

NM OIL CONSERVATION
ARTESIA DISTRICT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 01 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

5. Lease Serial No. NMNM127445
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. BLUE DUCK FEDERAL 1H
9. API Well No. 30-015-40448
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 30 T16S R30E Mer NMP 380FSL 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 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 Blue Duck Federal #1.

We plan to have our top perms from 3,450' - 3,650'. Ideally, we like to have the additional space of rat hole below our bottom perms to give our bottom hole assembly room and prevent tubing from getting stuck with sand. In addition to having desired rat hole space, this gives COG the option to re-enter the paddock formation at a later time.

* Please see the attached procedure, current and proposed wellbore diagrams.

Square Lake
GB-SA
57570

14. I hereby certify that the foregoing is true and correct. Electronic Submission #456323 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 02/28/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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
3-1-2019

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

any department or agency of the United

(Instructions on page 2)

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

RW 3-1-19

Blue Duck Federal #1H Proposed Recompletion Plan 30-015-40448

We plan to have our top perfs from 3,450' – 3,650'. Ideally, we like to have the additional space of rat hole below our bottom perfs to give our bottom hole assembly room and prevent tubing from getting stuck with sand. In addition to having desired rat hole 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 3,450'-3,650', 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 S, 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 @ 4,260'
- RIH with production tubing as follows:
 - (101) jts 2-7/8" J55 6.5# tbg
 - (1) 2' marker joint
 - (2) jts 2-7/8" J55 6.5# tbg
 - TAC @ 3,300'
 - (12) jts 2-7/8" J55 6.5# tbg
 - SN @ 3,680'
 - (1) 20' MSMA
 - EOT @ 3,700'
- 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
 - (140) 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
- Update rod and tubing detail in Well View
- All charges will hit recompletion AFE (800/500) code
- 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
 ARTESIA DISTRICT
 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

¹ API Number 30-015-40448	² Pool Code 57570	³ Pool Name Square Lake, Grayburg-San Andres	
⁴ Property Code 39323	⁵ Property Name Blue Duck Federal		⁶ Well Number 1H
⁷ OGRID No. 229137	⁸ Operator Name COG Operating LLC		⁹ Elevation 3711'

* 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
4	30	16S	30E		380	South	330	West	Eddy

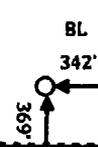
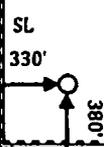
** Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1 dn	Feet from the	North/South line	Feet from the	East/West line	County
P	30	16S	30E		369	South	342	East	Eddy

¹⁰ Dedicated Acres 156.59	¹¹ Joint or Infill	¹² Consolidation Code	¹³ 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>* OPERATOR CERTIFICATION</p> <p><i>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.</i></p> <p style="text-align: right;"> 3/4/2019 Signature Date </p> <p> Dana King Printed Name </p> <p> dking@cooco.com E-mail Address </p>
	<p>* SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: _____</p> <p>Certificate Number _____</p>



RW 3-5-19.

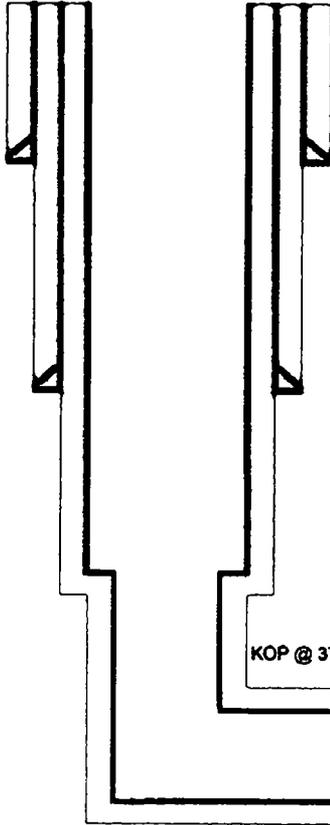
CONCHO

Author: Tower
 Well Name: BLUE DUCK Well No. #1H
 Field: WILDCAT API #: 30-015-40448
 County: EDDY Prop #: _____
 State: NM Zone: _____
 Date: 7/23/2012
 GL: 3711'
 KB: 3728'

Description	O.D.	Grade	Weight	Depth	Cmt Sx	TOC
Surface Csg	13 3/8	H40	48	395	1050	Surface
Inter Csg	9 5/8	J55	36	2,705	1155	Surface
Prod Csg	7"X5 1/2"	L80	28	3758	900	Surface
Liner	5 1/2"	L80	17	3760		

5 1/2" Liner tied into 7"

CURRENT WELLBORE DIAGRAM



17-1/2" Hole
 13-3/8" (H40 - 48#) @ 395' w/1050 sx
 TOC @ surface

12-1/4" Hole
 9-5/8" (J55 - 36#) @ 2702' w/1156 sx
 TOC @ surface

8 3/4" Hole from 2702' - 3650' (includes curve)
 7 7/8" Hole from 3650' - 8570'

8 3/4" hole
 7" (L80 - 28#) @ 3758' w/ 900sx
 TOC @ Surface
 5 1/2" Davis Lynch DV tool @ 3760'
 5 1/2" Peak Debris Barrier @ 4047'

KOP @ 3772' 7 7/8" hole
 EOC @ 4789'

5 1/2" (L80 - 17#) @ 8450

TD @ 8570'

