#### <u>Pistrict 1</u> 1625 N. French Dr., Hubbs. NM 88246 Phone: (575) 393-6161 Fax: (575) 393-6720 <u>District II</u>

Phone: (505) 334-6178 Fax: (505) 334-6170

District 1V 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-346# Fax: (505) 476-3462

E-mail Address: mreyes1@concho.com

Phone: 575-748-6945

Date: 5/1/2014

## State of New Mexico

Form C-101 Revised Navember 14, 2012

# **Energy Minerals and Natural Resources**

Oil Conservation Division

☐AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPLI	CATIC	N FO				NTER, DE	EEPEN, P	LUGBAC		DD A ZONE	
		4	Operator Name COG Operat						OGRID N	lumber	
			2208 West M Artesia, NM	ain Stre	ect				22913 APLNu	1	
<sup>3</sup> Pmp	any Code		Aftesia, inivi	. 88210		Vingoria		30-0	15-4°	23.56	
	eny Code 405/8				<sup>3</sup> Property N Cottonwood 2 St					1	
<del></del>	·	<del></del>	<u> </u>	<del>T</del>	7. Surface Lo						
UL – Lot O	Section 2	Township 26S	p Range 26E	Lot	ldn Feet fr 400		/S Line South	Feet From 1400	E/W Line East	e County Eddy	
	<u> </u>		#17E4		roposed Botton			1400	EAJ3,	Lacy	
UL - Lot	Section	Township	p Range	7	ldn Feet fr		/S Line	Feet From	E/W Line	c County	
<u> </u>	<u> </u>	<u></u>		<u>L</u>	9. Pool Infor	mation			<b></b>		
				***************************************	Pool Name					Pool Code	
SWD; Devoniar	n			Λ.	iditional Well I	-formation			2000 da Carray (1990)	96101	
1	ork Type		12 Well Type	, /1	13 Cable/F			Lease Type State	1	3. Ground Level Elevation	
· 16 M	v Well Iultiple	_	SWD 17 Proposed Depth			is. Formation . 19.				3298.8° Spud Date	
N 14600°  Depth to Ground water Distance from nearest fresh						onian Distance to			to nearest surface water		
Ĺ		······································	21,	Propo:	sed Casing and	Cement Pr	กฐรภท		***************************************		
Туре	Hol	e Size	Casing Size	Y	sing Weight/ft		g Depth	Sacks of (	 Perment	Estimated TOC	
Surface		26	20		94 .		300'		)	Surface	
Intrind	1	7.5	13.375		54.5	19	950'	200	<del></del>	Surface	
Production	. :	2.25	9.625	<u> </u>	40	8700°		2000		1500	
Liner	8	1,75	7		29	13	100.	800	)	8400	
Disposal	6.	125	ОН			140	500'	· .			
			Casir	ıg/Cem	ent Program: A	Additional (	Comments				
i .							-			Drill 17-1/2" le to approximately	
1			and run 9-5/8							• • •	
										nanger. Drill 6.	
1/8" hole	to appr	:oximate	ely 14600' wit					r salt wate	disposa	il purposes.	
					ed Blowout Pr	evention Pr					
	Type Double Ra		<del></del>	Working Pressure 5000		Test Pressure				Manufacturer	
L		1111		300	10	1	5000		w	Cameron	
23. I berehv ce	enify that th	ne informa	tion given above is t	nie and c	omniete to the	T	***************************************		spilistilikaid liikisessa papaanaan person	repression van segan producer and programme and description of the control of the control of the control of the	
best of my kn	owledge an	id belief.			•		OIL C	ONSERVAT	ION DIV	/ISION	
I further cert 19.15.14.9 (B Signature: (	B) NMAC 🛭		plied with 19.15.14.	9 (A) NM	IAC 🔀 and/or	Approved B	" Rk	2Dad	Q		
Printed name:	: Mayte R	leyes	<del></del>	<u> </u>		Title:	IST R	Sipenies	$\overline{}$	352 <u>3.4525</u>	
Title: Regul		<del></del>	•	***************************************		Approved Date: May 1 - 2014 Expiration, Date: May 1 2016					

