + additives circ. to surface; 5 1/2 Prod Csg. 1st Stage Lead 275 sx 50:50 Poz C1 H + additives, 1st Stage Tail 470 sx 50:50 Poz C1 H + additives; 2nd stage 555 sx 50:50 Poz C1 H + additives, 2nd stage Tail 50 sx 50:50 Poz C1 H + additives.
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Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	
Double Ram	5000	5000	

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

Electronically Signed By: Brenda Coffman

Title: Regulatory Analyst

Date: 03/10/2005

Phone: 432-685-4310

OIL CONSERVATION DIVISION

Electronically Approved By: Paul Kautz

Title: Geologist

Approval Date: 03/11/2005

Expiration Date: 03/11/2006

Conditions of Approval:

There are conditions. See Attached.