L DATE IN	Tones, W 6/22/12 SV	VD pJD01217432822
_ort N	NEW MEXICO OIL CONSERVATION DIVISION NEW MEXICO OIL CONSERVATION DIVISION S 2 12 - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505	RECEIVED OC
	ADMINISTRATIVE APPLICATION CI	HECKLIST 2012 JUN 21 P 3:
	THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SITUATION Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-[WFX-Waterflood Expansion] [PMX-Pressure Maintena [SWD-Salt Water Disposal] [IPI-Injection Pressure [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Posit TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD Check One Only for [B] or [C] [B] Commingling - Storage - Measurement DHC TEB PLC PC OLS [C] Injection - Disposal - Pressure Increase - Enhanced Oil R	Simultaneous Dedication] -Pool/Lease Commingling] f-Lease Measurement] nce Expansion] Increase] ive Production Response] OGRID 230936 API Well Name Lakewood SWD #2 Locatel F-9-195-26E API 30-015-21319 OLM
	☐ WFX ☐ PMX ☑ SWD ☐ IPI ☐ EOR	
	[D] Other: Specify	
[2]	NOTIFICATION REQUIRED TO: - Check Those Which Apply, or [A] Working, Royalty or Overriding Royalty Interest Ow	
	[B] Offset Operators, Leaseholders or Surface Owner	
	[C] Application is One Which Requires Published Legal	Notice
	[D] Notification and/or Concurrent Approval by BLM or U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Commissioner of Public Lands, State Lands	· SLO Office
	[E] X For all of the above, Proof of Notification or Publica	tion is Attached, and/or,
	[F] Waivers are Attached	
[3]	SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIOF APPLICATION INDICATED ABOVE.	RED TO PROCESS THE TYPE
[4]	CERTIFICATION: I hereby certify that the information submitted with	this application for administrative

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Mark A. Fairchild		Mark A.	Fairchild	Senior Operations Engineer	05/16/2012
Print or Type Name		Signature		Title	Date
	,	n		MFairchild@Conchoresource	es.com
				e-mail Address	

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

Ι.	PURPOSE: Secondary Recovery Pressure Maintenance No Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: COG Operating, LLC.
	ADDRESS: 550 West Texas, Ste 100, Midland TX 79701-4287
	CONTACT PARTY: Mark A. Fairchild PHONE: 432-686-3021
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 of an existing project? Yes No If yes, give the Division order number authorizing the 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*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 with 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 complete the "Proof of Notice" section on the reverse side of this form.
XIV.	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 TITLE: Sr. Operations Engr.
	SIGNATURE: Mark A. Fairchild DATE: 5/16/2012
*	E-MAIL ADDRESS: MFairchild@Concho.com If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

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.

INJECTION WELL DATA SHEET

	UNIT LETTER volumes will increase of those shown on this on to account for hole conditions unknown at this ti Hole Size: 12 1/4" Cemented with: 400 Top of Cement: Suri Hole Size:	sx. Intermedia	Casing Size: or Method Determined the Casing Casing Size:	9 5/8" fd: Circulate
application Well: Lakewood SWD #2 Location: 1470 FNL; 1980 FWL, Sec 9 T19S, R26E, Eddy Co., NM	Hole Size: 12 1/4" Cemented with: Top of Cement: Sur	sx. Intermedia	Casing Casing Size: or Method Determinedate Casing Casing Size:	9 5/8" fd: Circulate
Location: 1470 FNL; 1980 FWL. Sec 9 T19S, R26E, Eddy Co., NM	Cemented with: Top of Cement: Surf Hole Size:	sx. face Intermedia	or Method Determined the Casing Casing Size:	d: Circulate
9 5/8" © 1.200'	Top of Cement: Suri	Intermedia	Method Determined the Casing Casing Size:	d: Circulate
9 5/8" © 1.200'	Hole Size:	Intermedia	ate Casing Casing Size:	
9 5/8" @ 1.200'			Casing Size:	
9 5/8" © 1.200'				
9 5/8" @ 1.200'				
9 5/8" @ 1.200"		Sx.	or	
	Top of Cement:		Method Determine	d:
		Production	on Casing	
·	Hole Size: 8 3/4"		Casing Size: 7"	
	Cemented with:	9 75 sx.	or	f
	Top of Cement: Sur	face	Method Determine	d: Circulate
	Total Depth: 8,400)'		
		<u>Injection</u>	<u>Interval</u>	

INJECTION WELL DATA SHEET

Tub	ing Size: 3 1/2" EUE Lining Material: Internally plastic coated
Тур	e of Packer: Double grip type, set in neutral
Pac	ker Setting Depth: no more than 100' above top perf
Oth	er Type of Tubing/Casing Seal (if applicable): N/A
	Additional Data
1.	Is this a new well drilled for injection?
	If no, for what purpose was the well originally drilled?
2.	Name of the Injection Formation: Canyon
3.	Name of Field or Pool (if applicable): None
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
	No, none
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	Yeso formation at approx. 2,630'

COG SENM SWD Well Questionnaires

Date: 5/16/12

By: Mark A. Fairchild, Office: 432-686-3021

Note: Answers to questions in this color

What will be the well name?

Lakewood SWD #2

What logs have been/will be run in the well?

Logs will be run as follows: porosity and resistivity

How will you re-enter/drill/convert the well?

The well will be drilled 100% with rotary tools.

How will you test the mechanical integrity of the casing?

A State of New Mexico supervised MIT test to 500 psig will be run on the tubing/casing annulus.

What size tubing do you plan to use?

The tubing will be 3 1/2" Nominal OD.

How will tubing be internally lined?

The tubing will be internally plastic coated.

What type packer will be used?

A nickel plated compression set packer will be utilized.

Where will packer be set?

To within 50 to 100' above casing shoe.

Will there be any other type of casing/tubing seal?

No.

What is the fracture gradient?

Approx 0.75

Will the well be stimulated?

Yes

If yes, how will the well be stimulated?

Large conventional acid job.

Into what perforated intervals will you inject?

Canyon Reef: 7,720 to 8000

What will be the average daily volume injected? 10-15,000 BWPD

What will be the maximum daily volume injected? 20, 000 BWPD

What will be the average injection pressure? Vacuum

What will be the maximum injection pressure? 1572 psig

Will water be trucked or piped to the well?

Piped

What wells will dispose into it?

Various wells owned exclusively by COG on our SWD water line system

Any non-COG wells?

No outside operated water will be disposed of.

What surface facilities (e.g.; tanks, pumps, filters) will be installed?

- 4 750 Bbl water storage tanks, 1 1,000 Bbl Gun Barrel
- 2 500 Bbl steel tanks, 1 400 BHP H pump

Do you have an analysis of the produced water you plan to inject?
Yes

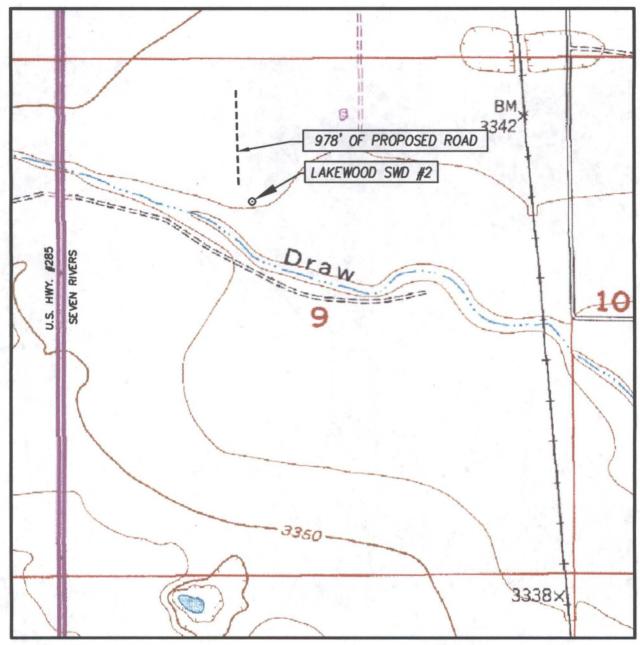
Do you have an analysis of the formation water into which you'll inject?