Conditions of Approval Attached

DISTRICT II 011 E. VIRST ST., ARTESIA, NK 88210 Phome: (676) 748-1883 Vas: (876) 748-9780

State of New Mexico DISTRICT I

1825 N. FRENCH DR., HORBES, No. 888540
Energy, Minerals & Natural Resources Department
French (876) 855-6101 Fam (876) 855-6101 Fam (876) 855-6101 OIL

CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (303) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1250 S. ST. FRANCIS DR., BANTA FF, MR 67505
Phone: (505) 476-3468 Fax: (306) 476-3462

AMENDED REPORT

ne: (805) 478-3480 Fax: (805) 478-340	WELL LOCATION AND	ACREAGE DEDICATION F	PLAT
API Number	Pool Code	Po	ool Name
30-015-	96101	SWD; D	evonian
Property Code	•	perty Name D 2 STATE SWD	Hell Number
OGRID No. 229137	•	RATING, LLC	Elevation 3298.8'

### Surface Location

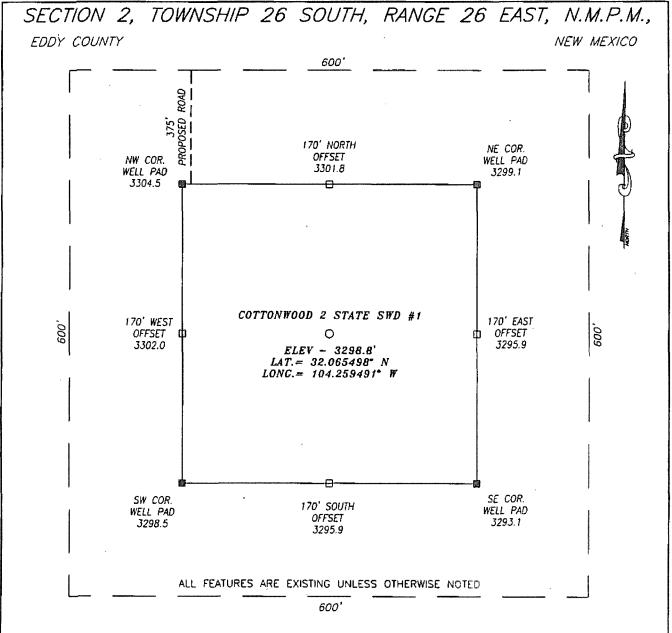
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	2	26-S	26-E		400	SOUTH	1400	EAST	EDDY

### Bottom Hole Location If Different From Surface

	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Peet from the	East/West line	County
Dedicated Acres   Joint or Infill   Consolidation Code   Order No.								<b></b>		
1	N/A						SUNY - 14	173		

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
	i bereby certify that the information
	herein is true and complete to the best of my knowledge and belief, and that this
	organisation either owns a working interest
	or unleased mineral interest in the land including the proposed bettom 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
	compulsory pooling order fereintore entered by the division.
	· /// / / // /
	1 / V Danie Starter 5/11/
	Signature Date
	Melanie J Parker
	Printed Name
	mparker@concho.com
	f-mail Address
	SURVEYOR CERTIFICATION
	Above on this plat was plotted from field notes of scius surveys made by me or under my supervision, and that the same in
NAD 27	under my supervision, and that the same in true and correct to the best of my belief.
SURFACE LOCATION	APRIL 28, 2014
Y=387560.8 N X=522874.4 E	Date of Survey
LAT.=32.065498° N	Signature & Scal of Professional Surveyor
LONG.=104.259491' W	CHAD L. HARCROA
	CHAUP
	WELL
1 '	' [ [17777] <b>   </b> [ ]
	LICENSTAN SURFICION STATE OF THE PROPERTY OF T
	1400'
S.L.Q	1400'
400	Certificate No. CHAD HARCROW 17777
	W.O. 14-308 DRAWN BY: AH



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CR #724 (WHITES CITY RD.) AND CR #742 (JOHN D FOREHAND RD.) GO APPROX. 0.5 MILE WEST ALONG CR #724 (WHITES CITY RD.); THEN PROPOSED WELL IS APPROX. 570 FEET SOUTHEAST.

