ENGINEER ())

LOGGED IN

e-mail Address

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE	APPLICATION CHECKLIST
	VE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS SSING AT THE DIVISION LEVEL IN SANTA FE
[DHC-Downhole Commingling] [CTB- [PC-Pool Commingling] [OLS - Of [WFX-Waterflood Expansion [SWD-Salt Water Dispo	tandard Proration Unit] [SD-Simultaneous Dedication] Lease Commingling] [PLC-Pool/Lease Commingling] f-Lease Storage] [OLM-Off-Lease Measurement] [PMX-Pressure Maintenance Expansion] sal] [IPI-Injection Pressure Increase] Certification] [PPR-Positive Production Response]
[1] TYPE OF APPLICATION - Check Those [A] Location - Spacing Unit - S S NSL NSP	imultaneous Dedication
Check One Only for [B] or [C] [B] Commingling - Storage - M DHC CTB	
	re Increase - Enhanced Oil Recovery SWD IPI EOR PPR
[D] Other: Specify	·
	ck Those Which Apply, or Does Not Apply everriding Royalty Interest Owners
[B] Offset Operators, Leas	eholders or Surface Owner
[C] Application is One Wh	nich Requires Published Legal Notice
	ncurrent Approval by BLM or SLO - Commissioner of Public Lands, State Land Office
[E] X For all of the above, Programme [E]	oof of Notification or Publication is Attached, and/or,
[F] Waivers are Attached	
[3] SUBMIT ACCURATE AND COMPLET OF APPLICATION INDICATED ABOV	E INFORMATION REQUIRED TO PROCESS THE TYPE 'E.
	ne information submitted with this application for administrative knowledge. I also understand that no action will be taken on this cations are submitted to the Division.
	an individual with managerial and/or supervisory capacity.
Mark A. Fairchild Print or Type Name Mark A. Signature	<u>Fairchild</u> Senior Operations Engineer Date 01/22/2013
The family Digitation	MFairchild@Conchoresources com

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 qualifie	Secondary Recovery es for administrative approval?	Pressur Yes	re Maintenance	X No	Disposal	Storage
II.	OPERATOR: CC	OG Operating, LLC.				·	
,	ADDRESS: 550	West Texas, Ste 100,	Midland T	ГХ 79701- <i>4</i>	4287		
	CONTACT PART	Y: Mark A. Fairchild	····			PHONE: 43 2	2-686-302 ⁻
III.		mplete the data required on the revers ditional sheets may be attached if nec		orm for each wel	l proposed	for injection.	
IV.		of an existing project?		XNo			
V.		dentifies all wells and leases within to proposed injection well. This circle				th a one-half mil	e radius circle
VI.	Such data shall incl	of data on all wells of public record of ude a description of each well's type, ugged well illustrating all plugging d	construction,				
VII.	Attach data on the	proposed operation, including:					
	 Whether the sys Proposed avera Sources and an produced water If injection is for 	ge and maximum daily rate and volunt stem is open or closed; ge and maximum injection pressure; appropriate analysis of injection fluid r; and, or disposal purposes into a zone not p sis of the disposal zone formation wa	d and compatib	bility with the rec	hin one mil	e of the proposed	d well, attach a
*VIII.	depth. Give the ge- total dissolved soli	geologic data on the injection zone is ologic name, and depth to bottom of ds concentrations of 10,000 mg/l or librately underlying the injection inter-	all undergroun less) overlying	d sources of drini	king water	(aquifers contain	ing waters with
IX.	Describe the propos	sed stimulation program, if any.					
*X.	Attach appropriate	logging and test data on the well. (If	well logs have	e been filed with	the Division	n, they need not	be resubmitted)
*XI.		nalysis of fresh water from two or me I well showing location of wells and			le and prod	ucing) within on	e mile of any
XII.		posal wells must make an affirmative vidence of open faults or any other hy g water.					
XIII.	Applicants must co	mplete the "Proof of Notice" section	on the reverse	side of this form			
XIV.	Certification: I here and belief.	eby certify that the information subm	itted with this	application is true	e and correc	et to the best of n	ny knowledge
	NAME: Mark	A. Fairchild		TITLE	: <u>Sr. O</u> p	erations E	ingr.
	SIGNATURE: <u>M</u>	Iark A. Fairchild			DATE: _	1/22/2013	
*	If the information re	S: MFairchild@Concho. equired under Sections VI, VIII, X, a e and circumstances of the earlier sub	nd XI above ha				

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.

LOCATION:	1980 FSL; 660 FW	L L	6	T19S	R26E
	FOOTAGE LOCATION		SECTION	TOWNSHIP	RANGE
	DRE SCHEMATIC (former Howe 6L #1)	*Cement volumes will increase of those shown on this application to account for hole conditions unknown at this time.	Surface		_
		Hole Size: 17 1/2"	This cas	sing string exis Casing Size: 13 3	
133	t/8's @ 350', cmt to surface	Cemented with: 520	sx.	or	
		Top of Cement: Surfac	:e	Method Determine	d: <u>Circulat</u>
8 5/8's c	© 1350', cmt to surface		Intermedia This casir	te Casing ng string exists	
		Hole Size: 12 1/4"		Casing Size: 8 5/	B" @ 1,350
		Cemented with: 865 +	1" sx.	or	
		Top of Cement: Surface	ce	Method Determine	d: <u>Circulat</u>
- Shangin		-	<u>Production</u> This string 1		
Canyon Disposal Zone	08.7 00.000	Hole Size: 7 7/8"	. —	Casing Size: 5 1	/ 2"
yon Dispo	Scroons	Cemented with: 1,375	sx.	or	
	, central control cont	Top of Cement: Surface	:	Method Determine	d: Circulat
1		Total Depth: 8,200'			
	ting 7 7/8" hole		Injection	<u>Interval</u>	
run	5 1/2" casing to 8,200' to surface, DV tool at 7,000'	7,860	fee	t to 7967	