No, these well are on a vacuum and do not produce.

How will the geology prevent migration into fresh water zones (e.g., thickness of shale or salt layers)? Various impervious geological barriers exist between the Cisco and the surface.

Will the system be open or closed?
Closed

LOCATION VERIFICATION MAP



SCALE: 1" = 1000'

CONTOUR INTERVAL: DAYTON, N.M. - 10'

SEC. 9 TWP. 19-S RGE. 26-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1470' FNL & 1980' FWL

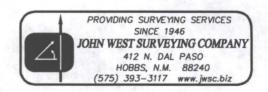
ELEVATION 3341'

OPERATOR COG OPERATING, LLC

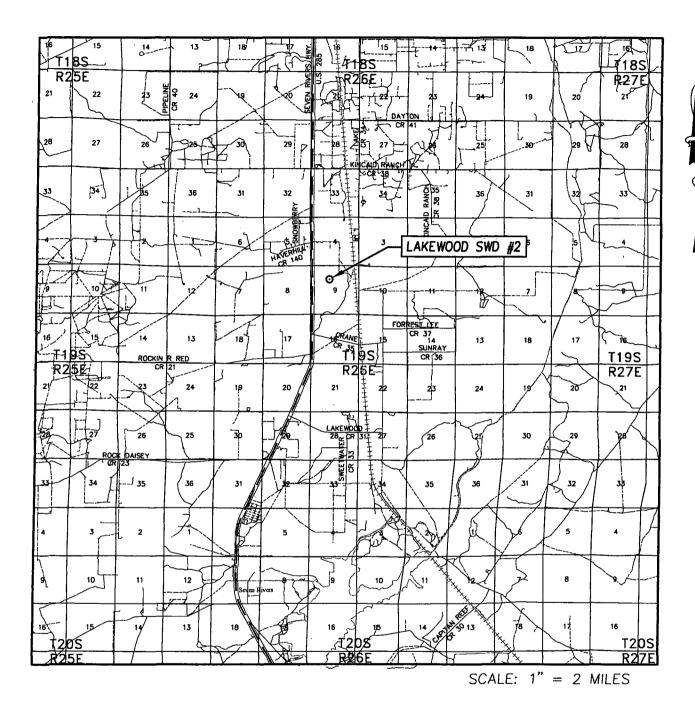
LEASE LAKEWOOD SWD

U.S.G.S. TOPOGRAPHIC MAP

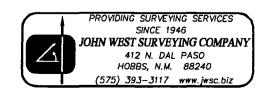
DAYTON, N.M.



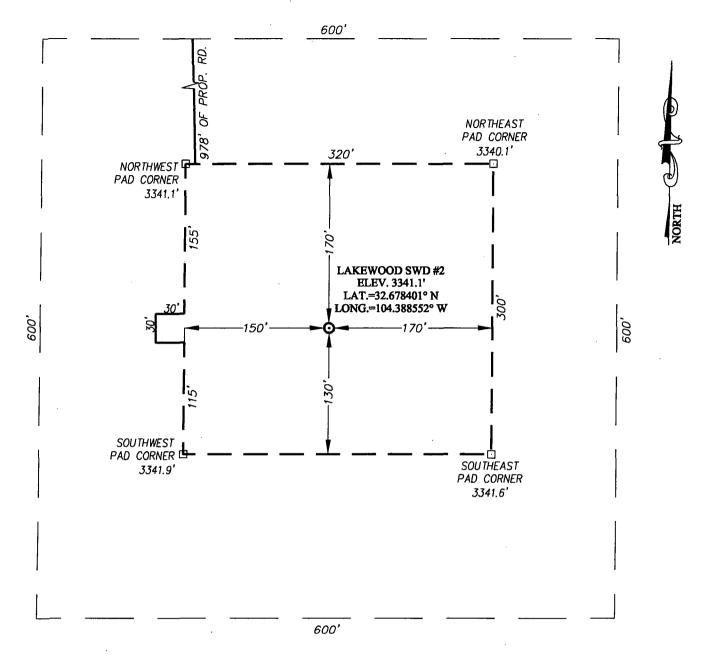
VICINITY MAP



SEC. <u>9</u> TWP. <u>19-S</u> RGE	. <u>26-E</u>
SURVEYN.M.P.M.	
COUNTY EDDY STATE N	EW MEXICO
DESCRIPTION 1470' FNL &	1980' FWL
ELEVATION 3341	
OPERATORCOG OPERATII	NG, LLC
LEASE LAKEWOOD SI	ND

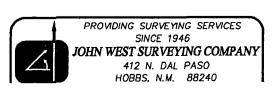


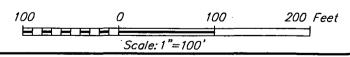
SECTION 9, TOWNSHIP 19 SOUTH, KANGE 26 EAST, N.M.P.M. EDDY COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #285 (SEVEN RIVERS)
AND CO. RD. #140 (HAVEN HILL), GO SOUTH ON U.S. HWY.
#285 APPROX. 0.4 MILES TO STAKED RD. TURN LEFT AND GO
EAST APPROX. 0.3 MILES. TURN RIGHT AND GO SOUTH APPROX.
419 FEET TO THE NORTHWEST CORNER PAD OF STONEWALL 9
FEE #2H. FROM THE SOUTHEAST CORNER OF PAD FOLLOW ROAD
SURVEY SOUTH APPROX. 978 FEET TO THIS LOCATION.





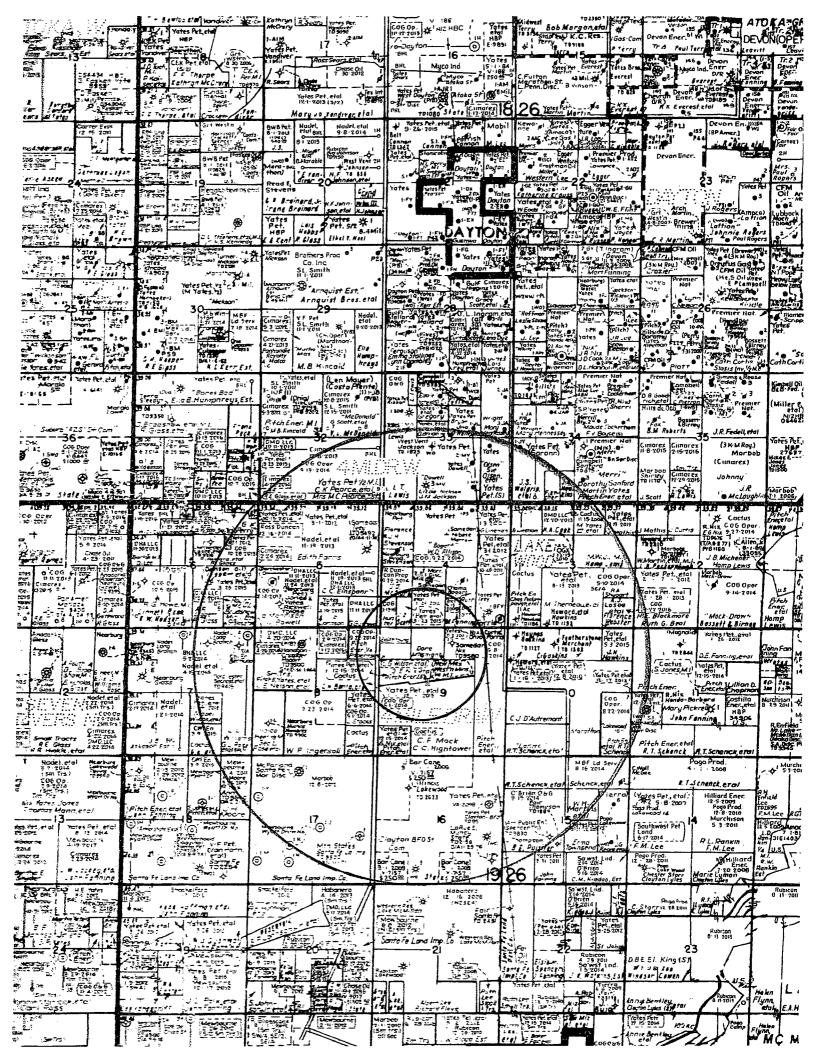
COG OPERATING, LLC

LAKEWOOD SWD #2 WELL LOCATED 1470 FEET FROM THE NORTH LINE AND 1980 FEET FROM THE WEST LINE OF SECTION 9, TOWNSHIP 19 SOUTH, RANGE 26 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 3/01/12

