ABOVE THIS LINE FOR DIVISION USE ONLY



PWW1236156019

NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

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7	THIS CHECKLIST IS M	ANDATORÝ FOR ALL ADMINISTRATIVE APPLICATION WHICH REQUIRE PROCESSING AT THE D	S FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS IVISION LEVEL IN SANTA FE
Appli	cation Acronym	S?	resonance menting the ground of the
	NSL-Non-Šta DHC-Dow PC-Po	ndard Location] [NSP-Non-Standard Prora nhole Commingling] [CTB-Lease Comm of Commingling] [OLS - Off-Lease Stora [WFX-Waterflood Expansion] [PMX-Pre [SWD-Salt Water Disposal] [IPI-Injo lifted Enhanced Oil Recovery Certification	ingling] [PLC-Poot/Lease Commingling] ige] [OLM-Off-Lease Measurement] ssure Maintenance Expansion] ection Pressure Increasé]
	,		
[1]	TYPE OF AF	PPLICATION - Check Those Which Apply Location - Spacing Unit - Simultaneous I NSL NSP SD	
	Chack	One Only for [B] or [C]	
	[B]	Commingling - Storage - Measurement	PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase -	
	[D]	Other: Specify	
[2]	NOTIFICAT	ION REQUIRED TO: - Check Those Wh	ich Anniv or Does Not Amily
1,2-,3		Working, Royalty or Overriding Roy	
	[B]	Offset Operators, Leaseholders or Su	irface Owner
	[C]	Application is One Which Requires	Published Legal Notice
	[D]	Notification and/or Concurrent Appr U.S. Bureau of Land Management - Commissioner of Pu	roval by BLM or SLO ublic Lands, State Land Office
	[E]	For all of the above, Proof of Notific	ation or Publication is Attached, and/or,
	[F]	Waivers are Attached	
[3]		CURATE AND COMPLETE INFORMATION INDICATED ABOVE.	ATION REQUIRED TO PROCESS THE TYPE
	oval is <mark>accurate</mark> a		submitted with this application for administrative I also understand that no action will be taken on this mitted to the Division.
	Note	: Statement must be completed by an individual wi	ith managerial and/or supervisory capacity.
Mark A. Fairchild Print or Type Name Mark A. Fairchild Signature		Mark A. Fairchild Signature	Senior Operations Engineer 05/16/2012 Title Date
·			MFairchild@Conchoresources.com
An	nended for	re submission to	
M	NOCD 12/1	8/2012	e-màil Address
1411	TOUD IL!	viev ie	



Concho Operating LLC c/o Mark A. Fairchild 600 West Illinois Ave Midland TX 79701

December 18, 2012

Mr. William V. Jones, PE NMOCD 1220 South St. Francis Santa Fe, NM 87505

Dear Will:

This letter is in reference to Concho's Lakewood SWD #1, API 30-15-40717 and SWD Permit 1350.

The well was permitted for the Canyon interval with expected disposal zone from 7,725 to 8,000°. The Canyon came in almost perfectly with our expectations. However, the porosity development required for disposal was deeper in the Canyon section than we anticipated. Currently the well is completed for disposal in the Canyon with perforations from 7,840 to 8,084°. As you can see, we are very near our originally applied for depths.

Please review our status for an amended interval and let me know of any other information that you require.

Sincerely

Mark A. Fairchild Sr. Operations Engr.

