

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.

Please Serial No.
NMNM127445

SUBMIT IN TRIPLICATE - Other instructions on page 2		6. If Indian, Allottee or Tribe Name
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit or CA/Agreement, Name and/or No.
2. Name of Operator COG OPERATING LLC Contact: DANA KING E-Mail: dking@concho.com		8. Well Name and No. BLUE DUCK FEDERAL 1H
3a. Address 600 W ILLINOIS AVENUE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-818-2267	9. API Well No. 30-015-40448-00-S1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 30 T16S R30E Lot 4 380FSL 330FWL		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 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.

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 #456323 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMS for processing by PRISCILLA PEREZ on 02/28/2019 (19PP1204SE)	
Name (Printed/Typed) DANA KING	Title SUBMITTING CONTACT
Signature (Electronic Submission)	Date 02/28/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>/s/ Jonathon Shepard</u>	Title Petroleum Engineer	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.	Carlsbad Field Office	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.

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 5, 10, 15 min SIP
- RDMO Elite

Return to Production Procedure

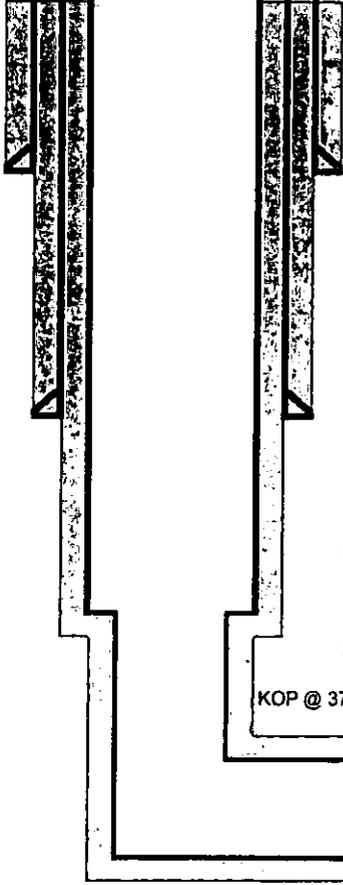
- MIRU WSU
- RIH with bit and bailer to drill
- Clean out fill to new PBTD @ 4,260'
- RIH with production tubing as follows:
 - (101) jts 2-7/8" J55 6.5# tbg
 - (1) 2' marker joint
 - (2) jts 2-7/8" J55 6.5# tbg
 - **TAC @ 3,300'**
 - (12) jts 2-7/8" J55 6.5# tbg
 - **SN @ 3,680'**
 - (1) 20' MSMA
 - **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

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	26	3758	900	Surface
Liner	5 1/2	L80	17	3760	4047	

CURRENT WELLBORE DIAGRAM

5 1/2" Liner tied into 7"



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 - 26#) @ 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 @ 4799'

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

TD @ 8570'

Tubing Strings

Tubing Description	Run Date	String Length (ft)	Seal Diam (in)		
Tubing - Production	8/8/2017	4,390.00	4.390.0		
Item Desc	QTY	OD (in)	WT (lb/s)	Grade	Len (ft)
Tubing	112	2 7/8	6.50	J-55	3,884.6
MARKER SUB	1	2 7/8	6.50	J-55	3,888.7
Tubing	2	2 7/8	6.50	J-55	3,732.2
Anchor/catcher	1	6 1/8	17.00	K-77	3,736.1
Tubing	17	2 7/8	6.50	J-55	4,288.0
Pump Seating Nipple	1	2 7/8			4,287.1
Slotted Joint	1	2 7/8	6.50	J-55	4,291.3
MUD ANCHOR	3	2 7/8	6.50	J-55	4,389.3
Bull Plug	1	2 7/8			4,390.0

Rod Components

Item Desc	Grade	QTY	OD (in)	Len (ft)
Don Nan	Spraymetal	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 FHSM	Grade K	22	1 1/2	550.00
Rod Insert Pump		1	2 1/2	20.00