INJECTION WELL DATA SHEET

Tul	Tubing Size: 2 7/8" EUE Lining 1	Material: Internally plastic coated
Ty_1	Type of Packer: Double grip type, set in neutra	<u> </u>
Pac	Packer Setting Depth: no more than 100' above	top perf
Otl	Other Type of Tubing/Casing Seal (if applicable): N/A	
	Additional Da	<u>.</u> t <u>a</u>
1.	Is this a new well drilled for injection?	Yes X No
	If no, for what purpose was the well originally drilled	1? This well was drilled
	as a potential Morrow Gas producer.	
2.	2. Name of the Injection Formation: Canyon	
3.	3. Name of Field or Pool (if applicable): None	
4.	4. Has the well ever been perforated in any other zone intervals and give plugging detail, i.e. sacks of cement	, <u>.</u>
	No, none, plugged upon drilling, plugg	ed per NMOCD upon TD of well.
5.	5. Give the name and depths of any oil or gas zones und injection zone in this area:	lerlying or overlying the proposed
	Yeso formation at approx. 2,630'	

Well: Lakewood SWD #4 (formerly Howe 6L)

API: 30-015-26270

Elev: 3393' GL

Intermediate

Location: 1980' FSL; 660' FWL, Sec 6, T19S, R26E, Eddy Co. NM

Plugs are indicated by crosshatched fill

Surface Plug, 10 sx

13 3/8" @ 350', Cmt to surface

Surface Shoe Plug

San Andres: 929' md

an Anules. 32

8 5/5" @ 1,350', cmt to surface

Intermediate Shoe Plug

Glorieta Plug: 2,350 to 2450

Glorieta:

2452' md

Yeso:

2579' md

OH Plug: 3,100-3,200

OH Plug: 3,765-3,865

Wolfcamp: 6179' md

OH Plug: 6,270-6,370

Cisco:

6879' md

OH Plug: 7,560-7,660

Canyon:

7641' md

Strawn:

8260' md

Atoka:

8672' md

OH Plug: 8,770-8,870

Morrow:

8920' md

TD @ 9,335', 7 7/8" OH below Intermediate

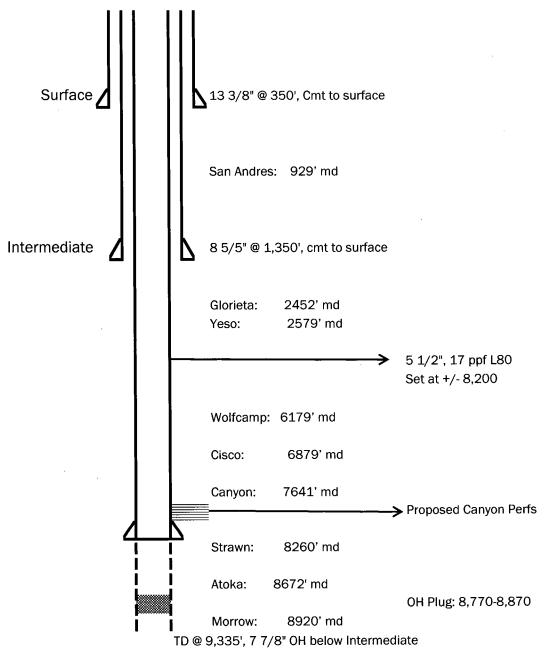
BEFORE

Well: Lakewood SWD #4 (formerly Howe 6L)

API: 30-015-26270

Elev: 3393' GL

Location: 1980' FSL; 660' FWL, Sec 6, T19S, R26E, Eddy Co. NM



AT THE

Submit 3 Copies	_		New Mex			Form C-103
Appropriate istrict Office	Env	Minerals and N	atural Res	sources Department		Revised 1-1-89 Cl
ISTRICT I O. Box 1980, Hobb	L NM 88240	L CONSERV P.O.	ATIO	N DIVISION RECEIVED	WELL API NO. 30-015-262	70
ISTRICT II O. Drawer DD, Art	esia, NM 88210	Santa Fe, New I	Mexico 8	37504-2088	5. Indicate Type of Lea	** \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
ISTRICT III 000 Rio Brazos Rd.,	Aziec, NM 87410			FEB 26 '90	6. State Oil & Gas Lea	
	SUNDRY NOTICES	AND DEDOUTE	TAL MICH	CO. E. (i)		
	(IS FORM FOR PROPOS DIFFERENT RESERVOIF	ALS TO DRILL OR TO	DEEPEN (FOR PER	A CESTATE AND PROPERTY.	7. Lease Name or Unit	Agreement Name
Type of Well: Oil. WELL	WELL []	. OTHER	Р&	A	Howe 6L	
Name of Operato	•				8. Well No.	
	Producing Comp	any 🗸			1	
Address of Opera		Tovas 75991	-040E		9. Pool name or Wildo	
Well Location	x 31405, Dallas	, lexas /5231	-0405		juna. West Four I	file Draw-Morrow
Unit Letter	c	Feet From The SOUT			50 Feet From The	
Section ////////////////////////////////////			Ras w whether l	nge 26E DF, RKB, RT, GR, etc.)	NMPM Eddy	County
			339	3.2' GR		
	Check App	ropriate Box to Ir	idicate N	Nature of Notice, I	Report, or Other Da	nta.
N	OTICE OF INTEN	TION TO:		SUI	BSEQUENT REP	PORT OF:
RFORM REMED	IAL WORK	PLUG AND ABANDO	N 🔲	REMEDIAL WORK	_ ALT	TERING CASING
MPORARILY AB	ANDON	CHANGE PLANS	П	COMMENCE DRILLIN	G OPNS. PL	JG AND ABANDONMENT
ILL OR ALTER C	ASING			CASING TEST AND O	BOUT JOB	
HER:				OTHER:		[
2. Describe Proposition of SEE RUI	ed or Completed Operations E 1103.	(Clearly state all pertinen	s desails, an	d give perinent dates, inc	uding estimated date of sta	rting any proposed
	n electric logs		ated M	orrow to be n	on-productive.	
	ugged well as f ug #1 - 25 sx 8		רם	ug #6 - 2F o	v 2450-2250	
	ug #1 - 25 sx 8 ug #2 - 25 sx 7			ug #6 - 25 s lug #7 - 25 s		
	ug #3 - 25 sx 6			agged @ 1340	X 1400 1000	
P1	ug #4 - 25 sx 3	3865-3765		lug #8 - 25 s	x 1340-1240	
Pl	ug #5 - 25 sx 3		Ρ.	lug #9 - 25 s	x 400-300	•
Ta	gged @ 3070'		P.	lug #10 - 10 s	x Surface	Post ID-2 3-9-40
						PXA
			•			
	na information above is true and	_	nowindge and	balia. Production S	_	DATE 2/12/90

