Form 3160-3 (August 1999)

N.M. Oil Cons. DIV-Dist. 2

1301 W. Grand Avenue

UNITED STARRESIA, NM 88210 DEPARTMENT OF THE INTERIOR

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

BUREAU OF LAND MANAGEMENT

Lease Serial No. NMNM35925

APPLICATION FOR PERMIT 1	6. If Indian, Allottee or Tribe	Name		
1a. Type of Work: DRILL REENTER	ENTIAL	7. If Unit or CA Agreement, Name and No.		
	er Sing LINDA GOOD E-Mail: lgood@chkenergy		8. Lease Name and Well No. DANA 3 FEDERAL 10 9. API Well No. 30 - 005 - 6	74441
3a. Address P O BOX 18496 OKLAHOMA CITY, OK 73154-0496	3b. Phone No. (included Ph: 405.767.4275 Fx: 405.879.9583	5	10. Field and Pool, or Explor PECOS SLOPE	atory
4. Location of Well (Report location clearly and in accordance NFNF 660FNI 1220FFI	nce with any State requ	irements.*)	11. Sec., T., R., M., or Blk. a	
At surface NENE 660FNL 1220FEL At proposed prod. zone	CF	RECEIVED	Sec 3 T9S R25E Mer SME: FEE	NIMP
14. Distance in miles and direction from nearest town or post of 10.2 MI ENE OF ROSWELL		NOV I I 2004	12. County or Parish CHAVES	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. of Acres in L	ease	17. Spacing Unit dedicated t	o this well
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 4200 MD		20. BLM/BIA Bond No. on i	ĭle
21. Elevations (Show whether DF, KB, RT, GL, etc. 3525 GL	22. Approximate date	work will start	23. Estimated duration	
	24. Atta	achments		•
 The following, completed in accordance with the requirements of the following of the following. Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Supposed Supposed in the Appropriate Forest Service Off Supposed In the International Forest Systems (In the International Forest Systems). 	em Lands, the	4. Bond to cover the operation Item 20 above).5. Operator certification	this form: Insumber covered by an existing of the covered by an e	· ·
25. Signature (Electronic Submission)	Name (Printed/Typed) LINDA GOOD			Date 09/28/2004
AUTHORIZED REPRESENTATIVE				
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) LARRY D BRA			Date 11/09/2004
Title ASST FIELD MANAGER	Office Roswell			
Application approval does not warrant or certify the applicant ho operations thereon. Conditions of approval, if any, are attached.	lds legal or equitable tit	le to those rights in the subject le	ase which would entitle the app	licant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 1 States any false, fictitious or fraudulent statements or representat	make it a crime for any prions as to any matter wi	person knowingly and willfully to thin its jurisdiction.	o make to any department or ag	ency of the United
Additional Operator Pemarke (see payt page)				

ditional Operator Remarks (see next page)

Electronic Submission #35821 verified by the BLM Well Information System For CHESAPEAKE OPERATING INC, sent to the Roswell Committed to AFMSS for processing by LINDA ASKWIG on 09/29/2004 (04LA0314AE)

CEMENT TO COVER ALL OIL, GAS AND WATER BEARING

Additional Operator Remarks:

Chesapeake Operating, Inc. proposes to drill a well to 4200' to test the Abo. If productive, casing will be run and the well will be completed. If dry, the well will be plugged and 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 rig 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.

On September 22, 2004 Mike Whitefield with Chesapeake Operating, Inc. meet with the Surface Owner James Cliett and have reached a verbal agreement.

Office		New Mexico	Form C-103
District I	Energy, Minerals a	and Natural Resources	May 27, 2004 WELL API NO.
1625 N. French Dr., Hobbs, NM 88240 District II			(20-005-63707
1301 W. Grand Ave., Artesia, NM 88210		ATION DIVISION	5. Indicate Type of Lease
District III 1000 Rio Brazos Rd., Aztec, NM 87410		St. Francis Dr.	STATE FEE
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe	, NM 87505	6. State Oil & Gas Lease No.
87505	tod	eral Well	
(DO NOT USE THIS FORM FOR PROPODIFFERENT RESERVOIR. USE "APPL		PEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name Dana 3 Federal
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well X Other	DECEIVED	8. Well Number 10
2. Name of Operator		RECEIVED	9. OGRID Number 147179
	Operating, Inc.	NOV 1 9 2004	10. Pool name or Wildcat
3. Address of Operator P. O. Bo Midland,	X 11050 TX 79702-8050	ORD:ARTESIA	Pecos Slope
4. Well Location			_
Unit Letter A:			
Section 3		Range 25E	NMPM CountyChaves
	11. Elevation (Show wh 3525 GR	ether DR, RKB, RT, GR, etc.,	
Pit or Below-grade Tank Application			是是一种的人。 1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Pit type Steel Depth to Grounds	vaterDistance from nea	rest fresh water well Dis	tance from nearest surface water
Pit Liner Thickness: mi	Below-Grade Tank: Vol	ume bbls; Co	nstruction Material
12. Check	Appropriate Box to Inc	dicate Nature of Notice,	Report or Other Data
NOTICE OF IN	NTENTION TO:	CLID	SEQUENT REPORT OF:
PERFORM REMEDIAL WORK			
	CHANGE PLANS		ILLING OPNS. P AND A
	MULTIPLE COMPL	☐ CASING/CEMEN	
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DISTRICT I 1825 N. French Dr., Habbs. NM 86240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

