

NM OIL CONSERVATION  
ARTESIA DISTRICT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FEB 28 2019

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

RECEIVED

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM7724
2. Name of Operator COG OPERATING LLC Contact: DANA KING E-Mail: dking@concho.com		6. If Indian, Allottee or Tribe Name
3a. Address 800 W ILLINOIS AVENUE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-818-2267	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T16S R30E Mer NMP 1650FNL 330FWL		8. Well Name and No. SANTA ELENA 19 FEDERAL 1
		9. API Well No. 30-015-40567
		10. Field and Pool or Exploratory Area WILDCAT
		11. County or Parish, State EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

COG Operating LLC respectfully requests to recomplete the Santa Elena 19 Federal #1.

We plan to have our top perfs from 3,100' to 3,300'. Ideally, we like to have the additional space of rathole below our bottom perfs to give our bottom hole assembly room and prevent tubing from getting stuck with sand. In addition to having desired rathole space, this gives COG the option to re-enter the paddock formation at a later time.

Please see the attached Proposed Recompletion Procedure, Current WBD and Proposed WBD.

*Square LAKE  
GILBYBURG-5A  
5757D*

14. I hereby certify that the foregoing is true and correct.  
Electronic Submission #456193 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad

Name (Printed/Typed) DANA KING	Title PERMIT SPECIALIST II
Signature (Electronic Submission)	Date 02/27/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE

Approved By _____	Title _____
Conditions of approval, if any, are attached. Approval of this notice 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.	Office _____

*Pending BLM approvals will subsequently be reviewed and scanned  
2-28-2019*

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly to make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction to any department or agency of the United States

(Instructions on page 2) \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

*Rev 3-1-19.*

**Santa Elena 19 Federal #1H Proposed Recompletion Procedure 30-015-40567**

We plan to have our top perfs from 3,100' – 3,300'. Ideally, we like to have the additional space of rathole below our bottom perfs to give our bottom hole assembly room and prevent tubing from getting stuck with sand. In addition to having desired rathole space, this gives COG the option to re-enter the paddock formation at a later time.

**Equipment Pull Procedure**

- RIH w/ perforating guns and perforate San Andres Zone from 3,100'-3,300', w/ 3 spf, 120° phasing, 54 holes
- Dump bail acid in the perf interval
- NU 5K frac valve
- Secure wellbore
- RDMO WSU

**Tentative Recompletion Procedure**

- RU Elite Well Services Frac Crew
- Acidize w/ 3,000 gals of 15% HCl.
- XL Frac zone w/ 200,000 # of sand.
- Record ISIP and FG, Get 5, 10, 15 min SIP
- RDMO Elite

**Return to Production Procedure**

- MIRU WSU
- RIH with bit and bailer to drill
- Clean out fill to new PBD @ 4,200'
- RIH with production tubing as follows:
  - (97) jts 2-7/8" J55 6.5# tbg
  - (1) 2' marker joint
  - (2) jts 2-7/8" J55 6.5# tbg
  - TAC @3,000'
  - (27) jts 2-7/8" J55 6.5# tbg
  - SN @ 4,097'
  - (1) 20' MSMA
  - EOT @ 4,117'
- ND BOP, set TAC, flange up WH
- RIH w/ rod design as follows:
  - (1) 26' x 1-1/2" SMPR
  - (1) 6' x 3/4" rod sub
  - (2) 8' x 3/4" rod subs
  - (156) 3/4" D rods
  - (7) 1-5/8" K bars
  - (1) 25-150 RHBC-20' Pump
- Hang on, load tubing and note pump action and alignment
- Clean location
- PWOP
- RDMO, TOTP

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
**District III**  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

MAR 04 2019

AMENDED REPORT

**RECEIVED**  
WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-40567	<sup>2</sup> Pool Code 57570	<sup>3</sup> Pool Name Square Lake, Grayburg - San Andres
<sup>4</sup> Property Code 311967	<sup>5</sup> Property Name Santa Elena 19 Federal	
<sup>7</sup> OGRID No. 229137	<sup>6</sup> Well Number 1	
	<sup>8</sup> Operator Name COG Operating, LLC	
	<sup>9</sup> Elevation 3,740'	

**Surface Location**

UL or lot no.	Section	Township	Range	Lot 1 dn	Feet from the	North/South line	Feet from the	East/West line	County
2	19	16S	30E		1650	North	330	West	Eddy

**Bottom Hole Location If Different From Surface**

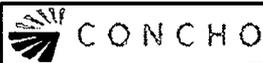
UL or lot no.	Section	Township	Range	Lot 1 dn	Feet from the	North/South line	Feet from the	East/West line	County
H	19	16S	30E		1693	North	341	East	Eddy

<sup>10</sup> Dedicated Acres 156.64	<sup>11</sup> Joint or Infill <i>36.46</i>	<sup>12</sup> Consolidation Code	<sup>13</sup> Order No.
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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.

