<u>District I</u> 1625 N. Fren <u>District II</u>	ch Dr., Hob	bs, NM 8824	RECE	VE	State Grgy Minera	of New Mals and Nat	fexico tural Reso	urces			Form C-101 June 16, 2008	
District III   1301 W. Grand Avenue, Artesia, NM 88210   District III   MAY 2 8 2009   1000 Rio Brazos Road, Aztec, NM 87410   District IV   District IV   District IV   Oil Conservation Division   Submit to appropriate District IV   District IV												
<u>District IV</u> 1220 S. St. Fr	ancis Dr., S	UUU	a Fe, NM 8					MENDED REPORT				
AP	PLICA	<b>FION FC</b>				E-ENTEI	R, DEEP	EN, PLUGE		K, OR A	DD A ZONE	
			Operator Name Chesapeake Ope P.O. Box-	rating, In 8496	с.			147179	<sup>3</sup> A	PI Number		
<sup>3</sup> Prope	rty Code	0	klahoma City, Ol	< 73154-0	<sup>°</sup> Property			30-025-2	<u>6221</u>		ll No.	
33	701	<u></u>	roposed Pool 1		Quail S			10 Drov			Υ	
<96	112)		roposed Pool I een (Quail Queen	Unit)					oosed P	001 2		
	4			I		ce Locatio		Test				
UL or lot no. I	Section 11	Township 19S	Range 34E	Lot	1	om the N	orth/South South	Feet from the 759'	Eas	t/West line East	County Lea	
				T	ottom Hole Lo				T			
UL or lot no.	Section	Township	Range	Lot	Idn Feet fr	om the No	th/South line	Feet from the	Eas	t/West line	County	
11 Works	Type Code		12 Well Type Cod		Additional V	Well Infor e/Rotary		Lease Type Code		<sup>15</sup> Grou	ind Level Elevation	
	e p		1					S N			3960' GL	
	ultiple N		<sup>17</sup> Proposed Dept 5600'	h	1	mation teen	<sup>19</sup> Contractor				<sup>29</sup> Spud Date ASAP	
Hole S	ize	Casi	<sup>21</sup> Propose		ing and Cen	1	am-Origi 3 Depth	nal Well Bor Sacks of Co			Estimated TOC	
11'			5/8"		24#		50'	375 s			0,	
77/8	?"	4	1/2"		10.5#	5600' 575 sxs			XS		3426'	
Describe the Please find th section of pro For more info	blowout pro e following posed injec rmation, plo	evention prog information ( tion interval, case refer to F	rám, if any. Use to re-enter this w NMOCD's C-10 R-12952	additiona ell: Curre 2 Land P 2 Land P	nl sheets if necess nt Wellbore Sche Int & C-144(CLE <b>nit Expires</b> Date Unles	arý. matic, Conver Z) Pit Permit. 2 <b>Years</b> 5 <b>Drittin</b>	t to Injection	Procedure, Compe	nsated RE	Neutron Lo	<b>VED</b> 2009	
<sup>23</sup> I hereby cer best of my kn			given above is tr	ue and co	implete to the		OIL C	ONSERVA	ΓΙΟΝ	I DIVIS	ION	
Signature:	Bu	f.	An	- e	1	Approved by	y:	Mail				
Printed name:	Bryan Arra	ant				Title:	PETRÓI	BUM ENGIN	Ŵ6	<u> </u>		
Title: Senior I	Regulatory (	Compliance S	pecialist			Approval D	ate:	F	Expirati	on Date:		
E-mail Addre	ss: bryan.ar	rant@chk.co	າ			111						
Date 5/28/20	09		Phone: (405)	935-3782		Conditions of	of Approval A					

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#### **Current Wellbore Schematic**

QUAIL STATE 3Y

Field: QUAIL QUEEN County: LEA State: NEW MEXICO Elevation: GL 3,960.00 KB 3,970.00 KB Height: 10.00 Spud Date: 2/14/1979 Initial Compl. Date: API #: 3002526221 CHK Property #: 891045 1st Prod Date: PBTD: Original Hole - 5580.0 TD: 5,600.0



