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AUG UZ ZUIU UNITED	STATES E THE INTERIOR		ily 31, 2010
HOBBSOCBUREAU OF LANI	D MANAGEMENT	5 Lease Serial No	
APPLICATION FOR PERMI		NMNM120357 6 If Indian, Allottee or T	riba Mama
	TTO DRILL OR REENTER	6 II motan, Anotee of F	ribe Name
la Type of Work 🛛 DRILL 🗖 REENTER	CONFIDENTIAL	7 If Unit or CA Agreeme	ent, Name and No
16 Type of Well 🙀 Oil Well 🗖 Gas Well 🗂	Other Single Zone Multiple Zone	8 Lease Name and Well NEREID 1 FEDERAI	No (3827)
		9 API Well No	
3a. Address	3b Phone No (include area code)	30-005- 10 Field and Pool/or Ex	24145
P O BOX 18496 OKLAHOMA CITY, OK 73154-0496	Ph: 405-935-4275 (Fx: 405-849-4275	WILDCAT, WOLFO	
Location of Well (Report Tocation clearly and in acco		11 Sec, T., R, M, or BI	k and Survey or A
At surface SESE-660FSL 100FEL At proposed prod zone SWSW 660 FSL 330		Sec 1 T15S R31E SME. BLM	Mer NMP
14 Distance in miles and direction from nearest town or po 15.5 MILES NORTH OF MALJAMAR, NEW N	ost office*	12 County or Parish CHAVES	
5. Distance from proposed location to nearest property or		17. Spacing Unit dedicate	
lease line, ft (Also to nearest drig unit line, if any)	641.44	160.00	
8 Distance from proposed location to nearest well, drillin, completed, applied for, on this lease, ft		20 BLM/BIA Bond No	on file
	13601 MD 8849 TVD		
21 Elevations (Show whether DF, KB, RT, GL, etc	22 Approximate data work will the	23 Estimated duration	
4367 GL	22 Approximate date work will start	23 Estimated duration	
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	DISTRICT II 1301 W GRAND AVENU DISTRICT III 1000 RIO BRAZOS I	-		OIL	11885 8		T. FR.	DN DIVISI ANCIS DR. co 87505	ON	Submit to Appr	ista October 12, 2003 opriate District Office State Lease - 4 Copies Fee Lease - 3 Copies
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Penetration Point 660' FSL & 348' FEL

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EXHIBIT A-1

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Additional Operator Remarks:

Chesapcake Operating, Inc., respectfully, requests permission to drill a well to 13,601' to test the Wolfcamp 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 Program 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 Cactus Rig #120, Exhibit F-1 TO F-2 BOP & Choke Manifold, Exhibit G Directional Drill Plan and H2S Contingency Plan.

Exhibit E Archaeological Survey will be delivered to the BLM when completed.

Chesapeake Operating, Inc. has an agreement with the surface owner.

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.

(CHK PN 632183)

RECEIVED

CONFIDENTIAL – TIGHT HOLE Lease Contract No. NMNM120357

DRILLING PROGRAM

AUG 0 2 2010

Page 1

ONSHORE OIL & GAS ORDER NO. 1 Approval of Operations on Onshore Federal and Indian Oil and Gas Leases

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (CFR 43, Part 3160) and the approved Application for Permit to Drill. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling and completion operations.

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease, which would entitle the applicant to conduct operations thereon.

1. FORMATION TOPS

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The estimated tops of important geologic markers are as follows:

•		0	
FORMATION		SUB-SEA	KBTVD
Rustler		2964	1421
Yates		1901	2484
Queen		1095	3290
Abo Shale		-3,232'	7,617'
Abo Shale	,	-3,232'	7,617'
Wolfcamp		-4,504'	8,889'
TOTAL DEPTH	13,474'		

2. <u>ESTIMATED DEPTH OF WATER, OIL, GAS & OTHER MINERAL BEARING</u> FORMATIONS

The estimated depths at which the top and bottom of the anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	Depth
Oil/Gas	Queen	3290
Oil/Gas	Wolfcamp	8889

All shows of fresh water and minerals will be reported and protected.