Tubing Strings

Tubing Description	Run Date	String Length (ft)	Lin Depth (ft)
Tubing - Production	8/8/2017	4,380.80	4,390.0
Item Desc	Jts	OD (in)	Wt (lb/ft)
Tubing	112	2 7/8	6.50
MARKER SUB	1	2 7/8	6.50
Tubing	2	2 7/8	6.50
Anchor/catcher	1	6 1/8	17.00
Tubing	17	2 7/8	6.50
Pump Seating Nipple	1	2 7/8	6.50
Slotted Joint	1	2 7/8	6.50
MUD ANCHOR	3	2 7/8	6.50
Bull Plug	1	2 7/8	6.50

Rod Components

Item Desc	Grade	Jts	OD (in)	Len (ft)
Don Nan	Sprymetal	1	1 1/2	26.00
PONY RODS	N97	1	7/8	4.00
RODS	N97	147	7/8	3,675.00
American Sinker Bar PMSM	Grade K	22	1 1/2	550.00
Rod Insert Pump		1	2 1/2	20.00

Sleeve depths - TMD

Sleeve Depth	TMD
1 pump out plug	8,450
Frac sleeve	8,407
2 2.408" sleeve	8,147
3 2.531" sleeve	7,907
4 2.65" sleeve	7,825
5 2.781" sleeve	7,364
6 2.906" sleeve	7,112
7 3.031" sleeve	6,861
8 3.156" sleeve	6,600
9 3.281" sleeve	6,343
10 3.406" sleeve	6,085
11 3.531" sleeve	5,836
12 3.656" sleeve	5,582
13 3.781" sleeve	5,333
14 4.031" sleeve	5,040
15 4.281" sleeve	4,780

Packer Depths - TMD

Packer Depth	TMD
1	8,269
2	8,032
3	7,747
4	7,485
5	7,235
6	6,991
7	6,732
8	6,477
9	6,213
10	5,965
11	5,708
12	5,459
13	5,169
14	4,915
15	4,668

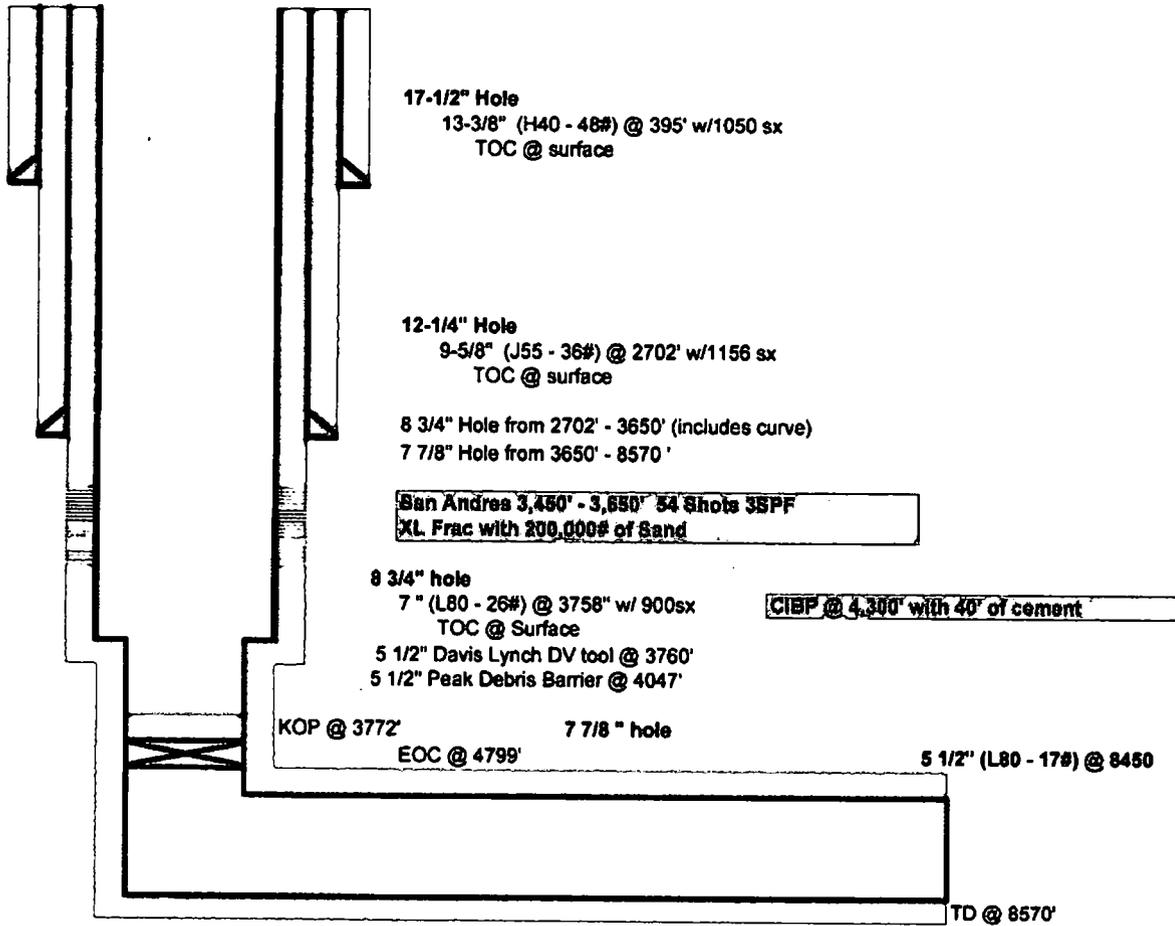
CONCHO

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PROPOSED WELLBORE DIAGRAM



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	TMD
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