Machelle Byrum

CONDITIONS OF ATTROVAL, IF ANY OK

Scienti to Appropriate District Officer State Lease - 4 copies Foo Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89 T

OIL CONSERVATION DIVISION

P.O. Box 2088

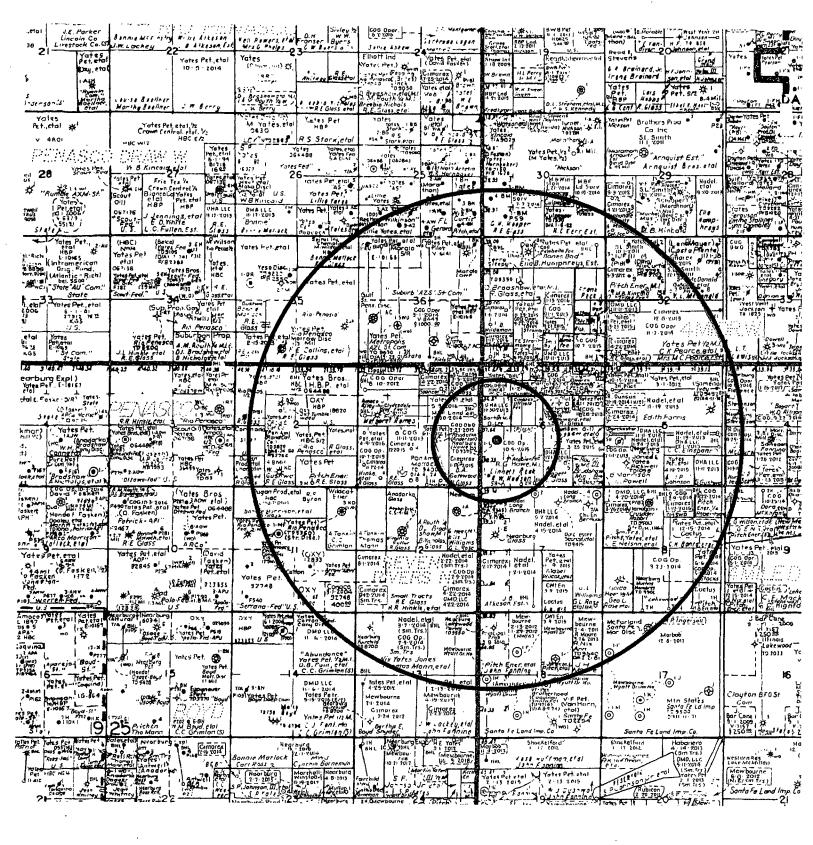
Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. DISTRICT III
DISTRICT III
1000 Rio Berror Rd., Arror, NM 87410

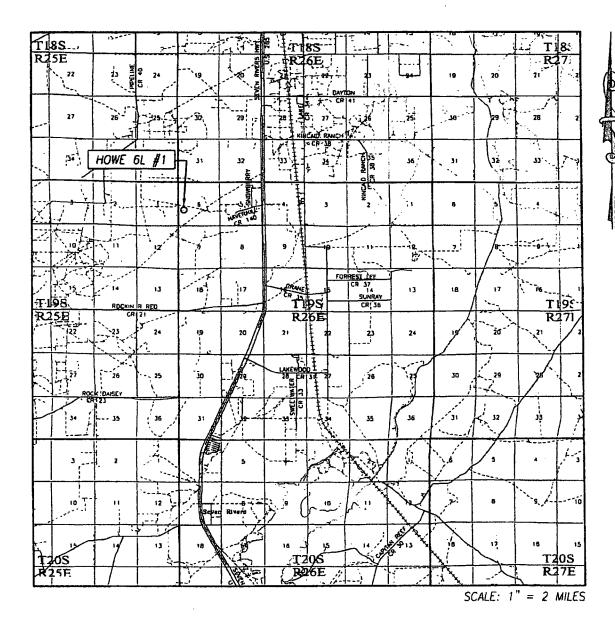
DISTRICT? P.O. Box 1980, Hobbs, NM 88240

WELL LOCATION AND ACREAGE DEDICATION PLAT
At Distances must be from the outer boundaries of the section

