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

<u>District III</u> 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

Form C-101 Revised July 18, 2013

Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 RECEIVED

DEC 13 2013

NMOCD ARTESIA

	CATIC	N FOR	PERMIT TO	DRILL.	RE-ENTE	R. DEE	PEN. PI			D A ZONE
		1.101	^{1.} Operator Name ar	nd Address		21, 223	1	z (OGRID Num	ber
COG Operating LLC								229137		
2208 West Main Street Artesia, NM 88210							F	26 4 15	APINURIDE	سر ہ
	, , , , , , , , , , , , , , , , , , ,						50-015-41863			
200	erty Code				Property Name Myox 21 State			6. Well No 11H		
300	1200			7. St	ırface Locatio	n				
UL – Lot	Section	Township	Range	Lot Idn	Feet from	N/S Li	ine	Feet From	E/W Line	County
N	21	25S	28E	N	190	South	h	1840	West	Eddy
			* Proposed Bot	tom Hole L	ocation					
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Li	ine	Feet From	E/W Line	County
С	21	25S	28E	С	330	Norti	h	1980	West	Eddy
				9. P e	ool Informatio	on			_	
San Lorenzo; B	one Spring,			Pool	Name					Pool Code 53600
				Addition	al Well Infori	mation				
	rk Type		12. Well Type		13. Cable/Rotary			14. Lease Type 15. Ground Level Elevation		
	/ Well lultiple		Oil 17. Proposed Depth		18. Formation			State 2975.5' 19. Contractor 20. Spud Date		
	numpie N		10361		Bone Spring			ontractor	}	12/20/2013
Depth to Gro	und water		Distan	ce from nearest	fresh water well			Distance to nearest surface water		
⊠We will be	using a clos	ed-loop sys	tem in lieu of lined p							
	_					_				
	<u> </u>		21. F	roposed Ca	sing and Cem	ent Progr	ram			
Туре	Hol	e Size	Casing Size	Casing We		nent Progr Setting Do		Sacks of Cen	ent	Estimated TOC
Type Surface	7	e Size						Sacks of Cen 250	ent	Estimated TOC
	ı		Casing Size	Casing We		Setting De			ent	Estimated TOC
Surface	12	7.5	Casing Size	Casing We		Setting De	epth	250	ent	Estimated TOC 2080
Surface Intrind Production	1 1:	7.5 2.25 875	Casing Size 13.375 9.625 5.5 Casing	Casing We 48 36 17 // Cement Pr	ogram: Addit	Setting Do 100 2330 10361 cional Con	epth mments	250 700 1000		2080
Surface Intrind Production	1 1:	7.5 2.25 875	Casing Size 13.375 9.625 5.5 Casing	Casing We 48 36 17 // Cement Pr	ogram: Addit	Setting Do 100 2330 10361 cional Con	epth mments	250 700 1000		
Surface Intrmd Production Drill 12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.5 2.25 875	Casing Size 13.375 9.625 5.5 Casing 2,330' with	Casing We 48 36 17 /Cement Pr Brine, an	ogram: Addit d run 9-5/8	Setting Do 100 2330 10361 cional Con 8", 36#,	nments	250 700 1000 and cement t	o surfa	2080
Surface Intrmd Production Drill 12	1 1: 7. 1-1/4" h	7.5 2.25 875 ole to	Casing Size 13.375 9.625 5.5 Casing 2,330' with lateral with	Casing We 48 36 17 /Cement Pr Brine, an	ogram: Addit d run 9-5/8	Setting Do 100 2330 10361 cional Con 8", 36#,	nments	250 700 1000 and cement t	o surfa	2080 ce in 1 stage.
Surface Intrmd Production Drill 12 Drill 7-	1 1: 7. 1-1/4" h	7.5 2.25 875 ole to	Casing Size 13.375 9.625 5.5 Casing 2,330' with lateral with stage.	Casing We 48 36 17 /Cement Pr Brine, an h cut bri	ogram: Addit d run 9-5/8	Setting Do 100 2330 10361 cional Con 8", 36#, 0x. 10,3	mments , J-55 a	250 700 1000 and cement t	o surfa	2080 ce in 1 stage.
Surface Intrmd Production Drill 12 Drill 7-	1 1: 7. 1-1/4" h	7.5 2.25 875 ole to	Casing Size 13.375 9.625 5.5 Casing 2,330' with lateral wit stage.	Casing We 48 36 17 /Cement Pr Brine, an h cut bri	ogram: Addit d run 9-5/8 ne to appro	Setting Do 100 2330 10361 cional Con 8", 36#, ox. 10,3	mments , J-55 a	250 700 1000 and cement t Run 5-1/2	o surfa.	2080 ce in 1 stage.

