Form 3160-3 (August 1999) OPER. OGRID NO. 147179
PROPERTY NO. 34425
PROPERTY NO. 34425
PROPERTY NO. 12000
EFF. DATE 11/22/04

APRILICA: APRILI

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

Lease Serial No. NMNM68821

APPLICA APINO 30-6	725-36969	If Indian, Allottee or Tribe Name
1a. Type of Work: DRILL REENTER	CONFIDENTIAL	7. If Unit or CA Agreement, Name and No.
	LINDA GOOD	8. Lease Name and Well No. PALOMA 30 FEDERAL 1 9. API Well No.
CHESAPEAKE OPERATING INC 3a. Address P O BOX 18496 OKLAHOMA CTIY, OK 73154	E-Mail: Igood@chkenergy.com 3b. Phone No. (include area code) Ph: 405.767.4275 Fx: 405.879.9583	30-025-36969 10. Field and Pool, or Exploratory RALOMA BLANCO Bell Lake Morrow Mi
Location of Well (Report location clearly and in accorded At surface NWNE 660FNL 2100FEL At proposed prod. zone NWNE 660FNL 2100FEL	Unit B	Sec., T., R., M., or Blk. and Survey or Area Sec 30 T23S R34E Mer NMP SME: BLM 12. County or Parish I 13. State
 14. Distance in miles and direction from nearest town or post 15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No. of Acres in Lease	12. County of Parish LEA NM 17. Spacing Unit dedicated to this well 320.00
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KB, RT, GL, etc. 3580 GL	22. Approximate date work will start	23. Estimated duration
		BAD CONTROLLED WATER BASIN
 The following, completed in accordance with the requirements of Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Of 	tern Lands, the fice). 4. Bond to cover the operation let 20 above). 5. Operator certification 6. Such other site specific in authorized officer.	ons unless covered by an existing bond on file (see
25. Signature (Electronic Submission)	Name (Printed/Typed) LINDA GOOD Ph: 405.767.4275	Date 010/27/2004
Title AUTHORIZED REPRESENTATIVE		91 St to El TV
Approved by (Signature) /s/ Joe G. Lara	/s/ Joe G. Lara	7ª9 NOV 2004
Title FIELD MANAGER	Office CARLSBAD FIE	LD OFFICE

ACTING

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #50403 verified by the BLM Well Information System For CHESAPEAKE OPERATING INC, sent to the Hobbs Committed to AFMSS for processing by LINDA ASKWIG on 10/27/2004 (05LA0014AE)

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS KZ

ATTACHED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Additional Operator Remarks:

Chesapeake Operating, Inc. proposed to drill a well to 13900 to test the Morrow. If productive, casing will be run and the well will be completed. If dry, the well will be plugged & abandoned as per BLM and New Mexico Oil Conservation Division requirements.

Attached please find the Surface Use Plan, Drilling Plan, and attachments as required by Onshore Order No.1. A general plat is attached as Exhibit D. A final rig plat will be submitted prior to spud once a rig is assigned.

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.

DISTRICT I 1825 K. French Dr., Hobbs, NM 80240

State of New Mexico Energy, Minerals and Natural Resources Department.

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office

DISTRICT II 811 South Pirst, Artesia, FOR 88210

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Axten, NM 87410

OIL CONSERVATION DIVISION

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

2040 South Pacheco Santa Fe, New Mexico 87504-2088

I AMENDED REPORT

Bottom Hole Location If Different From Surface UL or Jot No: Section Township Engs Lot Ida Feet from the North/South line Feet from the East/Feet line Count Dedicated Acres Joint or Infill Committee Order No. 320 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 J. horety, certify the the information contained forces in force any families to the seed of my knowledge med faller (NAD 27) SSSS.3* 3579.6* DOMERTOR CERTIFICATION J. horety, certify the the information contained forces in force any families to the seed of my knowledge med faller (NAD 27) SSSS.3* 3579.6* NO. ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OPERATOR CERTIFICATION J. horety, certify the the information contained forces in force any families to the seed of my knowledge med faller (NAD 27) SSSS.3* 3579.6* J. A. C.				WELL L	CATION	AND ACRE	IGE DEDICATI	ON PLAT		
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Date (Long.: W10	3.4403*				I have contained here contained here of my know beet of my kno	e certify the the best of the test of the	end

SURVEYOR CERTIFICATION

I hereby script that the well location about on this plat was plotted from field notes of sorted surveys made by me or under my supervisor, and that the same is true and correct to the best of my batel.