CAD Date: 3/13/12

Drawn By: ACR



Lakewood SWD #2

Wells within area of review that penetrate proposed disposal interval:

None.

Plugged Wells within area of review:

API #: 3001521319 Well Name: NIX Property Number.: 001

Location: B-9-19.0S-26E, 660 FNL, 2310 FEL **Lat:**32.6807507822 **Long:**-104.385930072

Operator Name: SAMEDAN OIL CORP **County:** Eddy

Land Type: Unknown Well Type: Oil Spud Date: 1/1/1900 1 Plug

Date:1/1/1900 1

Elevation GL: 0 **Depth TVD:** 0

Plugging Diagram Not Available



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

POD Search:

POD Basin: Jal

Basin/County Search:

County: Eddy

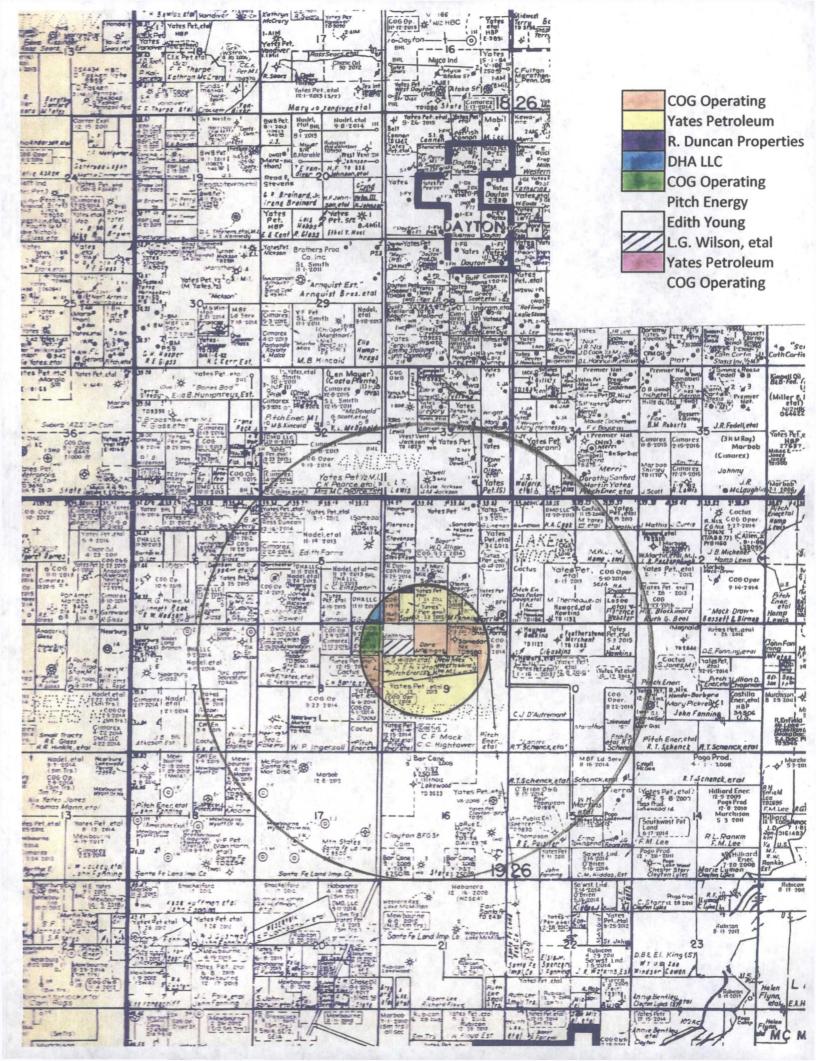
PLSS Search:

Section(s): 9

Township: 19S

Range: 26E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



June 4, 2012

R. Duncan Properties 17777 S. Harrison St. Denver, CO 80210

4029	(Domestic Mail C	Service _{∓n} D MAIL _™ RE(Only, No Insurance C ation visit our website	Coverage Provided)
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00	Return Receipt Fee (Endorsement Required)		Postfaeld 970
. 🗆	Restricted Delivery Fee (Endorsement Required)		
147	Total Postage & Fees	\$	VW USP3
	Sent To	,	-
בבם,	Street, Apt. No.; R.	Duncan Pro	operties
7	or PO Box No. City, State, ZIP+4 17	777 S. Harr	rison St
	PS Form 3800 Aug	Denver, CO	80210
lic	ation) to drill f	ne Lakewoon	

COG Operating LLC is applying (see attached application) to drill the Lakewood SWI #2 well as a salt water disposal well described below. As required by New Mexico Oil Conservation Division Rules, I am notifying you of the following proposed water disposal well. This letter is a notice only. No action is needed unless you have questions or objections.

Well: Lakewood SWD #2

Proposed Disposal Zone: Canyon (from 7,720' to 8,000') Location: 1470' FNL & 1980' FWL Sec 9, T19S, R26E

Eddy County, NM

<u>Approximate Location</u>: 3 miles North of Lakewood, NM <u>Applicant Name</u>: COG Operating LLC (432) 685-4340

Applicant's Address: 550 West Texas, Suite 1300, Midland, TX 79701

Submittal Information: Application for a water disposal well will be filed with the NM Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. Their phone number is (505) 476-3440.

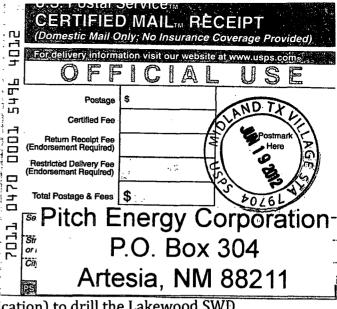
Please call me if you have any questions.

Sincerely,

Mark Fairchild (432) 686-3021

June 4, 2012

Pitch Energy Corporation P.O. Box 304 Artesia, NM 88211



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Please call me if you have any questions.

Sincerely,

Mars Farchild

Mark Fairchild (432) 686-3021

June 4, 2012

DHA LLC 1220 South St. Francis Santa Fe, NM 87504



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Please call me if you have any questions.

Sincerely,

Mark Fairchild (432) 686-3021

June 4, 2012

DHA LLC 12204 Towner Ne Albuquerque, NM 87100 U.S. Postal Services

CERTIFIED MAIL RECEIPT

(Conserved May Only To be a service of the service

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Please call me if you have any questions.

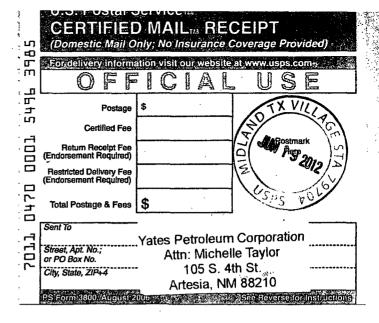
Sincerely,

Mark Fairchild (432) 686-3021

Mark Friedlit

June 4, 2012

Yates Petroleum Corporation Attn: Michelle Taylor 105 S. 4th St. Artesia, NM 88210



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Please call me if you have any questions.