100

HARCROW SURVEYING, LLC 2314 W. MAIN ST, ARTESIA, N.M. 88210 PH: (575) 513-2570 FAX: (575) 746-2158

chad\_harcrow77@yahoo.com

Scale: 1"= 100'

COG OPERATING, LLC

cottonwood 2 state swd #1 well

100

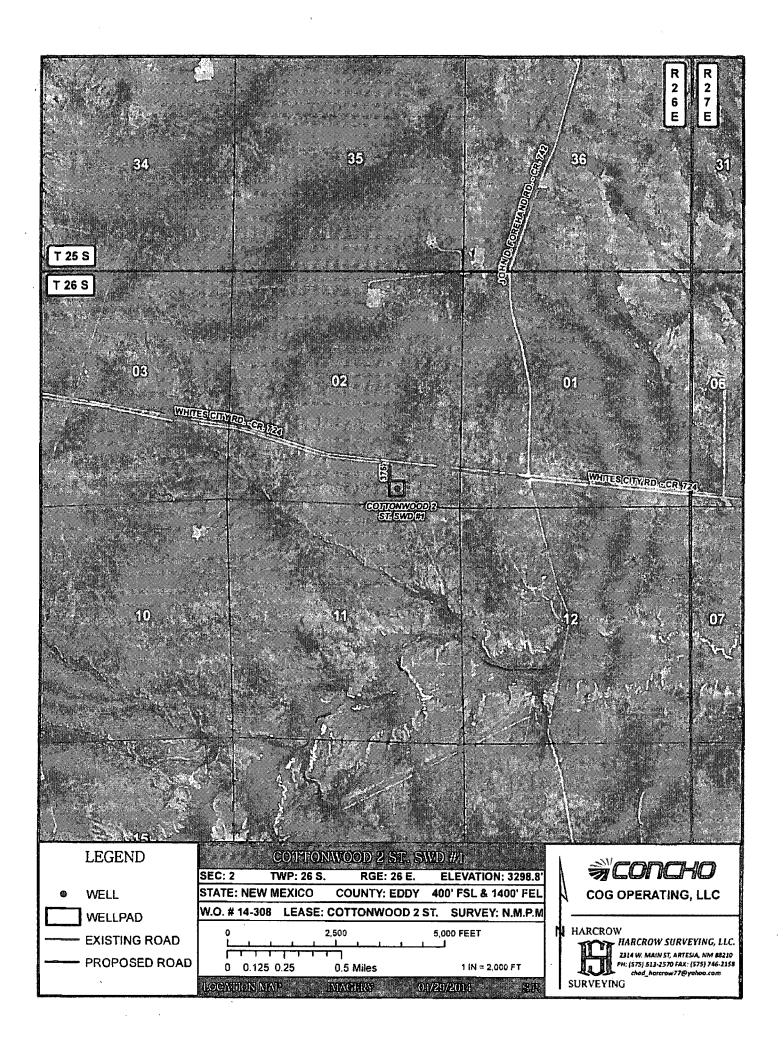