Operator				Lease				Well No.
l '	ire Pro	ducing Company	٧	How	e 6L			1
Usis Lotter	Section	Township		Range			County	
L	6	19	South	26 E	ast	NMPM	Edd	v
Actual Footage Loc	stom of We	D:					 	
1980	foct from	the South	line and	660		feet from	the West	line
Ground level Elev.		Producing Formation		Pool				Dedicated Acresge:
3393.2		Morrow			Four Mile		KKOM	320.00 Acres
1. Outlin	 Custime the excused to the subject well by colored proof or because matter on the plat below. 							
2. If more	1 000 EED 0	oue is dedicated to the w	ell, outlins onch an	l ideatify the own	erebip thereof (bot	h es to worki s	ng interest and	royalty).
3. If mor	e than one l	cuse of different ownershi	ip is dedicated to th	s well, have the is	terat of all owner	n been consol	idated by come	nunitization,
		pooling_dc.?			Pool:	ina		
X X	Yes ris "no" list	No [] The Owners and tract does	factiver is "yes" ty	pe of consolidatio				······································
this form	if meconin	TY	. <u>.</u>	. .				
No allow	able will be	assigned to the well test	all interests have t	ecs consolidated	by communities	on, writization	forced poolin	g, or otherwise)
OL COURT S	202-4E34	ed unit, climinating such i	meres, bus been e	proved by the Div	ision.			
Kerrer	1111		1	-		 1	OPERAT	OR CERTIFICATION
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R	ł		4	•			Land A	dministrator
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	ı		1	1			Nearbu	rg Producing Co.
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K	I		1	1		I L	Januar	y 3, 1990
al.	1		J			- 11	SURVE	YOR CERTIFICATION
			-1				55.0 - 5	
			1			- 11	I hereby cort	ify that the well location shown
\	1		4	{				was placed from field notes of
₹660'0	1		3	į				s made by me or under my and that the same is true and
1000	1		1	1		11		he best of my brandedge and
	. [1			11	belief.	
18	j		1			11	Date Surveyo	<u></u>
<u> </u>					 _		Nove	mber 10, 1989
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0 339 660	990 13	20 1650 1980 2310	2640	1500	1000 50	0 0		MEX



VICINITY MAP



SEC. 6 TWP. 19-S RGE. 26-E

SURVEY N.M.P.M.

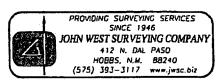
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1980' FSL & 660' FWL

ELEVATION 3393.2'

OPERATOR NEARBURG PRODUCING CO.

LEASE HOWE 6L



Lakewood SWD #4

Wells within area of review that penetrate proposed disposal interval:

Plugged Wells within area of review:

API #: 3001522420 **Well_Name:** LIGGETT COM # 001

Location: J-6-19.0S-26E, 1980 FSL, 1980 FEL Lat:32.6880930252 Long:-104.419370519

Operator Name: NEARBURG PRODUCING CO County: Eddy

Land Type: Private Well Type: Gas Spud Date: N/A Plug Date:1/31/2001

Elevation GL: 3376 **Depth TVD:** 9318

API #: 3001524163 **Well_Name:** ANDERSON # 001

Location: J-1-19.0S-25E, 1980 FSL, 1980 FEL Lat:32.6881234056 Long:-104.436307982

Operator Name: ANADARKO PETROLEUM CORP County: Eddy

Land Type: Private Well Type: Gas Spud Date: N/A Plug Date: 2/8/1994 1

Elevation GL: Depth TVD:

Submit 3 Copies to Appropriate **District Office**

State of New Mexico Enersy, Minerals and Natural Resources Department Form C-103 Revised 1-1-89

DISTRICT I PO Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION

2040 Pacheco St. Santa Fe, NM 87505 DISTRICT II

VELL API NO.	
30-015-22420	
Indicate Type of Lease	

P.O. Drawer DD, Artesia, NM 88210					sIndicate Type of Lease	e	
						STATE	FEEX
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410)				₅State Oil & Gas Lease	No.	
					Approximation of the second	e Ta tule populare taka na huli padalili	
	NOTICES AND REPO						
(DO NOT USE THIS FORM FOI DIFFERENT R	R PROPOSALS TO DRILL ESERVOIR. USE "APPLIC			CK TO A		Agreement Name	
	RM C-101) FOR SUCH PR				Ligett, et al Com		
Type of Well:					Ligett, et al Com		
OIL GAS WELL		THER					
₂Name of Operator					₅Well No.		
Nearburg Producing Compar	ıy				1		
Address of Operator					∘Pool name or Wildcat		
3300 N A St., Bldg 2, Suite 1	20, Midland, TX 79705				W. Four Mile Dra	w Morrow	
₄Well Location			-				
Unit Letter J : 19	980 Feet From The	East	Line and	1980	Feet From The	South	Line
Section	6 Township	198	Range	26E	NMPM	Eddy	County
	GElevation	-	DF, RKB, RT, GR, e	tc.)	3		

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
ERFORM REMEDIAL WORK PLUG AND ABANDON			REMEDIAL WORK	ALTERING CASING			
TEMPORARILY ABANDON		CHANGE PLANS		COMMENCE DRILLING OPNS.	PLUG AND ANBANDONMENT	×	
PULL OR ALTER CASING				CASING TEST AND CEMENT JOB			
OTHER: ·			_ =	OTHER:			
12Describe Proposed or Complete	d Operations (Clearly state all pertinent details	, and give	pertinent dates, including estimated date o	f starting any proposed		

work) SEE RULE 1103.

- 1.) MIRU P&A rig on 01/22/01.
- 2.) Set CIBP @ 9110'. Spot 25 sx plug on top. Tagged plug. 01/23/01.
- 3.) Spot 25 sx cement plug @ 8142'.

