District I

District IV

State of New Mexico

Form C-101 June 16, 2008

District II

District III

District III District III

1000 Rio Brazos Road, Aztec, NM 87410JUN 03 2009 1220 S St Francis Dr., Santa Fe, NM 82103BBSOCD

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

API	PLICA'	ΓΙΟΝ	, F(OR PERM	IT TO	DRII	LL, RI	E-EN	ΓER.	DEEP	EN, PLUGE	SAČK. (OR A	DD A ZONE	
Operator Name and Address Chesapeake Operating, Inc P.O. Box 18496 Oklahoma City, OK 73154-0496						OGRID Number 147179									
										30 – 025-20	3 API N 6707	umber			
Property Code Property Wainocc						Property 1 Wainoco S	y Name Well No								
	<u> </u>	CUVI		Proposed Pool 1	. 11.40						¹⁰ Prop	osed Pool 2	2	· · · · · · · · · · · · · · · · · · ·	
		SWL), Qu	een (Quail Queer	1 Unit)	7	Surfac	e Loc	L cation						
UL or lot no A	Section 11	Towns				Feet fro	m the	North/South line		Feet from the 990'	East/West line County Lea				
· · · · · · · · · · · · · · · · · · ·		<u> </u>		⁸ Pro	posed B	ottom	Hole Lo	cation	If Diffe	rent Fro	m Surface				
UL or lot no	Section	Towns	hip	Range	Lot		Feet fro				Feet from the	East/West line		County	
		I	1			Addit	ional V	Vell In	ıforma						
11 Work	Type Code)		¹² Well Type Co	de		¹³ Cable	/Rotary		14	Lease Type Code S	se Type Code 15		⁵ Ground Level Elevation 3969'	
	ultiple N			¹⁷ Proposed Dep 6200'	th		¹⁸ Forr Que				¹⁹ Contractor	²⁰ Spud Date ASAP			
		•	2	¹ Proposed	Casing	and (Cemen	t Prog	ram	C	urrent Well F	Bore			
Hole S	ize		Cası	ng Size	Casınş	g weigh	t/foot	Setting Depth		Sacks of Cement		Estimated TOC			
11'				5/8"	23#			1831'		700 sxs		0,			
7 7/8	ξ"		4	1/2"		10.5#	6200'		, ,	787 sxs			2800'		
														· · · · · · · · · · · · · · · · · · ·	
22 Describe t	he propose	d progra	m If	this application	is to DEE	PEN or	PLUGRA	CK gr	e the dat	a on the n	recent productive 3	one and nr	onosad :	new productive zone	
Describe the Please find th	blowout pr e procedure	evention to con	n prog vert tl	gram, if any Usinis well to an injucedure, Current	e additiona ection well	l sheets for the	of necessa Quarl Que	ary een Unit				one and pro	oposeu i	iew productive zone	
R Order 1295	2								in the second	Permi t	Expires 2 Y	cors Fr	om A	pprovid	
									•	V Da	te Unices D	Ming L	o C	weg L	
												124	, , ,		
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief						to the	OIL CONSERVATION DIVISION								
Signature A					Approved by										
Printed name Bryan Arrant						Title CALPOLEUM ENGINEER									
Title Senior Regulatory Compliance Specialist							Appro	Approval Date Expiration Date							
E-mail Addre	ss bryan aı	rant@c	hk co	m				JUN 2 3 2009							
Date 6/2/2009 Phone (405) 935-3782						Conditions of Approval Attached									

District I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico

Form C-102 Revised October 12, 2005

<u>District II</u>

Energy, Minerals & Natural Resources Department

Submit to Appropriate District Office

1301 W. Grand Avenue, Artesia, NM RECEIVED CONSERVATION DIVISION District III

1220 South St. Francis Dr.

State Lease - 4 Copies Fee Lease - 3 Copies

1000 Rio Brazos Rd., Aztec, NM 87410 District IV

JUN 03 2009

Santa Fe, NM 87505

1220 S. St. Francis Dr., Santa Fe, NM 8790BBSOCD									ENDED REPORT	
		, W	ELL LO	CATIO	N AND ACR	EAGE DEDIC	ATION PLA	T		
1 A	r		² Pool Code		³ Pool Name					
3		-	96117		SWD; Queen (Quail Queen Unit)					
4 Property C	⁴ Property Code				6	⁶ Well Number				
						3				
⁷ OGRID I	No.				⁸ Operator N	lame			9 Elevation	
147179				3969'						
			-		¹⁰ Surface I	Location		•		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin-	County	
A	11	1 19S 34E 990' North 990' East						t Lea		
			11 Bc	ottom Ho	le Location If	Different Fron	n Surface		·	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	County	
12 Dedicated Acres	¹³ Joint o	r Infill 14 C	onsolidation	Code 15 Or	der No.	R-12952				
-										
	_1				·					

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		990'	17 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 interest in the land including the proposed bottom hole location or has a right to brill this well at this location pursuant to a contract with an owner of such a nimeral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretifpre entered by the distant
			Printed Name 18 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 Certificate Number



Current Wellbore Schematic with Survey Tracks WAINOCO STATE 3

Field: QUAIL QUEEN County:

NEW MEXICO State:

Elevation: GL 3,969.00 KB 3,981.00

KB Height: 12.00

Location: SEC 11, 19S-34E, 990 FNL & 990 FEL

Spud Date: 4/20/1980 Spud Date: 4/20/1980 Initial Compl. Date: API #: 3002526707 CHK Property #: 891069 1st Prod Date: 7/1/1980 PBTD: Original Hole - 5856.0 TD: 6,200.0

	ftKB 1	Well Config: - Original H	THE PROPERTY OF THE PARTY OF TH		Well History	Event
-2	(TVD) In	arf (本) 10世 2007年夏春中 中央教授者	Schematic - Actual	· 赞的"解释"。例识"·治"	5/16/1980	PERF @ 5546'-50', 560'-63', 68'-74', 81'-88', 5562'-66', 5700'-05', 10'-18', 22'-39' w/ 2 jspf, 108 holes ACDZ ,5662'-5739' w/ 3120 gal 15%
2		,			5/21/1980	NEA ACDZ 5546'-5588' w/ 2500 gal
12		CLES COLD PLANSACO DE SE ESTE DE LOS LATERALES DE PONDACES.		Polished Rod, 1 1/4, 20	6/30/1980	15% NEA PERF @ 5029'-5039', 5000'-5006', 4983'-4986' & 4974'-4979' w/ 2 jspf ACDZ
20				Rod Sub, 7/8, 22	1/3/2001	4974'-5039' w/ 1000 gal 15% NEA FRAC w/ 23940 gal gld w & 25000# 20/40 sd Tubing - Production set at
22				Dod Cub. 7/9. 34	1/3/2001	5,124 2ftKB on 1/3/2001
24			1. 电极	Rod Sub, 7/8, 24 Sucker Rod, 7/8, 649		
649				Sucker Rou, 7/8, 043		
1,830						
1,831		8 5/8" 23# Suf Csg Cmt w/ 700 sx. Circ				
2,800		TOC by Vol Calc		Tubing, 2 3/8, 5,089 Sucker Rod, 3/4, 5,074		
4,974						
5,039				— 4,974, 5,039		
5,074						
5,089				Rod Pump, 1 1/2, 5,090		
5,090				Seat Nipple, 2 3/8, 5,090		
5,093				Perforated Joint, 2 3/8, 5,093		
5,124				— Tubing, 2 3/8, 5,124		
5,546						
5,588			1	5,546, 5,588	-	
5,662				5,662, 5,739		
5,739				3,002, 3,133		
5,856		PBTD, 5,856				
5,908						
5,909		4 1/2" 10.5# Prod Csg Cmt w/ 787 sx				
6,200		TD, 6,200, 5/9/1980				



Wainoco State 3 Convert to Injection Lea County, New Mexico

Date: November 13, 2007

Location: 990' FNL & 990' FEL Sec. 11-T19S-R34E

Production Casing: 4-1/2" 10.5# 0-5,909', ID-4.052", Drift-3.927", Burst-4,790#

PBTD/TD: 5,856'/ 6,200'

Existing Perfs: Queen 4,974' - 5,036'

Queen 5,546' - 5,588' Queen 5,662' - 5,739'

Procedure

 MIRU workover rig. TOH w/7/8" and ¾" rods and 1-1/2" pump and BHA. ND WH. NU BOP. TOH w/2-3/8" production tubing.

- MIRU wireline unit. PU 4-1/2° CIBP, RIH and set at ~5,530'. Tag plug to verify, POH. PU bailer and RIH and bail 35' cmt on top of CIBP set at 5,530'. POH.
- 3. RIH and perforate Queen as follows:

Queen Queen Queen Queen	5,057' - 5,060' 5,029' - 5,039' 5,014' - 5,018' 5,000' - 5,006' 4,983' - 4,986'	3' 10' 4' 6' 3'	2 SPF 2 SPF 2 SPF 2 SPF 2 SPF	6 holes 20 holes 8 holes 12 holes 6 holes
Queen	<u> 4,974' – 4,979'</u>	5'	2 SPF	10 holes
		31'		62 holes

Correlate to CD/CN log from 5/10/80. RDMO Wireline unit.

- PU 4-1/2" x 2-3/8" treating packer and 2-3/8" tubing and TIH to 5,060' and spot 15% HCl acid across Queen interval (4,974' – 5,060'). PUH and set packer at ~4,950'.
- MIRU acid service and acidize Queen (4,974' 5,060') with 3,000 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.
- 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 ~4,930'. Circulate packer fluid and set packer. Test backside to 500 psi for 15 minutes.
- 8. ND BOP. NU WH. RDMO workover rig.
- Once injection permit is received, begin injection.