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Form 3160-3 April 2004)			FORM APPROVED OMB No. 1004-0137			
UNITED STATES DEPARTMENT OF THE	Expires March 31, 2007 5. Lease Serial No. NMLC 71949 LCO 71949					
BUREAU OF LAND MAN APPLICATION FOR PERMIT TO	6. If Indian, Allotee or Tribe Name					
la. Type of work: 🔽 DRILL 🗌 REENTI	ER			7 If Unit or CA Agre	7 If Unit or CA Agreement, Name and No.	
lb. Type of Well: ✓Oil Well Gas Well Other Single Zone Multiple Zone			8. Lease Name and Well No. (35730) Keller 27 Federal 7		35 1307	
2. Name of Operator CHESAPEAKE OPERATING, INC. ATTN: LINDA GOOD			9. API Well No. 30-025-38359		359	
3a. Address P.O. BOX 18496, OKLAHOMA CITY, OK 3b. Phone No. (include area code) 73154-0496 405-767-4275			10. Field and Pool, or Exploratory Antelope Ridge West			
4. Location of Well (Report location clearly and in accordance with an	I	· · · · · · · · · · · · · · · · · · ·		11. Sec., T. R. M. or B		vey or Area
At surface 498 FSL & 1807 FWL, SESW At proposed prod. zone SAME CAPITAN CONTROLLED WATER BASIN			27-23S-34E			
 Distance in miles and direction from nearest town or post office* 18 MILES NW OF JAL, NEW MEXICO 	nearest town or post office*		12. County or Parish Lea County		13. State NM	
15 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. c			ng Unit dedicated to this	well	
18. Distance from proposed location*	19. Prope	osed Depth	20. BLM/	/BIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft.	8800		NM2	2634		
 Elevations (Show whether DF, KDB, RT, GL, etc.) GR 3468 EST. / KB 3486 EST. 	22. Approximate date work will start*			23. Estimated duration		
	24. At	tachments				
 Che following, completed in accordance with the requirements of Onsho Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 		 Bond to cover the ltem 20 above). Operator certified 	he operation specific inf	his form: ons unless covered by an formation and/or plans as	C	·
25. Signature	Signature Name (Printed/Typed) Henry Hood			Date	12/06	
Citle Sr. Vice President - Land & Legal & General Co	ounsel					
Approved by (Signature) /s/ James Stovall		me (Printed Typed)	Stova	all	Date JAI	N 1 2 2007
FIELD MANAGER	Of	CARLSBA		ELD OFFICE		
application approval does not warrant or certify that the applicant hole appluct operations thereon. Conditions of approval, if any, are attached.	ds legalore	quitable title to those righ		bject lease which would e PROVAL FC		
File 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c states any false, fictitious or fraudulent statements or representations as	crime for an to any matt	y person knowingly and yer within its jurisdiction.	willfully to	make to any department of	or agency c	of the United

*(Instructions on page 2)

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SEE ATTACHED FOR CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

State of New Mexico DISTRICT I Energy, Minerals and Natural Resources Department 1625 N. FRENCH DR., HOBBS, NM 86246 Form C-102 Revised October 12, 2005 DISTRICT II Submit to Appropriate District Office OIL CONSERVATION DIVISION 1301 W. GRAND AVENUE, ARTESIA, NM 88210 State Lease - 4 Copies 1220 SOUTH ST. FRANCIS DR. Fee Lease - 3 Copies DISTRICT. III Santa Fe, New Mexico 87505 1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT **AMENDED REPORT** 1220 S. ST. FRANCES BR., SANTA PR. HM 87505 Pool Code **API** Number Pool Name <u> 30-025-3835</u> Bone Spring 2209 West ∞ Well Number **Property** Code **Property Name** 7 35730 **KELLER 27 FEDERAL Operator** Name Elevation OGRID No. 47179 CHESAPEAKE OPERATING, INC. 3463 Surface Location UL or lot No. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County Range N 27 23-S 34-E 498 SOUTH 1807 WEST LEA **Bottom Hole Location If Different From Surface** Section Township Lot Idn Feet from the North/South line Feet from the East/West line County UL or lot No. Range Joint or Infill **Consolidation** Code Order No. **Dedicated** Acres 40 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 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 or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a wuluntary pooling argement or a or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. nda annerd 10-26-0 nature Date ownsend <u>bynda</u> Printed Name 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. GEODETIC COORDINATES NAD 27 NME Y=462888.1 N X=769896.2 E OCTOBER 06, 2006 Date Surveyed LAT.=32.269577" N Date Survey Signature & Seal of Professional Surveyor JMD LONG.=103.460136° W Q. IN MEYO 3466.1 465.8 10/19/06 600 06.11.1466 -1807 g Certificate No. GARY ERSON 12641 Mining Profession C: 3460.5 3461.4