	<p><b>OPERATOR CERTIFICATION</b></p> <p>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 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 agreement or a compulsory pooling order heretofore entered by the division.</p> <p style="text-align: right;"><i>Dana King</i>      3/4/2019</p> <p>Signature      Date</p> <p>Dana King Printed Name</p> <p><a href="mailto:dking@concho.com">dking@concho.com</a> E-mail Address</p> <p><b>SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p> <p>Certificate Number</p>
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*RWP 3-5-19*



### CURRENT WELLBORE DIAGRAM

11/2/2017	Well Ownership
07/12/2013	SPUD
02/17/2013	200 Stage Platform Inst.
02/17/2013	Platform to DOP
02/17/2013	Convert to Rods

API: 70-013-20367  
 SPUD: 12/05/2012  
 PERM: 12/06/2012  
 RIG: Silver Creek II  
 LAT: 32.809941  
 LONG: -104.0185699

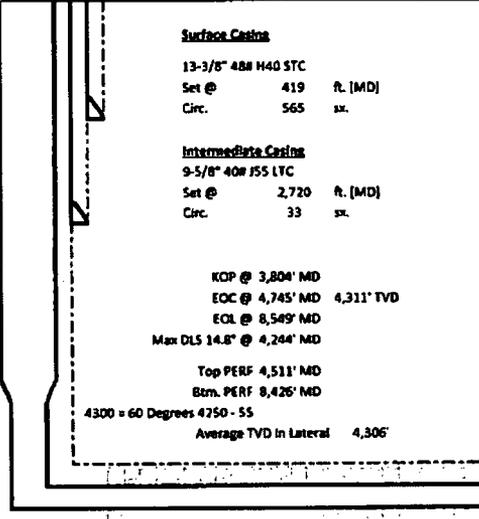
Santa Elena (9 Federal III)  
 Pavo Mesa- Abo Field  
 Gloriaita-Yeso Pool  
 Eddy County, NM  
 Paddock Formation

REL: Sec. 19, T. 16S - R. 30E  
 1,650 F.M. @ 330' F.W.L.  
 BML: Sec. 19, T. 16S - R. 30E  
 1,697 F.M. @ 341' F.W.L.  
 CL: 3,740'  
 KB: 3,754'

HOLES	CEMENT DETAILS
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FEET	Description	Footage (FEET)	Depth
100	2-7/8" 6.5# J55 TBG	8477.6	3949.27
1	2' NS	2	3947.27
2	2-7/8" 6.5# J55 TBG	64.2	3883.07
1	7" x 2-7/8" TAC	8	3875.07
28	2-7/8" 6.5# J55 TBG	564	4198.47
1	2-7/8" SH	1.1	4199.57
1	2-7/8" x 5-1/2" XO	0.8	4200.37
1	3-1/2" 9.3# J55 Shotted Sub	4	4204.37
2	3-1/2" 9.3# J55 BPHMA	64.4	4268.77
			4268.77

Rods	Description	Footage (FEET)	Depth
1	SMF	28	
2	7/8" Pump Rods 2'-6"		
250	7/8" N87 Steel Rods	3750	3750
16	1-1/2" KBARS	400	4150
1	2.5" x 3.5" 430' Pump	20	4170
	26" x 1" Octave		



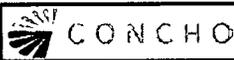
17 - 1/2"  
 LEAD 95 LB HALCYON  
 CLASS C. 480' @ 1700  
 45' SWPTON  
 45' SWPTON  
 1000 LB DETERGENT  
 CLASS C. 480' @ 4800  
 CLASS C.

12 - 1/4"  
 CMT W/ LEAD 330 LB  
 1000 LB HALCYON  
 CLASS C. 480' @ 1700  
 200 LB HALCYON  
 CLASS C. 480' @ 1700  
 W/ 200 BULLS 11" TO  
 SURFACE

8 - 3/4" X 7 - 7/8"  
 CMT W/ LEAD 400 LB  
 1000 LB HALCYON  
 CLASS C. 480' @ 1700  
 200 LB HALCYON  
 CLASS C. 480' @ 1700  
 W/ 200 BULLS 11" TO  
 SURFACE

ID	Drift	Cap. (bbl/ft)	7 X 5-1/2"	Production Tapered Casing	@	8,549			
7" 29# L80 LTC CSG	6.184	6.059	0.0371	PHVD 5,59'	7"	29#	L80	LTC	Surface - 3,764'
5-1/2" 17# L80 LTC CSG	4.892	4.767	0.0232	SUB ON LOGS	5-1/2"	17#	L80	LTC	3,764' - 8,549'
2-7/8" 6.5# J55 8RD TBG	2.441	2.347	0.00579	(12/15/2012)	Circ.	400	SK.		