SEPTEMBER 1, 2004

Date Survey

DISTRICT I 1825 N. Presch Dr., Robbs, RM 88240 DISTRICT II 811 South Pirst, Artenia, NM 88210

State of New Mexico

Porm C-102 Revised March 17, 1999

Energy, Minerals and Matural Resources Department

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Azteo, Nie 67410

2040 South Pacheco, Sania Pe, NM 87503

DISTRICT IV

OIL CONSERVATION DIVISION
2040 South Pacheco

Santa Fe, New Mexico 87504-2088

AMENDED REPORT

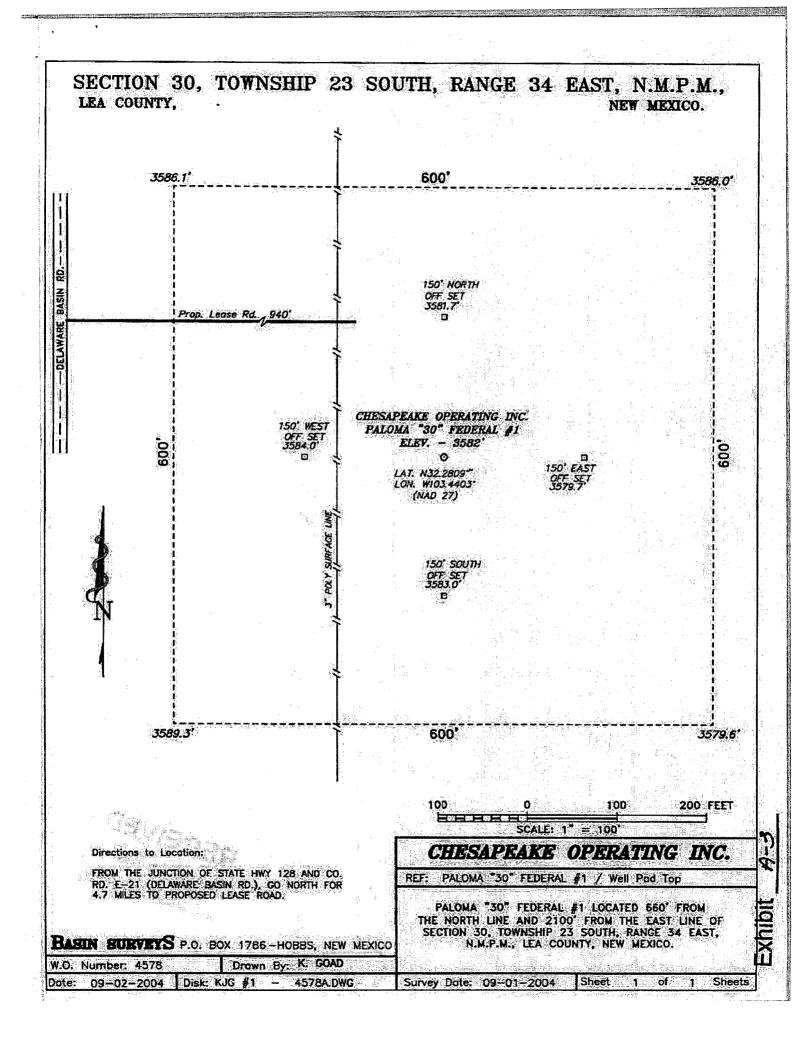
WELL LOCATION AND ACREAGE DEDICATION PLAT