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#### Quail State 3Y Convert to Injection <u>Lea County, New Mexico</u>

## Well Information

Location:	1,841' FSL & 759' FEL Sec. 11-T19S-R34E
CHK Prop Num:	891045
API Num:	3002526221
PBTD/TD:	5,580' / 5,600'

Casing and Tubular Data:

STRING	((iii)) (		GRYADE					
Surface	8.625	24 & 32	J-55	8.097	7.972	2,950	1,850'	Surf
Production	4.500	10.5	J-55	4.052	3.927	4,790	5,600'	3,426'
						~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		(Calc.)
Tubing	2.375	4.7		1.995	1.901	7,700	4,833'	N/A

Perforation Data:

FORMAUTON		MonnoM	HEIGHN	SHOU DENSIOY	FOUS	CRIVATING COMMENTS
Queen	5,002'	5,008'	6'	??	??	Producing
Queen	5,090'	5,096'	6'	??	??	Producing
Queen	5,532'	5,540'	8'	??	??	Producing

For further detail, please see attached wellbore schematic.

# <u>Procedure</u>

- 1. 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.
- 2. MIRU wireline unit. PU 5-1/2" CIBP, RIH and set at ~5,500'. Tag plug to verify, POH. PU bailer and RIH and bail 35' cmt on top of CIBP set at 5,500'. POH.
- 3. RIH and perforate Queen as follows:

	C IOS	EQUINOMI	PIEIECENI/	TOTOTOTOTO TOTOTOTOTOTO TOTOTOTOTOTOTOT	SHIQUES (	- I-HASING	Sunterview
Queen	5,002'	5,008'	6'	3 SPF	18	60	
Queen	5,012'	5,034'	22'	3 SPF	66	60	a (Windowski) and a second
Queen	5,042'	5,050	8'	3 SPF	24	60	

Queen	5,058'	5,060'	2'	3 SPF	6	60	
Queen	5,070'	5,080'	10'	3 SPF	30	60	enere un un an adapt conferingenzam. 2 a
Queen	5,090'	5,096'	6'	3 SPF	18	60	
Total	5,002'	5,096'	52'	3 SPF	156	60	

Correlate to CD/CN log from 2/27/79. RDMO Wireline unit.

- 4. PU 5-1/2" x 2-3/8" treating packer and 2-3/8" tubing and TIH to 5,100' and spot 15% HCl acid across Queen (5,002' 5,096'). PUH and set packer at ~4,950'.
- 5. MIRU acid service and acidize Queen (5,002' 5,096') 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.
- 6. Flow back well to recover spent acid. Once well is dead, unset treating packer and TOH.
- TIH w/5-1/2" 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.
- 9. Once injection permit is received, begin injection.

## **Contact Information**

Workover Superintendent:	Lynard Barerra	Office 575-391-1462 Cell 575-631-4942
Production Superintendent:	Curtis Blake	Office 575-391-1462 Cell 575-631-9936
Production Foreman:	Ralph Skinner	Office 575-391-1462 Cell 575-441-4921
Asset Manager:	Charlie Robinson	Office 405-879-8522 Cell 405-213-5343

