

State of New Mexico
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

1. Operator Name and Address CHESAPEAKE OPERATING, INC. P. O. BOX 18496 OKLAHOMA CITY, OK 731540496		2. OGRID Number 147179
		3. API Number 30-015-35352
4. Property Code 33998	5. Property Name ESPERANZA 4	6. Well No. 008

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
K	4	22S	27E	K	1980	S	2310	W	EDDY

8. Pool Information

ESPERANZA,DELAWARE	22640
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Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type Private	13. Ground Level Elevation 3119
14. Multiple N	15. Proposed Depth 5300	16. Formation Bone Spring	17. Contractor	18. Spud Date 1/30/2006
Depth to Ground water 100		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 _____ mils thick Clay <input type="checkbox"/> Pit Volume: 12129 bbls Drilling Method: Closed Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input checked="" type="checkbox"/>				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	11	8.625	24	400	160	0
Prod	7.875	5.5	15.5	5300	910	0

Casing/Cement Program: Additional Comments

8 5/8" surface csg. 160 sx Cl. C + 2% CaCl₂ 1.35 yield; 5 1/2" csg. 180 sx 35.65 Poz.C + 2% NaCl + 5 pps LCM + 6% gel 2.40 yield;
Tail: 730 sx Class C + 5% NaCl + 5 pps LCM + 1.5% FLA 14.1 ppg 1.26 yield

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	
DoubleRam	3000	3000	

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 NMOCD guidelines <input checked="" type="checkbox"/> a general permit <input type="checkbox"/> or an (attached) alternative OCD-approved plan <input type="checkbox"/>.	OIL CONSERVATION DIVISION
Printed Name: Electronically filed by Brenda Coffman	Approved By: Bryan Arrant
Title: Regulatory Analyst	Title: Geologist
Email Address: bcoffman@chkenenergy.com	Approved Date: 1/12/2007 Expiration Date: 1/12/2008
Date: 1/3/2007 Phone: 432-685-4310	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

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Santa Fe, NM 87505

Form C-102
 Permit 44162

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-35352	2. Pool Code 22640	3. Pool Name ESPERANZA,DELAWARE
4. Property Code 33998	5. Property Name ESPERANZA 4	6. Well No. 008
7. OGRID No. 147179	8. Operator Name CHESAPEAKE OPERATING, INC.	9. Elevation 3119

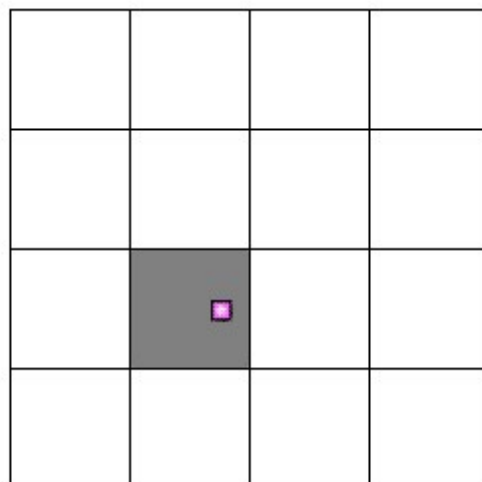
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
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11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
12. Dedicated Acres 40.00		13. Joint or Infill		14. Consolidation Code		15. Order No.			

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



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: Brenda Coffman
 Title: Regulatory Analyst
 Date: 1/3/2007

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: Gary Eidson
 Date of Survey: 10/19/2006
 Certificate Number: 12641

Permit Conditions of Approval

Operator: CHESAPEAKE OPERATING, INC. , 147179

Well: ESPERANZA 4 #008

API: 30-015-35352

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	Operator to set surface casing above the Salado formation, Please refer to offset geology for more information.
BArrant	Please notify OCD time of spud and time to witness the cementing to surface of all strings of casing.
BArrant	As noted, operator to drill surface hole with fresh water mud.