

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
OCD Artesia

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.

5. Lease Serial No. NMNM7724
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. SANTA ELENA 19 FEDERAL 1
9. API Well No. 30-015-40567-00-S1
10. Field and Pool or Exploratory Area WILDCAT
11. County or Parish, State EDDY COUNTY, NM

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	
2. Name of Operator COG OPERATING LLC Contact: DANA KING E-Mail: dking@concho.com	
3a. Address 600 W ILLINOIS AVENUE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-818-2267
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T16S R30E Lot 2 1650FNL 330FWL	

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 recomplate 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 recomplate the Santa Elena 19 Federal #1.

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.

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

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 01 2019

GC 4/2/19
Accepted for record - NMOCD

RECEIVED

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 Committed to AFMS for processing by PRISCILLA PEREZ on 02/27/2019 (19PP1174SE)	
Name (Printed/Typed) DANA KING	Title SUBMITTING CONTACT
Signature (Electronic Submission)	Date 02/27/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title Accepted for Record	DATE MAR 29 2019
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.	Jonathon Shepard Carlsbad Field Office	

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

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

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

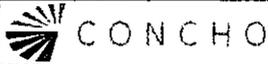
- RIH w/ perforating guns and perforate San Andres Zone from 3,100'-3,300', w/ 3 spf, 120° phasing, 54 holes
- Dump bail acid in the perf interval
- NU 5K frac valve
- Secure wellbore
- RDMO WSU

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

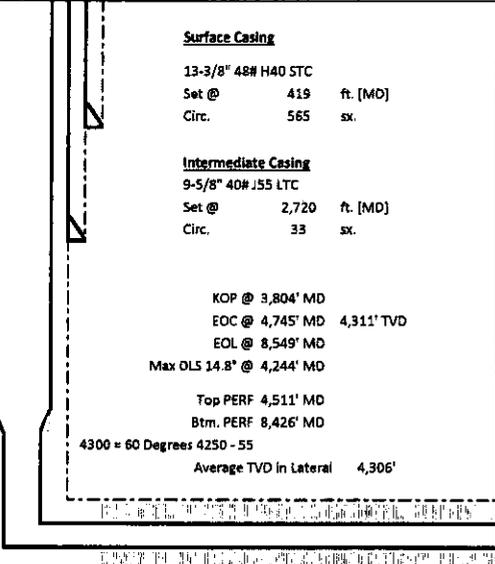


CURRENT WELLBORE DIAGRAM

Well Chronology 12/5/2012 SPUD 1/11/2013 103 Stage Paddock Frac 3/7/2013 PNOP w/ EAP 4/27/2013 Convert to Rods		API: 30-015-40567 SPUD: 12/05/2012 FRR: 12/30/2012 RIG: Silver Oak 11 LAT: 31.909893 LONG: -104.0185699	Santa Elena 19 Federal 1H Pavo Mesa, Abo Field Glorietta-Yeso Pool Eddy County, NM Paddock Formation	SHL: Sec. 19, T 16S - R 30E 1,650' FNL & 330' FWL BHL: Sec. 19, T 16S - R 30E 1,693' FNL & 341' FEL GL: 3,740' KB: 3,758'	HOLE SIZE 	CEMENT DETAILS
---	--	--	---	--	------------------------------	-----------------------------------

ITS	Description	Footage (est.)	Depth
108	2-7/8" 6.5# J55 TBG	3477.6	3545.27
1	2" MS	2	3547.27
2	2-7/8" 6.5# J55 TBG	64.2	3611.47
1	7" X 2-7/8" TAC	3	3614.47
18	2-7/8" 6.5# J55 TBG	584	4198.47
1	2-7/8" SN	1.1	4199.57
1	2-7/8" X 3-1/2" XO	0.8	4200.37
1	3-1/2" 9.3# J55 Slotted Sub	4	4204.37
2	3-1/2" 9.3# J55 BPMA	64.4	4268.77

Rods	Description	Footage (est.)	Depth
1	SMPR	26	
2	7/8" Parry Rods 2- 6'		
150	7/8" N97 Steel Rods	3750	3750
16	1-1/2" KBARS	400	4150
1	2.5" x 1.5" X20' Pump	20	4170
	26" x 1" Diptube		



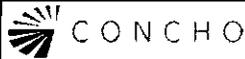
17 - 1 1/2"
 LEAD 50 SK HALCEM CLASS C, TAILED W/ 300 SK SWIFTEEM THROTROPIC CLASS C, 800 SK EXTENDACEM CLASS C, 490 SK HALCEM CLASS C

12 - 1 1/4"
 CMT W/ LEAD 550 SK VERBACEM CLASS C + ADDS, TAILED W/ 200 SK HALCEM CLASS C, DISPLACED W/ 200 SK HALCEM CLASS C, DISPLACED W/ 253 BILLS SURFACE]

8 - 3/4" X 7 - 7/8"
 CMT W/ LEAD 400 SK CONCREM CLASS C + ADDS, 400 SK VERBACEM CLASS C + ADDS, TAILED W/ 500 SK SOLUCEM CLASS C + ADDS, DISPLACED W/ 253 BILLS 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	PHTD 5,559'	7"	29# L80 LTC Surface - 3,764'
5-1/2" 17# L80 LTC CSG	4.892	4.767	0.0232	SLB ON LOGS (12/15/2012)	5-1/2"	17# L80 LTC 3,764' - 8,549'
2-7/8" 6.5# J55 8RD TBG	2.441	2.347	0.00579		Circ.	400 sx.

Rowar
 1/29/2019



PROPOSED WELLBORE DIAGRAM

Well Chronology	
12/9/2011	SPAD
1/11/2012	DRM W/ago Padlock Proc
1/27/2012	W/CO-2 CO2
1/27/2012	Convert to Well

API: 30-015-40567
 SPUD: 12/05/2012
 FRU: 12/00/2012
 RJG: Silver Oak 11
 LAT: 32.909893
 LONG: -104.0185699

Santa Elena 19 Federal 11H
 Pavo Mesa: Abo Field
 Glorieta-Veso Pool
 Eddy County, NM
 Padlock Formation

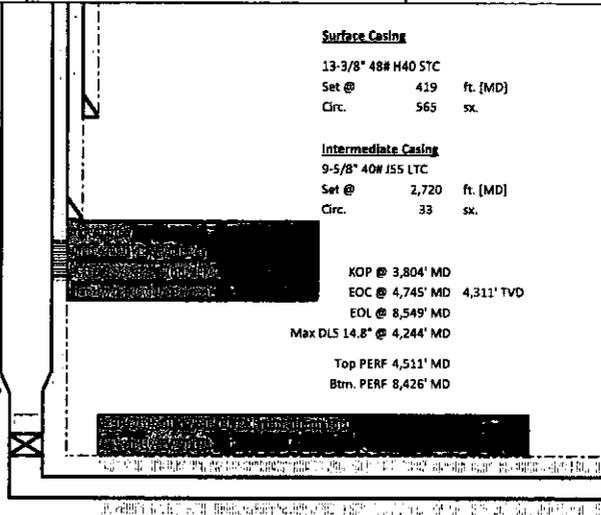
SHL: Sec. 19, T. 16S - R. 30E
 1.650' FNL @ 330' FWL
 BRH: Sec. 19, T. 16S - R. 30E
 1.693' FNL @ 341' FEL
 GL: 3.740'
 KB: 3.758'

HOLE SIZE

CEMENT DETAILS

JTK	Description	Footage (est.)	Depth
108	2-7/8" 6.5# J55 TBG	3477.6	3545.27
1	2" MS	2	3547.27
2	2-7/8" 6.5# J55 TBG	64.2	3611.47
1	7" X 2-7/8" TAC	3	3614.47
18	2-7/8" 6.5# J55 TBG	584	4198.47
1	2-7/8" 5#	1.1	4199.57
1	2-7/8" X 3-1/2" KO	0.8	4200.37
1	3-1/2" 9.3# J55 Stormed Sub	4	4204.37
2	3-1/2" 9.3# J55 BPMMA	64.4	4268.77
			4268.77

Rods	Description	Footage (est.)	Depth
1	SMPR	26	
2	7/8" Pony Rods 2-6'		
150	7/8" #97 Steel Rods	3750	3750
16	1-1/2" KBARS	400	4150
1	2.5" x 1.5" x10' Pump	20	4370
	26" x 1" Diptube		



Surface Casing

13-3/8" 48# H40 STC
 Set @ 419 ft. [MD]
 Circ. 565 sx.

Intermediate Casing

9-5/8" 40# J55 LTC
 Set @ 2,720 ft. [MD]
 Circ. 33 sx.

KOP @ 3,804' MD
 EOC @ 4,745' MD 4,311' TVD
 EOL @ 8,549' MD
 Max DLS 14.8' @ 4,244' MD
 Top PERF 4,511' MD
 Btm. PERF 8,426' MD

17 - 1 1/2"

12 - 1 1/4"

8 - 3/4" X 7 - 7/8"

LEAD W/ 50' HALCEM CLASS C, TAILED W/ 300 SX SWHTECTEM
 THROTIC CLASS C, 600 SX EXPRINCEM CLASS C, 850 SX HALCEM CLASS C

CMT W/ LEAD 50' SX VERSACEM CLASS C - ADDS, TAILED W/ 200 SX HALCEM CLASS C, 600 SX EXPRINCEM CLASS C, 850 SX HALCEM CLASS C W/ 50' BBL (1" TO SURFACE)

CMT W/ LEAD 400 SX ECONOCEM CLASS C - ADDS, 400 SX VERSACEM CLASS C - ADDS, TAILED W/ 500 SX SOLUCEM CLASS H - ADDS, DISPLACED W/ 250 BBL

ID	Drift	Cap. (bbl/ft)
7" 29# L80 LTC CSG	6.184	6.059
5-1/2" 17# L80 LTC CSG	4.892	4.767
2-7/8" 6.5# J55 BRD TBG	2.441	2.347

7 X 5-1/2"		Production Tapered Casing		@	8,549
PHTD 5.559'	7"	29#	L80	LTC	Surface - 3,764'
SUB OH LOSS (12/15/2012)	5-1/2"	17#	L80	LTC	3,764' - 8,549'
	Circ.	400	sx.		

Row#	1/29/2019
------	-----------