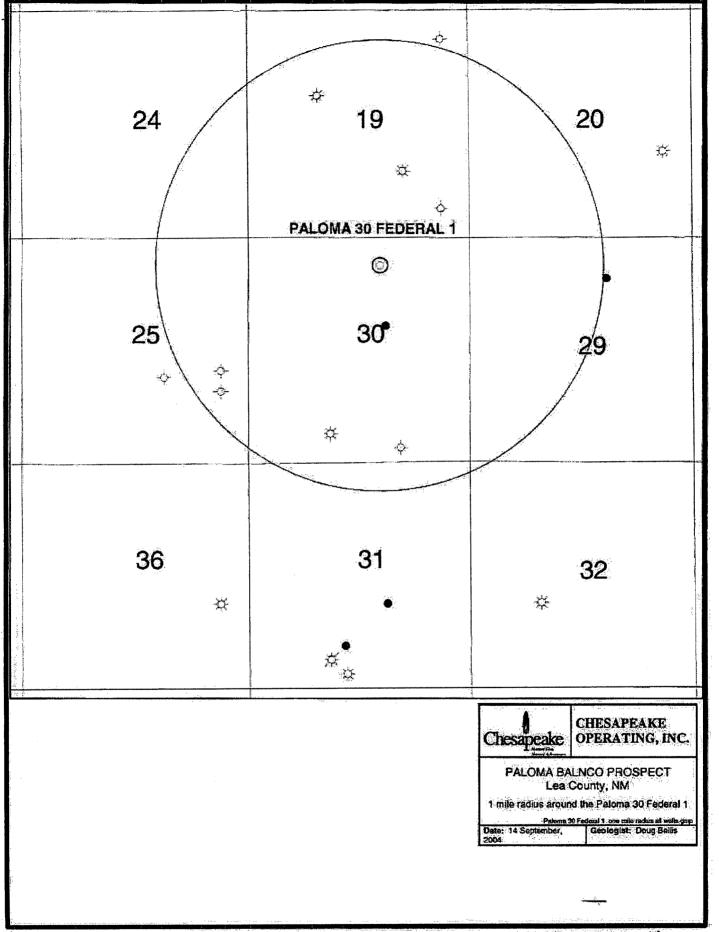
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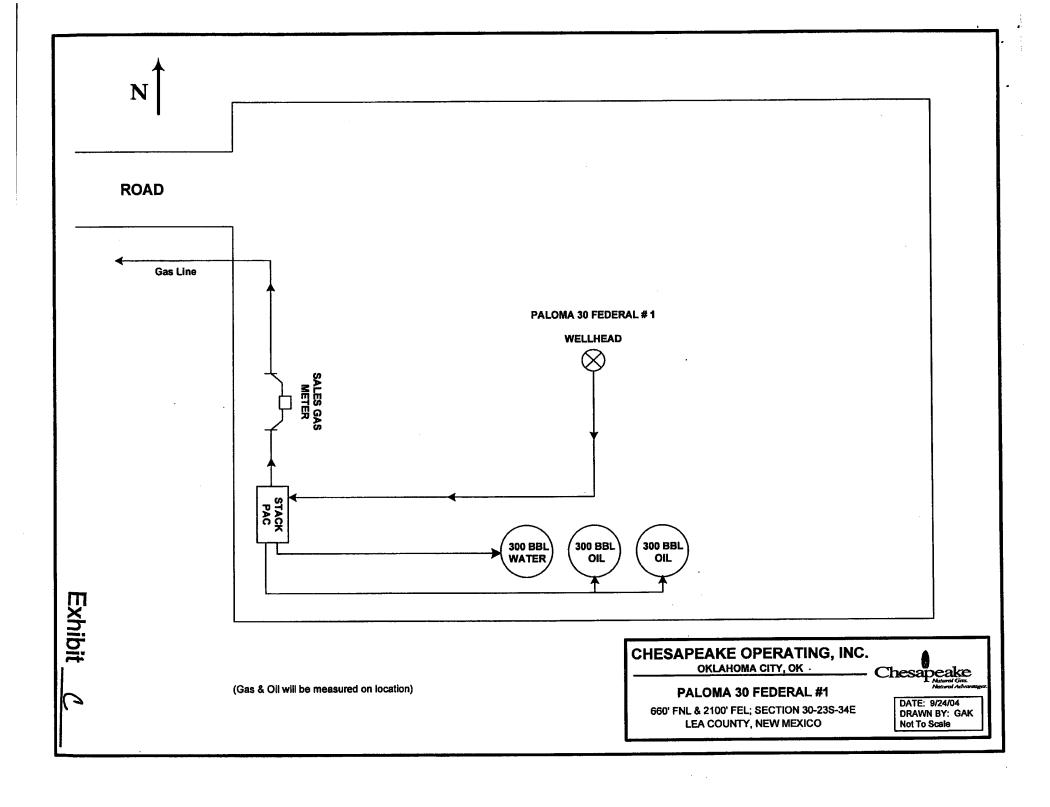
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

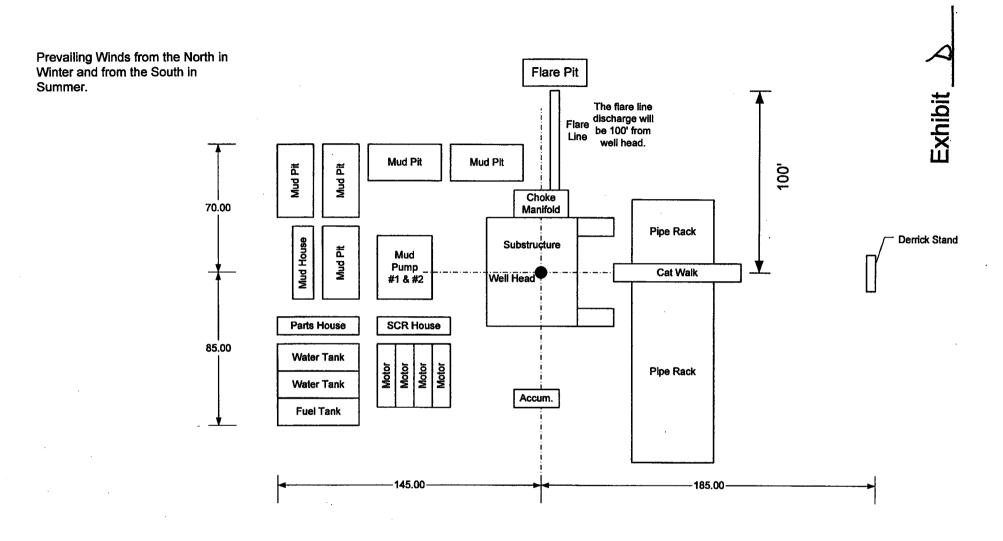
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		Senior Landman 71116 9-13-04 Date Surveyor Certification
		/ hereby certify that the scall location shows on this plat was plotted from field notes of column surveys made by war or under an supervision and that the same is true and correct is the best of my being. SEPTEMBER 1, 2004. Date Surveys
		Signature & Seid 16 Notes Personal Services (MEX) 5 WQ No. 4578: Certificide So. Gory 1/ Jahr 7977