Sincerely,

Mark Fairchild (432) 686-3021

Affidavit of Publication

State of New Mexico, County of Eddy, ss.

Kathy McCarroll, being first duly sworn, on oath says:

That she is the Classified Supervisor of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

June 6

2012

That the cost of publication is \$44.75 and that payment thereof has been made and will be assessed as court costs.

Subscribed and sworn to before me this

18th day of June

2012

Shirly majurell

My commission Expires on May 18, 2015

Notary Public



June 6; 2012

Legal Notice June 4, 2012

COG Operating LLC is applying to drill the Lake wood SWD, #2 as a water wood SWD, #2 as a water disposal well. The well is located at 1470°, FML \$1980°, FWL, Sec. 9, 7. 15, 87, 26 E., Eddy County NM, The well will dispose of water produced from oil aind gas wells into the Canyon. Reef zone at each of 7720° to 8000° as a maximum rate of 20,000° barries of water per day and at a maximum pressure of 1,572; psi, Interested partie must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Sain Francis Dr., Santa Fe, NM 87505, within 15 days Additional informatior can be obtained by contacting Mark, Fairchild COG. Operating, LLC phone of the product of the sain formation of the phone of the phone of the sain formation of the phone of

From: Jones, William V., EMNRD

Sent: Thursday, August 02, 2012 5:00 PM
To: 'Mark Fairchild': 'Mark Fairchild'

Cc: Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD; Brooks, David K., EMNRD

Subject: Disposal application from COG Operating, LLC: proposed Lakewood SWD #2 30-015-NA 1470fnl 1980fwl F/9/19S/26E Eddy Canyon

formation perforated from 7720 to 8000 feet

Hello Mark,

Would you let me know:

- 1. Who owns the surface at this proposed well site and were they noticed (the application does not say)
- 2. Please send the proof of notice to Edith Young and L.G. Wilson I did not find those certifications in the application.
- 3. Would you send me the depth you will use for DV tool in this proposed well and the cementing volumes above and below that stage tool.
- 4. Send a wellbore diagram of the plugged well in the Area of Review there is data on the OCD web site about this well see below.
- 5. Are there any fresh water sources (windmills located by your field people) within 1 mile of this location?

The biggest issue:

The application showed one P&Aed AOR well without any wellbore diagram. From the Division's web site it appears this was a dry hole drilled to 9580 feet and plugged without running casing. The plugs were set 8745 feet which seems to be at the top of the Strawn and at 6500 feet which may be somewhere in the Wolfcamp formation.

I can either write the permit requiring COG to re-enter this old well and attempt to put plugs over the top and bottom of your intended disposal interval OR COG could in effect widen its proposed disposal interval. COG could send a certified letter to all the affected parties explaining this disposal well is actually unbounded in the Area of Review between 6500 feet and 8745 feet over the Wolfcamp, Cisco, and Canyon formations. We could then wait 15 days for objections. I would write the permit for the depths 7720 to 8000 feet, but it would have been clear to all parties that the disposed fluid was only bounded between 6500 to 8745 feet.

Thank You,

William V Jones, P.E.
Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462



From:

Mark Fairchild <MFairchild@concho.com>

Sent:

Monday, August 13, 2012 9:19 AM

To:

Jones, William V., EMNRD

Subject:

RE: Disposal application from COG Operating, LLC: proposed Lakewood SWD #2 30-015-NA 1470fnl 1980fwl F/9/19S/26E Eddy Canyon formation perforated from

7720 to 8000 feet

Will, more answers to the #2 Questions:

1. Surface: Owner Concho

2. Please send the proof of notice to Edith Young and L.G. Wilson – I did not find those certifications in the application.

Mark,

Sorry for the delayed response but I have looked back through my files and according to my research it wasn't necessary to notify Edith Young or L.G. Wilson. I am thinking Will thinks these are surface owners that needed to be notified but both sites are on surface owned by Pitch Energy who was notified. If Will thinks I am wrong or that I am missing something please let me know. Thanks.

туе Orr Consulting Landman

- 3. Please see the cementing data submitted for the SWD #1
- 4. P&A'd well. Will, here is what Concho would propose. We drill the SWD #1 with SWD permit stipulation. If it makes a well, the stipulation would be that we re enter and plug to NMOCD specs the P&A well in the Area of Review.
- 5. Windmill: N 32' 41.360. W 104' 25.784

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

ℬCONCHO

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

Sent: Thursday, August 02, 2012 6:00 PM

To: Mark Fairchild; Mark Fairchild

Cc: Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD; Brooks, David K., EMNRD

Subject: Disposal application from COG Operating, LLC: proposed Lakewood SWD #2 30-015-NA 1470fnl 1980fwl F/9/19S/26E Eddy Canyon formation perforated from 7720 to 8000 feet

Hello Mark,

Would you let me know:

- 1. Who owns the surface at this proposed well site and were they noticed (the application does not say)
- 2. Please send the proof of notice to Edith Young and L.G. Wilson I did not find those certifications in the application.
- 3. Would you send me the depth you will use for DV tool in this proposed well and the cementing volumes above and below that stage tool.
- 4. Send a wellbore diagram of the plugged well in the Area of Review there is data on the OCD web site about this well see below.
- 5. Are there any fresh water sources (windmills located by your field people) within 1 mile of this location?

The biggest issue:

The application showed one P&Aed AOR well without any wellbore diagram. From the Division's web site it appears this was a dry hole drilled to 9580 feet and plugged without running casing. The plugs were set 8745 feet which seems to be at the top of the Strawn and at 6500 feet which may be somewhere in the Wolfcamp formation.

I can either write the permit requiring COG to re-enter this old well and attempt to put plugs over the top and bottom of your intended disposal interval OR

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Thank You,

<u>William V Jones, P.E.</u> Engineering, Oil Conservation Division 1220 South St. Francis Drive, Santa Fe, NM 87505 Tel 505.476.3448 ~ Fax 505.476.3462



From:

Mark Fairchild < MFairchild@concho.com >

Sent:

Friday, August 17, 2012 10:21 AM

To:

Jones, William V., EMNRD

Subject:

Lakewood SWD #2

Attachments:

COG SENM WBD Samedan PandA.xlsx

Will, trying to understand and get done your suggestion.

- 1. A wbd of the Samedan P&A is attached.
- 2. A map is shown below.
- 3. See if this is correct
 - a. We send cert'd ltr to all 'affected persons' the notice list
 - b. We include the P&A wbd
 - c. what does 'explain that the SWD well is unbounded' mean?
 - d. Dunno exactly what you want me to write?

	COG Lakewood	5WD #1	Sametan Flugg Lakswood SWD	ec We# #2
T19S-R26	E \$8	T185.R20	ŒŜĠ.	Tiles Azee S10

M.A. Fairchild COG OPERATING LLC

Office: 432-686-3021 Cell: 432-230-7170

ℬCONCHO

COG SENM SWD

Well: Samedan Oil Corp.