ROWSP  
 1/28/2019



**PROPOSED WELLBORE DIAGRAM**

APR: 1041 NAC 367	APR: 1041 NAC 367
SPR: 12 01 2012	SPR: 12 01 2012
FRS: 12 30 2012	FRS: 12 30 2012
REG: Edner (Mk 11)	REG: Edner (Mk 11)
LAT: 32 904991	LAT: 32 904991
LONG: -104 2185699	LONG: -104 2185699

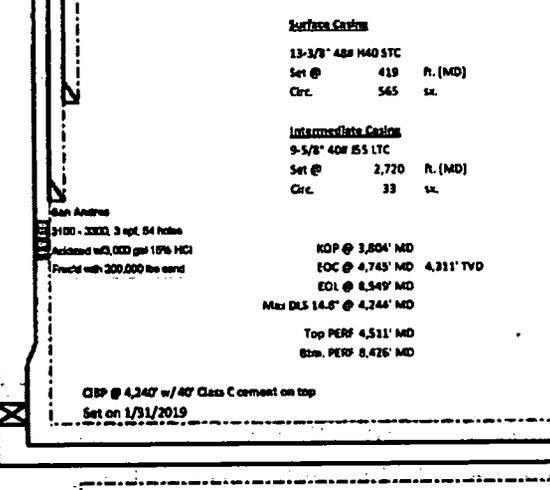
Santa Elena (Federal) H  
 Pavo Mesa Abo Field  
 Chorieta-Yeso Pool  
 Eddy County, NM  
 Paddock Formation

MSL: 5491.97' + 2.00'  
 1,000' FMS - 302' PM  
 MSLL: 5491.97' + 2.00'  
 1,000' FMS - 302' PM  
 1,000' FMS - 302' PM

111.3 347  
 128.1759

Run	Description	Feet	Depth
108	2-7/8" 4.5# B5 TBC	3477.6	3545.23
1	2" MS	7	3547.23
2	2-7/8" 6.5# B5 TBC	64.8	3611.47
3	7" 2-7/8" TAC	1	3614.47
18	2-7/8" 6.5# B5 TBC	58.8	4198.47
1	2-7/8" 5#	3.1	4199.57
1	2-7/8" 8 1-1/2" RO	0.8	4200.37
1	3-1/2" 9.5# B5 Shorted Sub	4	4204.37
2	3-1/2" 9.5# B5 BPMMA	64.8	4268.77
			4268.77

Run	Description	Feet	Depth
1	SMDB	26	
2	7/8" Pony Sub 2'-6"		
150	7/8" MS Steel Sub	1750	1750
15	1-1/2" CBARS	400	4150
1	2 1/2" x 1 1/2" 200 Pump	70	4170
	20' x 1" Dip Sub		



**CEMENT DETAILS**

17-1/2" - LEAD 50 LB HALOGEN CLASS C, TAPERED W/ 30 LB HALOGEN PHOSPHORIC CLASS C, ADDL. DISPLACED W/ 75 LB HALOGEN CLASS C, 400 LB HALOGEN CLASS C

12-1/4" - CHL W/ LEAD 50 LB HALOGEN CLASS C, TAPERED W/ 30 LB HALOGEN PHOSPHORIC CLASS C, ADDL. DISPLACED W/ 75 LB HALOGEN CLASS C, 400 LB HALOGEN CLASS C

9-3/4" x 7-7/8" - CHL W/ LEAD 50 LB HALOGEN CLASS C, TAPERED W/ 30 LB HALOGEN PHOSPHORIC CLASS C, ADDL. DISPLACED W/ 75 LB HALOGEN CLASS C, 400 LB HALOGEN CLASS C

ID	Drth	Cap. [bbl/R]	PHO 5.55F	SR ON LOGS	112/15701.11
7" 29# L80 LTC CSG	6.184	6.059	0.0371		
5-1/2" 17# L80 LTC CSG	4.892	4.757	0.0232		
2-7/8" 6.5# B5 BND TBC	2.441	2.347	0.00579		

Revised  
 1/29/2019