200 Feet

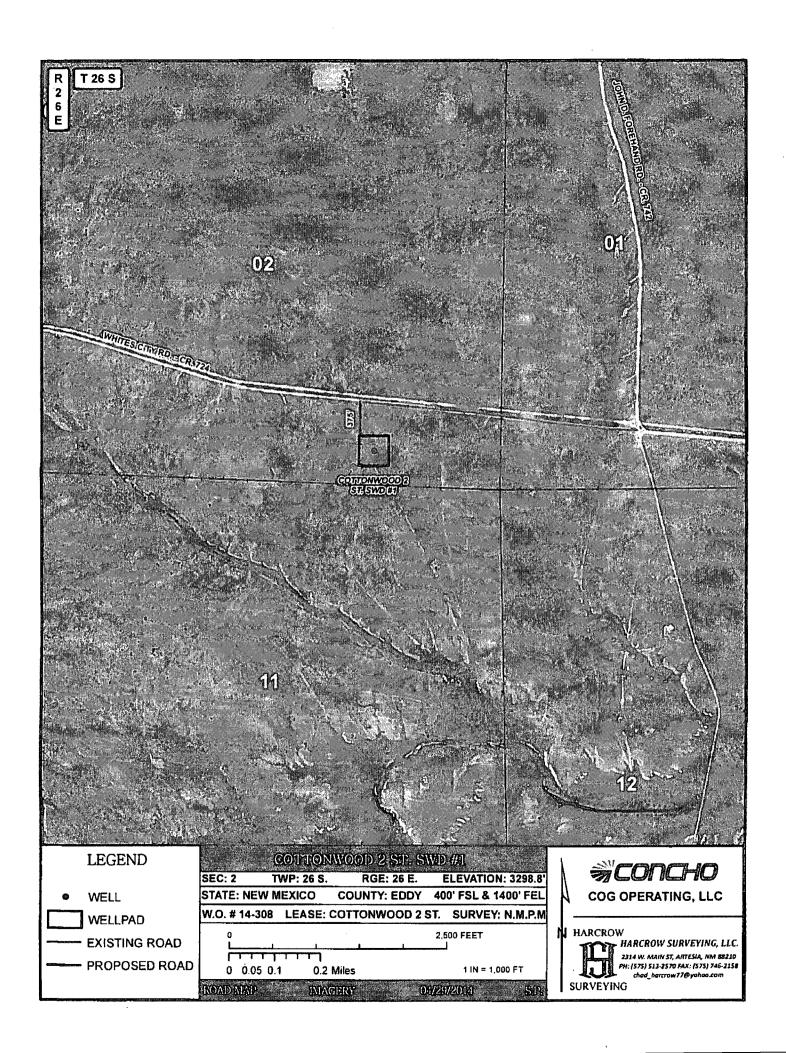
COTTONWOOD 2 STATE SWD #1 WELL
LOCATED 400 FEET FROM THE SOUTH LINE
AND 1400 FEET FROM THE EAST LINE OF SECTION 2,
TOWNSHIP 26 SOUTH, RANGE 26 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