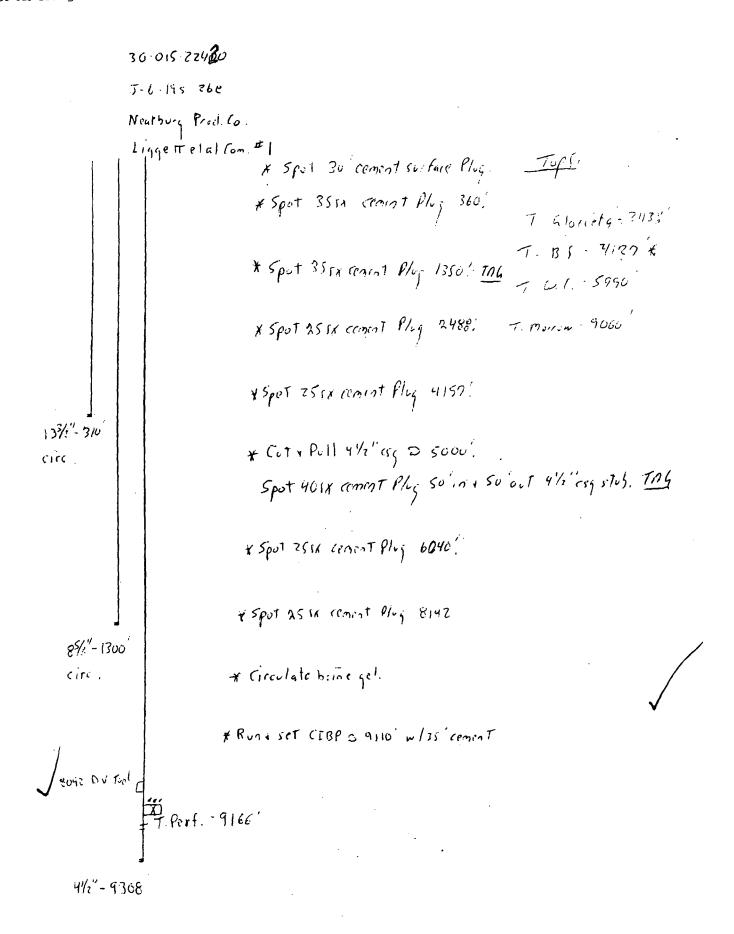
- 3.) Spot 25 sx cement plug @ 6142.
 4.) Spot 25 sx cement plug @ 6270' to 5940'. 01/25/01.
 5.) Cut csg @ 4,000' & pull 4-1/2" csg. 01/27/01.
 6.) TIH to 4157', spot 50 sx cmt plug. WOC. 01/29/01.
 7.) Tagged top of plug @ 3844'. Spot 30 sx cmt @ 2371' to 2488'.
 8.) Spot 35 sx cmt plug @ 1350. WOC. WOC. Tagged @ 1240'.
 9.) Spot 35 sx cmt plug @ 360'. WOC. Tagged @ 255'. 01/30/01.
 10) Set 30' surface plug

- 10). Set 30' surface plug.
- 11.) Set dry hole marker.
 12.) Well P&A'd. RDMO on 01/31/01. FINAL REPORT.



I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
SIGNATURE Kin Stewart TITLE Regulatory Analyst	DATE 02-07-01
TYPE OR PRINT NAME Kim Stewart	TELEPHONE NO. 915/686-8235

					·- ,	_	
Submit 3 Copies to Appropriate District Office	priate Eng. Minerals and Natural Resources Department						C-103 sed 1-1-89
DISTRICT ! P.O. Box 1980, Hobbs, NM 88240	ION	WELL API NO.	· · · · · · · · · · · · · · · · · · ·				
DISTRICT II	San	0 Pacheco St. ta Fe, NM 87	505	i	30-015-22420		
P.O. Drawer DD, Artesia, NM 88210				İ	sIndicate Type of Lea	STATE	FEEX
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87-	410	•			«State Oil & Gas Lea	se No.	
(DO NOT USE THIS FORM F	Y NOTICES AND REPOI FOR PROPOSALS TO DRILL OF TRESERVOIR. USE "APPLIC FORM C-101) FOR SUCH PRO	OR TO DEEPEN (ATION FOR PER	OR PLUG BAC	CK TO A	Liggett at al Co	-	
Type of Well: Oil GAS					Liggett, et al Co)411	
2Name of Operator		HER			«Well No.		
Nearburg Producing Comp Address of Operator	ally				Pool name or Wildo	 ;at	
3300 N A St., Bldg 2, Suite	2120, Midland, TX 79705				W. Four Mile D	raw Morrow	
Unit Letter J	1980 Feet From The	East	Line and	1980	Feet From The	South	Line
Section	6 Township	19S F	Range	26E	NMPM	Eddy	County
	₁₀Elevation (3376' GR	Show whether DF,	RKB, RT, GR, et	'c.)			
¹¹ Ch	eck Appropriate Box to	o Indicate Na	ature of No	tice, Re	port, or Other	Data	
NOTICE	OF INTENTION TO:			SUB	SEQUENT R	EPORT OF:	, ,
PERFORM REMEDIAL WORK	PLUG AND ABA	NDON X	REMEDIAL W	ORK		ALTERING CAS	SING
TEMPORARILY ABANDON	CHANGE PLAN	s	COMMENCE	DRILLING O	PNS.	PLUG AND AND	ANDONMENT
PULL OR ALTER CASING			CASING TES	T AND CEM	ENT JOB		
OTHER:			OTHER:				
32Describe Proposed or Completed work) SEE RULE 1103.	Operations (Clearly state all pertin	ent details, and give	pertinent dates	including e	stimated date of starting	g any proposed	
• 1					799	91011	
1.) MIRU P&A rig. 2.) Set CIBP @ 9110'. Du	ımp 35' cmt on plug.				345678	O 1077 JONES OF THE PARTY OF TH	
	g @ 8142' (DV Tool @ 809 g @ 5940' to 6270' (Top Wo) ').		3 K	-3 [2]	\
5.) Cut & pull 4-1/2" csg @		, -				ED AL S	(:
7). Spot 35 sx cmt @ 135	60' (8-5/8" shoe @1300'). ([*]	Γag)			સંડ	C'ALCO	
 8). Spot 35 sx cmt @ 360 9.) Set 30' surface plug.)'. (13-3/8" shoe @ 310'). ('	rag)			CC .		/
8.) Install dry hole marker.						1.20	
* Spot 25 3x coment					408	(क रहे: जिल्हें	
y Spot 25 sy comint	•						
	en all cement Plugs						
I hereby certify that the information	on above is true and complete to the						20.00
SIGNATURE CONTRACTOR	sensail	T	TLE Regulat	ory Analys	<u>ST</u>	DATE 10-C	12-00
TYPE OR PRINT NAME KIM Stev	vart					TELEPHONE NO.	915/686-8235
(This space for State Use)							