EXHIBIT A-1

Chesapeake Operating Inc. Keller 27 Federal 7 498 FSL & 1807 FWL SESW of Section 27-23S-34E Lea County, NM

#24 Attachment to Application for Permit to Drill or Re-enter

Chesapeake Operating, Inc. respectfully requests permission to drill a well to 8800' to test the Bone Spring formation. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and New Mexico Oil Conservation Division requirements.

Please find the Surface Use Plan and Drilling Plan as required by Onshore Order No. 1.

Attached are the Exhibit A-1 to A-4 Survey plats, Exhibit B 1 mile radius plat, Exhibit C Production facility, Exhibit D Forester rig #15 plat, Exhibit E Arch. Survey and Exhibit F-1 to F-2 BOP & Choke Manifold.

Chesapeake Operating, Inc. has an agreement with the grazing lessee.

Please be advised that Chesapeake Operating, Inc. is considered to be the Operator of the above mentioned well. Chesapeake Operating, Inc. agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

BLOWOUT PREVENTOR SCHEMATIC CHESAPEAKE OPERATING INC

WELL : Keller 27 Federal 7

RIG : Forster Rig 15

COUNTY : Lea

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STATE: New Mexico

OPERATION: Drill out below 13-3/8" Casing

A 11" 500 psi Rot Head B 11" 5000 psi Pipe Rams D 11" 5000 psi Pipe Rams D 11" 5000 psi Mud Cross D 13-5/6" 3M × 11" 5M A-Sse 13-5/6" 3M × 11" 5M A-Sse 13-5/6" 3M × 11" 5M Kill Line C Kill Line C SZE PRESSURE DESCRIPTION 2' 5000 psi Check Valve		SIZE	PRESSURE	DESCRIPTION				
B 111 5000 psi Annular C 111 5000 psi Blind Rams E 111 5000 psi Mud Cross D 111 5000 psi Mud Cross D D D D D DSA 13-5/8" 3M x 11" 5M Asse D Asse 13-5/8" 3M x 13-5/8" 3M D D B U U U Asse DSA 13-5/8" 50W x 13-5/8" 3M D D B U U D A B U U D A B U U D A B U U U A C U U D C C U U D D C U U D D C U U D D Kill Line D Size PRESSUR	A							
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SIZE PRESSURE DESCRIPTION SIZE PRESSURE DESCRIP 2" 5000 psi Check Valve 4" 5000 psi Gate Valve 2" 5000 psi Gate Valve 4" 5000 psi HCR Valve	~			c D				
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2" SUUU psi Gate Valve EXHIBIT_F-1	_	····				4"	5000 psi	HCR Valve
		2"	5000 psi	Gate Valve	EXHIBIT 6_1	ļ	ļ	***

