

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		6. If Indian, Allottee or Tribe Name
Contact: DANA KING E-Mail: dking@concho.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 800 W ILLINOIS AVENUE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-818-2267	8. Well Name and No. SANTA ELENA 19 FEDERAL 1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T16S R30E Mer NMP 1650FNL 330FWL		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  
GILABURG-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.

(Instructions on page 2)

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

RW 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 PBTD @ 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**

<b><sup>1</sup> API Number</b> 30-015-40567	<b><sup>2</sup> Pool Code</b> 57570	<b><sup>3</sup> Pool Name</b> Square Lake, Grayburg - San Andres
<b><sup>4</sup> Property Code</b> 311867	<b><sup>5</sup> Property Name</b> Santa Elena 19 Federal	
<b><sup>7</sup> OGRID No.</b> 229137	<b><sup>6</sup> Well Number</b> 1	
	<b><sup>8</sup> Operator Name</b> COG Operating, LLC	
	<b><sup>9</sup> Elevation</b> 3,740'	

**<sup>10</sup> 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

**<sup>11</sup> 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

<b><sup>12</sup> Dedicated Acres</b> 156.64	<b><sup>13</sup> Joint or Infill</b> 36.46	<b><sup>14</sup> Consolidation Code</b>	<b><sup>15</sup> Order No.</b>
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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><sup>16</sup> 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 unless 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 Signature      Date</p> <p>Dana King Printed Name</p> <p>dking@concho.com E-mail Address</p> <p><b><sup>17</sup> 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 _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____</p>
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RW 3-5-19





CONCHO

# PROPOSED WELLBORE DIAGRAM

APR: 10011-400007	APR: 10011-400007
SPR: 12101-2012	SPR: 12101-2012
FRS: 12101-2012	FRS: 12101-2012
ENG: 10011-400007	ENG: 10011-400007
LAT: 32.904891	LAT: 32.904891
LONG: -104.2185099	LONG: -104.2185099

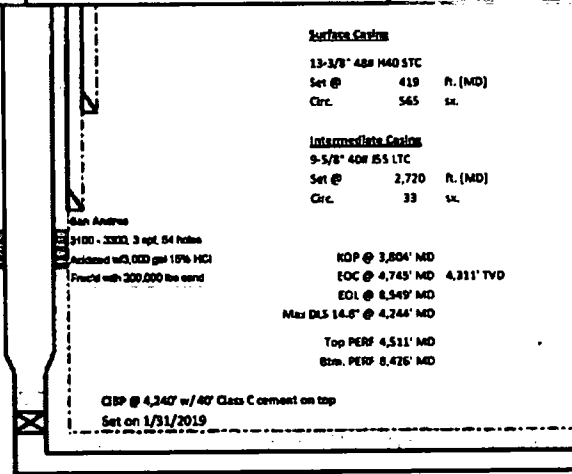
Santa Elena (9 Federal) 1H  
Pave Mesa: Abo Field  
Charlotte-Vase Pool  
Eddy County, NM  
Paddock Formation

WELL: 10011-400007  
1.500' PMT. @ 330' PMT  
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1.500' PMT. @ 330' PMT  
WELL: 10011-400007  
1.500' PMT. @ 330' PMT

Run	Description	Footage	Depth
108	2-7/8" 6.50 B5 TBC	3477.6	3545.27
1	2" MS	2	3547.27
2	2-7/8" 6.50 B5 TBC	64.8	3612.07
3	7" 3-1/8" TAC	1	3613.07
18	2-7/8" 6.50 B5 TBC	58.8	3671.87
1	2-7/8" 6.50 B5 TBC	1.1	3672.97
1	2-7/8" 6.50 B5 TBC	0.8	3673.77
1	2-7/8" 6.50 B5 TBC	4	3677.77
2	2-7/8" 6.50 B5 TBC	64.8	3742.57
			3742.57

Run	Description	Footage	Depth
1	5MPS	26	
2	7/8" Pore Body 2-6"		
150	7/8" 1000 Steel Rods	1750	1750
25	1-1/2" 4000 Steel Rods	400	4150
1	2 1/2" x 1 1/2" 4000 Pump	70	4170
	20' x 1" Drift tube		