Amended

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Application qualifi	Secondary Recoveryes for administrative approval?	Pressure Maintenance Yes	X Disposa	lStorage		
H.	OPERATOR: COG Operating, LLC.						
	ADDRESS: 550	ADDRESS: 550 West Texas, Ste 100, Midland TX 79701-4287					
	CONTACT PART	Y: Mark A. Fairchild		PHONE	: 432-686-302		
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.						
IV.	Is this an expansion If yes, give the Div	n of an existing project? rision order number authorizing the p	Yes X No project:				
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.						
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.						
VII.	Attach data on the proposed operation, including:						
	 Whether the sy Proposed avera Sources and an produced water If injection is for 	ge and maximum daily rate and volustem is open or closed; age and maximum injection pressure; appropriate analysis of injection fluir; and, or disposal purposes into a zone not pass of the disposal zone formation were	id and compatibility with the r	vithin one mile of the pr	roposed well, attach a		
*VIII	. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters wit total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.						
IX.	Describe the proposed stimulation program, if any.						
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted						
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.						
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.						
XIII.	Applicants must co	omplete the "Proof of Notice" section	on the reverse side of this for	m.			
	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.						
	NAME: Mark	A. Fairchild	TIT	LE: Sr. Operatio	ns Engr.		
	SIGNATURE: <u>M</u>	Mark A. Fairchild		DATE: _ 5/16/2	012		
*	If the information re	S: MFairchild@Concho. equired under Sections VI, VIII, X, a te and circumstances of the earlier su	and XI above has been previou		12/16/2012 not be resubmitted.		

Side 2 Amended

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

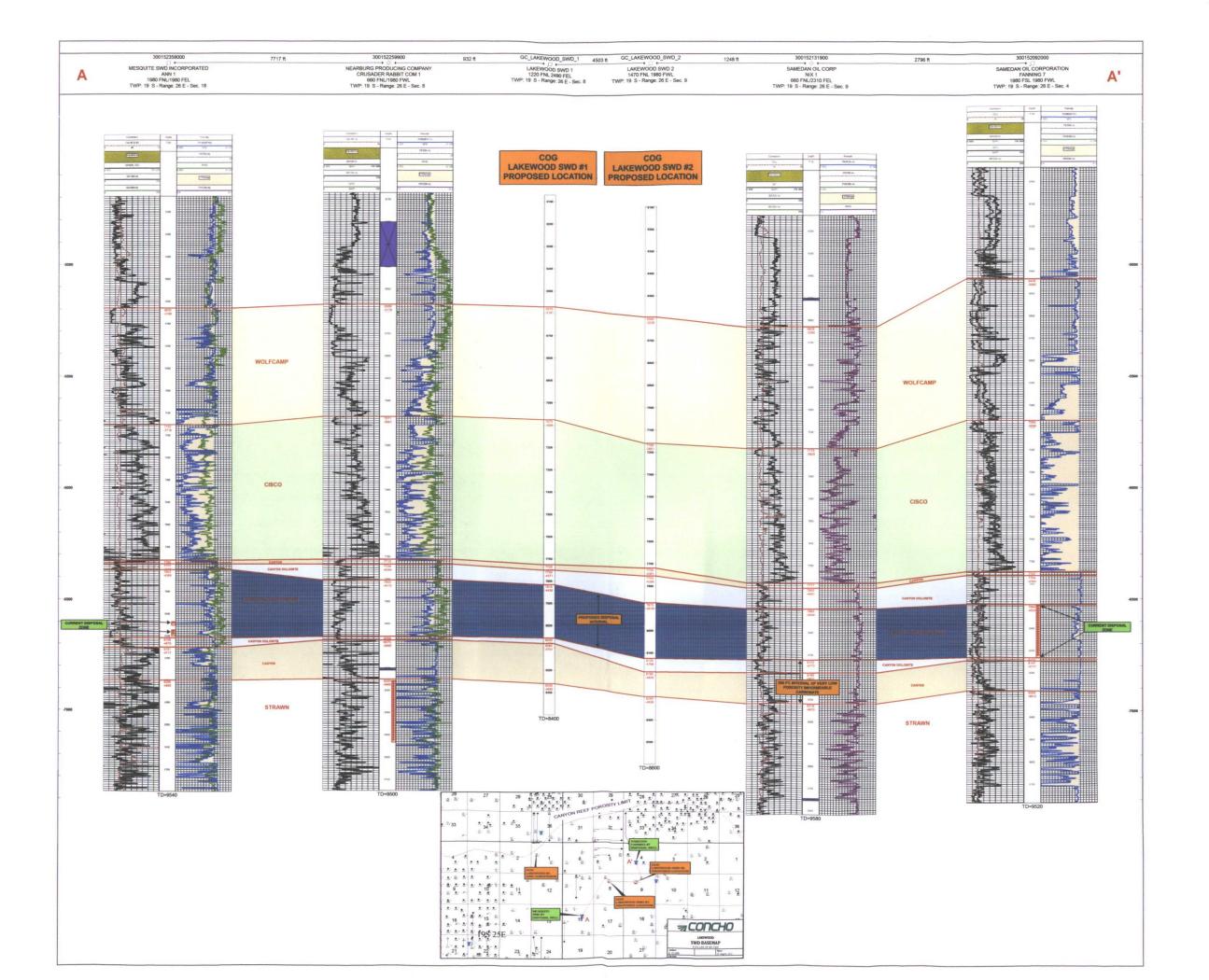
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INJECTION WELL DATA SHEET