BLOWOUT	PREVEN	TOR SO	CHEMA	TIC
CHES	APEAKE OP	ERATIN	G INC	

WELL : Keller 27 Federal 7

RIG Forster Rig 15

COUNTY : Lea

STATE: New Mexico

OPERATION: Drill out below 8-5/8" Casing



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Well Name & No.	Keller 27 Federal # 7
Operator's Name:	Chesapeake Operating Inc.
Location:	498'FSL, 1807'FWL, SEC27, T23S, R34E, Lea County, NM
Lease:	LC-071949

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822 for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

A. Spudding

B. Cementing casing: 13.375 inch 8.625 inch 5.5 inch

C. BOP tests

2. A Hydrogen Sulfide (H2S) Drilling Plan should be activated prior to drilling into the <u>Cherry Canyon</u> Formation. A copy of the plan shall be posted at the drilling site.

3 Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

4. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.

5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

6. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

7. Gamma-Ray/Neutron logs shall be run from the base of the Salado Formation to the surface; cable speed not to exceed 30 feet per minute.

II. CASING:

1. The <u>13.375</u> inch surface casing shall be set <u>@ APPROXIMATELY 575</u> FEET, below usable water and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. The minimum required fill of cement behind the <u>8 5/8</u> inch salt protection casing is <u>CIRCULATE</u> <u>CEMENT TO THE SURFACE.</u>

3. The minimum required fill of cement behind the <u>5-1/2</u> inch production casing is <u>cement shall</u> <u>CIRCULATE TO at least 200 feet above the shoe of the 8 5/8 inch intermediate casing</u>.

5. Whenever a casing string is cemented in the R-111-P Potash Area, cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating tests.

III. PRESSURE CONTROL:

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the <u>13.375</u> inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) is 2000 psi.

- 3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- A variance to test the ______ to the reduced pressure of ____psi with the rig pumps is approved.
- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.

IV. MUD

1. Fresh water based mud will be used to drill the surface well bore and down to the top of the Rustler @ approximately 1000 feet.

Engineers can be reached at 505-706-2779 for any variances that might be necessary.

F Wright 1/3/07

DistrictII Energy N T301 W. Grand Avenue, Artesia, NM 88210 DistrictIII 1000 Rio Brazos Road, Aztec, NM 87410 Oil DistrictIV 1222	State of New Mexico Iineralsand Natural Resources ConservationDivision 0 South St. Francis Dr. Santa Fe, NM 87505	Form C-144 June 1, 2004 For drilling and production facilities, submit to appropriate NMOCD District Office. For downstream facilities, submit to Santa Fc office			
Pit or Below-Grade Tank Registration or Closure Is pit or below-grade tank covered by a "general plan"? Yes No No Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank C					
Address: 2010 Rankin Hiway Midland, TX 79701 Facility or well name: Keller 27 Federal API# 30	ne: (432)687-2992 e-mail address; bco 025-38359 U/lor Qtr/Qtr_N_Sec_ NAD: 1927[] 1983[] S				
Pit Type: Drilling X Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined X Unlined ☐ Liner type: Synthetic X Thicknessmil Clay ☐ Pit Volume 12129 bbl	Below-gradetank Volume: bbl Construction material: Double-walled, with leak detection? Yes				
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)			
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points)			
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) ///			
If this is a pit closure: (1) attacha diagram of the facility showing the pit' your are burying in place) onsite offsite If offsite, name of facility_ remediationstart date and end date. (4) Groundwaterencountered: No Attach soil sample results and a diagram of sample locations and excavatio AdditionalComments:	(3) Attach a Yes 🗌 If yes, show depth below groundsur	general description of remedial action taken including			

I hereby certify that the informationabove is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-gradetank has been/will be constructed or closed according to NMOCD guidelines, a general permit , or an (attached) alternativeOCD-approved plan . Date: 03/22/2007

Coffman Printed Name/Title Brenda Coffman Sr. Regulatory Comp. Specialshature

Your certification and NMOCD approval of this application/closurcdoes not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Approval: Printed Name/Title CHK15 WILLIAAS # /DIST. Signature Chine Collins

Date: 3/22/07