DISTRICT II 611 South First, Artesis, NM 88210

Submit to Appropriate District Office

DISTRICT III 1000 Rio Brazos Rd., Axtec, NM 87410 State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV 2040 South Facheca, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

2040 South Pachece Santa Fe. New Mexico 87504-2088

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	
Property Code		rty Name	Well Number
	DANA *	3" FEDERAL	10
OGRID No.	Opera	tor Name	Elevation
	<u>CHESAPEAKE</u>	OPERATING INC.	3525'
	Surfec	e Location	

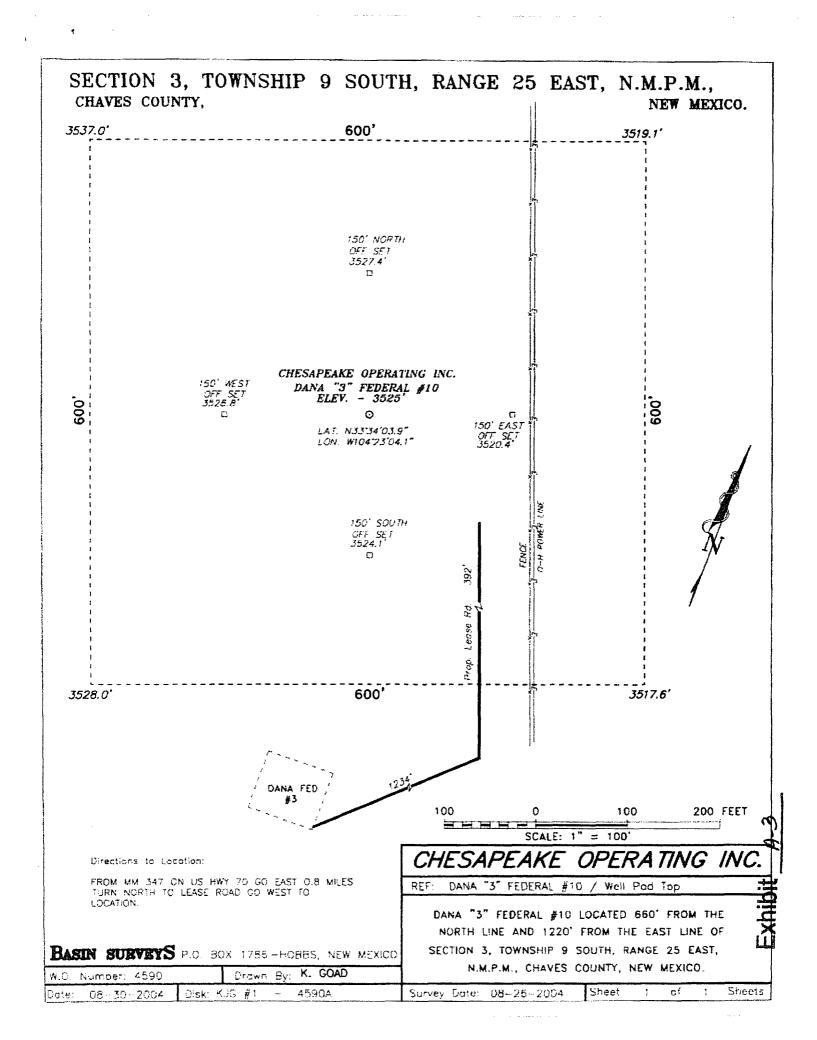
UL or lot No.	Section	Township	Range	lot idn	Feet from the	North/South line	Feet from the	East/West line	County
Α	3	9 S	25 E		660	NORTH	1220	EAST	CHAVES