best of my knowledge and be		OIL CONSERVATION DIVISION			
I further certify that I have 19.15.14.9 (B) NMAC , i Signature:	e complied with 19.15.14.9 (A) NMAC 🛭 at f applicable.	Approved By: C. Shapard			
Printed name: Mayte Reyes	8	Title: 650LOUST			
Title: Regulatory Analyst		Approved Date: 12/13/2013 Expiration Date: 12/13/2015			
E-mail Address: mreyes1@co	oncho.com				
Date: 12/12/2013	Phone: 575-748-6945	Conditions of Approval Attached			

State of New Mexico DISTRICT I 25 N. FRENCH DR., HOBBS, NM 68240 one: (575) 393-8161 Fax: (575) 393-0720 Energy, Minerals & Natural Resources Department Form C-102 DISTRICT II 811 S. FIRST ST., ARTESIA, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 CONSERVATION DIVISION RECEINATE COD to appropriate 1220 SOUTH ST. FRANCIS DR. District Office DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 Santa Fe, New Mexico 87505 DEC 13 2013 DISTRICT IV ☐ AMENDED REPORT MMOCD ARTESIA 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505 Phone: (505) 476-3480 Fax: (505) 476-3462 WELL LOCATION AND ACREAGE DEDICATION API Number Pool Name Pool Code 30-015-1865 53600 San Lorenzo; Bone Spring Property Name Property Code Well Number MYOX 21 STATE 11H Operator Name OGRID No. Elevation 229137 COG OPERATING, LLC 2975.5 Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line East/West line Feet from the County Ν 21 25 - S28-E 190 SOUTH WEST **EDDY** 1840 Bottom Hole Location If Different From Surface UL or lot No. Section Lot Idn Feet from the Township Range North/South line Feet from the East/West line County C 21 25 - S28-E 330 NORTH 1980 WEST **EDDY** Dedicated Acres Joint or Infill Consolidation Code Order No. 160 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 OPERATOR CERTIFICATION 330 I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a -1980' B.H. Y=408361.9 N Y=408374.5 N X=573454.2 E X=574786.2 E or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. 12-12-13 NAD 27 PROPOSED BOTTOM Signature HOLE LOCATION MAYTE Y=408038.0 N X=574104.6 E mreyes 10 concho.com 01.13'43" LAT. = 32.121587° N LONG. = 104.093966° W SURVEYOR CERTIFICATION 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. NAD 27 SURFACE LOCATION NOVEMBER 25, 2013 Y=403295.5 N Date of Survey X=574002.9 E LAT.=32.108550° N Signature & Seal of Professional Surveyor LONG. = 104.094329° W CHAOL HARCROW EN MEXICO Y=403100.8 N Y = 403112.5 N

X=574799.3 E

51

190

AT VIAGO

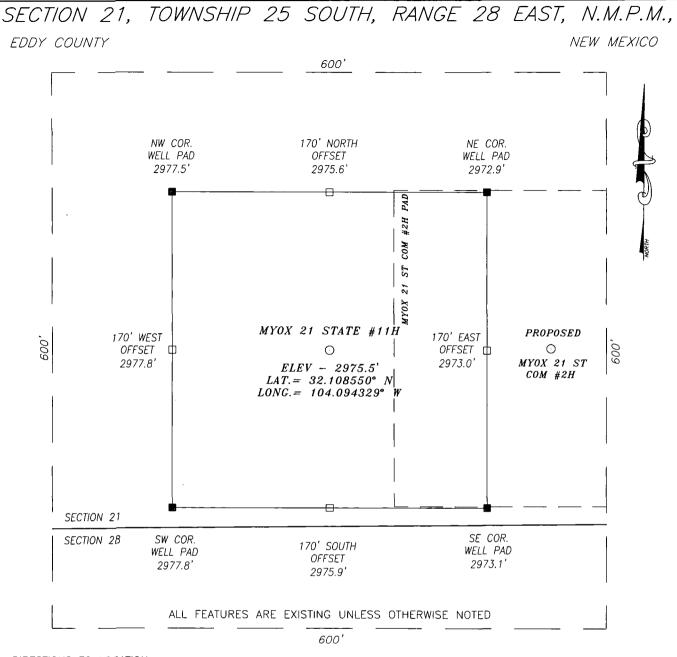
W.O. # 13-867

CHAD HARCROW

DRAWN BY: SP

X=573481.9 E

1840



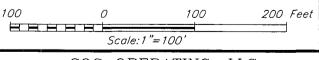
DIRECTIONS TO LOCATION

HEADING SOUTH ON HWY 285 TURN RIGHT (WEST) APPROX. 0.1 MILE BEFORE MILE MARKER 8 AND GO APPROX. 0.5 MILE; THEN TURN LEFT (SOUTHWEST) AND GO APPROX. 0.3 MILE; THEN TURN RIGHT (NORTHWEST) AND GO APPROX. 0.5 MILE; THEN PROPOSED WELL IS APPROX. 570 FEET SOUTHWEST.

