Form 3160-3 (December 1990)	OPER. OGRID NO	147179	M	Divisi	Form approved.	1
(December 1990)	DEP PROPERTY NO.	CONTRACTOR AND A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRI	. 14	CONFIDE	NTIAL - TIGHT	HOLE
		16242	-		ESIGNATION AND SEP	IAL NO.
AP	PLICA	1. 20	-	6.IF INDIAN	108478 N, ALLOTTEE OR TRU	BE NAME
la TYPE OF WORK:	DI EFF. DATE 12	/14/03	_			
b. TYPE OF WELL:	APINO. 30.	025.36514	4ULTIPLE []	7.UNIT AG	REEMENT NAME	
2 NAME OF OPERATO	WELL Other	ZONE		8.FARM OF	R LEASE NAME, WELL	NO.
2 NAME OF OFERAN	CHESAPEAKE OPERATIN	G, INC. Attn. Sharon Dries		WILLI 9.API WEL	AM 14 FEDER	AL 1
3. ADDRESS AND TEL	LEPHONE NO. P.O. BOX 18496 OKLAHOMA	CITY OK 73154 40)5879-7985	30.	025-31	>514
4. LOCATION OF WEL	L (Report location clearly and in ac			10.FIELD A	ND POOL, OR WILDC	AT
At surface 1869	FNL 660 FWL SWNW			11.SEC.,T.,	R.,M.,OR BLOCK AND	SURVEY OR AREA
At top proposed prod.	zone 1869 FSL 660 FEL SWNW	UnitE			-35E NM	
14.DISTANCE IN MILES AND	DIRECTION FROM NEAREST TOWN OR			12. COUNT	TY OR PARISH	13. STATE
Approximately 25 miles	Northeast of Roswell, NM			LEA		NM
15.DISTANCE FROM PROPO LOCATION TO NEAREST		16.NO. OF ACRES IN LEASE		I	17.NO. OF ACRE	
PROPERTY OR LEASE L	INE, FT. 660	320			320	
18.DISTANCE FROM PROPO TO NEAREST WELL, DRI	SED LOCATION*	19.PROPOSED DEPTH			20.ROTARY OR	CABLE TOOLS*
OR APPLIED FOR, ON TH	IIS LEASE, FT.	13900			ROTARY	
21.ELEVATIONS (Show wheth 3979	er DF, RT, GR, etc.)	LEA COUNTY CONTROL	LED WATER BASIN		PPROX. DATE WORK	
3717		LEA COUNTY CONTROL		3121	1 ENEDESK 15, 2003	
23.		PROPOSED CASING AND CEN			OTIANT	Y OF CEMENT
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT #	SETTING DEPTH		QUANTIT:	Y OF CEMENT
"	"	#	6	· · · · · · · · · · · · · · · · · · ·	+/-	
	"	#	4		+/-	
Chesapeake Operating be run and the well of	ng, Inc. proposes to drill a we completed. If dry, the well w l the Surface Use Plan and Dr at Chesapeake Operating, Inc	Il to 13,900' to test the Morn ill be plugged and abandone	row and Mississippi Lin d as per BLM and NM (ne format OCD requ	ions. If product uirements	ive, casing will 5167778799
Attached please find	The Surface Use Plan and Dr	ning Plan as required by O	Ishore Order No. 1. Al	SO EXILO	A Charlough F.	100
Please be advised th agrees to be respons	at Chesapeake Operating, Inc ible under the terms and conc	e. is considered to be the Ope litions of the lease for the op	erator of the above ment erations conducted upor	ioned wel n the lease	ll. (Chesapeake e lands. Co	Operating, Inc. 22
Bond coverage for t	his well is provided by Chesa	peake Operating, Inc. under	AP	PROV.	ALSABIE	CT TO
			_		LREQUE	E MERCES
					CIAL STIP	ULATIONS
IN ABOVE SPACE DE proposal is to drill or de	SCRIBE PROPOSED PROGRAM eepen directionally, give pertinent	1: If proposal is to deepen, give d data on subsurface locations and	ata on present productive zo measured and true vertical	depths. Gi	posed new produc ve blowout preven	tive zone. If ter program, if any.
24.						
SIGNED	J. Marklos	J. Mark TITLE <u>Sr. Vice</u>	Lester President Exploration DA	ATE <u>Aug</u>	<u>rust 6, 2003</u>	
*(This space for Fede	eral or State office use)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	نا ینگره و زنان سری بانا و می انام میکند.	<u></u>		
PERMIT NO	Chis Welles	me	APPROVAL DATE _		2/24/0	5
	not warrant or certify that the applican			-	the the applicant to co	nduct operations
thereon. CONDITIONS OF AP	PROVAL, IF ANY:					
	/s/ Joe G. Lara	ACTING		~	c.	
APPROVED BY		TITLEF	ELD MANAGE	K DA	TE 22 DE	<u>C 2003</u>
		See Instructions On Re	verse Side		• · · • ·	

Title 18 U.S.C. Section 1001, makes 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

APPROVAL FOR 1 YEAR

CONFIDENTIAL - TIGHT HOLE

Lease No. NMNM 108478

SURFACE USE PLAN Page 1

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. William 14 Federal 1 1,869' FNL & 660' FWL Section 14-15S-35E LEA County, NM

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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. Driving directions to the well are: From the intersection of Gum Street and 3rd Street in Lovington, go north on 3rd Street for 3 miles. Turn left (west) on Stansill Road and go 2 miles. Then turn right (north) through locked gate. Go 0.7 mile to the location on the right.
- c. See Exhibit A-3 for proposed access road.
- a. Access and vicinity plats attached hereto. See Exhibits A1 through A3.

2. PLANNED ACCESS ROADS

- a. A new access road 3736.1' in length and 14' in travel way width with a maximum disturbance area of 30' will be built coming off the existing county road in a northerly direction.
- b. Any turnouts will be constructed according to BLM Permanent Resource Road Requirements.
- c. A locking gate will be installed at the site entrance.
- d. Any fences cut will be repaired. Cattle guards will be installed, if needed.
- e. 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.
- f. The driving directions to the William 14 Federal 1 are north from Lovington on 3rd St, on Reed Road go north 3 miles then turn west on Stansuld Road. West 2 miles turn north for .7 miles then east 640' to propose well site.
- 3. LOCATION OF EXISTING WELLS WITHIN A 1-MILE RADIUS OF THE PROPOSED LOCATION – see Exhibit B.

4. LOCATION OF PRODUCTION FACILITIES

It is anticipated that production facilities will be located on location. See Exhibit C.

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. William 14 Federal 1 1,869' FNL & 660' FWL Section 14-15S-35E LEA County, NM **CONFIDENTIAL – TIGHT HOLE**

Lease No. NMNM 108478

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

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

7. METHODS FOR HANDLING WASTE DISPOSAL

A lined earthen pit will be utilized during the drilling of this well. 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. <u>SURFACE OWNERSHIP</u> William McWhorter Rt. 2, Box 120 Lovington, NM 88260 ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. William 14 Federal 1 1,869' FNL & 660' FWL Section 14-15S-35E LEA County, NM

Lease No. NMNM 108478

SURFACE USE PLAN Page 3

- 12. <u>MINERAL OWNERSHIP</u> United States of America Department of Interior Bureau of Land Management
- 12. ADDITIONAL INFORMATION

A Class III cultural resource inventory report was prepared by Danny Boone of Boone Archaeological Services, LLC, for the proposed location and new access road. Clearance has been recommended. See Exhibit E.

13. <u>OPERATOR'S REPRESENTATIVES</u>

Drilling and Completion Operations

Colley Andrews District Manager P.O. Box 18496 Oklahoma City, OK 73154 405-879-9142 (OFFICE) 405-879-9530 (FAX) candrews@chkenergy.com

Drilling Engineer

Rob Jones P.O. Box 18496 Oklahoma City, OK 73154 405-810-2694 (OFFICE) 405-879-9571 (FAX) 405-623-5880 (MOBILE) rjones@chkenergy.com

Regulatory Compliance

Sharon E. Dries Regulatory Compliance Coordinator Mailing Address: P.O. Box 18496 Oklahoma City, OK 73154 Street Address: 6100 N. Western Oklahoma City, OK 73118 405-879-7985 (OFFICE) 405-879-9583 (FAX) sdries@chkenergy.com

Field Representative

Lynard Barrera 5401 Carlsbad Hwy Hobbs, NM 88240 (505) 391-1462 (OFFICE) (505) 391-9568 (FAX) (505) 631-4942 (MOBILE) Ibarrera@chkenergy.com **ONSHORE ORDER NO. 1** Chesapeake Operating, Inc. William 14 Federal 1 1.869' FNL & 660' FWL Section 14-15S-35E LEA County, NM

Lease No. NMNM 108478

SURFACE USE PLAN Page 4

14. CERTIFICATION

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: J. Mark Cestr Date: B/L/03

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. WILLIAM 14 FEDERAL 1 1,869' FNL & 660' FWL SW NW of Section 14-15-35E Lea County, NM

CONFIDENTIAL – TIGHT HOLE Lease Contract No. NMNM 108478

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

Formation	Depth	Subsea
San Andres	4640	-640
Glorietta	6210	-2210
Tubb	7460	-3460
Abo	8220	-4220
Wolfcamp	9830	-5830
Cisco Shale	10820	-6820
Cisco Limestone	11130	-7130
Canyon Pay	11630	-7630
Strawn	11830	-7830
Strawn Clastic	12050	-8050
Atoka Shale	12180	-8180
Brunson	12840	-8840
Morrow Lime	12900	-8900
Morrow Shale	13150	-9150
Lower Morrow Sand	13350	-9350
Austin	13400	-9400
Chester Shale	13560	-9560
Mississippi Lime	13740	-9740
Total Depth	13900	-9900

The estimated tops of important geologic markers are as follows:

CONFIDENTIAL – TIGHT HOLE Lease Contract No. NMNM 108478

DRILLING PROGRAM

Page 2

2. ESTIMATED DEPTH OF WATER, OIL GAS & OTHER MINERAL BEARING 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>	Formation	Depth
Oil	Cisco Limestone	11130
Oil	Canyon Pay	11630
Oil	Strawn	11830
Gas	Brunson	12840
Gas	Lower Morrow Sand	13350
Gas	Austin	13400

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. <u>BOP, Annular, Choke Manifold, Pressure Test</u> Exhibit F-1 and F-2.
 - 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.

DRILLING PROGRAM

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. WILLIAM 14 FEDERAL 1 1,869' FNL & 660' FWL SW NW of Section 14-15-35E Lea County, NM

Page 3

- 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
 - 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

- 3. 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.

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. WILLIAM 14 FEDERAL 1 1,869' FNL & 660' FWL SW NW of Section 14-15-35E Lea County, NM

DRILLING PROGRAM

Page 4

- 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 **<u>10 minutes.</u>**
- 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 AND CEMENTING PROGRAM
 - a. The proposed casing program will be as follows:

Purpose	Interval	<u>Hole</u> Size	<u>Casing</u> <u>Size</u>	<u>Weight</u>	<u>Grade</u>	Thread	Condition
Surface	0'-400'	17-1/2"	13-3/8"	48	H-40	STC	New
Intermediate	0'- 4,660'	11"	8-5/8"	32	J-55	STC	New
Production	0' – 13,900'	7-7/8"	5-1/2"	17&20	L-80	LTC	New

b. Casing design subject to revision based on geologic conditions encountered.

c. The cementing program will be as follows:

Interval	Туре	Amount	Yield	Washout	Excess
0'-400'	Class C + Additives	380	1.74	75	100
400'- 4,660'	Class C 50/50 Poz + Additives	900	2.37	75	100
4,660' – 13,900'	Class H + Additives	1300	2.3	10	30

ONSHORE ORDER NO. 1 Chesapeake Operating, Inc. WILLIAM 14 FEDERAL 1 1,869' FNL & 660' FWL SW NW of Section 14-15-35E Lea County, NM

DRILLING PROGRAM

Page 5

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'-400'	Fresh Water	8.6-9.0	32-36	NC
400'- 4,660'	Salt	10	32-34	NC
4,660' – 13,900'	Fresh water Poly	8.6-9.0	36-45	NC-10

A lined earthen 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. <u>ABNORMAL PRESSURES AND HYDROGEN SULFIDE</u>

- a. The estimated bottom hole pressures is 7000 psi. No abnormal pressures or temperatures are anticipated.
- b. Low levels of Hydrogen sulfide gas are expected to be encountered.

	ISTRICT I 9. Box 1980, Hobbs,	NK 88241-19	80		State of New Mexico Form C-10 Energy, Minerals and Natural Resources Department Revised February 10, 199				ry 10, 199		
	ISTRICT II 0. Drawer DD, Arteni	a, NH 86211-	-0719			P.0.	Box 20		ON Submit	to Appropriate Dir State Lease Fee Lease	
	ISTRICT III 200 Rio Brazos Rd	., Aztec, N	¥ 87410	Santa Fe, New Mexico 87504-2088							
	ISTRICT IV O. BOX 2086, SANTA		504-2088		ELL LOCATION AND ACREAGE DEDICATION					AMENDE	D REPOR
	30-025		514		Pool Code 242		A	ustin M	Pool Name Jiss. Su		
	Property Co 3322	9			WIL	LIAM	14 FE	DERAL		Well Num	
	14717	P	 	(CHESAP	-	OPERA	TING, INC.		Elevation 3979	
						Surfa	ce Loca	tion			
	UL or lot No. E	Section 14	Township 15-S	Range 35-E	Lot Idn		om the 69'	North/South line NORTH	Feet from the 660'	East/West line WEST	County LEA
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					LONG.	103.23.02			SURVEYO	OR CERTIFICA	TION
									on this plat w actual surveys supervison a	y that the well loca was plotted from fiel made by me or nd that the same i he best of my beli	d notes of under my s true and
X			ł		7				FEBR	UARY 17, 200)3
		•	 						Date Surver Signature & Prefessional	Seal of	AWB
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Exhibit <u>A-1</u>

VICINITY MAP



SEC. 14 TWP. 15-S RGE. 35-E

DESCRIPTION 1869' FNL & 660' FWL

ELEVATION _____ 3979'

OPERATOR <u>CHESAPEAKE OPERATING</u> INC. LEASE <u>WILLIAM 14 FEDERAL</u>

SURVEY N.M.P.M. COUNTY LEA SCALE: 1" = 2 MILES

JOHN WEST SURVEYING HOBBS, NEW MEXICO (505) 393-3117 Exhibit A-2

LOCATION VERIFICATION MAP





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Exhibit <u>B</u>





Exhibit ____

1/03	,	NEGATIVE	E/ABSTRACT/ SITE REPORT D/RFO			
1. BLM Report No.		2. Reviewer's Initials/Date 3.			IMCRIS No.: 8322	1
		ACCEPTED ()	REJECTED ()			
4. Type of Report:	N	legative(X)	Positive ()		
5.Title of Report:					6. Fieldwork Date	• •
Class III archaeological s	Class III archaeological survey of a pad and access road for the William "14" Fed.				from 29 April,	
vell No. 1.					7. Report Date 3	0 April, 2005
Author(s): Ann Boone						
 Consultant Name & Ad Boone Archaeologic 2030 North Canal 	al Services				9. Cultural Resou 190-2920-03-C	
Carlsbad, NM 88220 Direct Charge: Danny J Field Personnel Names	Boone	e			10. Consultant R BAS 04-03-26	eport No.
Phone: (505) 558-1352			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
11. Customer Name: Chesa		iting, Inc.			12. Customer Pro	ject No.:
Responsible Individual: Sh Address: P.O. Box 18496	aron Dries					
Oklahoma City, O	klahoma 731	54-0496				
Phone: (405) 848-8000						
13. Land Status	BLM	STATE	PRIVATE		OTHER	TOTAL
a. Area Surveyed (acres)	0	0	16.7 (+/-)		0 .	16.7 (+/-)
b. Area of Effect (acres)	0	0	6.25 (-/+)		0	6.25 (-/+)
14. Linear: Length; 3,730 Block: 600' x 600'		Width; 100' and	150' (See 16 b.)			
15. Location: (Maps Attac	hed if Negati	ve Survey)				
a. State: New Mexico						
b. County: Leac. BLM Office: Carlsb	ad					
d. Nearest City or Tow		. NM				
e. Legal Location: T	15S, R 35E, S	Sec. 14 (Priv. Surfac	ce Fed. Min.), Pad, SW	/¼ N	W1/4; Access Road	, SW¼ SW¼
f. Well Pad Footages:			¼ SW¼ SW¼, SW¼ S	5W%	4 SW 1/4:	
			urn City, SW (Photo-F	?evis	ed 1984) 33103-44	1
	(=)			20112		•

E

16 Proje	ect Data:	
	Lecords Search: Date(s) of BLM File Review: 28 April, 2003	Name of Reviewer (s): Ann Boone
•	Date(s) of ARMS Data Review: 28 april, 20	· · · · · ·
·	Findings (see Field Office requirements to determine area to	be reviewed during records search):
	No sites or previous projects within 1.0 miles.	
b. I	Description of Undertaking:	
	The pad location is staked at 400' x 400' and was surveyed a approximately 50' inside of the 400' x 400' staked pad area a junction with a paved Lea County Road. The east / west (30) pad suvey boundary and where the road turns south was a 15 of the proposed road is staked approximately 25' to the east s immediately on the west side of it. Because of the barrier for surveyed on the west side of staked centerline and 75' on the the project is an estimation. A plat is attached to this report.	nd trends west for 485' (+/-) then turns south to 5' +/-) portion of the proposed road between the we 50' wide survey. The north / south portion (3,226' + side of a livestock fence which has a buried pipelin rmed by the fence (also property line), 25' was
c. E	Environmental Setting (NRCS soil designation; vegetative co	mmunity; etc.):
	Topography: Flat, featurless plain of shallow soils with freq livestock grazing.	uent outcroppings of caliche, currently used for
	Vegetation: Overall groundcover is approximately 40%, mai yucca cactus, broom snakeweed and mesquite.	inly various grasses, walking stick cholla cactus,
	NRCS: Kimbrough-Lea association: Nearly level and gently deep to indurated caliche	sloping, gravelly and loamy soils that are moderat
d. 1	Field Methods: (transect intervals; crew size; time in field, ec	et.):
	Transects: For the pad a grid of parallel transects spaced 15 transects spaced 15 meters or less.	meters or less, for the road two parallel zig-zag
	Crew Size: One	
	Time in Field: 5.0 hrs.	
e	Artifacts Collected (?): None	
	tural Resource Findings: dentification and description: None	· ·
	Evaluation of significance of Each Resource: NA	
	nagement Summary (Recommendations):	
No cult William	ural resources were encountered on this project, therefore arc n "14" Fed. well No. 1 as presently staked is recommended. I should cease and the BLM Archaeologist notified immediate	f cultural resources are encountered at any time all
19.	· · · · · · · · · · · · · · · · · · ·	······
	that the information provided above is correct and accurate	and meets all annreciable RIM standards
	sible Archaeologist _ an Boone	$\frac{1}{Max} = 2002$
	Signature	<i></i>
	o Braturo	Date



B.4S

BLOWOUT PREVENTOR SCHEMATIC CHESAPEAKE OPERATING INC

STATE: New Mexico

WELL : William Federal 1-14

FIELD :

RIG : Unknown

COUNTY : Lea

OPERATION: Drill out below 13-5/8" Casing

	SIZE	PRESSURE	DESCRIPTION	
A	13-5/8"	5,000#	Annular	
D	13-5/8"	10,000#	Mud Cross	
Spool		13-5/8" 3M x 13-5/8" 10M		
A-Sec		13-5/8" SOW x 13-5/8" 3M		



Kill Line

SIZEPRESSUREDESCRIPTION2"10,000#Check Valve2"10,000#Gate Valve2"10,000#Gate Valve2"10,000#Gate Valve

Choke Line





STATE: New Mexico

WELL : William Federal 1-14

FIELD : RIG : Unknown

COUNTY : Lea

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