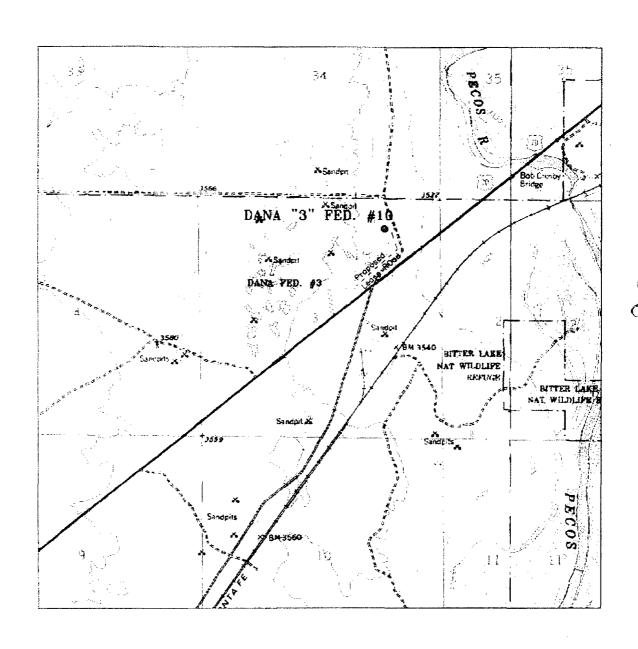
Bottom Hole Location If Different From Surface

UL or lot No.	Section Town	ship Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation	Code Or	der No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

OI	R A NON-STANDARD UNIT HAS BEEN	APPROVED BY THE DIVISION	
	3528.0' Lat.: N33*34'03.9" Long.: W104*23'04.1"	3517.6 1 here contained here best of my kn. Signature JIM I Printed Na: Senior Title 9/20 Date	
		on this plat actual survey supervisor correct to AU Date Survey Signature Professions	





DANA "3" FEDERAL #10 Located at 660 FNL and 1220 FEL Section 3. Township 9 South, Range 25 East. N.M.P.M., Chaves County, New Mexico.



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CHESAPEAKE OPERATING INC.

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. DANA 3 FEDERAL 10 660' FNL & 660' FEL C NENE of Section 3-9S-25E Chaves County, NM CONFIDENTIAL - TIGHT HOLE Lease Contract No. NMNM 35925

DRILLING PROGRAM

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

The estimated tops of important geologic markers are as follows:

Formation	Depth	Subsea
San Andres	405	3130
Glorietta	1535	2000
Tubb	2955	580
Abo	3655	-120
Abo B	3760	-225
Abo C	3875	-340
Abo C Lower	3970	-435
Abo D	4050	-515
Total Depth	4200	-665

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:

Substance	<u>Formation</u>	<u>Depth</u>
Oil/Gas	Abo	3655 to 4100

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

3. BOP EQUIPMENT: 3,000# System

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

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. DANA 3 FEDERAL 10 660' FNL & 660' FEL C NENE of Section 3-9S-25E Chaves County, NM

CONFIDENTIAL – TIGHT HOLE Lease Contract No. NMNM 35925

DRILLING PROGRAM

Page 2

I. BOP, Annular, Choke Manifold, Pressure Test

A. Equipment

- 1. The equipment to be tested includes all of the following that is installed on the well. See Exhibit F-1 to F-2.
 - (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.
- 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 <u>5</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

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. DANA 3 FEDERAL 10 660' FNL & 660' FEL C NENE of Section 3-9S-25E Chaves County, NM CONFIDENTIAL – TIGHT HOLE Lease Contract No. NMNM 35925

DRILLING PROGRAM

Page 3

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 manufacturers recommended specifications are as follows:

System Operating Pressures	Precharge Pressure
1,500 PSI	750 PSI
2,000 PSI	1,000 PSI
3,000 PSI	1,000 PSI

- Closing times for the Hydril should be less than <u>20 seconds</u>, and for the ramtype preventers less than <u>10 seconds</u>.
- 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.
- 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.

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. **DANA 3 FEDERAL 10** 660' FNL & 660' FEL C NENE of Section 3-9S-25E

CONFIDENTIAL - TIGHT HOLE Lease Contract No. NMNM 35925

DRILLING PROGRAM

Page 4

Chaves County, NM 7. Place all 4-way control valves in full open or full closed position. Do not leave in neutral position.

4. CASING AND CEMENTING PROGRAM

a. The proposed casing program will be as follows:

Purpose	Interval	Hole Size	Casing Size	Weight	Grade	Thread	Condition
Surface	0-1,000'	11"	8-5/8"	24#	J-55	ST &C	New
Production	0-4,200'	7-7/8"	4-1/2"	11.6#	J-55	LT &C	New

b. The cementing program will be as follows:

Interval	Type	Amount	<u>Yield</u>	Washout	<u>Excess</u>
Surface	Lead 65:35:6 + 6# Salt + 1/4# Flo-cel	300sx	2.1	50%	100%
	Tail: c + 2% CaCl	200sx	1.3		
Production	50 :50 Poz H + additives	200sx	1.3	20%	30%

5. MUD PROGRAM

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

<u>Interval</u>	Mud Type	Mud Weight	<u>Viscosity</u>	Fluid Loss
0-1,000'	Water	8.4 – 9.0	28-40	NC
1,000' - 4,200'	Cut Brine	9.4 – 10.0	35-46	5 - 10

A steel pit will be utilized during the drilling of this well. All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conversation 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 and Pe from TD to surface casing, then GR and Neutron to surface; Dual Laterolog from TD to surface casing.
- c. Cores samples are not planned.

7. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

- a. The estimated bottom hole pressures is 900 psi. No abnormal pressures or temperatures are anticipated.
- b. Hydrogen sulfide gas is not expected to be encountered.

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. DANA 3 FEDERAL 10 660 FNL 660 FEL C NENE of Section 3-9S-25E Chaves County, NM CONFIDENTIAL – TIGHT HOLE

Lease No. NMNM 35925

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

2. PLANNED ACCESS ROADS

- a. An access road will not be necessary, will use existing gravel road. See Exhibit A-2.
- 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 A-1 & A-2.
- 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 direction: 2 Miles North of Roswell, N.M. on Hwy 285, Right on Hwy 70, 3 ½ miles to mile marker 346, North ¾ mile.

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

4. LOCATION OF PRODUCTION FACILITIES

It is anticipated that production facilities will be located on the well pad as product will be sold at the wellhead and/or tank battery. The proposed pipeline will require a ROW. – See Exhibit C.

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.

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. DANA 3 FEDERAL 10 660 FNL 660 FEL C NENE of Section 3-9S-25E Chaves County, NM CONFIDENTIAL – TIGHT HOLE

Lease No. NMNM 35925

SURFACE USE PLAN
Page 2

6. CONSTRUCTION MATERIALS

All material (i.e. shale) will be acquired from private or commercial sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

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.

8. ANCILLARY FACILITIES

None.

9. WELLSITE LAYOUT

The proposed site layout plat is attached showing 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 New Mexico Oil Conservation Division 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 OWNERSHIP

James Cliett Nalion Living Trust 709-A La Fonda Dr. Roswell, NM 88201 ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. DANA 3 FEDERAL 10 660 FNL 660 FEL C NENE of Section 3-9S-25E Chaves County, NM CONFIDENTIAL - TIGHT HOLE

Lease No. NMNM 35925

SURFACE USE PLAN Page 3

MINERAL OWNERSHIP
United States of America
Department of Interior
Bureau of Land Management

12. <u>ADDITIONAL INFORMATION</u> (This is presumed info, may need to revise)