CONFIDENTIAL – TIGHT HOLE Lease Contract No. NMNM120357

DRILLING PROGRAM

Page 2

3. BOP EQUIPMENT:

Will have a 13-5/8" 5000 psi rig stack (see proposed schematic) for drill out below surface casing; this system will be tested to 5000 psi working pressure and 3500 psi working pressure for the annular preventer.

Chesapeake Operating, Inc.'s minimum specifications for pressure control equipment are as follows:

- I. BOP, Annular, Choke Manifold, Pressure Test See Exhibit F-1 and F-3
 - A. Equipment
 - 1. The equipment to be tested includes all of the following that is installed on the well:
 - (a) Ram-type and annular preventers,
 - (b) Choke manifolds and valves,
 - (c) Kill lines and valves, and
 - (d) Upper and lower kelly cock valves, inside BOP's and safety valves.
 - B. Test Frequency
 - 1. All tests should be performed with clear water,
 - (a) when installed,
 - (b) before drilling out each casing string,
 - (c) at any time that there is a repair requiring a pressure seal to be broken in the assembly, and
 - (d) at least once every 30 days while drilling.
 - C. Test Pressure
 - In some drilling operations, the pressures to be used for low and high-pressure testing of preventers and casing may be different from those given below due to governmental regulations, or approved local practices.
 - 2. If an individual component does not test at the low pressure, **do not**, test to the high pressure and then drop back down to the low pressure.
 - 3. All valves located downstream of a valve being tested must be placed in the open position.
 - 4. All equipment will be tested with an initial "low pressure" test at 250 psi.
 - 5. The subsequent "high pressure" test will be conducted at the rated working pressure of the equipment for all equipment except the annular preventer.
 - 6. The "high pressure" test for the annular preventer will be conducted at 70% of the rated working pressure.
 - 7. A record of all pressures will be made on a pressure-recording chart.

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DRILLING PROGRAM

Page 3

- D. Test Duration
 - In each case, the individual components should be monitored for leaks for <u>10</u> <u>minutes</u>, with no observable pressure decline, once the test pressure as been applied.
- II. Accumulator Performance Test
 - A. Scope
 - 1. The purpose of this test is to check the capabilities of the BOP control systems, and to detect deficiencies in the hydraulic oil volume and recharge time.
 - B. Test Frequency
 - 1. The accumulator is to be tested each time the BOP's are tested, or any time a major repair is performed.
 - C. Minimum Requirements
 - The accumulator should be of sufficient volume to supply 1.5 times the volume to close and hold all BOP equipment in sequence, <u>without recharging</u> and the <u>pump turned off</u>, and have remaining pressures of <u>200 PSI above the</u> <u>precharge pressure</u>.
 - 2. Minimum precharge pressures for the various accumulator systems per <u>manufacturers recommended specifications</u> are as follows:
 - 3.
- System Operating Pressures Precharge Pressure

1500 PSI	
2000 PSI	
3000 PSI	

3000 PSI
3. Closing times for the Hydril should be less than <u>20 seconds</u>, and for the ram-type preventers less than **10 seconds**.

750 PSI

1.000 PSI

- 4. System Recharge time should not exceed 10 minutes.
- D. Test Procedure
 - 1. Shut accumulator pumps off and record accumulator pressure.
 - 2. In sequence, close the annular and one set of properly sized pipe rams, and open the HCR valve.
 - 3. Record time to close or open each element and the remaining accumulator pressure after each operation.