WELL LO	CATION:	1220 FNL; 2490	FEL	В	8	T19S	R26E
		FOOTAGE LOCATI		UNIT LETTER	SECTION	TOWNSHIP	RANGE
	. Well: Lakewo	BORE SCHEMATIC ood SWD #1 NL; 2490 FEL, Sec 8,		mes will increase of those shown on this account for hole conditions unknown at this		ONSTRUCTION DAT Casing	<u>'A</u>
	119S, F	R26E, Eddy Co., NM		Hole Size: 12 1/4	ļ	Casing Size:	9 5/8"
				Cemented with: 40)0 sx.	or	
		-		Top of Cement: Su	rface	Method Determined	i: <u>Circulate</u>
		•			<u>Intermedia</u>	te Casing	
	9 5,	/8° @ 1,200'		W 1 0'		G : 6:	
				Hole Size:		Casing Size:	
				Cemented with:	sx.	or	ft
				Top of Cement:		Method Determined	i::
					Production	n Casing	
				Hole Size: 8 3/4"		Casing Size: 7"	
				Cemented with:	075 sx.	or	ft
	7" @	⊋ 8,400'		Top of Cement: Su	rface	Method Determined	i: <u>Circulate</u>
				Total Depth: 8,43	4'		
					Injection	<u>Interval</u>	
			•	7840	fee	t to 8084	

INJECTION WELL DATA SHEET

Tub	oing Size:	3 1/2" EUE	Lining Material: Internally plastic coated		
Тур	e of Packer	r: Double grip type,	set in neutral		
Pac	ker Settin	g Depth: no more tha	n 100' above top perf		
Oth	ner Type o	of Tubing/Casing Seal (if a	pplicable): N/A		
			Additional Data		
1.	Is this a	new well drilled for inject	ion? X Yes No		
	If no, for	r what purpose was the we	ell originally drilled?		
2.	Name of	the Injection Formation:	Canyon		
3.	Name of Field or Pool (if applicable): None				
4.		_	in any other zone(s)? List all such perforated i.e. sacks of cement or plug(s) used.		
	No, no	one			
5.			oil or gas zones underlying or overlying the proposed		
	Yeso	Yeso formation at approx. 2,630'			



Jones, William V., EMNRD

From:

Jones, William V., EMNRD

Sent:

Monday, December 17, 2012 12:03 PM

To:

'Mark Fairchild'; 'Kanicia Castillo'

Cc:

Ezeanvim, Richard, EMNRD

Subject:

RE: SWD-1350

Kanicia.

Send a brief packet in the mail containing:

- a. A very short letter asking for the amended permit and the reasons for it.
- b. The admin order checklist
- c. The C-108 "Injection Well Data Sheet" pages (with API number, well information, etc).
- d. A bigger copy of Greg Clark's X-Section (the emailed version is illegible as to the depths)

No need to re-do any notices.