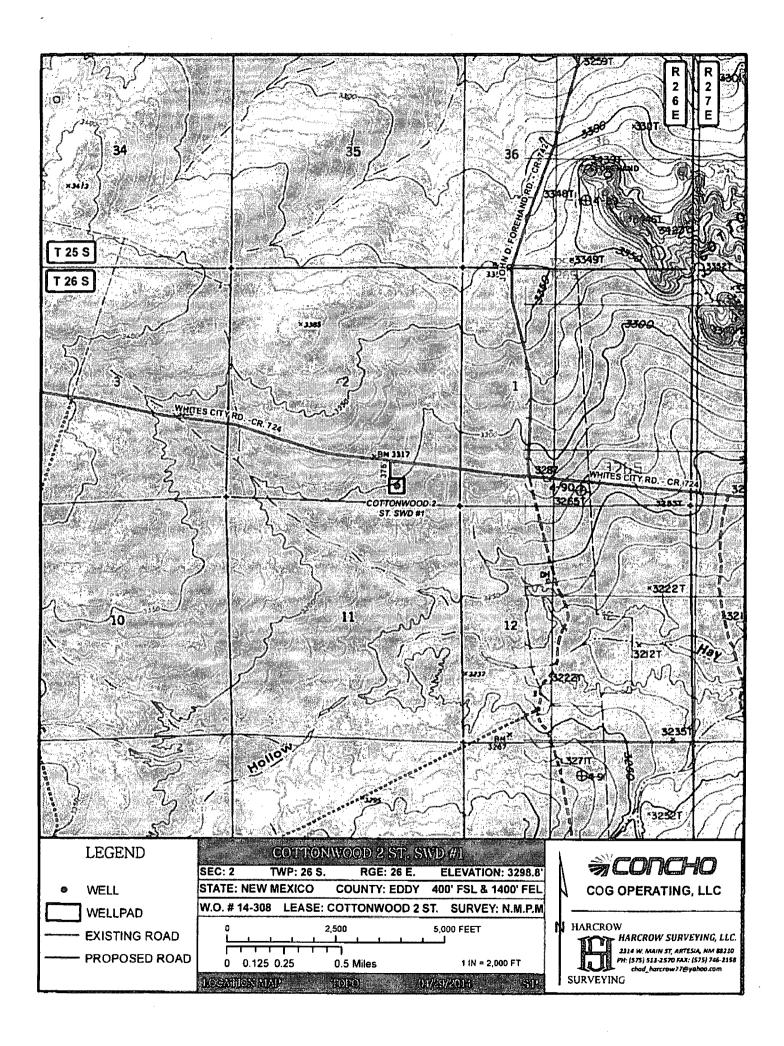
 SURVEY DATE:
 4/28/2014
 PAGE:
 1 OF 1

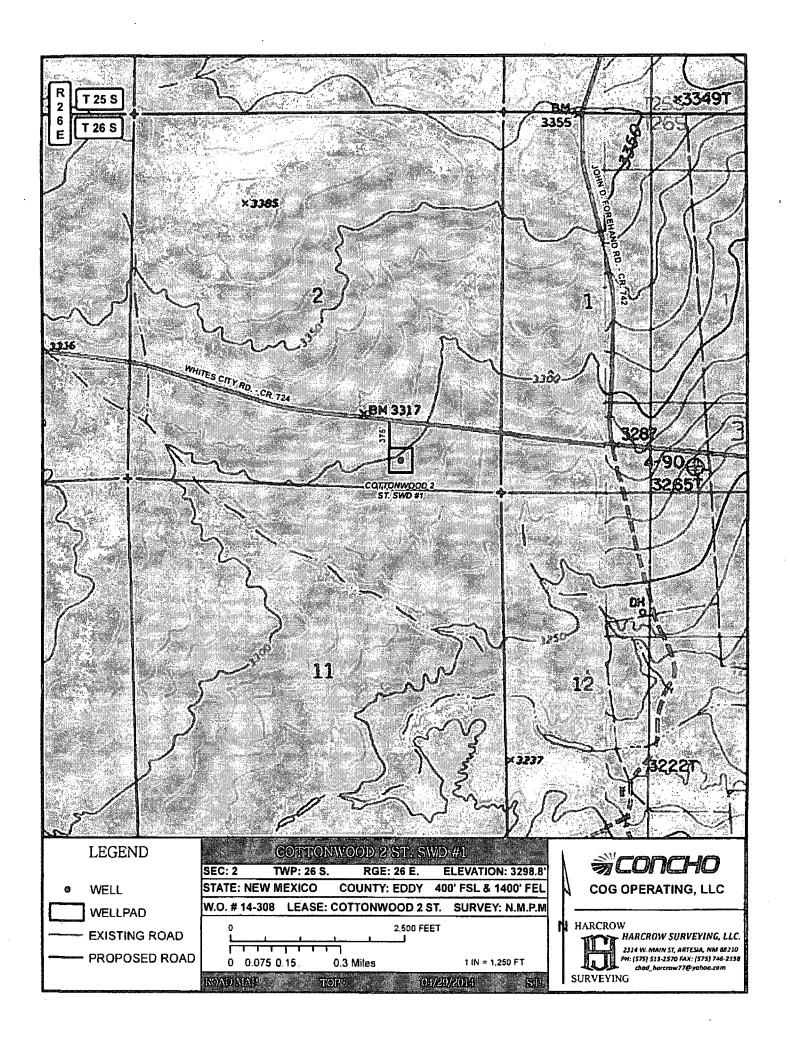
 DRAFTING DATE:
 4/29/2014

 APPROVED BY: CH
 DRAWN BY: AM FILE:
 14-308









077	08 0	09	10	11	12 Projection Projection	07.07.09.00.09.00.09.00.09.00.09.00.00.00.00.	08	093	10	
18		16	15 15	14 14 13 13 13 13 13 13 13 13 13 13 13 13 13	(3	18	4		15	
19	20	21	<sub>22</sub> 25S 26E	23	28	19 19	.25Š 27E	्र्वण्डा <sup>द्र</sup> 21	22	
/30	29	28	27	26	25	30	29	28	27	
31	32	33	The state of the s	35	200 pg	31	32	33	\$	
06	05	<b>%</b>	.03.	02	01	06)4	05 e <sup>b</sup>	P. Sa. Runna.	. 4 B	
07	108 108	09	10	COTTONWOO ST. SWD #	02 1 12	07	08	09	10	
18	17.	- <sup>16</sup> 26S 26	15	14	<b>. 13</b>	18	26S 27E	15	15	
.19	20	21	22	23	24 7%	19	20	21	22	
30	29	128	27	26	25	30 apples	29	28	27	
LEGEND  • WELL		SEC: 2 STATE: NEW W.O. # 14-30	STATE: NEW MEXICO COUNTY: EDDY 400' FSL & 1400' FEL					CONCHO COG OPERATING, LLC		
WELLPAD  EXISTING ROAD  PROPOSED ROAD		0 2,5	0 2,500 5,000 7,500 10,000 12,500 15,000 FEET HARCROW SURVEYING							

# State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin Cabinet Secretary

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



Administrative Order SWD-1473 April 10, 2014

# ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Pursuant to the provisions of Division Rule 19.15.26.8B. NMAC, COG Operating, LLC (the "operator") seeks an administrative order for its proposed Cottonwood 2 State SWD Well No. 1 with a location of 400 feet from the South line and 1400 feet from the East line, Unit letter O of Section 2, Township 26 South, Range 26 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 (OGRID 229137), is hereby authorized to utilize its Cottonwood 2 State SWD Well No. 1 (API 30-015-Pending) with a location of 400 feet from the South line and 1400 feet from the East line, Unit letter O of Section 2, Township 26 South, Range 26 East, NMPM, Eddy County, for disposal of oil field produced water (UIC Class II only) through open hole into an interval consisting of the Devonian, Silurian, and Ordovician