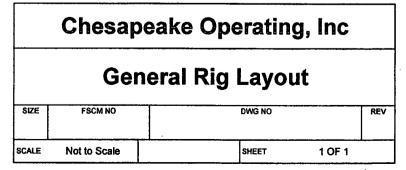
Exhibit 4-2











TITLE PAGE/ABSTRACT/ NEGATIVE SITE REPORT CFO/RFO

1/03 3. NMCRIS No.: 90255 2. Reviewer's Initials/Date 1. BLM Report No. ACCEPTED () REJECTED () Positive () 4. Type of Report: Negative(X) 5. Title of Report: Class III archaeological survey of a pad and access road for the Paloma 6. Fieldwork Date(s) from 29 Sept., 2004 to "30" Federal well No 1. Author(s): Ann Boone 7. Report Date 29 Sept., 2004 8. Consultant Name & Address: 9. Cultural Resource Permit No. Boone Archaeological Services BLM 190-2920-03-E 2030 North Canal State Permit No.: NM-04-157 Carlsbad, NM 88220 10. Consultant Report No. Direct Charge: Danny Boone BAS 09-04-17 Field Personnel Names: Danny Boone Phone: (505) 885-1352 11. Customer Name: Chesapeake Operating, Inc. 12. Customer Project No.: Responsible Individual: Linda Good None Address: P.O. Box 18496 Oklahoma City, Oklahoma 73154-0496 Phone: (405) 848-8000 BLM STATE PRIVATE OTHER TOTAL 13. Land Status 9.79 (+/-) a. Area Surveyed (acres) 0 9.79 (Fed. Min.) 0 5.83 (+/-) 0 5.83 (Fed. Min.) b. Area of Effect (acres) 14. Linear: Length; 940' (-/+) Width; 100' 600' x 600' Block: 15. Location: (Maps Attached if Negative Survey) a. State: New Mexico b. County: Lea c. BLM Office: Carlsbad d. Nearest City or Town: Jal, NM Legal Location: T 23, R 34, Sec. 30 Access Road, NEW NWW, Pad, NWW, NEW. f. Well Pad Footages: 660' FNL, 2100' FEL g. USGS 7.5 Map Name(s) and Code Number(s): Tip Top Wells, NM (1984) 32103-C5

RECEIVED

OCT 2 5 2004



16. Project Data:

a. Records Search: Date(s) of BLM File Review, 16 Sept., 2004

Name of Reviewer (s): Ann Boone

Date(s) of ARMS Data Review: 23 Sept., 2004

Name of Reviewer (s): Ann Boone

Findings (see Field Office requirements to determine area to be reviewed during records search):

LA 133272 and 131861 are within 1.0 mile. LA 131861 does not appear on BLM Map.

b. Description of Undertaking:

This project is located on State Of New Mexico Land that has Federal Minerals. The access road begins at Delaware Basin Road and trends east for 940 feet, crossing one buried pipeline (BLM No. 04-517) to a point approximately 175' inside of the northwest portion of the pad survey area. Survey acres were estimated on 665 feet by 50 feet of road and the 600 feet by 600 feet pad survey area. Impact acres are unknown and are estimated. A plat is attached to this report.

c. Environmental Setting (NRCS soil designation; vegetative community; etc.):

Topography: East sloping alluvial valley.

Vegetation: Approximately 45% ground cover, mesquite, yucca cactus, broom snakeweed, mormon tea, stick cholla cactus, prickly pear cactus, various grasses and other flora.

NRCS: Berino-Cacique association: Nearly level and gently sloping, sandy soils that are deep and moderately deep to soft or indurated caliche.

d. Field Methods: (transect intervals; crew size; time in field, etc.):

Transects: For the pad a grid of parallel transects spaced 15 meters or less and for the road one zig-zag spaced up to 15 meters on each side of staked centerline.