Submit 3 Copies to Appropriate District Office State of New Me Energy, Minerals and Natural Re	\ .	Form C-103 Revised 1-1-89
DISTRICT 1 P.O. 80x 1980, Hobbs, NM 88240 OIL CONSERVATIO P.O. Box 208	WELL APIN	0.24163
DISTRICT II P.O. Drawer DD, Artesia, NM 88210 Santa Fe, New Mexico	5/504-2088	Type of Lease
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410	MAR 3 1994	STATE FEE X & Gas Lease No.
SUNDRY NOTICES AND REPORTS ON WEL (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN DIFFERENT RESERVOIR. USE "APPLICATION FOR PEI (FORM C-101) FOR SUCH PROPOSALS.)	OR PLUG BACK TO A 7 Lesse No.	me or Unit Agreement Name
I. Type of Well: OIL OAS WELL X OTHER		
WELL X OTHER 2. Name of Operator	Anders 8. Well No.	son
Anadarko Petroleum Corporation	1 s. well 140.	,
3. Address of Operator	9. Pool nam	· · - · - ·
PO Drawer 130, Artesia, NM 88211-0130	Boyd N	Morrow (Gas)
Unit Letter J: 1980 Feet From The South	Line and 1980 Feet	From The East Line
1 100		
Section 1 Township 19S Ru	ige 25E NMPM	Eddy County
3413.9 GL	, rano, rrs , ori, e.c.,	
11. Check Appropriate Box to Indicate	Vature of Notice, Report, or O	other Data
NOTICE OF INTENTION TO:	SUBSEQUEN	T REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON CHANGE PLANS	COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT X
PULL OR ALTER CASING	CASING TEST AND CEMENT JOB	
OTHER:	OTHER:	
 Describe Proposed or Completed Operations (Clearly state all pertinent details, as work) SEE RULE 1103. 	d give pertinent dates, including estimated a	date of starting any proposed
Note: This well had collapsed and part attached well diagram.	ed 4½" casing when a	started plugging. See
1. Rigged up coiled tbg unit. TOH wit	n l%" coiled tbg and	l pker. Set blanking
plug in 1.81" profile 9089'.	_	
2. Perforated 4 holes in 2 7/8" tbg a set at 8400'. Spotted 28 sx Class		
1% HR-7 down coiled the and out pe		
3. TOH with coiled tbg and pker. WOC		
plug covers Morrow top.	C	- H th 20 G-G1 from
4. Rigged down coiled the unit. RUPU. 8224' up to 7075' by pumping down		
up 4½" casing. WOC. Tagged top of	plug at 7063'. This	plug covers Strawn
Canyon and Penn tops. (Cont'd)	page 2	
I hereby certify that the information above is true and complete to the best of my knowledge and		
SIGNATURE Management III	Field Foreman	DATE 03-01-94
TYPEORPROMINAME Mile Braswell		TELEPHONE NO. 505-677-24
(This space for State Use)		
AMERIUM AV MILLE CONTROL CONTROL TO	B Field Repo I	DATE JUNE 9-94

Form C-103 PAGE 2 Anadarko Petroleum 03 - 01 - 94

- Cut off 2 7/8" tbg at 5800'. TOH with tbg. Pulled on 4½" and found parted. Recovered 1574' of 45" casing.
- 6.
- WIH with overshot on 4½" casing and tied casing back together. WIH with pker on 2 3/8" tbg and set at 5328' KB. Pressured to 2000#. Held. WIH with perf gun thru tbg and shot 4 holes in 45" casing at 5737'. Cement squeeze with 84 sx Class H with 2% CaCl from 5737' up to 5500'. WOC. Tagged top of plug at 5726'. Not enough plug.
- Spotted 12 sx Class H with 2% CaCl from 5721' up to 5559'. TOH. This plug covers Wolfcamp top.
- 9. Perforated 4 holes in casing at 2488'. WIH with pker and set at 2200'. Spotted 66 sx Class H with 2% CaCl in and out of 4½" casing from 2488' up to 2300'. WOC. Tagged top of plug 2321'. TOH. This plug covers Glorieta top.
- Unset overshot on 4½" casing and TOH with 1574' of casing. 10.
- WIH with 2 3/8" tbg open ended and spotted 200 sx Class H with 2% CaCl 11. from 1626' up to 1150'. WOC. Tagged top of plug at 1232'. This plug covers 4½" stub and 8 5/8" casing shoe.
- Pulled up and spotted 30 sx Class H from 511' up to 410'. This plug 12. covers 13 3/8" casing shoe.
- Pulled up and spotted 50' surface plug 02-08-94. RDPU. 13.
- Cleaned location and set P&A marker. Will do surface restoration as per 14. agreement with land owner (Ralph Schafer).

Note: Salt gel mud is between all plugs and Johnny Robinson, with NMOCD, witnessed plugging of well.

ANADARKO P.O. DRAWER

ARTESIA. NEW MEXICO BB210

(505)

Anadar**k**o[♯] Anderson 2/15/94 50 suitace plug -> Plug from 410' to 511 -> 1460' of 1330" - coment to surface 1320' of 85g"- centent to surface Plug From 1232 to 1626' -42" casing stub at 1574" Plug From 2321 to 2988' Perfs in 45 at 5737'
Top of 27'p" thy at 5800' Plu From 5559 to 5737 -> E/ Collapsed 42" casing @ 5800" for Cement top on 42" @ 6175' f en Penn top @ 7255' Plug From 7663 to 8229! e canyon top @ 7630' ar strawn top @ 8140' -27,84 they leak at 8224 Plug From 8739 to 9030 - Marrow top @ 8910' - Morrow perfs 9022-28 Pets in the @ 9080' -1 - 1.81 profile nipple @ 9089 Blanking plus in protile -43" Balur Lok-set @ 9093'

Lya Mariew perts 4174-86

COG SENM SWD Well Questionnaires

Date: 1/23/2013

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

Note: Answers to questions in this color

What will be the well name?

Lakewood SWD #4

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 re entered and 5 1/2" casing run

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 2 7/8" 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: 7,860 to 7,967

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? 1582.7 psig

Will water be trucked or piped to the well?

Piped

What wells will dispose into it?

COG Operated wells in this area.