ID	Drift	Cap. (bbl/r)
7" 29# L80 LTC CSG	6.184	6.059
5-1/2" 17# L80 LTC CSG	4.892	4.767
2-7/8" 6.50 B5 BND TBC	2.441	2.347



Run	Description	Footage	Depth
1	17-1/2" 40# B5 LTC	17.5	4187.5
2	12-1/4" 40# B5 LTC	12.5	4200.0
3	7 X 9-1/2" 40# B5 LTC	7.5	4207.5

Run	Description	Footage	Depth
1	7 X 9-1/2" 40# B5 LTC	7.5	4207.5
2	7 X 9-1/2" 40# B5 LTC	7.5	4215.0
3	7 X 9-1/2" 40# B5 LTC	7.5	4222.5
4	7 X 9-1/2" 40# B5 LTC	7.5	4230.0
5	7 X 9-1/2" 40# B5 LTC	7.5	4237.5
6	7 X 9-1/2" 40# B5 LTC	7.5	4245.0
7	7 X 9-1/2" 40# B5 LTC	7.5	4252.5
8	7 X 9-1/2" 40# B5 LTC	7.5	4260.0
9	7 X 9-1/2" 40# B5 LTC	7.5	4267.5
10	7 X 9-1/2" 40# B5 LTC	7.5	4275.0
11	7 X 9-1/2" 40# B5 LTC	7.5	4282.5
12	7 X 9-1/2" 40# B5 LTC	7.5	4290.0
13	7 X 9-1/2" 40# B5 LTC	7.5	4297.5
14	7 X 9-1/2" 40# B5 LTC	7.5	4305.0
15	7 X 9-1/2" 40# B5 LTC	7.5	4312.5
16	7 X 9-1/2" 40# B5 LTC	7.5	4320.0
17	7 X 9-1/2" 40# B5 LTC	7.5	4327.5
18	7 X 9-1/2" 40# B5 LTC	7.5	4335.0
19	7 X 9-1/2" 40# B5 LTC	7.5	4342.5
20	7 X 9-1/2" 40# B5 LTC	7.5	4350.0
21	7 X 9-1/2" 40# B5 LTC	7.5	4357.5
22	7 X 9-1/2" 40# B5 LTC	7.5	4365.0
23	7 X 9-1/2" 40# B5 LTC	7.5	4372.5
24	7 X 9-1/2" 40# B5 LTC	7.5	4380.0
25	7 X 9-1/2" 40# B5 LTC	7.5	4387.5
26	7 X 9-1/2" 40# B5 LTC	7.5	4395.0
27	7 X 9-1/2" 40# B5 LTC	7.5	4402.5
28	7 X 9-1/2" 40# B5 LTC	7.5	4410.0
29	7 X 9-1/2" 40# B5 LTC	7.5	4417.5
30	7 X 9-1/2" 40# B5 LTC	7.5	4425.0
31	7 X 9-1/2" 40# B5 LTC	7.5	4432.5
32	7 X 9-1/2" 40# B5 LTC	7.5	4440.0
33	7 X 9-1/2" 40# B5 LTC	7.5	4447.5
34	7 X 9-1/2" 40# B5 LTC	7.5	4455.0
35	7 X 9-1/2" 40# B5 LTC	7.5	4462.5
36	7 X 9-1/2" 40# B5 LTC	7.5	4470.0
37	7 X 9-1/2" 40# B5 LTC	7.5	4477.5
38	7 X 9-1/2" 40# B5 LTC	7.5	4485.0
39	7 X 9-1/2" 40# B5 LTC	7.5	4492.5
40	7 X 9-1/2" 40# B5 LTC	7.5	4500.0
41	7 X 9-1/2" 40# B5 LTC	7.5	4507.5
42	7 X 9-1/2" 40# B5 LTC	7.5	4515.0
43	7 X 9-1/2" 40# B5 LTC	7.5	4522.5
44	7 X 9-1/2" 40# B5 LTC	7.5	4530.0
45	7 X 9-1/2" 40# B5 LTC	7.5	4537.5
46	7 X 9-1/2" 40# B5 LTC	7.5	4545.0