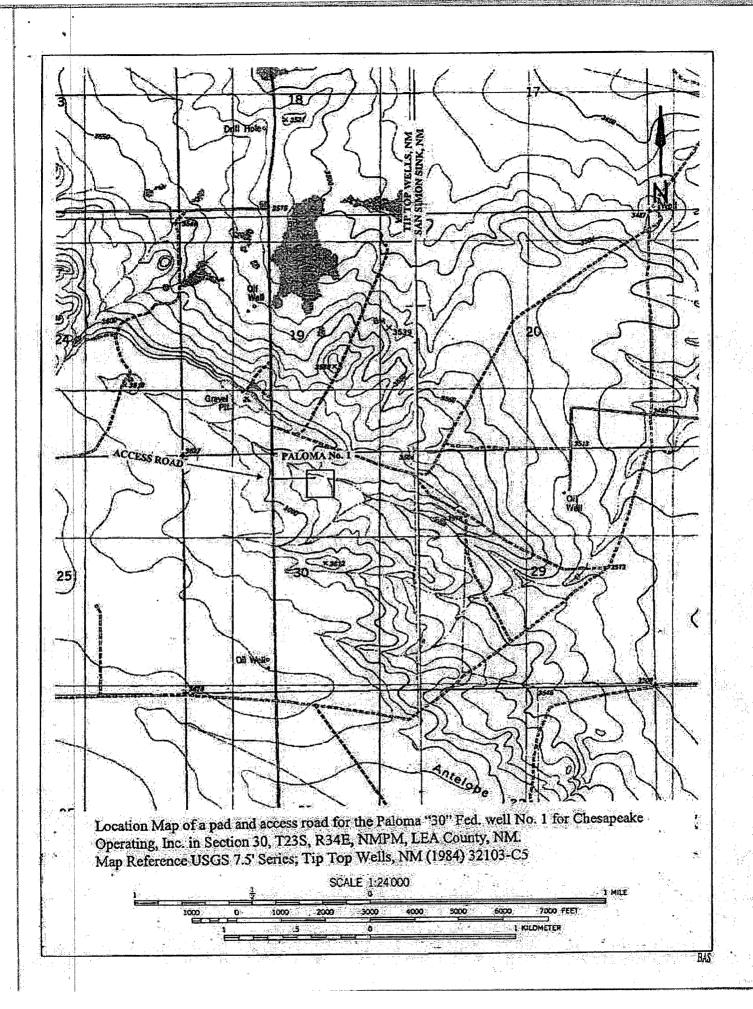
Crew Size: One

Time in Field: 3.0 hours.

- e. Artifacts Collected (?): None
- 17. Cultural Resource Findings: None
 - a. Identification and description:
 - b. Evaluation of significance of Each Resource:
- 18. Management Summary (Recommendations):

Archaeological clearance of a pad and access road for the Paloma "30" Federal well No. 1 for Chesapeake Operating, Inc. as presently staked is recommended. If cultural resources are encountered at any time all activity should cease and the BLM Archaeologist notified immediately.

19.						Contraction of the Contraction o
I certify that the information		ore is correct at	id accurate and	meets all app	reciable BLM s	standards.
I centry mat me information	provided an	010 15 COLLOW W			29 la	
Responsible Archaeologist	1/an	a Brown			22 11	<u>C_ 500</u> Y
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	Sigha	ture			Date	



BLOWOUT PREVENTOR SCHEMATIC

CHESAPEAKE OPERATING INC

WELL

: Paloma '30' Federal #1

RIG

: Nabors #311

COUNTY : Lea

STATE: New Mexico

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

	SIZE			
V	13-5/8"	500#	Rot Head	
1	13-5/8"	5,000#	Annular	
:]	13-5/8"	10,000#	Pipe Rams	
7	13-5/8"	10,000#	Blind Rams	
	13-5/8"	10,000#	Mud Cross	
	DSA	13-5/	/8" 5M x 13-5/8" 10M	
	DSA		/8" 3M x 13-5/8" 5M	
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2	2"	PRESSURE 10,000#	Line DESCRIPTION Check Valve Gate Valve	Spool Choke Line Size Pressure Description
2	2"	RESSURE 10,000#	Line DESCRIPTION Check Valve	Spool Choke Line Size Pressure Description 4" 10,000# Gate Valve