We'll get this cranked out.

Will 1

From: Jones, William V., EMNRD

Sent: Monday, December 17, 2012 10:58 AM

To: 'Mark Fairchild'; Kanicia Castillo

Subject: RE: SWD-1350

Kanicia,

I save everything..and I found the Wellbore Diagram

...but to help me find it,

What date did you email the abbreviated C-108 to amend this permit?

Will

From: Mark Fairchild [mailto:MFairchild@concho.com]

Sent: Tuesday, November 27, 2012 3:58 PM **To:** Jones, William V., EMNRD; Kanicia Castillo

Subject: Re: SWD-1350

Will, can I get you this next Monday?

Mark A. Fairchild COG OPERATING LLC

Jones, William V., EMNRD

From:

Mark Fairchild < MFairchild@concho.com>

Sent:

Monday, December 17, 2012 10:05 AM

To:

Jones, William V., EMNRD

Subject:

RE: COG SENM Lakewood SWD #1

Will, this is the well that our disposal zone slightly exceeded our SWD Permit.

SWD-1350

API: 30-015-40717

M.A. Fairchild

COG OPERATING LLC Office: 432-686-3021 Cell: 432-230-7170

%CONCHO

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Monday, December 17, 2012 10:56 AM

To: Mark Fairchild

Subject: RE: COG SENM Lakewood SWD #1

Hi Mark,

Is this an SWD application?

What is the location and when was it submitted?

Has there been an API assigned?

From: Mark Fairchild [mailto:MFairchild@concho.com]

Sent: Monday, December 17, 2012 9:52 AM **To:** Jones, William V., EMNRD; Kanicia Castillo **Subject:** COG SENM Lakewood SWD #1

Will, please let me know the status of this well, thanks!!!!

M.A. Fairchild

COG OPERATING LLC Office: 432-686-3021 Cell: 432-230-7170



Monday, August 20, 2012

Amendment to SWD Application:

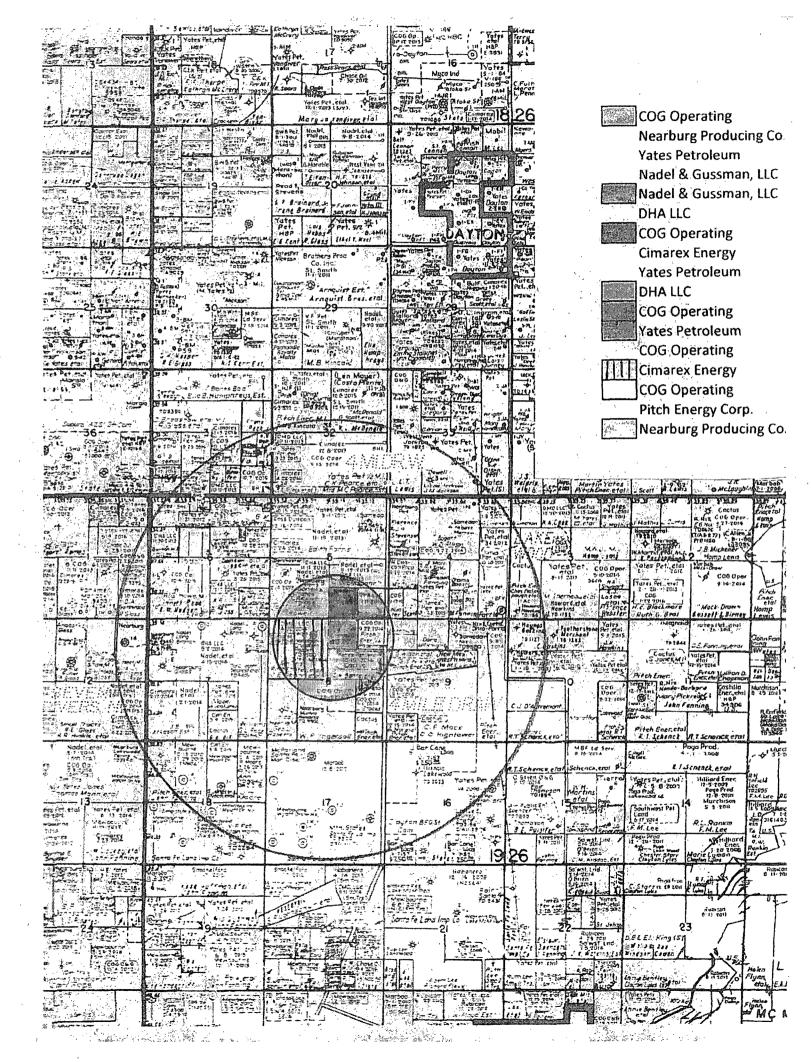
Lotter Sent To AOR OWNERS WITH ORIENDAL APPLICATION