Location: B-9-19S, 26E, 660 FNL; 2310 FEL, Eddy Co. NM

API: 30-015-21319 10 sx Surface plug

45 sx plug @ 1200

8 5/8" @ 1153, cmt to surface

45 sx plug @ 1200

35 sx plug @ 2646

35 sx plug @ 4230

35 sx plug @ 6500

35 sx plug @ 8745

35 sx plug @ 9250

Open Hole TD @ 9,580'

From:

Mark Fairchild < MFairchild@concho.com>

Sent:

Monday, August 13, 2012 3:01 PM

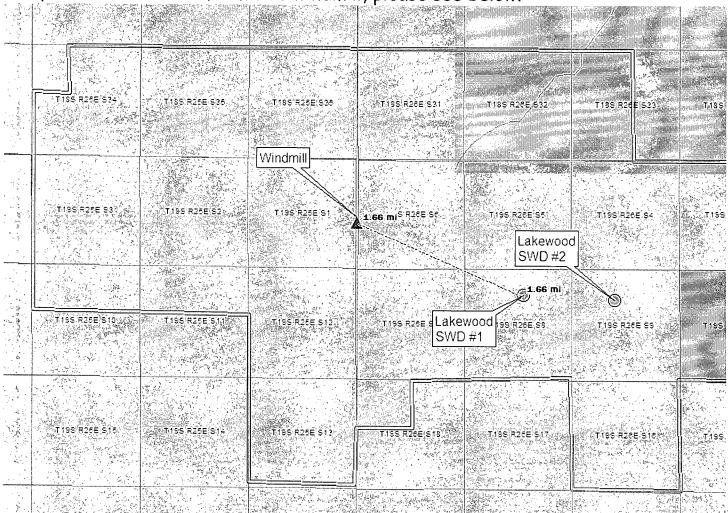
To:

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

≫CONCHO

From:

Jones, William V., EMNRD

Sent:

Wednesday, August 15, 2012 2:38 PM

To:

'Mark Fairchild'

Subject:

Disposal application from Concho: Lakewood SWD #2 issues

Here it is:

The biggest issue:

The application showed one P&Aed AOR well without any wellbore diagram. From the Division's web site it appears this was a dry hole drilled to 9580 feet and plugged without running casing. The plugs were set 8745 feet which seems to be at the top of the Strawn and at 6500 feet which may be somewhere in the Wolfcamp formation.

I can either write the permit requiring COG to re-enter this old well and attempt to put plugs over the top and bottom of your intended disposal interval OR

COG could in effect widen its proposed disposal interval. COG could send a certified letter to all the "affected persons" explaining this disposal well is actually unbounded in the Area of Review between 6500 feet and 8745 feet over the Wolfcamp, Cisco, and Canyon formations. We could then wait 15 days for objections. I would write the permit for the depths 7720 to 8000 feet, but it would have been clear to all parties that the disposed fluid was only bounded between 6500 to 8745 feet.

Mark – if you want to, you could run the letter by your legal people and myself before sending. If you attach to this letter a wellbore diagram with formation tops marked on it and also these two intervals marked on it, it may help explain it to the people being noticed – up to you.

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

Sent: Wednesday, August 15, 2012 12:46 PM

To: Jones, William V., EMNRD **Subject:** What you said

Will, I have somehow misplaced the instructions you gave me on what you want us to do on changing and re noticing the injection interval for one of the Lakewood's. Can you tell me again or just re send that email. I am sorry, Thanks!!!!

M.A. Fairchild

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

≫CONCHO

From: Mark Fairchild <MFairchild@concho.com>
Sent: Wednesday, August 22, 2012 9:09 AM

To: Jones, William V., EMNRD

Subject: COG SENM Lakewood SWD 2 Interval Expansion NMOCD ver.docx

Attachments: COG SENM Lakewood SWD 2 Interval Expansion NMOCD ver.docx

1. This letter will go out today, just a couple of minor tweaks, I really liked your letter best.

2. Working on a cross section for justification of expansion of the disposal but showing the boundaries that will prevent disposal migration to other zones.

Monday, August 20, 2012

Amendment to SWD Application:

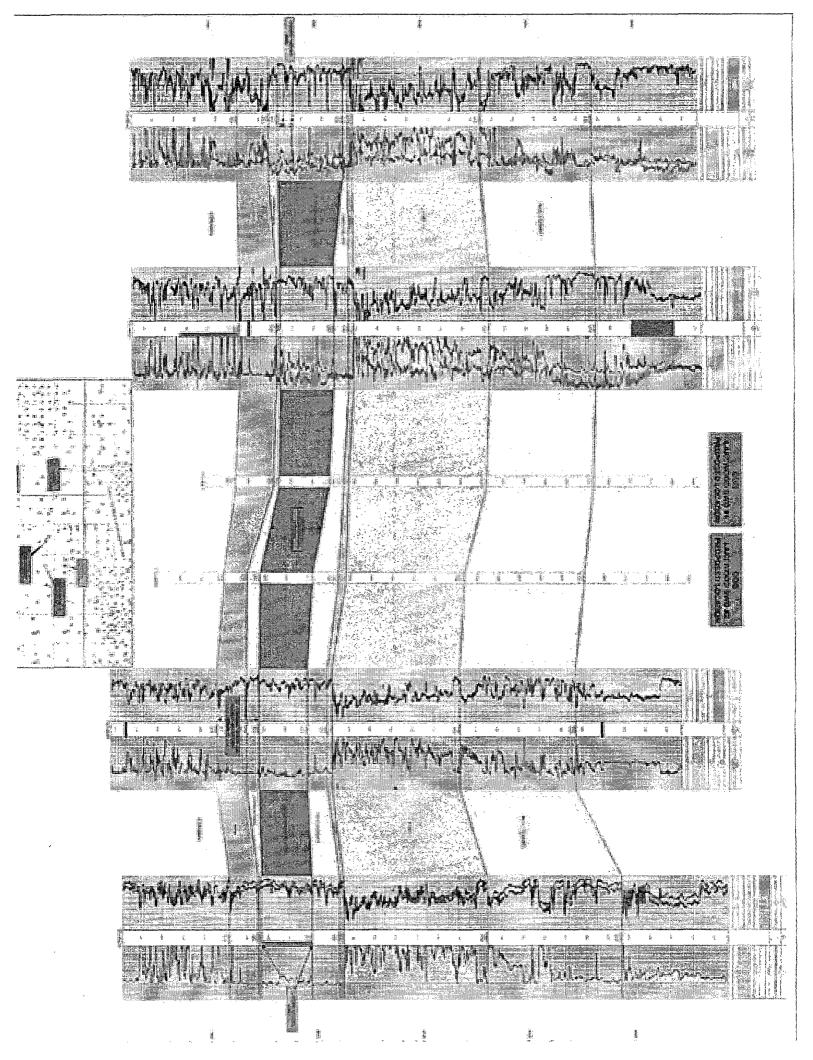
In June of this year, you were formally noticed that COG Operating LLC has applied for approval to drill a new disposal well to be located in Unit letter F of Section 9, Township 19 South, Range 26 East, NMPM, Eddy County, New Mexico. This new well would be used for water disposal into the Pennsylvanian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