DresserAtias	Combinati	on Logg	jing	System	15		J
	Compens	ated D8	nei	llog		1/0	
(DRESSER)							
	Compens	ated <b>NC</b>	Ma	on		2/	
FILE NO.	COMPANY_	EAD A	ND.	STEVE	NS	Thic	
	WELL QUI						
1. Mar 4 - Mar	FIELD Qu						
		<u>A</u>		STATE	Nε		
	LOCATION: 18	41'F. 59'F	51. EL			Other Se DLL/M	rvic L/J
	SEC _1/1			nor 34	<b>.</b> F		~~/
Permanent Datum	GL			3960		Elevatio KB .3970	ns;
Log Measured from	KB	10				кв <u>.397</u>	6
Dulling Measured from	KB		- FI. Aba	ve Permanent	Datum	DF	~
Date	2/27/79		1				<u> </u>
Run No.	ONE	··					_
Service Order	26405						
Depth-Driller	5600					<u>.</u>	
Depth-Logger	5594	·					
Bottom Logged Interval	5592						
Top Logged Interval	SURFACE						
Casing-Driller	8 /8 @ 1906	@		<u> </u>			
Casing-Logger	NOT LOGGED			@		@	
Bit Size	77/8						
Type Fluid in Hole	SALTGEL	······································					
Density and Viscosity	10.3 35						
pH and Fluid Loss	7.5cc		+				
Source of Sample	CIRC		C		¢¢	<u> </u>	
Rm@ Meas. Temp.	.055 @ 60 °F	@	•F	-		·	
Rmi @ Meas. Temp.	.05 @ 60 F	@		@	•F	. @	
	- @ - •F	@	•F	@	· · ·	@	
Rmc @ Meas. Temp.	M	<u> </u>		<u> </u>	,°F	. <u>)</u> @	
Source of Rml and Amc			•F		- F		
Source of Aml and Amc Rm @ BHT	1.03 @1/n **!		<u>-</u>	e		@	
Source of Aml and Amc Am @ BHT Ime Since Circ.	.03 @110 °F						
Source of Aml and Amc Am @ BHT Ime Since Circ. Aax. Rec. Temp. Deg F.	4 HOURS	·					
Source of Aml and Amc Am @ BHT Ime Since Circ.	4 HOURS 110 °F		٩F		•F		
Source of Aml and Amc Am @ BHT Ime Since Circ. Aax. Rec. Temp. Deg F.	4 HOURS		•F		• F		0

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<u>District I</u> 1625 N. French D <u>District II</u> 1301 W. Grand A <u>District III</u> 1000 Rio Brazos F <u>District IV</u> 1220 S. St. Franci	venue, Artesi Rd., Aztec, Ni	n, NM 88210 M 87410 Fe, NM 87505	BR20 1	011.0 2009 12 DCD	erals & Natu ONSERVA 220 South S Santa Fe,	ew Mexico ral Resources Depa ATION DIVISIO St. Francis Dr. NM 87505	И	Submit to A	Appropriate State L Fee L	Form C-102 ctober 12, 2005 District Office ease - 4 Copies ease - 3 Copies DED REPORT	
		W	ELL LC		the second se	REAGE DEDIC				······	
1	API Number	r		<sup>2</sup> Pool Code			SWD: Queen (Quai	ool Name			
30-025-26221				96117			SWD; Queen (Quar	I Queen Onit			
<sup>4</sup> Property	Code				<sup>5</sup> Proper	<sup>5</sup> Property Name <sup>6</sup> Well Number					
33	707				Quail	State				3Y	
'OGRID	No.				" O'perat	or Name	•	,	-	levation	
147179	)				Chesapeake C	perating, Inc.			390	i0' G.L.	
	I				<sup>10</sup> Surfac	e Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from t	he North/South line	Feet from the	East	West line	County	
1	11	19 S	34E		184	1' South	790'		East	Lea	
L	J	I	<sup>11</sup> Bc	ottom Ho	le Location	If Different From	m Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from			East	West line	County	
12 Dedicated Acre	s <sup>13</sup> Joint o	r Infill	onsolidation	Code 15 Or	der No.						
				R-12							

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 beltef, and that this organization either
				owns a working interest or unleased mineral interest in the land including
				the proposed bottom hale location or has a right to drill this well at this
			•	location pursuant to a contract with an owner of such a mineral or working
				interest, or to a voluntary pooling agreenant or a compulsory pooling
				order heretofore entered by the division
				5/28/2009
				Signature Date
				Bryan Arrant Printed Name
				רחתנם ואמתוכ
				<sup>18</sup> SURVEYOR CERTIFICATION
				I hereby certify that the well location shown on this
		75	59' FEL	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:
		L L		
		1841' FSL		
		18		Please Refer to Original Plat
				Certificate Number