Any non-COG wells?

There will be no non operated wells that dispose into this well.

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 Canyon and the surface.

Will the system be open or closed?
Closed



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

POD Search:

POD Basin: Jai

Basin/County Search:

County: Eddy

PLSS Search:

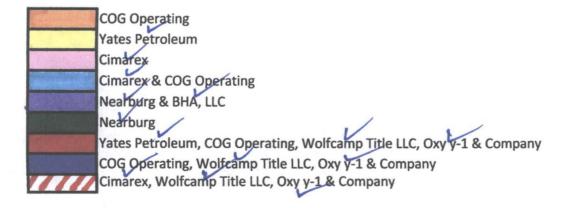
Section(s): 6

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.

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February 13th, 2013

NMOCD (District 2) 811 S. First St. Artesia, NM 88210

COG Operating LLC is applying (see attached application) to re-enter the Howe 6L #1 well and convert to the Lakewood SWD #4 as a salt water disposal well described below. As required by New Mexico Oil Conservation Division Rules, I am supply the District office of the NMOCD with a copy of the application that has been sent to main office in Sante Fe.

Well: Lakewood SWD #4

Proposed Disposal Zone: Canyon (from 7,860' to 7,967')

Location: 1980' FSL & 660' FWL Sec 6, T19S, R26E

Eddy County, NM

Approximate Location: 2 miles west of Seven Rivers Hwy and CR 140

Applicant Name: COG Operating LLC (432) 685-4340

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

Please call me if you have any questions.

Sincerely,

Mark Fairchild (432) 686-3021

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Abesia NM 98210

PS Form 3800. August 2006

See Reverse for Instructions

February 13th, 2013

Oxy USA Inc. P.O. Box 50250 Midland, TX 79710

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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.

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Sincerely,

Mark Fairchild (432) 686-3021

Mit Friedeld

February 13th, 2013

Wolfcamp Title, LLC 105 W. 3rd Roswell, NM 88202

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707	Street, Apt. No.; or PO Box No.	25 W 3rd Well MM 98702 See Reverse for Instruction	

Sincerely,

Mark Fairchild (432) 686-3021

Mak Faircheld O.

February 13th, 2013

Nearburg Producing Company Attn: Terri Stathem 3300 N "A" St., Bldg. 2, Suite 120 Midland, TX 79707

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Proposed Disposal Zone: Canyon (from 7,860' to 7,967') Location: 1980' FSL & 660' FWL Sec 6, T19S, R26E

Eddy County, NM

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Please call me if you have any questions.

Sincerely,

Mark Fairchild (432) 686-3021

Mak Favelild

February 13th, 2013

Mary Ellen Taylor 7172 Regional St. Dublin, CA 94568

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Please call me if you have any questions.

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Sirver, John No. 7172 Market 194568 On PO Box No. 7174 O. Mary 94568 See Reverse for Instructions
City, 500-1
ps Form 3800. August 2006

Sincerely,

Mark Fairchild (432) 686-3021

February 13th, 2013

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

COG Operating LLC is applying (see attached application) to re-enter the Howe 6L #1 well and convert to the Lakewood SWD #4 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 #4

Proposed Disposal Zone: Canyon (from 7,860' to 7,967')

Location: 1980' FSL & 660' FWL Sec 6, T19S, R26E

Eddy County, NM

Approximate Location: 2 miles west of Seven Rivers Hwy and CR 140

Applicant Name: 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.

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Sincerely,

Mark Fairchild (432) 686-3021

Much Favduld

February 13th, 2013

DHA LLC 12204 Towner Ne Albuquerque, NM 87100

COG Operating LLC is applying (see attached application) to re-enter the Howe 6L #1 well and convert to the Lakewood SWD #4 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.

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Please call me if you have any questions.

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	PS Form 3800, August 2				See Reverse to	or Instructions			

Sincerely,

Mark Fairchild (432) 686-3021

Make Fairchild

February 13th, 2013

Cimarex Energy 1700 Lincoln Street, Suite 1800 Denver, CO 80203

COG Operating LLC is applying (see attached application) to re-enter the Howe 6L #1 well and convert to the Lakewood SWD #4 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.

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Eddy County, NM

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Please call me if you have any questions.

U.S. Postal Service 12

CERTIFIED MAIL 11

RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com.

DEATR D 220 C A USE

Postage \$ \$1.72 0704

Postmark Here

Restricted Delivery information visit our website at www.usps.com.

Postage \$ \$1.72 0704

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Street Apt No.:
or PO Box No. 1700 Lincoln, Stace t. Suite 1800

City, State, 217-4

Denver (O 90.20 3

See Reverse for Instructions

Sincerely,

Mark Fairchild (432) 686-3021

Mark Fairfild T.O.

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 Current-Argus, а 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 and advertisements may 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:

February 12

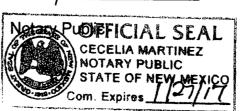
2013

That the cost of publication is \$46.75 and that payment thereof has been made and will be assessed as court costs.

Subscribed and sworn to before me this

day of th

My commission Expires on



February 12, 2013

Legal Notice February 7, 2013

COG Operating LLC is applying to re-enter the Howe 6L #1 well and con-Howe 6L #1 well and convert to the Lakewood SWD #4 as a water disposal well. The Lakewood SWD.#4 well is located at 1980' FSL & 660' FWL, Sec. 6, T. 19 S., R. 26 E., Eddy County, NM. The well will dispose of water reduced from all and as produced from oil and gas wells into the Canyon Reef zone at a depth of 7,860' to 7,967'at a maximum rate of 20,000 barrels of water per day and at a maximum pressure of 1,582.7 psi. Interested parties must file objecparties must file objections or requests for hearing with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505, within 15 days. Additional information can be obtained. tained by contacting Mark Fairchild, COG Operating, LLC, phone number is (432-686-3021.