Exhibit F-/

BLOWOUT PREVENTOR SCHEMATIC CHESAPEAKE OPERATING INC

WELL

: Paioma '30' Federal #1

RIG

: Nabors 311

COUNTY

: Lea

STATE: New Mexico

OPERATION: Drill out below 9-5/8" Casing

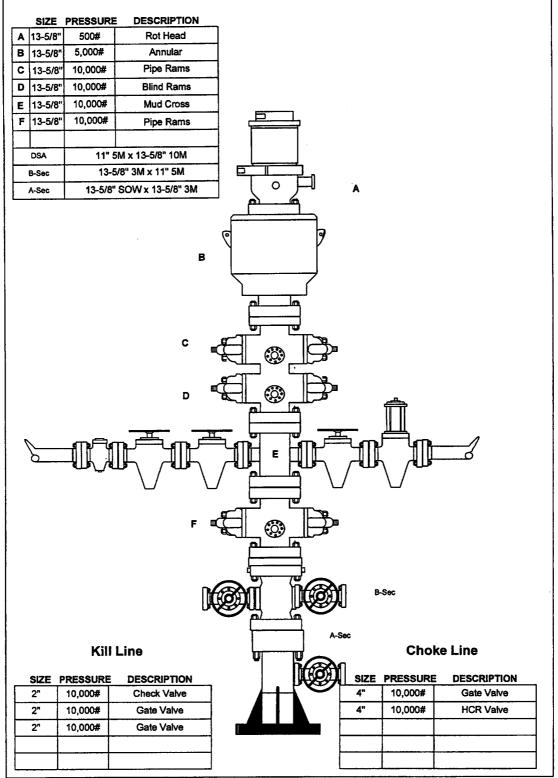


Exhibit F-2

BLOWOUT PREVENTOR SCHEMATIC CHESAPEAKE OPERATING INC

WELL

: Paloma '30' Federal #1

RIG

: Nabors 311

COUNTY

: Lea

STATE: New Mexico

OPERATION: Drill out below 7" Casing

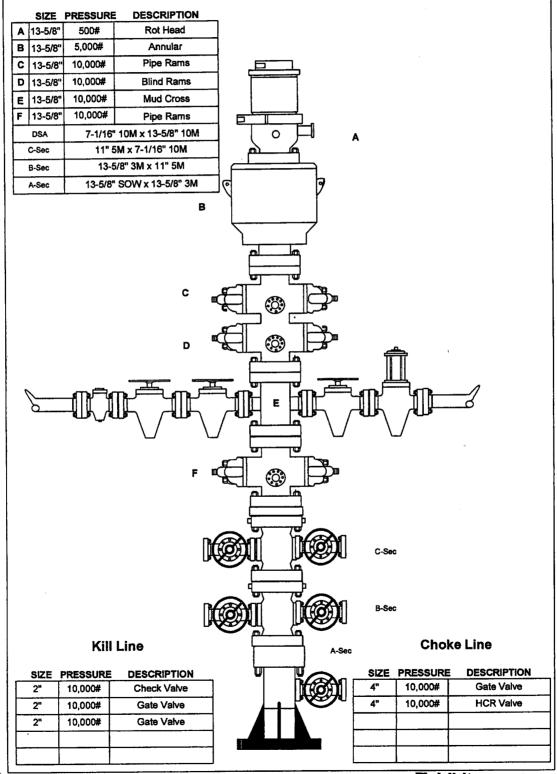


Exhibit F-3

CONFIDENTIAL - TIGHT HOLE

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. Paloma 30 Federal 1 1800 FNL 2010 FEL NW NE of Section 30-23S-34E Lea County, NM

Lease No. NMNM68821
SURFACE USE PLAN

Page 1

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

1. EXISTING ROADS

- a. Existing county roads will be used to enter proposed access road.
- b. Location, access, and vicinity plats attached hereto. See Exhibits A-1 through A-4.

2. PLANNED ACCESS ROADS

- a. Coming off Delaware Basin Road (County Road) 1000' into location road to be 14' wide with a maximum disturbance area of 30' will be built in accordance with guidelines set forth in the BLM Onshore Orders.
- b. No turnouts are expected.
- c. In order to level the location, cut and fill will be required. Please see attached Well Location and Acreage Dedication Plat Exhibit A1-A4.
- d. A locking gate will be installed at the site entrance.
- e. Any fences cut will be repaired. Cattle guards will be installed, if needed.
- f. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
- g. Driving directions are from the Jct. of State Hwy 128 and County Rd E-21 (Delaware Basin Rd), go North for 4.7 miles to proposed lease rd.

3. <u>LOCATION OF EXISTING WELLS WITHIN A 1-MILE RADIUS OF THE PROPOSED LOCATION</u> – see Exhibit B.

4. LOCATION OF PRODUCTION FACILITIES

Production facilities will be located on the well pad and the gas meter will be located about .4 miles SW of site in the SW Qtr, as product will be sold at the wellhead and/or tank battery. The gas meter will be located on lease. — See Exhibit C

CONFIDENTIAL - TIGHT HOLE

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. Paloma 30 Federal 1 1800 FNL 2010 FEL NW NE of Section 30-23S-34E Lea County, NM

Lease No. NMNM68821

SURFACE USE PLAN Page 2

5. LOCATION AND TYPE OF WATER SUPPLY

Water will be obtained from a private water source. Chesapeake Operating, Inc. will ensure all proper notifications and filings are made with the state.

6. CONSTRUCTION MATERIALS

No construction materials will be used from Section 4-20S-33E. All material (i.e. shale) will be acquired from private or commercial sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

Lined pits will be utilized during the drilling of this well. All fluids and cutting will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulation. 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.

8. ANCILLARY FACILITIES

None

9. WELLSITE LAYOUT

The proposed site layout plat is attached showing a general rig plat with rig orientation and equipment location. See Exhibit D.

10. PLANS FOR RECLAMATION OF THE SURFACE

The location will be restored to as near as original condition as possible. Reclamation of the surface shall be done in strict compliance with the existing Oklahoma Corporation Commission regulations.

Backfilling leveling, and contouring are planned as soon as the drilling rig and steel tanks are removed. Wastes and spoils materials will be buried immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible. The rehabilitation will begin after the drilling rig is removed.

