District I 1625 N. French D				State of New Mexico NM OIL CONSERVATION Energy Minerals and Natural Resources IA DISTRICT								
Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210			·	Oil Conservation Division						AMENDED REPORT		
Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410							ancis Dr.					
Phone: (505) 334 District IV				I				RECEIV	ED			
1220 S. St. Franc Phone: (505) 476					Santa	Fe, NM	8/303			٢		
APPLI	CATIO	N FOR F	PERMIT T	<u>EEPEN,</u>	PLUGBAC	K, OR AD	D A ZONE					
		•.	Operator Name COG Operat						<sup>2</sup> OGRID Number 229137			
	$\frown$	600 W II	One Conche	Center lidland, TX 79	Center				<sup>3.</sup> API Number			
(*. Prop	erty Cøde				<sup>7</sup> Property Na	ame		30-015-28164				
	/ 3/	3891		Lakewo	od Farms	s SWD 1	8		1			
				<sup>7.</sup> Sı	urface Loc	ation			_			
UL - Lot D	Section 18	Township 19S	Range 26E	Lot Idn	Feet from 660		V/S Line	Feet From 660	E/W Line West	County Eddy		
		175		<sup>8.</sup> Propose	ed Bottom			000		Eddy		
UL - Lot	Section	Township	Range	· Lot Idn	Feet fror		V/S Line	Feet From	E/W Line	County		
				9. <b>D</b> /	l ool Inform							
				Pool	Name Devonian					Pool Code 96101		
7		-		Addition	nal Well In	formatio	n					
			<sup>12.</sup> Well Type S	:	<sup>13.</sup> Cable/Rotary <sup>14.</sup> I R			Lease Type	<sup>15.</sup> Gi	round Level Elevation 3385		
	<sup>16.</sup> Multiple <sup>17.</sup> Pr No 1			pth <sup>18.</sup> Formation <sup>19.</sup> Devonian			9. Contractor		<sup>20</sup> . Spud Date			
Depth to Gro			10,700 Dista	ance from nearest		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		Distance	to nearest surfac	e water		
	e using a o	closed-loop s	ystem in lieu o	-				<u>.</u>				
\ 				Proposed Ca								
Туре	Hole Size Casing Size Casing Weight/ft Setting		ng Depth	Sacks of C	Sacks of Cement Estimated TOC							
· · · · · ·				2.5.11		0045		1200				
		3/4"	7"	26#	<i>‡</i>	9945'		120	0	surface		
			Cosir	 ng/Cement Pr	i and a second s	ditional	Commont		_			
Original ca	sing will	remain the s		see attachment			Comments	\$				
	·		22.	Proposed Blo	owout Pre	vention P	rogram					
Type Working Pressure					3	Test Pressure		Manufacturer				
Hydraulic 2000 psig						2000 psig						
<ul> <li><sup>23.</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.</li> <li>I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC , if applicable.</li> </ul>						OIL CONSERVATION DIVISION						
Signature: Printed name	Printed name: Kanicia Castillo					Title:	f.a.	1 Keplas d	Genir	aist"		

Title: Lead Regulatory Analyst		Approved Date: 11-18-2014 Expiration Date: 11-18-2016
E-mail Address: kcastillo@concho.cor		
Date: 11/07/14	Phone: 432-685-4332	Conditions of Approval Attached

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#### Lakewood Farms 18 #1 SWD

#### C-101 - Casing/Cement Program: Additional Comments

It is COG's intent to re-enter and deepen this well to the Devonian formation for produced water disposal. Cement plugs from surface to 9,200 ft will be drilled out of the existing surface casing and the 7-7/8" OH using a 7-7/8" bit. Existing 7-7/8" hole will be reamed to 8-3/4" from 1,112 ft to @ 9,550 ft; 9,550 ft to 9,945 ft will be new hole. 7" casing will be run to 9,945 feet and cemented to surface with 1200 sacks of cement. Once casing is set, we will drill 6-1/8" OH from 9,945 ft to TD @ 10,700 ft.

### Lakewood Farms 18 #1 – SWD Completion Procedure 660' FNL & 600' FWL Sec 18, T19S, R26E Eddy Co, NM API #30-015-28614

#### Well Data

Injection Formation: Devonian MD/PBTD: 10,700' Surface Csg: 9-5/8" 36# J55 @ 1,112', CMT w/ 150 sx Class C w/ 2% CaCl2 + 800 sx 35:65:6 Class C, Circ 123 sx Prod Csg: 7" 29# HCL-80 @ +/- 9,945',

Inj Tubing: 3-1/2" 9.3# L80 EUE Glassbore Tubing (10 ppf actual)

#### Procedure

- Set anchors, set two frac tanks, set two lined acid frac tanks, MIRU WSU, NU 7-1/16" hydraulic BOP with 3-1/2" pipe rams and blind rams. Close blind rams and test casing to 1,000 psi.
- Order 3-1/2" 9.3# L80 workstring. RIH with RBP retrieving tool and retrieve 7" RBP set @ approximately 9,900'.
- RIH with 7" treating packer on 3-1/2" workstring to 9,800'. Set packer and test tubing x casing annulus to 1,500 psi.
- Acidize Devonian open hole from 9,945' 10,700' with 40,000 gals NE Fe 20% HCl acid (inhibited) at 8-10 BPM while limiting treating pressure to 5,000 psi and holding 1,500 psi on the annulus. Flush acid with one frac tank of fresh water. Shut well in for a couple of hours or until well is on a vacuum.
- Unset treating packer and TOOH laying down workstring. Inspect packer for damage and missing elements.
- RIH with 7" nickel plated AS-1X retrievable injection packer with pump out plug on 3-1/2" 9.3# L80 EUE Glassbore internally lined tubing to place packer at approximately 9,900'.
- Space out to put 20 points compression on packer, set packer and get off of on/off tool. Reverse circulate annulus with approximately 250 bbls fresh water packer fluid containing corrosion inhibitor/biocide/oxygen scavenger.
- Latch onto on/off tool and plumb in wellhead. Top off annulus with packer fluid if necessary.
- Give NMOCD Artesia 24 hours of notice for MIT. Test tubing x casing annulus to 500 psi for 30 minutes. Limit injection pressure to 1,989 psi using a pressure limiting device.
- Run injection test as follows without exceeding 1,975 psi injection pressure while holding 1,000 psi on the annulus:
  - 2.0 BPM for 20 minutes (40 total barrels)
  - 4.0 BPM for 20 minutes (120 total barrels)
  - 6.0 BPM for 20 minutes (240 total barrels)
  - 8.0 BPM for 20 minutes (400 total barrels)
  - o 10.0 BPM for 20 minutes (600 total barrels)
  - 12.0 BPM for 20 minutes (840 total barrel)
- Collect ISIP, 5 min SIP, 10 min SIP, 15 min SIP and shut well in. RDMO and have all data sent to engineer.

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• Put well into service.

### Well: Lakewood Farms 18 #001

# API: 30-015-28164

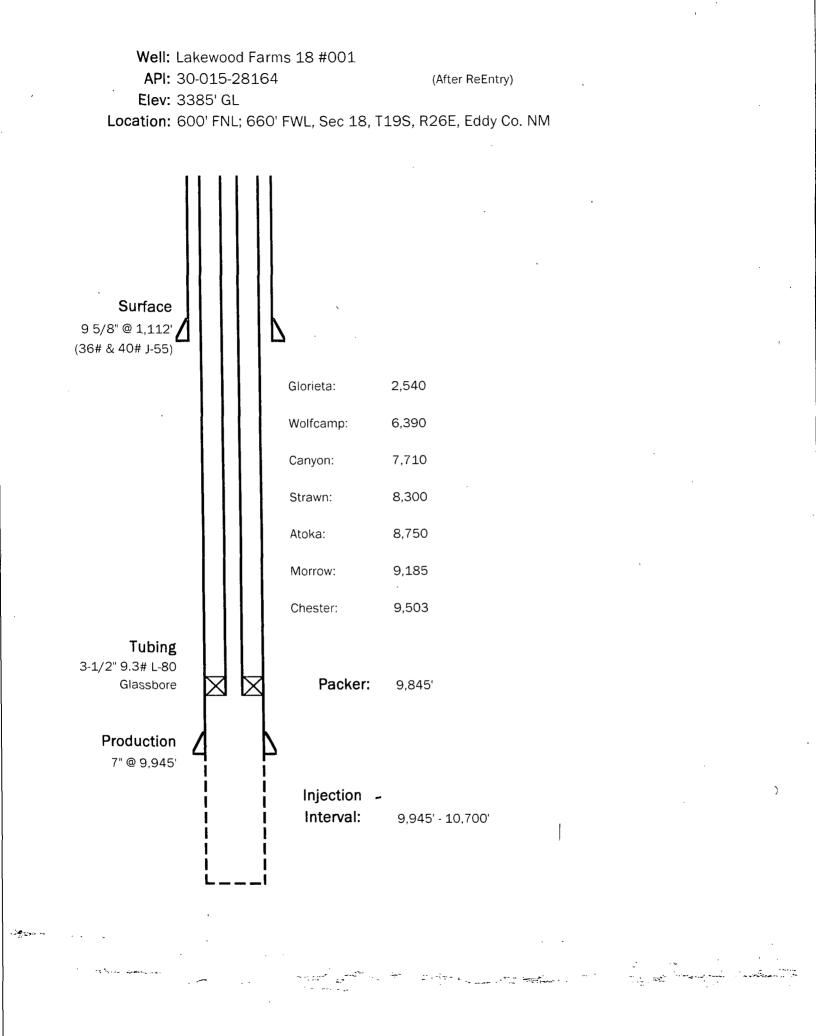
(Before ReEntry)

Elev: 3385' GL

Location: 600' FNL; 660' FWL, Sec 18, T19S, R26E, Eddy Co. NM

Plugs are indicated by crosshatched fill

				Plug #9:	10 sx Surface Plug
Curface				Plug #8:	35 sx @ 350 <sup>/</sup> - 250'
Surface 9 5/8" @ 1,112' (36# & 40# J-55)				Plug #7:	35 sx @ 1,172' <sup>)</sup> 1,072'
		7 7/8" OH be	low Surfac	e Casing	
U C				OH Plug #6:	35 sx @ 2,700' - 2,600'
	I <sup>XXXXX</sup>	Glorieta:	2,736'	-	(TIH. Did not tag cement)
				OH Plug #3:	35 sx @ 4,400' - 4,300'
		~	Υ.	OH Plug #2:	35 sx @ 6,400' - 6,300'
		Wolfcamp:	6,450'	OH Plug #1:	35 sx @ 7,646' - 6,646' (???)
		Canyon:	7,710'		
		Strawn:	8,112'		
	l l	Atoka:	8,628'		
```	<b>****</b>		۱	PBTD:	8,950'
		Morrow:	9,182'		(100 sx @ 8,950' - 9,200')
		Chester:	9,503'		
	ĪĪ	TD:	9,550'		



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District I

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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

AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

30-	164 🖌		<sup>2</sup> Pool Code 96101		<sup>3</sup> Pool Name SWD; Devonian ~					
<sup>4</sup> Property Code			La	<sup>5</sup> Property N kewood Fa				<sup>6</sup> Well Number 1		
229137				<sup>8</sup> Operator Name COG Operating LLC					<sup>°</sup> Elevation 3385	
<sup>10</sup> Surface Location										
UL or lot no. D	Section 18	Township 19S	Range 26E	Lot Idn	Feet from the $660$	North/South line North	Feet from the 660	East/West line West	County Eddy	
"Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
<sup>12</sup> Dedicated Acr	es <sup>13</sup> Joint o	r Infill	Consolidation (	Code <sup>15</sup> Or	der No. SWI	D- Pending				

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.

660'				<sup>17</sup> <b>OPERATOR CERTIFICATION</b> 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
660'				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.
				10/7/14
				Signature Date
				Kanicia Castillo
				Printed Name
				kcastillo@concho.com
			· ·	E-mail Address
				l
				<b>*SURVEYOR CERTIFICATION</b>
				<sup>•</sup> 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.
				Date of Survey
				Signature and Seal of Professional Surveyor:
				l Č
	. '			
1				· ·
				Certificate Number
				I