CONFIDENTIAL – TIGHT HOLE Lease Contract No. NMNM120357

DRILLING PROGRAM

Page 4

4. Record the remaining accumulator pressure at the end of the test sequence. Per the previous requirement, this pressure <u>should not be less</u> than the following pressures:

System Pressure	Remaining Pressure At Conclusion of
	Test
1,500 PSI	950 PSI
2,000 PSI	1,200 PSI
3,000 PSI	1,200 PSI

- 5. Turn the accumulator pumps on and record the recharge time. This time should not exceed **10 minutes.**
- 6. Open annular and ram-type preventers. Close HCR valve.
- 7. Place all 4-way control valves in <u>full open</u> or <u>full closed</u> position. <u>Do not</u> <u>leave in neutral position</u>.

4. CASING PROGRAM

a. The proposed casing program will be as follows:

<u>Purpose</u>	<u>Interval</u>	<u>Hole</u> Size	<u>Casing</u> <u>Size</u>	Weight	Grade	Thread	Condition
Surface	Surface – 400'	17-1/2"	13-3/8"	48.0#	H-40	STC	New
Intermediate	Surface – 4,000'	12-1/4"	9-5/8"	40.0#	J-55	LTC	New
Production	Surface – 13,601'	8-3/4"/	5-1/2"	17.0#	P-110	LTC	New

- b. Casing design subject to revision based on geologic conditions encountered.
- c. Casing Safety Factors:

13-3/8" Surface Casing: SFb = 1.70, SFc = 5.13 and SFt = 2.13 9-5/8" Intermediate Casing: SFb = 2.09, SFc = 1.21 and SFt = 1.62 5-1/2" Production Casing: SFb = 1.41, SFc = 1.71 and SFt = 1.69

d. The cementing program will be as follows:

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DRILLING PROGRAM

Page 5

5. Cementing Program

Interval	<u>Түре</u>	<u>Weight</u>	<u>Amount</u>	Yield	<u>Top Of</u> <u>Cement</u>	<u>Excess</u>
Surface	Single Slurry	14.2 ppg	545 sks	1.35	Surface	150%
Intermediate	Lead:	13.1 ppg	790 sks	1.74	Surface	50%
	Tail;	14.8 ppg	350 sks	1.37	3000'	50%
Production	Lead	12.7 ppg	880 sks	1.87	3500'	50%
	Tail	14:4 ppg	1630 sks	1.24	8000'	50%

6. MUD PROGRAM

a. The proposed circulating mediums to be used in drilling are as follows:

<u>Interval</u>	Mud Type	Mud Weight	Viscosity	Fluid Loss
0' – 400'	FW/Gel	8.4 - 8.7	28-32	NC
400' – 4,000'	Native/Brine	8.7 - 10.0	28-30	NC
4,000' - 8500'	FW/Cut Brine	9.0 - 9.5	28-30	NC
8500'-TD	FW/Cut Brine	9.0 9.5	34-38	12-20

A closed system will be utilized consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toliet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

7. TESTING, LOGGING AND CORING

The anticipated type and amount of testing, logging and coring are as follows:

- a. Drill stem tests are not planned.
- b. The logging program will consist of Triple Combo with Spectral Gamma Ray from 9,020' up to surface casing. Gamma Ray/Neutron from casing up to surface with Gamma/MWD in the lateral.
- c. Cores samples are not planned.-

CONFIDENTIAL – TIGHT HOLE Lease Contract No. NMNM120357

DRILLING PROGRAM

Page 6

- 8. <u>ABNORMAL PRESSURES AND HYDROGEN SULFIDE</u>
 - a. The estimated bottom hole pressure is 4150 psi. No abnormal pressures or temperatures are anticipated.
 - b. Hydrogen sulfide gas is anticipated: Low levels of H2S have been monitored in producing wells in the area, so H2S may be present while drilling the well. (See Exhibit H)

RECEIVED

AUG 0 2 2010 HOBBSOCD

Permian District

NM - Chaves - Wolfcamp Nereid 1 Federal 1H Nereid 1 Federal 1H Nereid 1 Federal 1H

Plan: Plat

Standard Planning Report

06 May, 2010



EXHIBIT <u>C</u>

Chesapeake Energy Corporation

Planning Report

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COMPASS 5000 1 Build 30

Chesapeake Energy Corporation

Planning Report

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