11. SURFACE & MINERAL OWNERSHIP

United States of America
Department of Interior
Bureau of Land Management

GRAZING LEASE HELD BY:

CONFIDENTIAL - TIGHT HOLE

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. Paloma 30 Federal 1 1800 FNL 2010 FEL NW NE of Section 30-23S-34E Lea County, NM

Keller RV LLC 2811 County Road 460 Oakley, KS 67748 Phone: 785-672-3257 Lease No. NMNM68821

SURFACE USE PLAN Page 3

12. ADDITIONAL INFORMATION

A Class III cultural resource inventory report was prepared by Boone Archaeological Services, Carlsbad, New Mexico for the proposed location. A copy of the report has been sent to the BLM office under separate cover and is also attached for reference. See Exhibit E.

13. OPERATOR'S REPRESENTATIVES

Drilling and Completion Operations

Rob Jones District Manager P.O. Box 18496 Oklahoma City, OK 73154 (405) 810-2694 (OFFICE) (405) 879-9573 (FAX) rjones@chkenergy.com

Drilling Engineer

David DeLaO P.O. Box 18496 Oklahoma City, OK 73154 (405) 767-4339 (OFFICE) (405) 879-9573 (FAX) (405) 990-8182 (MOBILE)

Field Representative

Mike Whitefield 550 West Texas Ave. Midland, TX 79701 432-683-7443 (OFFICE) 432-685-4399 (FAX) mwhitefield@chkenergy.com

Asset Manager

Andrew McCalmont P.O. Box 18496 Oklahoma City, OK 73154-0496 405-879-7852 (OFFICE) 405-879-7930 (FAX) amccalmont@chkenergy.com

Regulatory Compliance

Linda Good Regulatory Compliance Analyst P.O. Box 11050 Oklahoma City, OK 73154 (405) 767-4275 (OFFICE) (405) 879-9583 (FAX) Igood@chkenergy.com **ONSHORE ORDER NO. 1** Chesapeake Operating, Inc. Paloma 30 Federal 1 1800 FNL 2010 FEL NW NE of Section 30-23S-34E Lea County, NM

CONFIDENTIAL - TIGHT HOLE Lease No. NMNM68821 **SURFACE USE PLAN** Page 4

CERTIFICATION 14.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this surface use plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed will be performed by operator (including contractors and subcontractors) submitting the APD, in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

By: 7. Mark Cesta Date: 10/25/04

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. Paloma 30 Federal 1 660' FNL 2100' FEL NW NE of Section 30-23S-34E Lea County, New Mexico CONFIDENTIAL - TIGHT HOLE Lease Contract No. NMNM68821

DRILLING PROGRAM

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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

The estimated tops of important geologic markers are as follows:

Formation	Depth	Subsea
Rustler	1130	2475
Delaware	5082	-1477
Bell Canyon	5135	-1530
Cherry Canyon	6000	-2395
Brushy Canyon	7290	-3685
Bone Springs Lime	8640	-5035
First Bone Springs	9670	-6065
Second Bone Springs	10290	-6685
Third Bone Springs	11200	-7595
Wolfcamp	11470	-7865
Cisco	11770	-8165
Strawn	12110	-8505
Atoka	12370	-8765
Paloma Blanco Fault	12380	-8775
Atoka Bank	12400	-8795
Morrow	12930	-9325
Upper Morrow Sand	12960	-9355
Morrow A Sand	13155	-9550
Morrow Clastic	13265	-9660
Morrow B Sand	13330	-9725
Morrow C Sand	13440	-9835
Morrow D Sand	13510	-9905
Lower Morrow	13670	-10065
Barnett Shale	13800	-10195
TD	13900	-10295

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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>	<u>Depth</u>
Oil/Gas	Morrow A Sand	13155
Oil/Gas	Morrow B Sand	13330

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

3. BOP EQUIPMENT: 10,000# System

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

I. BOP, Annular, Choke Manifold, Pressure Test - See Exhibit F-1 to 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

- 1. 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.

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Lea County, New Mexico

- 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.

D. Test Duration

1. In each case, the individual components should be monitored for leaks for 5 minutes, 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

- 1. The accumulator should be of sufficient volume to supply 1.5 times the volume to close and hold all BOP equipment in sequence, without recharging and the pump turned off, and have remaining pressures of 200 PSI above the precharge pressure.
- 2. Minimum precharge pressures for the various accumulator systems per manufacturers recommended specifications are as follows:

3.		
	System Operating Pressures	<u> </u>

Precharge Pressure

1500 PSI	750 PSI
2000 PSI	1,000 PSI
3000 PSI	1,000 PSI

- 3. Closing times for the Hydril should be less than 20 seconds, and for the ramtype preventers less than 10 seconds.
- 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.

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- 3. Record time to close or open each element and the remaining accumulator pressure after each operation.
- 4. Record the remaining accumulator pressure at the end of the test sequence. Per the previous requirement, this pressure **should not be less** 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 leave in neutral position</u>.