In June of this year, you were formally noticed that COG Operating LLC has applied for approval to drill a new disposal well to be located in Unit letter F of Section 9, Township 19 South, Range 26 East, NMPM, Eddy County, New Mexico. This new well would be used for water disposal into the Pennsylvanian Cisco/Canyon formation(s) from 7720 feet to 8000 feet.

There is a Dry and Abandoned well (API No. 30-015-21319) located approximately ¼ mile away within the Area of Review. This well has a plug set in the open hole at 6500 feet and another plug at 8745 feet. Within this 6500 to 8745 feet depth range are the Wolfcamp formation and the Upper Pennsylvanian formations down to the top of the Strawn formation. COG believes re-entering and re-plugging this well is not necessary since the proposed disposal depths have much higher permeability and will preferentially take the disposed waters and these waters will not endanger mineral recovery from vertically adjacent formations. COG Operating LLC will cement to surface the long string of their proposed SWD well. This cementing will also preclude movement of disposal fluids outside of the applied for disposal interval.

COG Operating LLC is hereby noticing you of the presence of this old wellbore and continues to solicit your approval of the proposed disposal into the Canyon formation from 7720 feet to 8000 feet.

If you wish to protest, please do so within 15 days by notifying the Division in writing and copy any concerns to Mr. Mark Fairchild with COG at 432-686-3021.



Jones, William V., EMNRD

From:

Mark Fairchild < MFairchild@concho.com>

Sent:

Monday, August 13, 2012 3:01 PM

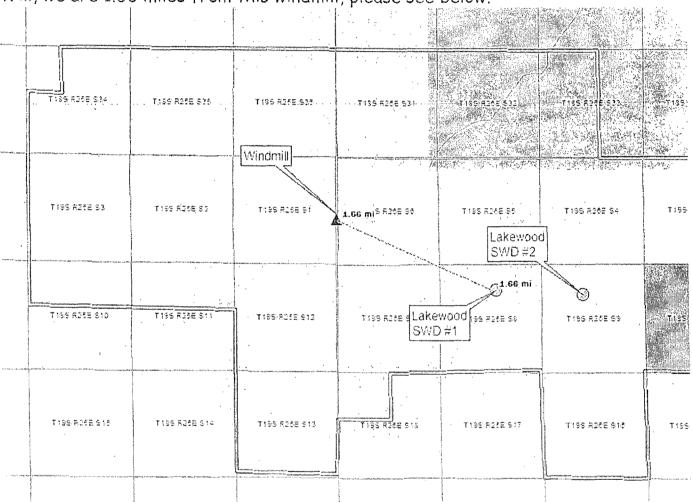
To:

Jones, William V., EMNRD

Subject:

Windmill

Will, we are 1.66 miles from this windmill, please see below.



M.A. Fairchild COG OPERATING LLC Office: 432-686-3021 Cell: 432-230-7170

JCONCHO

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments; if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.