formations from approximately 13100 feet to approximately 14600 feet. If the upper contact of the Ordovician Ellenburger formation is encountered prior to the lower limit of the approved injection interval at 14600 feet, then the total depth of the well (and injection interval) shall be reduced to include only the upper 100 feet of Ellenburger formation. Injection will occur through internally-coated, 4 ½-inch or smaller 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. This includes the well construction proposed and described in the application.

The operator shall supply the Division with a copy of a mudlog over the permitted

1220 South St. Francis Drive - Santa Fe. New Mexico 87505

Administrative Order SWD-1473 COG Operating LLC April 10, 2014 Page 2 of 3

disposal interval and an estimated insitu water salinity based on open-hole logs. If significant hydrocarbon shows occur while drilling, the operator shall notify the Division's district II and the operator shall be required to receive written permission prior to commencing disposal.

The operator shall also include a cement bond log (or equivalent) showing final top of cement for the 7-inch liner and 9 5/8-inch casing.

The operator shall also provide a summary of depths (picks) for formation tops in the injection interval to the Division's district II office prior to commencing disposal.

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 commencing disposal and prior to resuming disposal each time the disposal packer is unseated. All MIT 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 2620 psig. 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 II office of the date and time of the installation of disposal equipment and of any MIT 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 II 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 (2) 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.

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.

JAMIBAILEY

Director

JB/prg

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

[Administrative Application No. pMAM1404958721]