47	7 X 9-1/2" 40# B5 LTC	7.5	4552.5
48	7 X 9-1/2" 40# B5 LTC	7.5	4560.0
49	7 X 9-1/2" 40# B5 LTC	7.5	4567.5
50	7 X 9-1/2" 40# B5 LTC	7.5	4575.0
51	7 X 9-1/2" 40# B5 LTC	7.5	4582.5
52	7 X 9-1/2" 40# B5 LTC	7.5	4590.0
53	7 X 9-1/2" 40# B5 LTC	7.5	4597.5
54	7 X 9-1/2" 40# B5 LTC	7.5	4605.0
55	7 X 9-1/2" 40# B5 LTC	7.5	4612.5
56	7 X 9-1/2" 40# B5 LTC	7.5	4620.0
57	7 X 9-1/2" 40# B5 LTC	7.5	4627.5
58	7 X 9-1/2" 40# B5 LTC	7.5	4635.0
59	7 X 9-1/2" 40# B5 LTC	7.5	4642.5
60	7 X 9-1/2" 40# B5 LTC	7.5	4650.0
61	7 X 9-1/2" 40# B5 LTC	7.5	4657.5
62	7 X 9-1/2" 40# B5 LTC	7.5	4665.0
63	7 X 9-1/2" 40# B5 LTC	7.5	4672.5
64	7 X 9-1/2" 40# B5 LTC	7.5	4680.0
65	7 X 9-1/2" 40# B5 LTC	7.5	4687.5
66	7 X 9-1/2" 40# B5 LTC	7.5	4695.0
67	7 X 9-1/2" 40# B5 LTC	7.5	4702.5
68	7 X 9-1/2" 40# B5 LTC	7.5	4710.0
69	7 X 9-1/2" 40# B5 LTC	7.5	4717.5
70	7 X 9-1/2" 40# B5 LTC	7.5	4725.0
71	7 X 9-1/2" 40# B5 LTC	7.5	4732.5
72	7 X 9-1/2" 40# B5 LTC	7.5	4740.0
73	7 X 9-1/2" 40# B5 LTC	7.5	4747.5
74	7 X 9-1/2" 40# B5 LTC	7.5	4755.0
75	7 X 9-1/2" 40# B5 LTC	7.5	4762.5
76	7 X 9-1/2" 40# B5 LTC	7.5	4770.0
77	7 X 9-1/2" 40# B5 LTC	7.5	4777.5
78	7 X 9-1/2" 40# B5 LTC	7.5	4785.0
79	7 X 9-1/2" 40# B5 LTC	7.5	4792.5
80	7 X 9-1/2" 40# B5 LTC	7.5	4800.0
81	7 X 9-1/2" 40# B5 LTC	7.5	4807.5
82	7 X 9-1/2" 40# B5 LTC	7.5	4815.0
83	7 X 9-1/2" 40# B5 LTC	7.5	4822.5
84	7 X 9-1/2" 40# B5 LTC	7.5	4830.0
85	7 X 9-1/2" 40# B5 LTC	7.5	4837.5
86	7 X 9-1/2" 40# B5 LTC	7.5	4845.0
87	7 X 9-1/2" 40# B5 LTC	7.5	4852.5
88	7 X 9-1/2" 40# B5 LTC	7.5	4860.0
89	7 X 9-1/2" 40# B5 LTC	7.5	4867.5
90	7 X 9-1/2" 40# B5 LTC	7.5	4875.0
91	7 X 9-1/2" 40# B5 LTC	7.5	4882.5
92	7 X 9-1/2" 40# B5 LTC	7.5	4890.0
93	7 X 9-1/2" 40# B5 LTC	7.5	4897.5
94	7 X 9-1/2" 40# B5 LTC	7.5	4905.0
95	7 X 9-1/2" 40# B5 LTC	7.5	4912.5
96	7 X 9-1/2" 40# B5 LTC	7.5	4920.0
97	7 X 9-1/2" 40# B5 LTC	7.5	4927.5
98	7 X 9-1/2" 40# B5 LTC	7.5	4935.0
99	7 X 9-1/2" 40# B5 LTC	7.5	4942.5
100	7 X 9-1/2" 40# B5 LTC	7.5	4950.0

1/14/2019