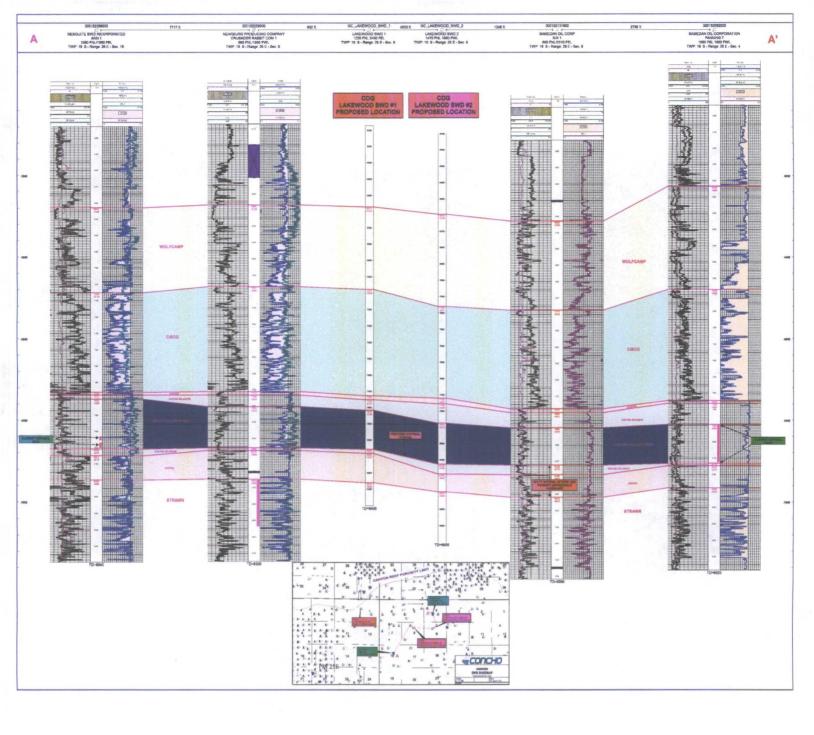
There is a Dry and Abandoned well (API No. 30-015-21319) located approximately ¼ mile away within the Area of Review. This well has a plug set in the open hole at 6500 feet and another plug at 8745 feet. Within this 6500 to 8745 feet depth range are the Wolfcamp formation and the Upper Pennsylvanian 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.

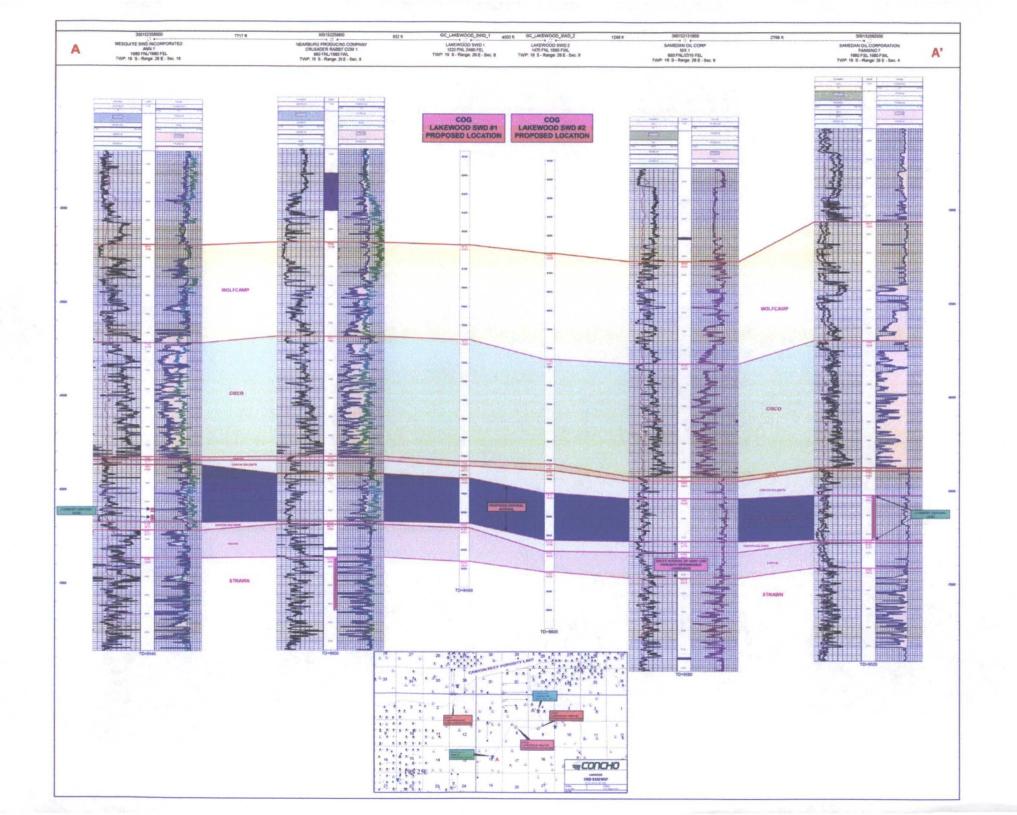
COG Operating LLC is hereby noticing you of the presence of this old wellbore and continues to solicit your approval of the proposed disposal into the Canyon formation from 7720 feet to 8000 feet.

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., Livilan	
From: Sent: To: Subject:	Mark Fairchild <mfairchild@concho.com> Thursday, August 30, 2012 3:01 PM Jones, William V., EMNRD RE: Can you open this?</mfairchild@concho.com>
You will NOT believe this, I was Man you must have ESP and I c	typing a question to you to see if you could open the cross section when yours arrived.
No productive formations with	in the expanded area!
M.A. Fairchild COG OPERATING LLC Office: 432-686-3021 Cell: 432-230-7170	
Original Message From: Jones, William V., EMNR Sent: Thursday, August 30, 201 To: Mark Fairchild Subject: RE: Can you open this?	
Mark, Yes - VERY NICE.	
This shows the correlation of th	ne hopefully highly permeable Canyon Reef.
Did your Geologist see any pos Area of Review well?	sible productive potential of the expanded depth interval between those two plugs in that $$
Thanks	
Will	
Original Message From: Mark Fairchild [mailto:N Sent: Thursday, August 30, 201 To: Jones, William V., EMNRD Subject: Can you open this?	
The message is ready to be sen	at with the following file or link attachments:
COG_LAKEWOOD_SWD2_XSEC	C_NMOCD.jpg







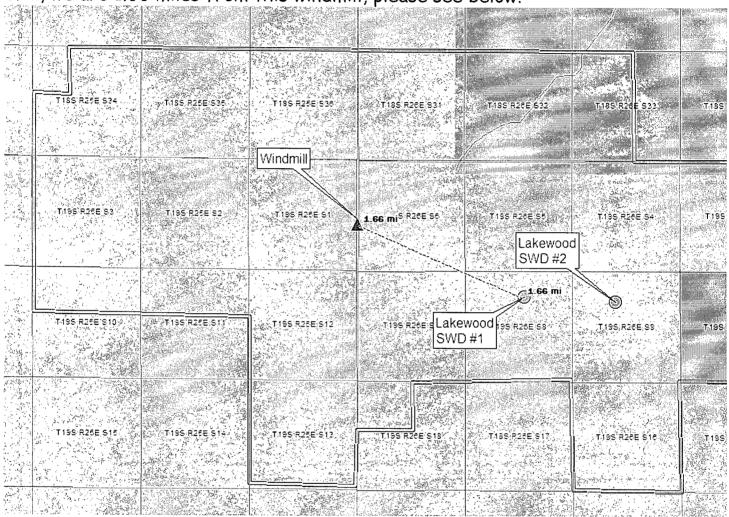
From: Mark Fairchild <MFairchild@concho.com>

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

₩CONCHO

Miss	Row	C-108	C-108 disposal application submittals CHECKLIST to ensure all items are supplied or considered.
	1		Operator, Well, and Contact info:
	2	Ш	Name of person submitting the application Mark A. Fairchild Other Contact?
	3	. 11	Did you Include a contact Email in the application? Yes and Mailing Address? Yes and Phone? Yes
	4	11_	Operator Name: COG Operating LLC. OGRID Num: 229137
	5		RULE 5.9 Compliance Number of Inactive Wellsvs Total Wells Operated Is financial assurance required on any well?
	6		Is there any hearing order finding this operator out of compliance with Division Rule 19.15.5.9 NMAC?
	7		Are all Rule 5.9 issues OK to allow the Division to issue Disposal Permits?
	8	111_	Well Name: Fill this in
	9	III	API Num: 30-0 Not yet issued Spud Date: After receipt of permit
	10		Have you included API numbers on all wellbore diagrams and well list(s) in this application? WBD, Yes: No API yet issued
	11	111	Proposed wellFootages 1,470 FNL; 1,980 FWL Unit F Sec 9 Tsp T19S Rge 26E County Eddy
	12		General Location (i.e. Y miles NW of Z): 15 miles North of Carlsbad, NM.
	13		Current Well Status: Awaiting State of New Mexico Drilling APD and SWD Permit
	14	1	General Summary of Planned Work to Well: Drill and complete as an SWD well.
	15		INTERVAL TOP and BOTTOM:
	16	IIIB.(2)	Proposed disposal Top Depth: 7,720 Formation Name: Canyon (include Member Names for Delaware or Mesaverde)
	17	IIIB.(2)	Proposed disposal Bottom Depth: 8,000 Formation Name: Canyon
	18	IIIB.(2)	Is the disposal interval OpenHole? N/A or Perfed? Yes or Both? No
	19	IIIB.(2)	What will be the disposal tubing size OD? 3 1/2" Packer Seat, Feet: within 100' of top perf.

Miss	Row	C-108	C-108 disposal application submittals CHECKLIST to ensure all items are supplied or considered.
	20	VII	What max surf inj. psi are you proposing? NMOCD Specified If differing from 0.2 psi/ft surf. Grad., is supporting data attached such as a Step Rate Test? N/A
	21		FRESH WATERS:
	22	VIII	Depth to bottom of Fresh Waters: None Present Formation Name(s)? Not Applicable
	23	XI_	Any Fresh Water Wells Within 1 Mile? No If so, did you attach an analysis from these Wells? Not Applicable
	24		Are all "Fresh" waters isolated with Casing and Cement? Yes ("Fresh" water is defined as less than 10,000 mg/l of TDS)
	25	XII	Included "Affirmative Statement" concerning any Connection from Disposal Depths to existing Fresh Waters? No
	26		WASTE WATERS:
	27	XIV	Will this be a Lease Only disposal well? No or only used for the Operator's own waste needs? Operator only or Commercial Disposal? Not Commercial
	28	VII	Which formations will supply the waste waters to be disposed into this well Yeso List most common?
	29	VII	Are Waste waters compatible with proposed disposal interval waters? Yes Did you include waste water analysis? No, surronding SWD's confirm compatibility
	30		AT PROPOSED WELLINSITU WATERS AND HYDROCARBON POTENTIAL:
	31		Is a discussion included of the potential for future OIL/GAS recovery from the proposed disposal interval? Interval not productive of hydrocarbons.
	32		If your proposed well for disposal is a depleted producer (within the proposed interval); do you know what was the cumulative oil/gas/water? New Drill no production and did you include a Rate-Time plot of this depleted interval? Not Applicable
	33	· VII	Insitu water analysis Included? NO Is the salinity within the disposal interval more than 10,000 mg/l of TDS? Yes or how will you determine this insitu water salinity?
	34	VIII	Does the application include a list of Formation tops down to and including the bottom of the target formation? Yes it does
	35		What is the top Salt not present and bottom Salt not present of the Salado Salt (If this well is in the Southeast and the Salt is present)
	36	X	Are all existing Logs (including any CBL over the disposal interval) are on the OCD Web Site? New drill, not logs If logs not there, please send Not Applicable
	37	IIIA.	Are the wellbore diagrams for this well included in the ApplicationBefore Conversion? Not Applicable and After Conversion? New Drill WBD in C108

Miss	Row	C-108	C-108 disposal application submittals CHECKLIST to ensure all items are supplied or considered
	38		Are the top and bottom footage of the proposed disposal interval marked on the "after" diagram? Not Applicable
	39		NOTICE:
	40	XIV	Date of the Newspaper Notice in the County: June 6, 2012.
	41	V	Within 1/2 mile, did you clearly identify (either on a map or by legal description) all separately owned tracts of lands within the disposal interval? Yes
	42	XIII	Did you identify the owner(s) of each of these separately owned tracts? Yes Were they all formally noticed? Yes
	43	XIII	If reentering a P&Aed well, are there depth divisions of ownership within that well? Not Applicable If so, have you also noticed all the shallower interests of the intent to use the well for disposal?
	44	XIII	Is the proposed well within the R-111-P defined Potash Area or the BLM Secretaries Potash Area? No If so, did you send notice to the nearest Potash lessee? N/A
	45	XIV	Who owns the surface lands at the disposal well site (BLM, SLO, or who)? Fee Was that party formally noticed? Yes
	46		Area of Review:
	47	٧	Did you include a map identifying all wells within 2 miles? Yes
	48	VI	Did you include a list of all AOR wells? Yes is the list available to be emailed (if requested) in spreadsheet format? Yes
	49	VI	Does this list identify all wells penetrating (at least the top of) the disposal interval within 1/2 mile of the proposed well? Yes
	50	VI	Did you include wellbore diagrams for all P&Aed wells that exist within the 1/2 mile AOR that penetrate the disposal interval? Yes
	51		How many wells exist within the 1/2 mile AOR that penetrate the disposal interval? None How many of these are Plugged/Dry and Abandoned? N/A
	52	VI	Did you include details on cement coverage of the proposed disposal interval for all wells penetrating the disposal interval within 1/2 mile of the proposed well? Not Applicable
	53	VI	Do all reported cement tops describe how that "top" was determined? N/A If you calced any tops, what fillup efficiency factor did you use? N/A
	54	VI	Did you identify the presence and depth of all Cement Stage Tools (DV) in the subject well and in the AOR wells? Yes
	55	VIII	For the target formation, is there significant formation structural depth changes within the 1/2 mile AOR? No

Miss	Row	C-108	C-108 disposal application submittals CHECKLIST to ensure all items are supplied or considered.
	56	VIII	Is there any Karst or Massive Limestone in this target formation? Noor in the formations directly above or below? No
	57		Administrative or Hearing:
ļ	58	VI	How many wells within the 1/2 mile AOR currently are producing (or still have open perforations) within the disposal interval? is it "gas" or "oil"?
	59		NOTE: If the proposed disposal interval is a "Gas" interval or if any AOR wells are producing or have open perforations within this interval then this application may not be properly classified as a "disposal". These types of applications must be processed at an examiner hearing.
	60		Any other Issues?

Wells Well Name(s): LA KEWAND SWD #R Wells Well Name(s): LA KEWAND SWD #R RPHAM 329 IS- NA Floring 329 IS- NA New Mell Plate 5.9 Compliance (Wells) Planned Work to Well: Dagrams Beleve Conversion After	Injection Permit Checklist (11/15/2010)				
API Num: 20:0 15— INA Spud Date: NewlOid: N. (UIC primacy March 7, 1982) Footages 1470 FNL 1970 FNL Lunit Esc 9 Top 198 Rge 26 E County E0 DY General Location: 4 Mi N W of Lake Man March A. FAIRCALD Operator: OGRID 72787 RULE 5.9 Compliance (Walls) Planned Work to Welt: Planned Work to Welt: Diagrams: Before Conversion Aller Conversion. Blogs in Imaging File: Well Datalis: Hole	WFX PMX SWD (39) Permit Date 9/7/12 UIC Qtr				
Footbages 470 FNL 190 FNL Linit Soc Tap 90 Bigs 26 E County ED DY General Location: 4 Min N w of Lunch Me MILLAN Operator: COG OFF STING Connect Manh A. FAIRCHLD Operator: COG OFF STING Connect Manh A. FAIRCHLD OGRID 22987 PILLE 5 9 Compliance (Wells) 269 4 (Finan Assun) D K 15 5.9 OK?	#Wells Well Name(s): LAKEWOOD SWD #2				
General Localion: The New of Local Mank A. Falenard Operator: Co OFROTUGE Contact Mank A. Falenard Operator: Co OFROTUGE Contact Mank A. Falenard Operator:	API Num: 30-0 15- IVA Spud Date: New/Old:				
Operator: Cos O PERATURE Contact Mank A. TAIRRULD OGRID 12987 RULE 59 Compliance (Wells). 369 4 (Finan Assur) D K-IS 5.9 OK? O K Well File Reviewed Current Status: NOT Yet Perutifod Planned Work to Welt: Diagrams: Before Conversion After Conversion Sizes Well Details: Hole	Footages 1470 FNL/1980 Ful Unit F Sec 9 TSp 195 Rge 26 E County EDDY				
GGRID 2987 FILLE 5.9 Compliance (Wells) Well File Reviewed Current Status: NOT State Peruntidal Planned Work to Well: Diagrams: Before Conversion After Convorsion Elogs in Imaging File: Well Details: Now Existing States Peruntidal New Existing Longst 83/4 7/1 8/400 8/67 10 75 X CIRC New Existing Longst 83/4 7/1 8/400 8/67 10 75 X CIRC New Existing Longst 83/4 7/1 8/400 8/67 10 75 X CIRC New Existing Longst 8/3/4 7/1 8/400 8/67 10 75 X CIRC New Existing Depths/Formations: Depths, Ft. Formation Tops? Formation(s) Above 7/1 8/40 CIRC Depths/Formations: Depths, Ft. Formation Tops? Formation(s) Above 7/1 8/40 CIRC Injection BOTTOM: So Depths 1/4 CIRC Septem Review Perunting State Per	General Location: 2 4 Mi NW of Lake McMILAN				
Well File Reviewed Current Status: NOT Yet Periodical Planned Work to Well: Diagrams: Before Conversion	Operator: COG OPERATING LLC Contact Mark A. FAIRCHLD				
Planed Work to Welt: Diagrams: Before Conversion After Conversion Bodgs in Imaging File: Well Details: New Existing Surface New Existing Liner New Existing Longst New Existing OpenHole Depths/Formations: Depths, Ft. Formation Tops? Formation(s) Above Injection TOP: Injection BOTTOM: Formation(s) Below Formation					
Diagrams: Before Conversion	Well File ReviewedCurrent Status: NOT Yet Perintled				
Well Details: Hole	Planned Work to Well:				
Well Details: Hole					
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New_Existing Longst 3/4 7 8 400 8 5 10 5 X CIRC New_Existing Liner New_Existing Liner New_Existing OpenHole Depths/Formations: Depths, Ft. Formation Tops? Formation(s) Above 77 96 CISco 11/8/85 80 23-5136 CISCO 11/8 80 23-5136 CISCO 1	New <u>Lexisting</u> Surface 12/4 95/8 1200 _ 400 SX CIRC				
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Depths/Formations: Depths, Ft. Formation Depths/Formations: Depths, Ft. Formation Tops? Formation(s) Above Tops? Injection TOP: Tops? Injection TOP: Tops? Formation(s) Below Formation(s) Below Formation(s) Below Formation(s) Below Formation Wells? Fresh Water Disposal Fluid Analysis? Disposal Fluid Analysis? Production Potential/Testing: Notice: Newspaper Date Notice: Newspaper Date Repairs? Well List? Producing in Interval? Wellbore Diagrams? Wellbore Diagrams? Which Wells? Repairs? Which Wells?	New_Existing LongSt 83/4 71 8,400 695 10755x CIRC				
Depths/Formations: Depths, Ft. Formation Tops? Formation(s) Above 7746 CISco Williams 8023-878 CISCO Williams 878 CISCO WILlia	New_Existing _ Liner				
Injection TOP: 772 D	New_Existing _ OpenHole				
Injection TOP: 7720 Injection BOTTOM: So So Tubing Size Packer Depth So Solve Tubing Size Packer Depth Solve Statement Statement Statement Supposed Fluid Analysis? Notice: Newspaper Date Solve Surface Owner Control Solve Statement Supposed Interval: Analysis? Production Potential/Testing: Notice: Newspaper Date Solve Surface Owner Control Solve Statement Supposed Interval: Analysis? Production Potential/Testing: Notice: Newspaper Date Solve Surface Owner Control Solve Supposed Interval: Analysis? Production Potential/Testing: Notice: Newspaper Date Solve Surface Owner Control Solve Supposed Interval: Analysis? Production Potential/Testing: Notice: Newspaper Date Solve Surface Owner Control Solve Solve Supposed Interval: Analysis? Production Potential/Testing: Notice: Newspaper Date Solve					
Injection BOTTOM: Social Tubing Size Transcription and Tubing Size	Formation(s) Above 77 96 — CISCO 11/18/85 80 23-8136 CISCO				
Injection BOTTOM: Social Tubing Size Transcription and Tubing Size	Injection TOP: 7720 Max. PSI /544 OpenHole Perfs				
Formation(s) Below 8708 + 5 Troun Sepitan Beef? (Potach? Moticed? [WIPP? Nation Satado Top/Bet Cliff House! Fresh Water: Depths: Formation Wells? Analysis? Affirmative Statement Disposal Fluid Analysis? Sources: 2636 Disposal Interval: Analysis? Production Potential/Testing: Notice: Newspaper Date 6/6/12 Surface Owner County Mineral Owner(s) RULE 26.7(A) Affected Persons: PHA Fourth Your Year A. Dune Producing in Interval? Wellbore Diagrams? Mineral Owner(s) AOR: Maps? Well List? Producing in Interval? Wellbore Diagrams? Which Wells?					
Production Potential/Testing: Notice: Newspaper Date 6/6 2 Surface Owner Production Potential/Testing:	0 0 - R 2132				
Disposal Fluid Analysis? Sources: Disposal Interval: Analysis? Production Potential/Testing: Notice: Newspaper Date 6/6/12 Surface Owner RULE 26.7(A) Affected Persons: PHA FORTH Town IPC R. Dunca Production Interval? No Wellbore Diagrams? AOR: Maps? Well List? Producing in Interval? No Wellbore Diagrams? Active Wells Repairs? Which Wells?	Sapitan Beef?(Potash?Noticed?) [WIPP?Noticed?] Salado Top/BetCliff House?				
Disposal Fluid Analysis? Sources: Disposal Interval: Analysis? Production Potential/Testing: Notice: Newspaper Date 6/6/2 Surface Owner Court Mineral Owner(s) RULE 26.7(A) Affected Persons: PHA Edit Hong YPC R. Duna Production Potential/Testing: AOR: Maps? Well List? Producing in Interval? Wellbore Diagrams? Active Wells Repairs? Which Wells?	Fresh Water: Depths:Formation Wells? Analysis? Affirmative Statement				
Notice: Newspaper Date 6/6 12 Surface Owner Court Mineral Owner(s) RULE 26.7(A) Affected Persons: PHA EXITY For R. DVNo. Procy (C. WILSON) AOR: Maps? Well List? Producing in Interval? Wellbore Diagrams? Active Wells Repairs? Which Wells?	1/2.5 @ 2/4				
AOR: Maps? Well List? Producing in Interval? Wellbore Diagrams? Active Wells Repairs? Which Wells? Which Wells?	Disposal Interval: Analysis? Production Potential/Testing:				
AOR: Maps? Well List? Producing in Interval? Wellbore Diagrams? Active Wells Repairs? WhichWells? Repairs? Which Wells?	Notice: Newspaper Date 6/6/12 Surface Owner Court Mineral Owner(s)				
AOR: Maps? Well List? Producing in Interval? Wellbore Diagrams? Active Wells Repairs? WhichWells? P&A Wells Repairs? Which Wells?	RULE 26.7(A) Affected Persons: DHA ENTH Fong YPC R. DUNGA PITCH LE. WILSON				
P&A Wells Repairs? Which Wells?	AOR: Maps? Well List? Producing in Interval? Producing in Interval?				
	Active Wells Repairs? WhichWells?				
Issues: Reply:	P&A Wells Repairs? Which Wells?				
	Issues: Request SentReply:				