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

Field Representative

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

Regulatory Compliance

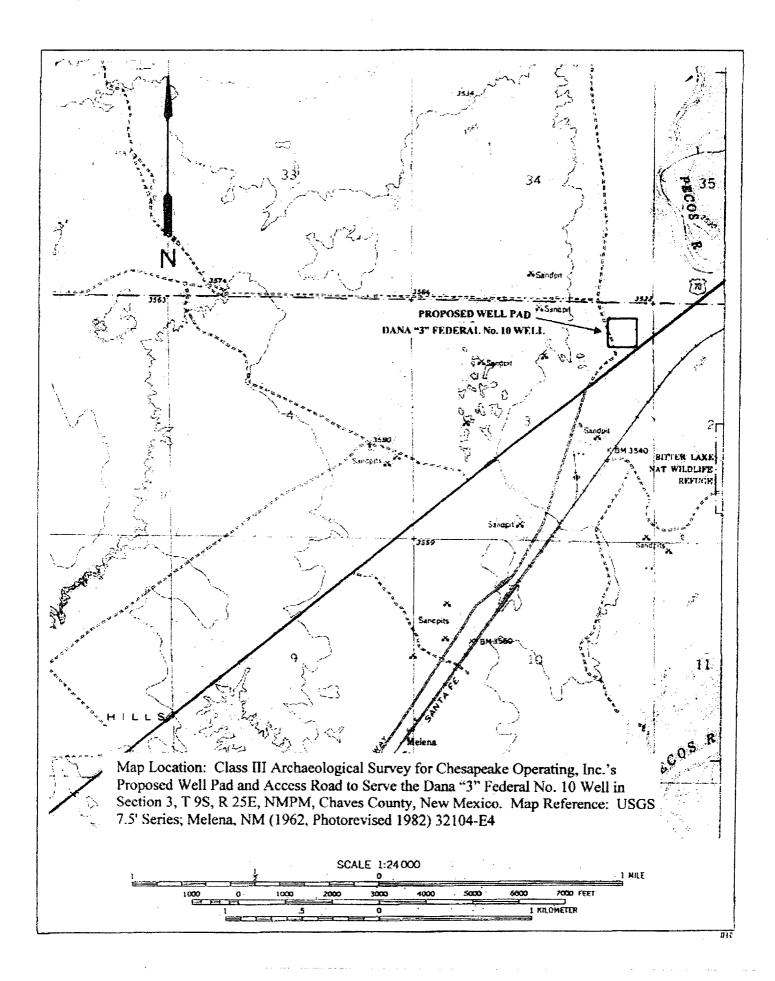
Linda Good Regulatory Compliance Analyst P.O. Box 18496 Oklahoma City, OK 73154 405-767-4275 (OFFICE) 405-879-7953 (FAX) Igood@chkenergy.com

Drilling Engineer

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

Asset Manager

Andrew McCalmont
P.O. Box 18496
Oklahoma City, OK 73154-0496
405-848-8000 Ext. 852 (OFFICE)
405-879-7930 (FAX)
amccalmont@chkenergy.com



BLOWOUT PREVENTOR SCHEMATIC CHESAPEAKE OPERATING INC

WELL

: Dana 3 Federal 10 : Pecos Slope

FIELD RIG

: United #23

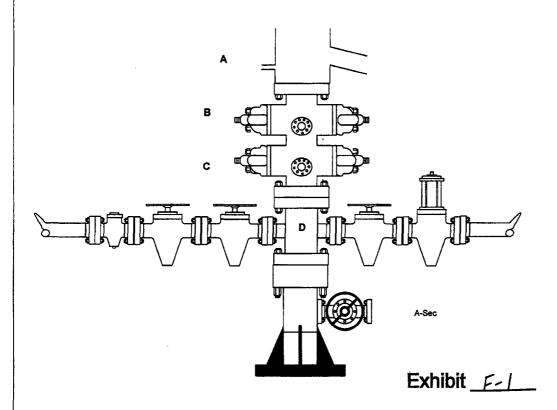
COUNTY

: Chaves

STATE: New Mexico

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

	SIZE	PRESSURE	DESCRIPTION
Α			Flow Line
В	11"	3,000#	Pipe Rams
С	11"	3,000#	Blind Rams
D	11"	3,000#	Mud Cross
П			
П			
A-Sec 8-5/8"		8-5/8	" SOW x 11" 3M



Kill Line

SIZE	PRESSURE	DESCRIPTION
2"	3,000#	Check Valve
2"	3,000#	Gate Valve
2"	3,000#	Gate Valve

Choke Line

SIZE	PRESSURE	DESCRIPTION
2"	3,000#	Gate Valve
2"	3,000#	HCR Valve
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CHOKE MANIFOLD SCHEMATIC CHESAPEAKE OPERATING INC

WELL : Dana 3 Federal 10 FIELD : Pecos Slope

RIG : Unknown

COUNTY: Chaves STATE: NM

OPERATION: 3M CHOKE MANIFOLD

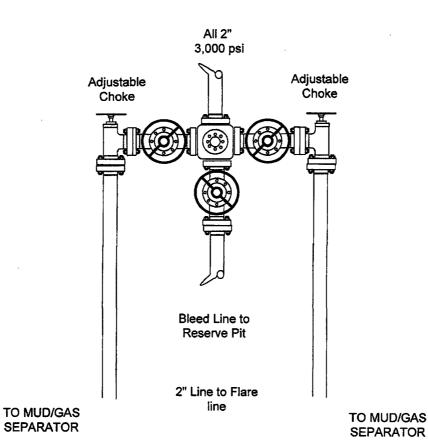


Exhibit F-2