

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

**Proposed Pools**

OSUDO;MORROW, SOUTH (GAS) 82200

Well 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
Intl	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 Cl. C + additives, circ to surface; 9 5/8 cmt: 1,150 sx 50:50 Poz Cl. C + additives, Tail 150 sx Cl. C + additives circ. to surface; 5 1/2 Prod Csg. 1st Stage Lead 275 sx 50:50 Poz Cl. H + additives, 1st Stage Tail 470 sx 50:50 Poz Cl. H + additives; 2nd stage 555 sx 50:50 Poz Cl. H + additives, 2nd stage Tail 50 sx 50:50 Poz Cl. H + additives.

**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.

Samson Resources Co. EX **I**  
NMOCD Case No. 13492

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Form C-102  
Permit 8104

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number 30-025-37129	Pool Name OSUDO;MORROW, SOUTH (GAS)	Pool Code 82200
Property Code 34679	Property Name KF 4 STATE	Well No. 001
OGRID No. 147179	Operator Name CHESAPEAKE OPERATING, INC.	Elevation 3621

**Surface And Bottom Hole Location**

UL or Lot X	Section 4	Township 21S	Range 35E	Lot kth	Feet From 660	N/S Line S	Feet From 990	E/W Line E	County Lea
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

<b>OPERATOR CERTIFICATION</b>	<b>SURVEYOR CERTIFICATION</b>
<i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>	<i>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.</i>
Electronically Signed By: Brenda Coffman Regulatory Analyst Date: 03/10/2005	Electronically Signed By: Gary L Jones Date of Survey: 03/10/2005 Certificate Number: 7977

# Permit Conditions Of Approval

C-101, Permit 8104

Operator: CHESAPEAKE OPERATING, INC. , 147179

Well: KF 4 STATE #001

OCD Reviewer	Condition
PKAUTZ	Re-seeding mixture will must be approved or authorized by surface owner
PKAUTZ	Notice is to be given to the OCD prior to construction of the pit(s)
PKAUTZ	Pit construction and closure must satisfy all requirements of O.C.D. Rule 19.15.2.50, and the Pit and Below-Grade Tank Guidelines