HARCROW SURVEYING, LLC

2314 W. MAIN ST, ARTESIA, N.M. 88210 PH: (575) 513-2570 FAX: (575) 746-2158 chad_harcrow77@yahoo.com

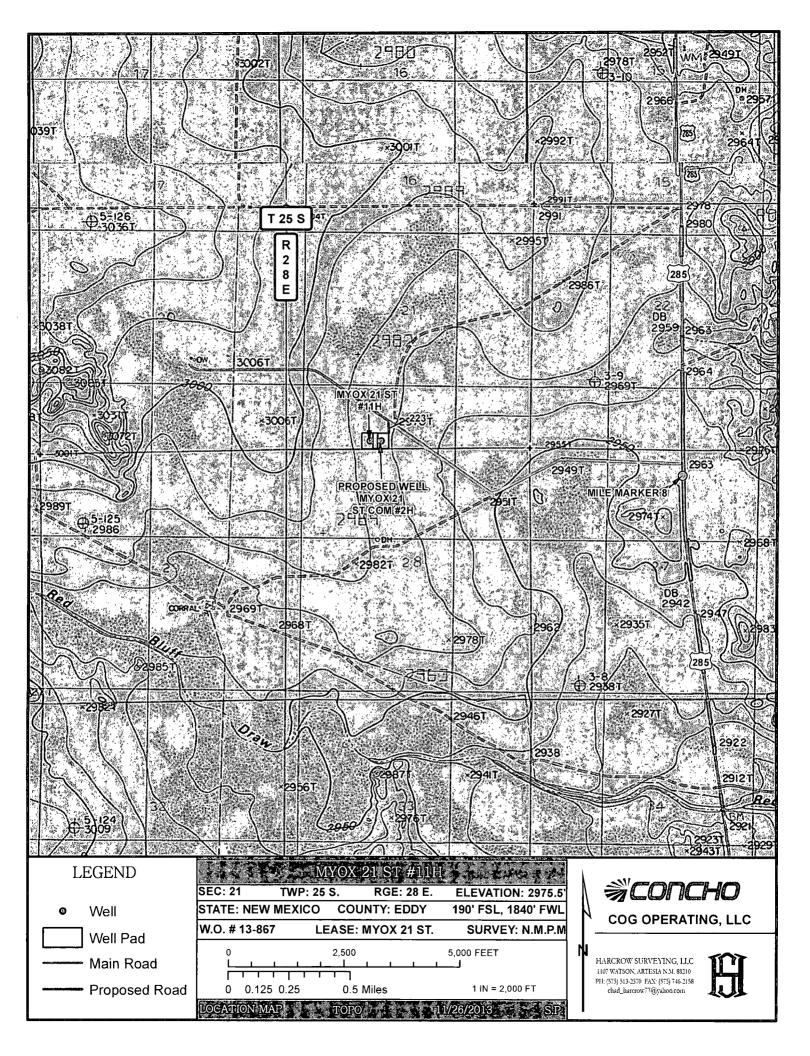


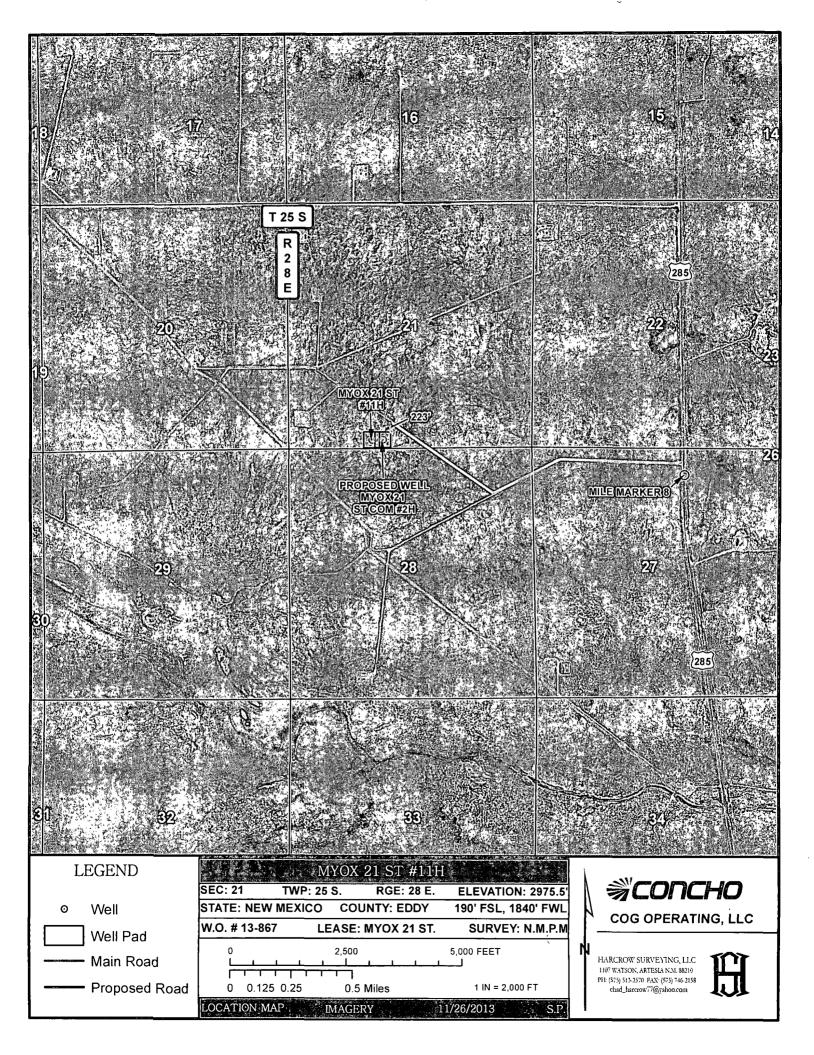


COG OPERATING, LLC

MYOX 21 STATE #11H WELL
LOCATED 190 FEET FROM THE SOUTH LINE
AND 1840 FEET FROM THE WEST LINE OF SECTION 21,
TOWNSHIP 25 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

	SURVEY DATE:	11/25/2013	PAGE: 1 OF 1
ı	DRAFTING DATE:	11/26/2013	
	APPROVED BY: CH	DRAWN BY: SP	FILE: 13-867





Agr. As T	1		THE TY HE SE SE SE SE SE SE SE SE	157 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15. · · · · · · · · · · · · · · · · · · ·	THE STATE OF THE STATE OF	Territory of the American	· March Miller and adverse . 19	J
26	35	30	29	28	27Willow	26	25	30	29
300	25 \ S 27F				27Millow Lake 28E 30 Rd (26			25
	7.3			245	49			248 29	E
35		31	32	33	34 7 T	35	36	31	32
ond	unra .								
X	i la								1
02	01	.06	05	04	03) 02	01	06	05
						To the second			
W. W. F.		AF AF					1277		
11	12	07	08	09	10	11	12	07	08
			an page and and						
7.3		The second of the second of							
14	13	18	17.	16	158	14	13	18-5	. 17
				25S 2	8E .			25S 29	9 E.
- 2	5S 27E								
23,	24	19	20	21	2285	23	24	.19	20
			MYOX(S #111	121					
(多)				28	NI P	LE MARKER 8	+1/		
26	25	30	29. P	ROPOSED WELL	27	26	25	30	29
