1000 Rio Bra	zos Road, /	Aztec,	NM 87	<sup>40</sup> <b>RECE</b> 88210 JUN 0 3 1 HQBB5	1 Znnu	ergy I D Oi	State of Minerals 1 Conser 220 South Santa Fo	and I vation St.	Natura on Di Franc	al Reso vision is Dr.		Subm		Form C-101 June 16, 2008 riate District Office IENDED REPORT	
					~~~~~	DRII	L <b>L, RE-</b> J	ENT	ſER,	DEEP	EN, PLUGE	BAC	K, OR A	DD A ZONE	
	Operator Name and Address Chesapeake Operating, Inc P O Box 18496							<sup>2</sup> OGRJD Number 147179							
			C	Oklahoma City, O		496		30-025					API Number -25493		
-	rty Code						<sup>9</sup> Property Name State BG				· · · · · · · · · · · · · · · · · · ·	"Well No 2			
3	5/16	)		Proposed Pool 1					<del></del>		<sup>10</sup> Prop	osed F	Pool 2		
		SW	/D, Qu	ieen (Quail Queer	Unit)	7	Surface		ation						
UL or lot no G	'		·	Range 34 East	Lot Idn		Surface Loc Feet from the 1980'		North South line		Feet from the 1680'		st West line	County Lea	
	<u> </u>			<sup>8</sup> Pro	J posed B	I ottom l	Hole Loca	 tion I	f Diffe	rent Fro	m Surface	<u> </u>			
UL or lot no	Section	Tow	nship	Range	Lot		Feet from t	· · · · · ·		outh line	Feet from the	Eas	st/West line	County	
		l			ا	Additi	ional We	ell In	forma	ation					
<sup>11</sup> Work	Type Code			<sup>12</sup> Well Type Coo I	le		<sup>13</sup> Cable/Rotary			<sup>14</sup> Lease Type Code S		/	<sup>15</sup> Ground Level Elevation 3957'		
	ultiple N			<sup>17</sup> Proposed Depth 6200'			<sup>18</sup> Format Oueen	<sup>18</sup> Formation			<sup>19</sup> Contractor		<sup>20</sup> Spud Date ASAP		
12 1/ 7 7/	Hole Size         Casing Size           12.1/4"         9.5/8"           7.7/8"         4.1/2"			Casing and Cement Pro Casing weight/foot 36# 10.5# Extended to the property of			S(	gram     Current Well B       Setting Depth     Sacks of Cer       415'     190 sx       5570'     1205 sx       Ive the data on the present productive zer		ement XS SXS		Estimated TOC 0' 0'			
Describe the Please find th	blowout pr e procedur Convert to	eventi e to co	on prop nvert t	gram, if any. Us his well to an inj cedure, Current V	e additiona	al sheets I for the	If necessary Quail Queer	1 Unit	2 and C	-144(CLE					
<ul> <li><sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief</li> <li>Signature</li> </ul>							OIL CONSERVATION DIVISION								
	Br	n	1	An	$\square$		A	Approv	ea by	Ť	7 Kan	3			
Printed name Bryan Arrant						Т	Title PETROLEUM ENGINEER								
Title Senior Regulatory Compliance Specialist							A	Approv	al Date				tion Date		
E-mail Address bryan arrant@chk.com							JUN 2 3 2009								
Date. 6/2/2009 Phone (405) 935-3782					C	Conditions of Approval Attached									
L										<u> </u>					

esia, NM		<b>лен</b> С 12	nerals & Natura ONSERVA 220 South St	al Resources Depa FION DIVISIO . Francis Dr.	N S	Submit to App	Form C-102 vised October 12, 2005 ropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies AMENDED REPORT			
)er		<sup>2</sup> Pool Code		<sup>3</sup> Pool Name						
13		96117		SWD; Queen (Quail Queen Unit)						
			<sup>5</sup> Property		<sup>6</sup> Well Number					
<u> </u>	State BG						2			
			·····	<sup>9</sup> Elevation						
	Chesapeake Operating, Inc.						3957'			
n Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County			
4 19S	34E		1980'	North	1680'		East Lea			
	<sup>-11</sup> Bot	tom Ho	le Location I	f Different Fron						
n Township			Feet from the	North/South line	Feet from the	East/West	line County			
or Infill <sup>14</sup> Con	solidation Co	ode <sup>15</sup> Or	der No.	R-12952						
	NM 87410 JUN a Fe, NM 2509 WH ber 93 on Township 14 19S	Er tesia, NM RECEIV NM 87410 JUN 0 3 Z( ta Fe, NM/20BBSO( WELL LO ber 93 00 Township Range 14 19S 34E 11 Bot 20 Township Range	Energy, Min tesia, NM RECEIVER C 12 NM 87410 JUN 0 3 2009 ta Fe, NM/2008BSOCD WELL LOCATIO ber 2 Pool Code 93 96117 00 Township Range Lot Idn 14 19S 34E 11 Bottom Ho on Township Range Lot Idn	Investion       Energy, Minerals & Natural         tesia, NM       RECEIVEL       CONSERVAT         NM 87410       JUN 03 2009       Santa Fe, N         1220 South St       1220 South St         NM 87410       JUN 03 2009       Santa Fe, N         ta Fe, NM/270       BBSOCD       WELL LOCATION AND ACF         ber       2 Pool Code       93         93       96117       State B         * Property         State B         * Operator         Chesapeake Ope         10 Surface         11 Bottom Hole Location I         In Township         Range       Lot Idn         Feet from the         11 Bottom Hole Location I         In Township         Range         Lot Idn	Energy, Minerals & Natural Resources Depa tesia, NM RECEIVED CONSERVATION DIVISIO 1220 South St. Francis Dr. 1220 South St. Francis Dr. 120 South St. 120 South St. Francis Dr. 120 South St. 120 South S	Interse interse       Energy, Minerals & Natural Resources Department         Energy, Minerals & Natural Resources Department         CONSERVATION DIVISION         1220 South St. Francis Dr.         NM 87410         JUN 0.3 ZOU9         Santa Fe, NM 87505         a Feool Code <td co<="" td=""><td>NM 88240       Energy, Minerals &amp; Natural Resources Department       Rev         tesia, NM       RECEIVED       CONSERVATION DIVISION       Submit to App         1220       South St. Francis Dr.       1220         NM 87410       JUN 0 3 2009       Santa Fe, NM 87505       Image: Conservation of the second of the second</td></td>	<td>NM 88240       Energy, Minerals &amp; Natural Resources Department       Rev         tesia, NM       RECEIVED       CONSERVATION DIVISION       Submit to App         1220       South St. Francis Dr.       1220         NM 87410       JUN 0 3 2009       Santa Fe, NM 87505       Image: Conservation of the second of the second</td>	NM 88240       Energy, Minerals & Natural Resources Department       Rev         tesia, NM       RECEIVED       CONSERVATION DIVISION       Submit to App         1220       South St. Francis Dr.       1220         NM 87410       JUN 0 3 2009       Santa Fe, NM 87505       Image: Conservation of the second		

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.

16			
			<sup>17</sup> OPERATOR CERTIFICATION
			I hereby certify that the information contained 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 inferest in the land including
			the proposed bottom hole location or has a right to drill this well at this
	0		
	00		location pursuant to a contract with an owner of such a mineral or working
	0		merest, or to a voluntary pooling agreement or a compulsory pooling
			order heretofore entered by the division
			6/02/2009
			Signature Date
			Signature Date
	6 /	1680	Bryan Arrant
	· · · · · · · · · · · · · · · · · · ·		Printed Name
			18
			<sup>18</sup> 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
			Date of Survey
			Signature and Seal of Professional Surveyor
			Please Refer to Original Plat
			C ·
			Certificate Number



## **Current Wellbore Schematic**

STATE BG 2





## State BG 2 Convert to Injection Lea County, New Mexico

Date: November 14, 2007

Location: 1,980' FNL & 1,680' FEL Sec. 14-T19S-R34E

Production Casing: 4-1/2", 10.5#, 0-5,570', 1D-4.052", Drift-3.927", Burst-4,790#

PBTD/TD: 5,531' / 5,570'

Existing Perfs: Queen 5,178' - 5,186'

## **Procedure**

- 1. MiRU workover rig. TOH w/7/8" and ¾" rods and pump and BHA. ND WH. NU BOP. TOH w/2-3/8" production tubing.
- 2. MIRU wireline unit. RIH and perforate Queen as follows:

Queen Queen Queen Queen Queen Queen	5,214' - 5,226' 5,204' - 5,206' 5,178' - 5,186' 5,159' - 5,169' 5,141' - 5,154' 5,124' - 5,136'	12' 2' 8' 10' 13' 12'	2 SPF 2 SPF 2 SPF 2 SPF 2 SPF 2 SPF 2 SPF	24 holes 4 holes 16 holes 20 holes 26 holes 24 holes
		57'		114 holes

Correlate to CN/FD log from 4/26/77. RDMO Wireline unit.

- PU 4-1/2" x 2-3/8" treating packer and 2-3/8" tubing and TIH to 5,226' and spot 15% HCI acid across Queen interval (5,124' – 5,226'). PUH and set packer at ~5,050'.
- MIRU acid service and acidize Queen (5,124' 5,226') with 5,000 gals of 15% HCI acid using rock salt as diversion. Shut down and record ISIP, 5 min, 10 min and 15 min pressures. RDMO acid service.
- 5. Flow back well to recover spent acid. Once well is dead, unset treating packer and TOH.
- TIH w/4-1/2" x 2-3/8" injection packer and 2-3/8" TK-99 plastic coated tubing to ~5,050'. Circulate packer fluid and set packer. Test backside to 500 psi for 15 minutes.
- 7. ND BOP. NU WH. RDMO workover rig.
- 8. Once injection permit is received, begin injection.