4. CASING AND CEMENTING PROGRAM

a. The proposed casing program will be as follows:

Purpose	<u>Interval</u>	Hole Size	Casing Size	Weight	<u>Grade</u>	<u>Thread</u>	Condition
Surface	0' – 1,175'	17-1/2"	13-3/8"	48#	H40	STC	New
Intermediate	1,175' - 5,040'	12-1/4"	9-5/8"	40#	J55	LTC	New
Production	5,040' - 12,300'	8-3/4"	7"	23&26#	L80	LTC	New
Production Liner	12,000' - 13,900'	6-1/8"	4-1/2"	13.5#	P110	LTC	New

- b. Casing design subject to revision based on geologic conditions encountered.
- c. The cementing program will be as follows:

Interval	Type	Amount	Yield	Washout	Excess
0'-1,175'	Class C + Additives	700+300	1.74/1.34	75	100
0'- 5.040'	Class C 50/50 Poz + Additives	1025+200	2.23/1.34	50	75
4,500' - 12,300'	Class H + Additives	700+100	1.99/1.19	10	30
12,300'-13,900'	Class H + additives	150	1.57	10	30

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5. MUD PROGRAM

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

Interval	Mud Type	Mud Weight	Viscosity	Fluid Loss
0 – 1.175'	FW	8.7	29-38	NC
1,175' - 5,040'	Brine	10	29	NC
5,040'-12,300'	FW/Brine	8.5 – 10	29-32	NC
12.300'-13.900'	Brine/XCD	10-11.5	29-40	NC-15

An in-ground, lined pit will be utilized during the drilling of this well. 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.

6. 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 Natural GR, Density-Neutron, PE & Dual Laterolog from TD to surface casing; Neutron-GR surface casing to surface.
- c. Cores samples are not planned.

7. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

- a. The estimated bottom hole pressure is 7400 psi. No abnormal pressures or temperatures are anticipated.
- b. Hydrogen sulfide gas is not anticipated.

11/22/2004 15:35 FAX 432 68	85 4399 CHESA	PEAKE		2 002/003
Submit 3 Copies To Appropriate District Office	State of New Mexico			Form C-103
District I 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resources		WELL API NO.	
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210 District III	OIL CONSERVATION DIVISION		3D-D 5. Indicate Type of Le	
1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. I		STATE	FEE 🗌
District IV Santa Fe, NM 87505 1220 S. St. Francis Dr., Santa Fe, NM 87505		6. State Oil & Gas Le	ase No.	
SUNDRY NOTIC (DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICA PROPOSALS.)	ES AND REPORTS ON WE LLS TO DRILL OR TO DEEPEN OF TION FOR PERMIT" (FORM C-10	DI LIC BACK TO A	7. Lease Name or Un Paloma "30" Federal	t Agreement Name
1. Type of Well: Oil Well G	as Well X Other		8. Well Number 00	1
Name of Operator Chesapeake Operator	perating, Inc.		9. OGRID Number	47179
3. Address of Operator P. O. Box 1	1050		10. Pool name or Wile	lcat
4. Well Location	X 79702-8050		Bell Lake Morrow M	lid
Unit Letter B • 66	50 foot from the Nort	, h	00	T
Section 30	feet from the Nort Township 23S			
	11. Elevation (Show whether	Range 34E	NMPM Co	untyLea
Pit or Below-grade Tank Application X or (3582' GR			- 60 E
1	er_100+' Distance from nearest fre	sh water well 1000+ Dist	ance from nearest surface w	ater 1000+
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume			thetic
12. Check Ap	propriate Box to Indicate			
NOTICE OF INT		SUB	SEQUENT REPOR	RT OF:
TEMPODADUM	PLUG AND ABANDON CHANGE PLANS	REMEDIAL WORL		ERING CASING
DIEL OR ALTER GARAGE	CHANGE PLANS LI MULTIPLE COMPL [COMMENCE DRI		ND A
OTHER:Pit Requirements	X	OTHER:		П
 Describe proposed or complet of starting any proposed work or recompletion.). SEE RULE 1103. For Mu	all pertinent details, and ltiple Completions: Att	tach wellbore diagram of	proposed completion
Chesapeake, respectfully, requests tha agrees to close the pit according to NN	t the attached procedure be ap MOCD guidelines per item #3	proved for the drilling in rule 50.	pit for this well. Chesap	eake, hereby,
	·			

I hereby certify that the information above is true and compl grade tank has been/will be constructed or closed according to NMOCI	ete to the best of my knowledge and belief. If D guidelines 🗵, a general permit 🗌 or an (attached) a	urther certify that any pit or below- lternative OCD-approved plan ⊠.
SIGNATURE Standa offin	TITLE Regulatory Analyst	DATE 11/22/2004
Type or print name Brenda Coffman For State Use Only	E-mail address:bcoffman@chkenergy.com	Telephone No. (432)685-4310
APPROVED BY: Conditions of Approval (if any):	TITLE PETROLEUM ENGINEER	NOV 2 3 2004 date

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