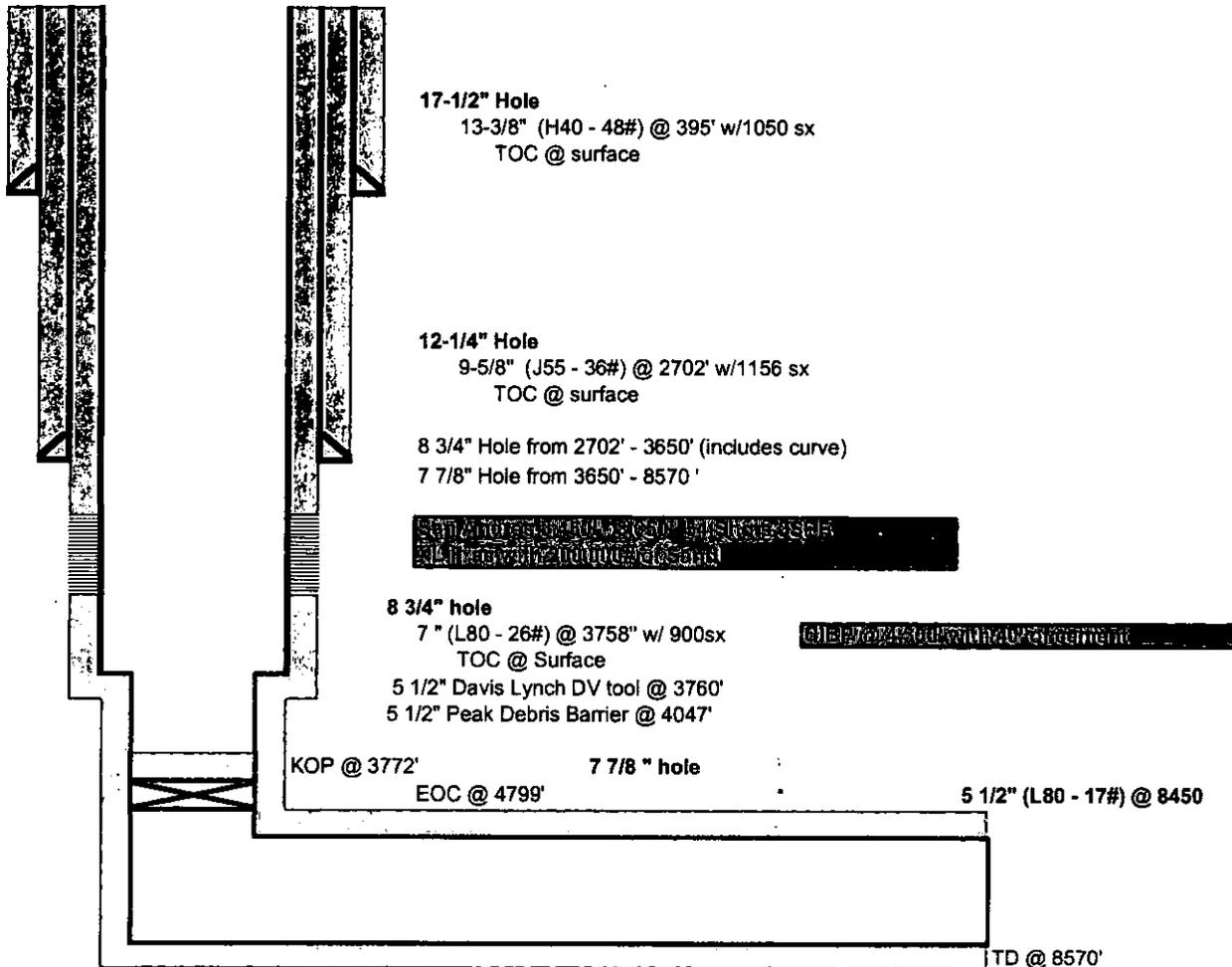
Sleeve depths - TMD	TMD	Packer Depths - TMD
1 pump out plug	8,450	1 8,269
Frac sleeve	8,407	2 8,032
2 2.406" sleeve	8,147	3 7,747
3 2.531" sleeve	7,907	4 7,495
4 2.65" sleeve	7,625	5 7,235
5 2.781" sleeve	7,364	6 6,991
6 2.906" sleeve	7,112	7 6,732
7 3.031" sleeve	6,861	8 6,477
8 3.156" sleeve	6,600	9 6,213
9 3.281" sleeve	6,343	10 5,965
10 3.406" sleeve	6,085	11 5,708
11 3.531" sleeve	5,836	12 5,459
12 3.656" sleeve	5,582	13 5,169
13 3.781" sleeve	5,333	14 4,915
14 4.031" sleeve	5,040	15 4,668
15 4.281" sleeve	4,790	

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Prod Csg	7"X5 1/2"	L80	26	3758	900	Surface
Liner	5 1/2	L80	17	3760		

5 1/2" Liner tied into 7"

PROPOSED WELLBORE DIAGRAM



Sleeve depths - TMD	TMD	Packer Depths - TMD
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BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 East Greene Street
Carlsbad, New Mexico 88220
575-234-5972

Conditions of Approval for Workover/Deepening of a Well

1. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any operations. For wells in Eddy County, call 575-361-2822. For wells in Lea County, call 575-393-3612
2. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,100 feet, a 3M system for a well not deeper than 13,600 feet, or a 5M system for a well not deeper than 22,700 feet (all depths are for measured well depth).
3. **Cement:** Notify BLM if cement fails to circulate.
4. **Subsequent Reporting:** Within 30 days after work is completed, file a Subsequent Report (Form 3160-5) to BLM. The report should give in detail the manner in which the work was carried out. Show date work was completed. If producing a new zone, submit a Completion Report (Form 3160-4) with the Subsequent Report.
5. **Trash:** All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.
6. **If well location is within the Timing Limitation Stipulation Area for Lesser Prairie-Chicken:** From March 1st through June 15th annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted.