District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 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 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462				Energy Minerals and Natural Resources IVED					Form C-101 Revised November 14, 2012			
APPLI	CATION	FOR	PERMIT T	O DRIL	L, RE-EN	TER, DI	EEPEN,	, PLUGBAC	K, OR A	DD A ZONE		
			COG Operati 2208 West Ma	berator Name and Address OG Operating LLC 08 West Main Street Irtesia, NM 88210			30-01			² OGRID Number 229137 5 ^{API Number} 47806		
- * Prope	DZZZ	3			Property N Willow 17 Stat	lame e SWD				⁶ Well No 1		
<u> </u>	<u> </u>		. <u></u>	7.	Surface Lo	cation			····			
UL – Lot		Township	Range	Lot Idn	Feet fro		V/S Line	Feet From	E/W Line East	,		
L	17	258	28E	 * Pron	osed Bottor		South	660'	East	Eddy		
UL - Lot	Section	Township	Range	Lot Idn	Feet fro		V/S Line	Feet From	E/W Line	e County		
<u> </u>	I. I.	_		9.	Pool Infor	nation		L	L			
SWD; Devonian	1				Pool Name					Pool Code - 96101		
Wor	rk Type		^{12.} Well Type	Additi	ional Well I			¹⁴ Lease Type		^{5.} Ground Level Elevation		
New	Well		SWD 17. Proposed Depth	SWD			State			3016.2'		
			15,300'						12/1/2013			
Depth to Ground water Distance from nearest fresh water					well		Distance	to nearest su	face water			
г. <u> </u>			21.	Proposed (Casing and	Cement P	rogram			······		
Туре	Hole S	ize	Casing Size				Setting Depth Sacks of Ce		Cement	Estimated TOC		
Surface	26	-	20		94	3	300'	0' 550				
Intrmd	17.5	;	13.375	5	4.5	2300'		135	i0			
Production	12.2	5	9.625		40	9	9100' 135		iÒ	2100'		
Liner	8.75	5	7		29	14	4000'	50	0	9100'		
Disposal	6.12	5	ОН			15	5300'					
····			Casin	g/Cement	Program: A	dditional	Commen	ts		· · · · · · · ·		
hole to 2 9100' wi approxima	300′ with th cut br tely 14,0	Brine, ine, and 00' with	and run 13- l run 9-5/8 n cut brine, 15,300' wi	3/8", 54. ", 40#, J run & ha th cut br	5#, J-55 a -55/ P-110 ng a 7", 2 ine, and 1	nd cement csg and 9#, P-110 eave it o	to surf cement t liner a pen hole	ace. Drill 12 o 2100'. Dril	2-1/4" hol 1 8-3/4" 2k to line	er hanger. Drill 6-		
	- <u> </u>	_			Blowout Pr	evention P				Manufact		
Type Double Ram			Working Pressure 5000			Test Pressure 5000		Cameron				
					<u> </u>		~ 	I				
 ^{23.} I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC and/or 19.15.14.9 (B) NMAC , if applicable. Signature: 					OIL CONSERVATION DIVISION							
Printed name	Printed name: Mayte Reyes					Title: / "Geologist" / /						
Title: Regul	latory Analyst					Approved [Date: ///	18/2013 E	Expiration Da	te: 11/18/2015		
E-mail Addre	ess: mreyes1@	concho.cor	n				- 7'	/		/ / /		
Date: 11/18/2013 Phone: 575-748-6945 ·					Conditions of Approval Attached							

District.1 1625 N. French Dr., Hobbs, NM 88240 Phone: (573) 393-6161 Fax: (575) 393-0720 District II 841.5, First St., Artesia, NM 88210 Phone: (573) 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 1220 South St. Francis Dr. Santa Fe, NM 87505

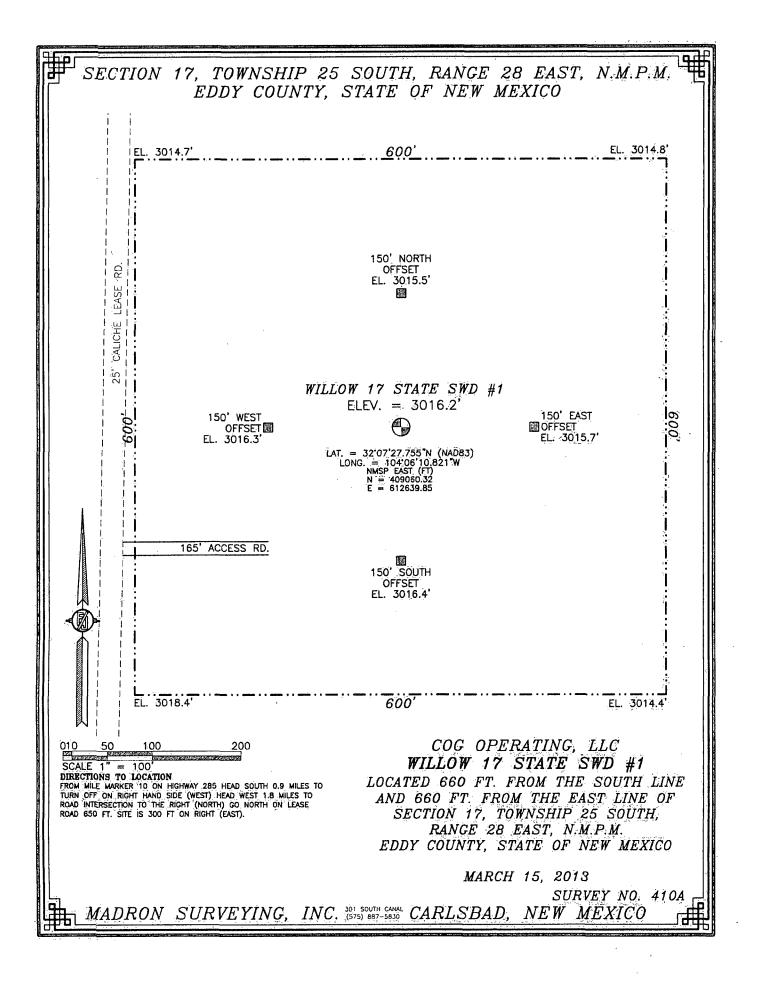
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

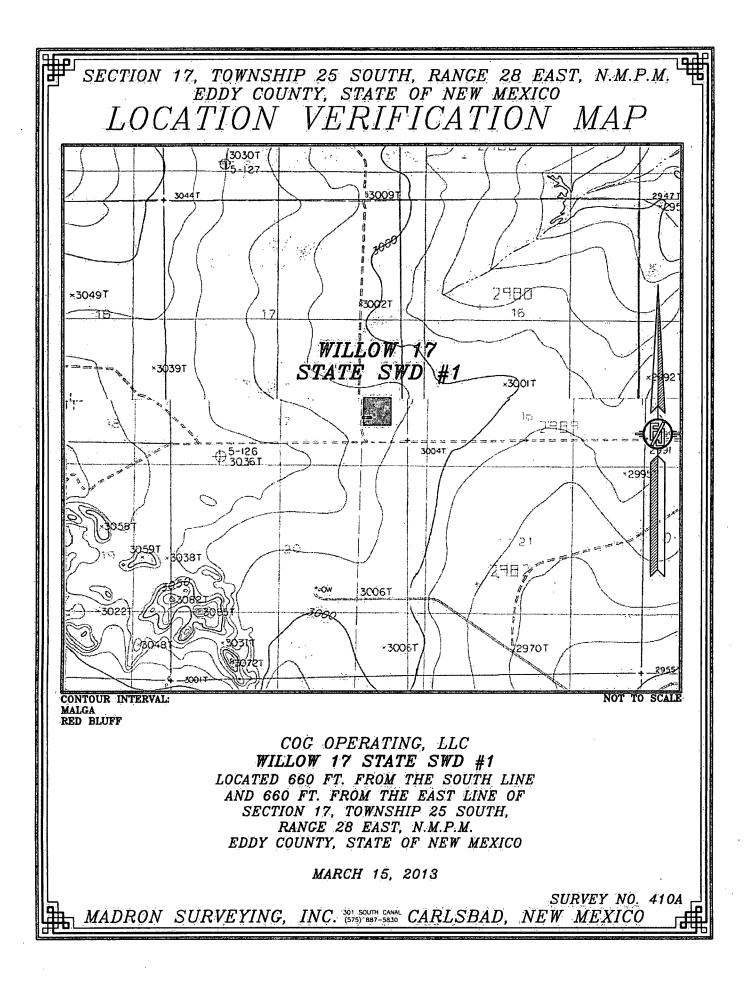
AMENDED REPORT

		W	ELL LO	DCATIO	N AND ACR	EAGE DEDIC	CATION PLA	T			
	ILAN /	² Pool Code			³ Pool Name						
30-015-41806				96101 SWD; Devonian							
Property Code				³ Pröperty Name						" Well Number	
40220			WILLOW 17 STATE SWD						1		
OGRID No.		⁸ Operator Name								⁹ Elevation	
22913	7		COG OPERATING, LLC.						3016.2		
					¹⁰ Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line Cou		County	
Р	17	25 8	28 E		660	SOUTH	660	EAŜT		EDDY	
			" Bo	ttom Ho	e Location I	Different From	n Surface				
UL or lot no.	Section	Township	Range	Lot Iđn	Feet from the	North/South line	Feet.from.the	East/West line		County	
¹² Dédicated Acré	s ¹³ Joint ö	rinfili ¹⁴ Co	nsolidation	Code ¹⁵ Or	der No.	ļ	<u> </u>	·]		
N/A						·				<u></u>	

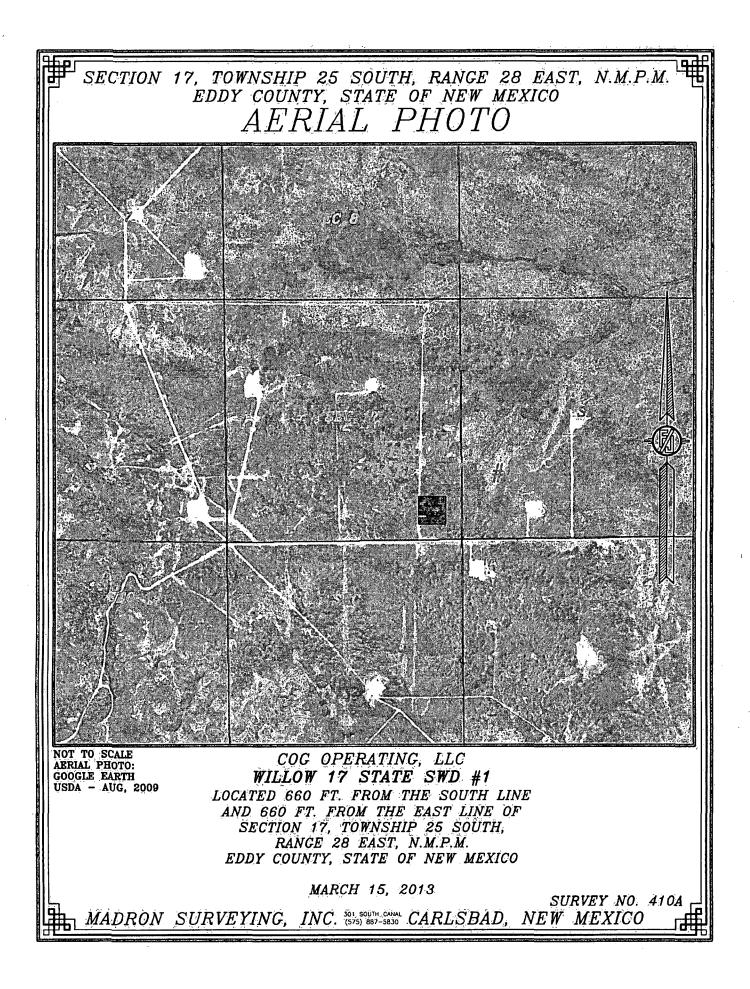
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

			"OPERATOR CERTIFICATION
NW CORNER SEC. 17		NE CORNER SEC. 17	I hereby certify that the information contained herein is true and complete
LAT. = 32'08'14.49"N		LAT. = 32'08'14.48"N	
LONG. = $104'07'05.63'W$		LONG. = 104'06'03.55"W	to the best of my knowledge and belief, and that this organization either
NMSP EAST (FT) N = 413773.22	l I	NMSP EAST (FT) N = 413783.46	owns a working interest of unleased mineral interest in the land including
E = 607917.21	l	E = 613255.10	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 compulsory pooling
			order herefolding intered by the division.
			Metanie Harker
			mparker@concho.com
			¹⁸ SURVEYOR CERTIFICATION
	l l	1	I hereby certify that the well location shown on this
			plat was plotted from field notes of actual surveys
		i	made by me or under my supervision, and that the
			same is true and correct to the best of my belief.
		SE CORNER SEC. 17 LAT. = 32'07'21.28"N	
		LONG. = 104'06'03.09"W	MARCH 15. 2013
			Date of Survey (12797)
	WILLOW 17 STATE SWD #1		1 March M
SW CORNER SEC. 17 LAT. = 32'07'20.86'N	ELEV. = 3016.2' LAT. = 32'07'27'755"N (NAD83) s	1105 660'	A land leanily
LONG. = 104'07'05.05"W	LONG. = 104'06'10.821'W		Signature and Seal of Professional Surveyor.
NMSP EAST (FT)	NMSP EAST (FT)		Certificate Number: TILINON F JARANIILLO. PLS 12797
N = 408353.79 E = 607978.31	N = 409060.32 E = 612639.85		SURVEY NO. 410A
L	<u>ا</u> ر		









State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

John Bemis Cabinet Secretary

Brett F. Woods, Ph.D. Deputy Cabinet Secretary Jami Bailey Division Director Oil Conservation Division



Administrative Order SWD-1387 January 24, 2013

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of 19.15.26.8B NMAC, COG Operating LLC, seeks an administrative order to utilize its proposed Willow 17 State SWD Well No. 1 (API 30-015-NA) to be located 660 feet from the South line and 660 feet from the East line, Unit letter P of Section 17, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico, for produced water disposal purposes.

THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of 19.15.26.8B NMAC and satisfactory information has been provided that affected parties as defined in said rule have been notified and no objections have been received within the prescribed waiting period. The applicant has presented satisfactory evidence that all requirements prescribed in 19.15.26.8 NMAC have been met and the operator is in compliance with 19.15.5.9 NMAC.

IT IS THEREFORE ORDERED THAT:

The applicant, COG Operating LLC, is hereby authorized to utilize its proposed Willow 17 State SWD Well No. 1 (API 30-015-NA) to be located 660 feet from the South line and 660 feet from the East line, Unit letter P of Section 17, Township 25 South, Range 28 East, NMPM, Eddy County, New Mexico, for disposal of oil field produced water (UIC Class II only) into the Devonian formation through an open hole interval from approximately 14000 feet to 15300 feet through internally coated tubing and a packer set within 100 feet of the permitted interval.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the disposed water enters only the approved disposal interval and is not permitted to escape to other formations or onto the surface.

After installing tubing, the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. The casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The well shall pass an initial mechanical integrity test ("MIT") prior to initially

Administrative Order SWD-1387
COG Operating LLC
January 24, 2013
Page 2 of 3

commencing disposal and prior to resuming disposal each time the disposal packer is unseated. All MIT testing procedures and schedules shall follow the requirements in Division Rule 19.15.26.11A. NMAC. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in this well.

The wellhead injection pressure on the well shall be limited to **no more than 2800 psi**. In addition, the disposal well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressure to the maximum allowable pressure for this well.

The Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the disposed fluid from the target formation. Such proper showing shall be demonstrated by sufficient evidence including but not limited to an acceptable Step-Rate-Test.

The operator shall notify the supervisor of the Division's district office of the date and time of the installation of disposal equipment and of any MIT test so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of disposal to the Division's district office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Division Rules 19.15.26.13 and 19.15.7.24 NMAC.

Without limitation on the duties of the operator as provided in Division Rules 19.15.29 and 19.15.30 NMAC, or otherwise, the operator shall immediately notify the Division's district office of any failure of the tubing, casing or packer in the well, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

The injection authority granted under this order is not transferable except upon division approval. The division may require the operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

The division may revoke this injection permit after notice and hearing if the operator is in violation of 19.15.5.9 NMAC.

The disposal authority granted herein shall terminate two years after the effective date of this order if the operator has not commenced injection operations into the subject well. One year after the last date of reported disposal into this well, the Division shall consider the well abandoned, and the authority to dispose will terminate *ipso facto*. The Division, upon written request mailed by the operator prior to the termination date, may grant an extension thereof for good cause.

Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

Administrative Order SWD-1387 COG Operating LLC January 24, 2013 Page 3 of 3

Jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the disposal authority granted herein.

JAMI BAILEY

Director

JB/wvjj

cc: Oil Conservation Division – Artesia District Office State Land Office – Oil, Gas, and Minerals Division

C101Conditions

Permit Conditions of Approval

API: 30-0/5-41806

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OCD Reviewer	Condition
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