				ST(COM)#2H					
						1			
, 35	,36	31	32	33	34 \	ું 35 ∕	`∖	31	32
									Ar sec
02	01	. 06	05	04	03	. 02	01	06	05
∕ry Rd				A Same and the same					
					The second second				
11	12	07	. 08	09	10	285 11	12	.07	08
	ዘ 8S 27 F -		26	S 28E			What was	265.2	9 F
	LEGEND			MYOX 21 ST	Г#11Н				
		SEC: 2				/ATION: 2975.5		ONCH	0
٥	Well		TATE: NEW MEXICO COUNTY: EDDY 190' FSL, 1840' FWI V.O. # 13-867 LEASE: MYOX 21 ST. SURVEY: N.M.P.I				Cog	OPERATING,	LLC
	─ Main Roa	d 0	· · · · · · · · · · · · · · · · · · ·					RVEYING, LLC	1 1
	Proposed	Road r	1107 WATSON, ARTESIA N PH: (575) 513-2570 FAX: (57:				RTESIA N.M. 88210 FAX: (575) 746-2158	T	
			ITY MAP		6/2013	S.P.			

Myox 21 State 11H

	Hole					
	Size	Casing	Wt	Depth	Cmt	TOC
Surface	26	20	45	100'	250	0
Intrmd	12.25	9.625	36	2,330'	700	0
Prod	7.875	5.5	17	10,361	1000	2,080'

Drill 12-1/4" hole to 2,330' with Brine, and run 9-5/8", 36#, J-55 and cement to surface in 1 stage. Drill 7-7/8" curve and lateral with cut brine to approx. 10,361' MD. Run 5-1/2", 17#, P-110 csg and cement to 2,080' in 1 stage.

Well Control

Type	Pressure	Test	Manufacture
Double Ram	3000	3000	Cameron

Permit Conditions of Approval

API: 30-0/5-4/865

Myof 21 State #/I H

OCD

Reviewer

CSHAPARD

Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string