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

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Jones, William V., EMNRD

From:

Jones, William V., EMNRD

Sent:

Friday, February 22, 2013 4:49 PM

To:

Mark Fairchild (MFairchild@concho.com)

Cc:

Ezeanyim, Richard, EMNRD; Shapard, Craig, EMNRD

Subject:

Disposal application from COG Operating LLC: Lakewood SWD #4 30-015-26270

Canyon Reef 7860 to 7967 perfed

Hello Mark, Hope all is well?

I quickly looked this over and:

- a. Would you send "before Conversion" and "After Conversion" Wellbore diagrams with formation tops above and below the Canyon marked on them?
- b. Is there any fresh water out here and at what maximum depth?
- c. What formation will be the source of the disposal water?
- d. Are the waters in this Canyon Reef protectable (<10,000TDS Salt)?
- e. Who is the owner of the surface of this well site?
- f. I didn't see an "Affirmative Statement" as required in the C-108.

All this should hopefully be easy to come up with,

Take Care,

William V. Jones, P.E. 505-476-3448W 505-476-3462F Engineering Bureau, Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Disposal application from COG Operating LLC: Lakewood SWD #4 30-015-26270 Canyon Reef 7860 to 7967 perfed

Questions by William V. Jones, EMNRD

- A. Before and After Well Bore Diagrams? These diagrams are attached with the email conveying these answers.
- B. Is there any fresh water in the area and its depth?: No there is no fresh water nor are there any fresh water wells in the area.
- C. What formation(s) will be the source of the disposed water?: The disposed water consists of Yeso formations of Paddock and Blinebry.
- D. Are the waters in the Canyon Reef <10,000 TDS?: No, the Canyon Reef water is greater than 10,000 TDS.
- E. Surface Owner: COG purchased the wellbore from the owners and obtained a surface use agreement for SWD with the purchase.
- F. C-108 Affirmative Statement: Please instruct me where to find same. The C-108 is the same as we have always sent to the NMOCD.

Jones, William V., EMNRD

From:

Mark Fairchild < MFairchild@concho.com>

Sent:

Tuesday, March 12, 2013 7:03 AM

To:

Jones, William V., EMNRD

Subject:

RE: Answers to Questions

Will do!

M.A. Fairchild

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

多CONCHO

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

Sent: Monday, March 11, 2013 5:49 PM

To: Mark Fairchild

Subject: RE: Answers to Questions

Mark,

Thanks for this!

Sounds like Concho now own the surface at this wellsite?

The affirmative statement is item XII on the C-108 form. It is not a big deal, but is required. Usually the geologist should sign this statement of affirmation and I didn't see it in your application...: If you would send I would be obliged.

Hope all is well.

Thank You

Will

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

Sent: Monday, March 11, 2013 1:47 PM

To: Jones, William V., EMNRD **Subject:** Answers to Questions

Will, sorry this drug out, here are the answers to your email of 2/25.

M.A. Fairchild COG OPERATING LLC

	2/19/18 2/22 3/2/3 2/3	13
	Injection Permit Checklist: Received First Email Date: Final Reply Date: Final Reply Date: 715	
	Issued Permit: Type:WFX/PMX/SWD, Number: 466 Permit Date 3/16/13 (Legacy Permit:)	
	#Wells L Well Name(s): LAKEWOOD SWD # 4 (Was HowE 6L # 1)	
	API Num: 30-0 5-26270 Spud [4.5/1990 New/Old: N (UIC CI II Primacy March 7, 1982)	
	Footages 1980 F5 4660 FWL Lot Unit & Sec 6 Tsp 195 Rge 26 E County EDDY	
	General Location or Pool Area: N. of Lake McMULAU	
	Operator: (OG OPERATING LLC Contact CONTACTION COLLINS CHILD	·
	OGRID: 279137 RULE 5.9 Compliance (Wells) 755 (Finan Assur) OLC IS 5.9 OK? OK	<u>.</u> .
	Well File Reviewed V Current Status: DEA MONTH ATTEMPT	
<i>i i</i>	Planned Work to Well: RE-ENGL, Run 51/211	
	Diagrams: Before Conversion After Conversion Are Elogs in Imaging?: will kin of Ry (Lofs or other	2-21
And	Sizes Setting Stage Cement Cement Top and	
160	Well Details: HolePipe Depths Tool Sx or Cf Determination Method Planned or Existing Surface 772 - 1338 350 - 520 CIRC	<u> </u>
	Planned—or Existing Interm (2/4 - 85/8 1350 - 8655x+1" CIRC	
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	Planned_or Existing _ Liner	
	Planned_or Existing _ OpenHole	
A	Depths/Formations: Depths, Ft. Formation Tops? SA@1748	
Ę	Above 6253 WC V	
. /.	Above 73-5 CISCO 1572	7
	Proposed Interval TOP: 7860 Compared Max. PSI 572 OpenHole Perfs Proposed Interval BOTTOM: 7967 Compared Tubing Size 78 Packer Depth	
	Below 76 39 Chyn - V	
•	Below 8253 STUL 1 Latters	₹
7	Capitan Reef? (In /thru_), Potash3 _ Noticed2 _ NVIPP?Noticed2 Salado TopBotGliff=House?	
المثن	Fresh Water: MaxDepth: FW Formation None Wells? None Analysis? Affirmative Statement	
2/	Disposal Fluid: Formation Source(s) On Lease Only from Operator or Commercial	. =
	Total - R-R	
	Disposal Interval: Protectable Waters? N PH/C Potential: Log /Mudlog /DST /Tested /Depleted Other	and
	Notice: Newspaper Date 2/12/13 MineralOwner Surface Owner Con Euch (AYUR N. Date 2/13	13
	RULE 26.7(A) Identified Tracts? Affected Persons N. Date 2/13	/13
	AOR: Maps? Well List? Producing in Interval? No Formerly Produced in Interval? No Produced in Interval?	
	PenetratingNo. Active Wells Num Repairs? On which well(s)? PenetratingNo. P&Aed Wells Num Repairs? On which well(s)? Diagrams?	
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Issues: