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1 ant	ABOVE THIS LINE FOR DIVISION USE ONLY 226-
Dette 3 [18 01211	NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505
	ADMINISTRATIVE APPLICATION CHECKLIST
	THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE cation Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Simultaneous Dedication Preferation [A] Location - Spacing Unit - Simultaneous Dedication Preferation Preferation [A] NSL NSP SD Preferation Check One Only for [B] or [C] Some Bit (SSVEE) [B] Commingling - Storage - Measurement Storage - Measurement [D] DHC CTB PLC PC OLS OLM [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery PPR PMX SWD IPI EOR PPR [D] Other: Specify
[2]	 NOTIFICATION REQUIRED TO: - Check Those Which Apply, or □ Does Not Apply [A] □ Working, Royalty or Overriding Royalty Interest Owners [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 SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office [E] ☑ For all of the above, Proof of Notification or Publication is Attached, and/or, [F] □ Waivers are Attached
[3]	SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE

OF APPLICATION INDICATED ABOVE.

[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.

1 11

BRIAN COLLINS	· mi Males	SENIOR OPERATIONS ENGINEER
Print or Type Name	Signature	Title

bcollins@concho.com e-mail Address



RECEIVED OCD

January 9, 2013

New Mexico Oil Conservation Division Attn: William V. Jones 1220 South St. Francis Drive Santa Fe, NM 87505



RE: <u>Application For Authorization To Inject</u> Cottonwood 36 SWD #1 Township 25 South, Range 26 East, N.M.P.M. Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

Dear Mr. Jones:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the Cottonwood 36 SWD #1 well as referenced above. Attached, for your review, is a copy of the C-108 application. Once we receive the newspaper publication and all certified return receipts, I will send you a copy.

Please do not hesitate to contact me at (575) 748-6940 should you have any questions.

Sincerely,

ffle

Brian Collins Senior Operations Engineer

BC/bg Enclosures

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

APPLICATION FOR AUTHORIZATION TO INJECT Secondary Recovery PURPOSE I. -Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? Yes COG OPERATING LLC II. OPERATOR: 2208 W. Main Street, ARTESIA, NM 88210 ADDRESS: CONTACT PARTY: BRIAN COLLINS PHONE: 575-748-6940 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. Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project: IV. 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: 1. Proposed average and maximum daily rate and volume of fluids to be injected; 2. Whether the system is open or closed; 3. Proposed average and maximum injection pressure; 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 5. 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. Applicants must complete the "Proof of Notice" section on the reverse side of this form. XIII. 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: **BRIAN COLLINS** TITLE: Senior Operations Engineer helle. DATE: 12 Mar 2013 SIGNATURE: E-MAIL ADDRESS: bcollins@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:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

C-108 Application for Authorization to Inject Cottonwood 36 SWD No. 1 1980' FSL, 1980' FWL K-36-T25S-R26E, Eddy County

3/2/13

COG Operating LLC proposes re-enter the captioned well for salt water disposal service into the Delaware Sand from 3595-3775' and 4206-4550'. We propose to tie back $5\frac{1}{2}$ " casing from 3014' to surface and cement the $5\frac{1}{2}$ " to surface with 950 CF cement slurry.

V. Map is attached.

VI. One well is located inside the ½ mile radius area of review. A wellbore schematic is attached.

- VII. 1. Proposed average daily injection rate = 2000 BWPD Proposed maximum daily injection rate = 5000 BWPD
 - 2. Closed system
 - Proposed maximum injection pressure = 719 psi (0.2 psi/ft. x 3595' ft.)
 - 4. Source of injected water will be Delaware Sand and Bone Spring Sand produced water. No compatibility problems are expected. Analyses of Delaware and Bone Spring waters from analogous wells are attached. We have numerous Delaware SWD's in this area and have not encountered any compatibility issues with our Delaware and Bone Spring injected waters.
- VIII. The injection zone is the Delaware Sandstone, a fine-grained sandstone from 3595-3775' and 4206-4550'. Any underground water sources will be shallower than 353' (surface casing depth).
 - IX. The Delaware sand injection interval might be acidized with approximately 20 gal/ft of 7 ½ % HCl acid. We don't plan to fracture treat the injection interval.
 - X. Well logs are filed with the Division. A section of the dual laterolog resistivity log showing the injection interval is attached.
 - XI. There are no fresh water wells within a mile of the proposed SWD well.
- XII. After examining the available geologic and engineering data, no evidence was found of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Proof of Notice is attached.



WELL DATA

	ON WELL DATA S	SHEET		
OPERATOR: COG Operating, LLC				
WELL NAME & NUMBER: Co Hon wood 36 SWD	No.1 (form	1-14 Cotton wood	36 State 1)	
WELL LOCATION: 1980' FSL 1980' FWL FOOTAGE LOCATION	K UNIT LETTER	36 SECTION	<u>255</u> TOWNSHIP	<u>26 e</u> RANGE
<u>WELLBORE SCHEMATIC</u>	na 1920 - Angelander 1929 - Angelander	<u>WELL Co</u> Surface	<u>ONSTRUCTION DATA</u> Casing	<u>l</u>
	Hole Size:		Casing Size:_1378	"e 353'
	and the second second	<u>390</u> sx.	or	ft³
See Altached Before & After	Top of Cement:	SurFace	Method Determined:	Circulated
Schematics		<u>Intermedia</u>	<u>te Casing</u>	
	Hole Size:	121/4"	Casing Size: 878	"@ 1860'
	Cemented with:	<u>1000</u> sx.	or	ft ³
	Top of Cement:	Surface	Method Determined	Circulated
		<u>Production</u>	n Casing	
	Hole Size:	<u>7⁻⁷⁄9"</u>	Casing Size: <u>5'</u> な"	<u> 3014 - 585</u> 0
	Cemented with:		or	ft ³
	Top of Cement:		Method Determined	<u>CBL</u>
	Total Depth:	<u>5850</u> Injection	Interval	
	<u>3595- 31</u>		t to <u>4206-455</u> 0	>'
		Perforated br Open H		

	TALES CONTANT A DATE A OTTER	
	INJECTION WELL DATA SHEET	
Tub	ng Size: <u>278 or 312</u> Lining Material: <u>TPC or Dupline</u> 20	
Тур	ng Size: <u>2718</u> or <u>312</u> Lining Material: <u>IPC or Dupline ZD</u> of Packer: <u>IDK nickel coated double grip retreivable</u>	
	er Setting Depth: <u>± 3950</u>	
Oth	r Type of Tubing/Casing Seal (if applicable)://A	
	Additional Data	
1.	Is this a new well drilled for injection? Yes <u>Yes</u> Yes	
	If no, for what purpose was the well originally drilled? <u>Diland gas</u>	
	· · · · · · · · · · · · · · · · · · ·	
.2.	Name of the Injection Formation: <u>Delaware</u> Sand	
3.	Name of Field or Pool (if applicable): <u>Cotton wood Draw</u>	
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.	
	See attached wellbore schematics	
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:	
	Overlying : Delaware 1880' - 4975' (Most wells in 1883-3884' range Zmiles + away,	
	Willin P-35-255-26e 4758-4973' Willin E-6-265-27e 4864-4724, 4050-4060')	
	Underlying : Bone Spring 6050'-6500', Wolfcame 7240-9935', U. Penn /Stram 10236-10556' Atoka 11342-11354', Morrow 11483-12263'	
	11111 Ca 1112- 11031 , 1110770W 11783-16263	

.°.,

Side 2



30-015-29560 (Formerly Cottonwood 36 St. 1) Zero: 12'AGL KB: 3334 1980'FSL, 1980'FWL GL: 3322' K- 36-255-26e Eddy NM TUS 350' 1712 BUS 1770! 13%"/48/H40/STC @ 353' 390 5x"C" (circ 1155x) 12/14" 8 7/8"/32/ J55/6TC @ 1860 (in) 600 5+ HLC + 400 5x"C" (CIR 255X) 7%" 512" tie back 0-3014 Cont to surface with 950 CF cement storry TOC 3100'CBL After SWD Conversion 31/2" Ini Tbg. Inj.Pkr. 13550' 3595' 3775' Ø 4206 4550 5053 253x CIOP + 25 5x 5304' Delsi 2)5386-76' (1) Rtnr 5470' 200 74: Oct 54 5480-84' (?) 712.d Rtnr 5526' x 5539.69' (27) 5,201 :2005% DelSd CIBP 120 cut 5620' 0 5720-321 0 5736-401 (29) 5712-521 (29) 135 SJ 51/2"/17/J55/LTC @ 5850' 650 ix Suprill 5850

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MAP

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COG Operating, LLC Cottonwood 36 SWD No. 1 Unit K, Sec 36 T25S-R26E Eddy County, NM



Wells Penetrating Proposed Disposal Interval Within Half Mile Area of Review





Water Analysis Produced and Receiving Formation Water

WATER SAMPL	ES REPRESENTATIVE OF W	ATER BEING INJEC	CTED INTO THE	PROPOSE	D SWD-WELL							
								(
Bone Spring	- -											
Lab Test #	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	рН	conductivity	Ca (mg/L)	Mg (mg/L)
2011128832	Craig St. Com	1H	William D Polk	9/30/2011	9/21/2011	1.13	.3.15	194940.50			2390.00	664.00
Delaware												
Lab Test #	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	.pH	conductivity	Ca (mg/L)	Mg (mg/L)
2011128361	Chicken Hawk State	1	William D Polk			1.12	3.17	189454.89			4133.30	725.18

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---- Water Sample Representative of Receiving Formation Water

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				Fe (mg/L)	_i Ba (mg/L) ¹	Sr (mg/L)	<u> Mn (mg/L)</u>	Resistivity	HCO3 (mg/L)	CO3 (mg/L)	OH (mg/L)	SO4 (mg/L)	CI (mg/L)	CO2 (mg/L)	H2S (mg/L)
9171.56	•55296.00	815.00	ļ!	0.32	2.00	403.00	0.18	ļ	1220.00	0.00		150.00	134000.00	540.00	0.00
				<u> </u>	Įl	 		Į	+						······
TH (CaCO3)	Na (mg/L)	K (mg/L)	Zn (mg/L)	Fe (mg/L)	Ba (mg/L)	Sr (mg/L)	Mn (mg/L)	Resistivity	HCO3 (mg/L)	CO3 (mg/L)	OH (ma/L)	SO4 (ma/L)	Cl (ma/L)	CO2 (ma/L)	H2S (mg/L)
13854.58		1056.00	37.48	2.25	0.00	468.07	0.00	•	1220.00	0.00	1		111400.00		17.00



Resistivity Log Across Proposed Delaware Sand Injection Interval

82			
COMPANY: Penwell Energy Incorporated	Run 1 - Run 2 Run 3 Run 4		
SwELL: Cottonwood '36' State #1			
FIELD: Cottonwood Draw - Delaware			
COUNTY: Eddy STATE: New Mexico			· ·
Platform Express - Azimuthal Laterolog Schlumberger MCFL / Gamma Ray			-
Bev KB.; 3034 F Bev KB.; 3034 F Bev KB.; 3034 F Bev KB.; 3034 F Bev Bev KB.; Bev Bev Bev Bev Bev <th></th> <th></th> <th></th>			
3 2 8 2 Log Measured From. Kety Bushing			2
S S Physical Net SECTION TOWNSHIP PANCE a 3 30-015-25650 36 255 26E a 30-015-25650 36 255 26E	Logging Date		
lun Number One	Bun Number		5
asing Driller Stor @ Deptr 0.025 IN 0 1861 F 1851 F asing Schumberger 1862 F 1862 F RECENTION Is Stor 7 975 IN Cut Brine ; Starch 0CD-ANTESIA Vice Fluid In Hole Cut Brine ; Starch 0CD-ANTESIA	Casing Schlumberger Casing Schlumberger di Size Type Fluid In Hoje		EQUIPMEN
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XI.

Fresh Water Sample Analyses



(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 30, 31

Township: 25S Range: 27E



(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 6

Township: 26S Range: 27E



(with Ownership Information)

	(acre ft	per annum)	(R≠POD has been replace and no longer serves this C=the file is closed)	file, (quarte		=NW 2=NE 3=SW nallest to largest)		l in meters)
	Sub				999	716		
WR File Nbr	basin Use Dive	rsion Owner	County POD Number Code Grant			Sec Tws Rng	х	Y
<u>C 00974</u>	C DOM	3 CARLSBAD CITY SCHOOLS	ED <u>C 00974</u> Correct location Sec 35-215-26e			35 (259) 26E	569074	3549831*
<u>C 01013</u>	C DOM	3 BILLIE B CHESTER	ED <u>CO1013</u> recorrect location Sec 25-225-	26 eShallow	<i>r</i> 4	25 255 26E	571505	3551456*
<u>C</u> 02220	CUB PLS	3 FOREHAND RANCHES INC.	ED <u>C 02220</u> 35' deop 1911)	e cadite	312	26 25S 26E	569598	3552352*
<u>C 02221</u>	CUB PLS	3 FOREHAND RANCHES INC	ED <u>CO2221</u> 35' deep 1914) Outside Imil ED <u>CO2221</u> 35' deep 1914) area of rev	iew	432	25 25S 26E	571412	3551961*

Record Count: 4

PLSS Search:

Section(s): 25, 26, 35, 36 Township: 25S Range: 26E

Sorted by: File Number

*UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer Point of Diversion Summary

POD	POD Number			(quarters are smallest Q64 Q16 Q4 Sec					X	TM in meters) Y	
C 0	2220		3	1	2	26	25S	26E	569598	3552352*	
Driller License:											
Driller Name: S	S O PAXTON										
Drill Start Date:		Drill	Finis	h Da	ate:		05/0	1/9111	Plug	Date:	
Log File Date:		PCV	V Rcv	Dat	e:				Sou	rce:	
Pump Type:		Pipe	Disc	harg	ge S	ize:			Estir	nated Yiel	d: 7
Casing Size: 7	.00	Dep	th We	ll:			35 f	eet	Dept	th Water:	

*UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer Point of Diversion Summary

						=NE 3= t to larg	SW 4=SE gest)	,	TM in meters)	
PC	OD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Ŷ	
С	02221	4	3	2	25	25S	26E	571412	3551961*	
Driller License:				•			•			
Driller Name:	J D FOREHAND								,	
Drill Start Date:		Drill Fin	ish C)ate	:	11/	15/1914	Plug	Date:	
Log File Date:		PCW Rc	v Da	te:				Sou	rce:	
Pump Type:		Pipe Dis	char	ge \$	Size:			Esti	mated Yield	: 7
Casing Size:	6.50	Depth W	/ell:		1	35 f	eet	Dep	th Water:	

*UTM location was derived from PLSS - see Help



(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 1, 2

Township: 26S 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.

11/15/12 7:20 AM

Cottonwood 36 SWD No. 1 Unit K, Sec. 36: T25s-R26e Eddy County, New Mexico





January 9, 2013

Artesia Daily Press P. O. Box 190 Artesia, NM 88211-0190

Re: Legal Notice Salt Water Disposal Well Cottonwood 36 SWD #1

To Whom It May Concern:

Enclosed is a legal notice regarding New Mexico Oil Conservation Division C-108 Application for Authorization to Inject for a salt water disposal well.

Please run this notice and return the proof of notice to the undersigned at:

COG Operating LLC, 2208 W. Main St., Artesia, NM 88210

Sincerely,

Muli

Brian Collins Senior Operations Engineer

BC/bg Enclosures

ARTESIA DAILY PRESS LEGAL NOTICES

COG Operating LLC, 2208 W. Main, Artesia, New Mexico, 88210, has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Cottonwood 36 SWD #1, is located 1980' FSL 1980' FWL, Sec. 36, Township 25 South, Range 26 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware and Bone Spring formations. The disposal water will be injected into the Delaware formation at depths of 3595-3775', 4206-4654' and 5158-5569'at a maximum surface pressure of 719 psi and a maximum rate of 5000 BWPD. This well is located approximately 15 miles southwest of the village of Loving. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at COG Operating LLC, 2208 W. Main, Artesia, NM 88210, or call 575-748-6940.

Published in the Artesia Daily Press, Artesia, New Mexico , 2013.

Affidavit of Publication									
STATE OF NEW MEXICO									
County of Eddy:									
Danny Scott a anny Scar									
being duly sworn, says that he is the Publisher									
of the Artesia Daily Press, a daily newspaper of general									
circulation, published in English at Artesia, said county									
and state, and that the hereto attached									
Legal Notice									
was published in a regular and entire issue of the said									
Artesia Daily Press, a daily newspaper duly qualified									
for that purpose within the meaning of Chapter 167 of									
the 1937 Session Laws of the state of New Mexico for									
1 Consecutive weeks/days on the same									
day as follows:									
First Publication January 16, 2013									
Second Publication									
Third Publication									
Fourth Publication									
Fifth Publication									
Subscribed and sworn to before me this									
16th day of January 2013									
OFFICIAL SEAL Latisha Romine NOTARY PUBLIC-STATE OF NEW MEXICO My commission expires: 5/12/2015 Autocha Romine									

Copy of Publication:

LEGAL NOTICE

COG Operating LLC.2208 W. Main, Artesla, New Mexico, 88210, has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Cottonwood 36 SWD #1. is located 1980FSL 1980FWL; Sec.36, Township 25 South, Range 26East, Eddy, County, New Mexico, Disposal water will be sourced from area wells producing from the Delaware and Bone Spring formations. The disposal water will be injected into the Delaware formation at depths of 3595 3775, 4246-4654' and 5158-5589' at a maximum surface pressure of 710 psl and a maximum rate of 5000 BWPD. This well is located approximately 15 miles southwest of the village of Loving, Any Interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within fifteen (15) days of this notice. Any Interested party with questions or comments may contact Brian Collins at COG Operating LLC, 2208 W. Main, Artesia, NM 88210, or calt575-748-6940. Published in the Artesla Daily Press, Artesia, N.M., Jan. 16, 2013. Legal No 22431:

S MARTIN SALES





SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the malipiece, or on the front if space permits. 	A. Signature A. Signature Address B. Aeceived by (Printed Name) C. Date of Deliver
1. Article Addressed to: OXY USA INC P O BOX 4294 HOUSTON TX 77210	D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No
	Service Type Gertified Mail Depress Mail Registered D Return Receipt for Merchand Insured Mail C.O.D.
2. Article Number	4. Restricted Delivery? (Extra Fee)
	3998 4877 0000 0
PS Form 3811, February 2004 Domestic R	leturn Receipt 102595-02-M-1
ENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	A Significante Agent A Agent Agent Agent Agent Agent Agent
Article Addressed to:	D. Is delivery address different from Item 1? Yes If YES, enter delivery address below: No
P O BOX 27570 HOUSTON TX 77227-7570	3. Service Type Certified Mali Express Mali Registered Return Receipt for Merchandise
	Insured Mali C.O.D.
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	4. Restricted Delivery? (Extra Fee) Yes
Article Number (Transfer from service k 7011 1570 000	4. Restricted Delivery? (Extra Fee) UYes
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(Transfer from service k PULL LS PULL S Form 3811, February 2004 Domestic Return SNDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the maliplece, or on the front if space permits. Article Addressed to: OXY USA INC P O BOX 27570	Image: Second Stress of Second Stress of Second Stress



January 9, 2013

Oil Conservation Division Attn: Richard Inge 811 South 1st Street Artesia, NM 88210

RE: <u>Application For Authorization To Inject</u> Cottonwood 36 SWD #1 Township 25 South, Range 26 East, N.M.P.M. Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

Dear Mr. Inge:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the Cottonwood 36 SWD #1 well as referenced above. Attached, for your review, is a copy of the C-108 application. Once we receive the newspaper publication and all certified return receipts, I will send you a copy.

Please do not hesitate to contact me at (575) 748-6940 should you have any questions.

Sincerely,

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Inthe

Brian Collins Senior Operations Engineer

BC/bq **Enclosures**


Carlsbad Field Office Bureau of Land Management 620 E. Greene St Carlsbad, NM 88220

Re: <u>Application For Authorization to Inject</u> Cottonwood 36 SWD #1 Township 25 South, Range 26 East, N.M.P.M. Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to reenter this well for SWD service if our C-108 is approved. This well has a split estate, the BLM owning the surface and the State owning the minerals. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

alle.

Brian Collins Senior Operations Engineer



ABO Petroleum Corp. 105 S. Fourth St Artesia, NM 88210

Re: <u>Application For Authorization to Inject</u> Cottonwood 36 SWD #1 Township 25 South, Range 26 East, N.M.P.M. Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

To Whom It May Concern:

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

ulle.

Brian Collins Senior Operations Engineer



Chevron USA, Inc. P O Box 2100 Houston, TX 77252

Re: <u>Application For Authorization to Inject</u> Cottonwood 36 SWD #1 Township 25 South, Range 26 East, N.M.P.M. Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

To Whom It May Concern:

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

ul Zn

Brian Collins Senior Operations Engineer



Chesapeake Exploration, LLC P O Box 18496 Oklahoma City, OK 73154-0496

Re: <u>Application For Authorization to Inject</u> Cottonwood 36 SWD #1 Township 25 South, Range 26 East, N.M.P.M. Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

To Whom It May Concern:

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

alle.

Brian Collins Senior Operations Engineer



MYCO Industries Inc. 105 S. Fourth St Artesia, NM 88210

Re: <u>Application For Authorization to Inject</u> Cottonwood 36 SWD #1 Township 25 South, Range 26 East, N.M.P.M. Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

fle

Brian Collins Senior Operations Engineer



Oxy USA, Inc. P O Box 27570 Houston, TX 77227-7570

Re: <u>Application For Authorization to Inject</u> Cottonwood 36 SWD #1 Township 25 South, Range 26 East, N.M.P.M. Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

To Whom It May Concern:

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

dle.

Brian Collins Senior Operations Engineer



Oxy-1 Company P O Box 27570 Houston, TX 77227-7570

Re: <u>Application For Authorization to Inject</u> Cottonwood 36 SWD #1 Township 25 South, Range 26 East, N.M.P.M. Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

m

Brian Collins Senior Operations Engineer



Oxy USA, Inc. P O Box 4294 Houston, TX 77210

Re: <u>Application For Authorization to Inject</u> Cottonwood 36 SWD #1 Township 25 South, Range 26 East, N.M.P.M. Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to reenter this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

fille.

Brian Collins Senior Operations Engineer



March 14, 2013

Oil Conservation Division Attn: Richard Inge 811 South 1st Street Artesia, NM 88210

RE: <u>Application For Authorization To Inject</u> Cottonwood 36 SWD #1 Township 25 South, Range 26 East, N.M.P.M. Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

Dear Mr. Inge:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the Cottonwood 36 SWD #1 well as referenced above. Attached, for your review, is a copy of the C-108 application revisions made after discussions with OXY and Mr. Will Jones. We have changed the injection interval to 3595-3775' and 4206-4550' to stay above nearby potentially productive Delaware Sand intervals. I've also added that we don't plan on fracture treating the proposed injection interval.

Please do not hesitate to contact me at (575) 748-6940 should you have any questions.

Sincerely,

mll

Brian Collins Senior Operations Engineer

BC/bq **Enclosures**



March 14, 2013

Carlsbad Field Office Bureau of Land Management 620 E. Greene St Carlsbad, NM 88220

Re: <u>Revisions to Original Application For Authorization to Inject</u> Cottonwood 36 SWD #1 Township 25 South, Range 26 East, N.M.P.M. Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's revised C-108 Application to Inject for the above referenced well. This revision should satisfy concerns voiced by OXY and the NMOCD about the proposed injection interval relative to a potentially productive Delaware Sand zone. We also added that we don't plan to fracture treat the proposed injection interval.

We changed the proposed injection interval to 3595-3775' and 4206-4550', which puts the bottom perforation in excess of 250' above the potentially productive Delaware Sand zone.

We plan to reenter this well for SWD service if our C-108 is approved. This well has a split estate, the BLM owning the surface and the State owning the minerals. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

full

Brian Collins Senior Operations Engineer



March 14, 2013

OXY USA, Inc. P O Box 4294 Houston, TX 77210-4294

Re: <u>Revised Application For Authorization to Inject</u> Cottonwood 36 SWD #1 Township 25 South, Range 26 East, N.M.P.M. Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's revised C-108 Application to Inject for the above referenced well. This revision should satisfy concerns voiced by OXY and the NMOCD about the proposed injection interval relative to a potentially productive Delaware Sand zone. We also added that we don't plan to fracture treat the proposed injection interval.

We changed the proposed injection interval to 3595-3775' and 4206-4550', which puts the bottom perforation in excess of 250' above the potentially productive Delaware Sand zone. The original proposed injection interval was 3595-3775', 4206-4654' and 5158-5569'. The potentially productive Delaware Sand zone correlates to approximately 4835-5045' in the proposed SWD. We plan to reenter this well for SWD service if our C-108 is approved.

Per conversations with Ms. Prithi Balaji and Ms. Donna Havens, we believe the revised proposed injection interval is now acceptable to OXY. Please send Mr. Will Jones with the NMOCD an email or letter stating that OXY is withdrawing its objection to the proposed SWD application after you receive this letter.

Please do not hesitate to contact me at 575-748-6940 should you have any questions.

Sincerely,

Juler.

Brian Collins Senior Operations Engineer

GALLAGHER & KENNEDY

DALVA L. MOELLENBERG DIRECT DIAL: (505) 982-9798 E-MAIL: DLM@GKNET.COM 1233 PASEO DE PERALTA SANTA FE, NM 87501 PHONE: (505) 530-8000 FAX: (505) 983-8160 WWW.GKNET.COM

January 28, 2013

HAND DELIVERED

Oil Conservation Division 1220 South Saint Francis Street Santa Fe, New Mexico 87505

> Re: OXY USA Inc. Protest and Request for Hearing <u>Application for Authorization to Inject</u> Applicant: COG Operating LLC Cottonwood 36 SWD #1 Township 25 S, Range 26 E, NMPM Section 36: 1980' FSL & 1980' FWL Eddy County, New Mexico

RECEIVED OCU

Dear Sir or Madam:

Gallagher & Kennedy, P.A., on behalf of OXY USA, Inc., submits this written protest of the above-described application submitted by COG Operating LLC. OXY USA, Inc. is the owner/operator of a well known as HNG 35 Federal #1 well located in Section 35, Township 25S Range 26 E and located approximately one-half mile from the Cottonwood 36 well that is the subject of the application. OXY USA, Inc. produces from its well from the same formation and from one or more of the same intervals as the zones proposed for injection in the subject application. Consequently, OXY USA, Inc.'s production may be impacted by the subject application.

OXY USA, Inc. received written notice of the subject application on or about January 16, 2015. Pursuant to section 19.15.26.8.D NMAC, upon filing of a timely objection, the division shall set the application for hearing and give notice of the hearing. Please give notice of the setting of a hearing to the undersigned.

Very truly yours,

GALLAGHER & KENNEDY, P.A.

Dalva L. Moellenberg

By:

cc: Brian Collins, COG Operating LLC

From:	Jones, William V:, EMNRD
Sent:	Tuesday, January 29, 2013 8:36 AM
То:	'dlm@gknet.com'; Brian Collins
Cc:	Ezeanyim, Richard, EMNRD
Subject:	Protested COG Operating LLC SWD application for the Cottonwood 36 SWD #1 Unit
	letter K, Section 36, T25S R26E, Eddy County

Mr. Collins and Mr. Moellenberg;

Acknowledging the OCD has received OXY USA Inc.'s protest by mail of the Concho application. Please let us know if OXY USA Inc. withdraws its protest and if so, under what conditions.

Please note, the Division prefers that if this is pursued to hearing, that one of the parties initiates that Examiner hearing.

Regards,

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

From:	Wesley_Robertson@oxy.com
Sent:	Tuesday, March 12, 2013 2:20 PM
То:	Jones, William V., EMNRD; BCollins@concho.com
Cc:	Prithi_Balaji@oxy.com; Donna_Havins@oxy.com; jcorbitt@concho.com;
	BGoodloe@concho.com
Subject:	Revised COG Cottonwood 36 SWD 1 C-108
Attachments:	cottonwood 36 swd 1 scan revised c108 12 mar 2013.pdf

Will,

As a result of the attached revision of the COG Cottonwood 36 SWD 1 C-108 limiting the injection interval to 3,595'-3,775' and 4,206'-4,550', OXY USA Inc. withdraws its protest dated January 28, 2013. Please let me know if you need any additional information.

Thanks,

Wesley Robertson, RPL Land Negotiator Occidental Oil & Gas Corporation 5 Greenway Plaza, Suite 110 | Houston, TX 77046 Office: (713) 366-5022 | Mobile: (713) 918-9064 Fax: (713) 985-4944 E-Mail: <u>Wesley_Robertson@oxy.com</u>

From: Sent: To: Subject: Ingram, Wesley <wingram@blm.gov> Thursday, January 17, 2013 3:29 PM Jones, William V., EMNRD Cottonwood 36 SWD #1

Will,

There is good Delaware production approximately 3500' away. It appears nothing was found when drilled, but there could possibly be something in the middle of the requested injection zone at the depth of the well perforations in the well 3500' away. This is one that could affect Federal leases. Also, the fact that they state that they might frac is a problem as that could definitely effect Federal minerals. Will NMOCD address these items in their standard approval? Since this is into a State lease, I will not have a chance to formally require this. If these are not items that will be addressed, the BLM will write a formal objection letter particularly with regards to the frac, but also requesting a review of all logs correlated with the offset.

Second item, OXY called this past weekend and on their Federal 12 14H, they encountered a water flow at approximately 4900'. The Yates Flamenco Federal 1 is a little less than 0.5 miles away. The flow rate is 10-15 bph. I thought this might be useful information for you.

4550 will be above THIS

Sincerely, Wesley W. Ingram Supervisory Petroleum Engineer Bureau of Land Management Carlsbad Field Office 620 E. Greene Street Phone: 575-234-5982 Fax: 575-234-5927

D Pri

From: Sent: To: Subject: Brian Collins [bcollins@marbob.com] Monday, June 28, 2010 7:46 AM Jones, William V., EMNRD Re: Disposal application from Marbob: Cottonwood 36 SWD #1 30-015-29560

Will:

Sorry I'm so late replying to your questions on the captioned well. It's been pretty hectic around here and I just now got back to this well. Hopefully I'll answer you questions here.

a. Debbie is in Brazil right now--I hope she sent you the newspaper notice. If she didn't let me know.

b. Our land department looked at lease ownership and came up with Oxy and Marbob as the Delaware rights owners. We have a deal with Chesapeake making us the operator in Section 36 where the well is.

c. The proposed well in K-36-25s-26e is 57' low in the Cherry Canyon to the Oxy producer in P-35-25s-26e. The proposed injection interval in our well is 160' above and 100' below the stratigraphic equivalent to the pay in the Oxy well. I intentionally left the Oxy pay zone out of our proposed injection interval. We can certainly put a little more vertical distance from the Oxy pay zone if you want us to.

Thanks!

Brian Collins Marbob Energy

----- Original Message --

From: Jones William V-IEMNRD From Street Str

Subject: Disposal application from Marbob: Cottonwood 36 SWD #1 30-015-29560

Brian and Debora:

a. Would you please mail or email a copy of the actual newspaper notice as posted in the paper for this well only?

b. Is it true that Oxy and Marbob are the only owners in this area and have the Delaware rights controlled?

 c. The subject well was tested non-productive in the Brushy Canyon. There is a well SW of this location that makes 3 to 6 Bopd from the Cherry Canyon. What does the subject well's structural location compare to this? In otherwords, is it lower on structure and therefore likely water bearing? The resistivity log appears lower resistivity - I believe. Does Marbob intend to swab test these new upper Cherry Canyon intervals?

Thanks again,

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:	Jones, William V., EMNRD
Sent:	Saturday, March 16, 2013 3:12 PM
То:	Brian Collins; Bobbie Goodloe (BGoodloe@concho.com)
Cc:	Ezeanyim, Richard, EMNRD; Goetze, Phillip, EMNRD; Brooks, David K., EMNRD;
	'wesley_Robertson@oxy.com'
Subject:	Disposal application from COG Operating LLC: Cottonwood 36 SWD #1 30-015-29560
	Delaware disposal

Hello Brian and Bobbie,

This well was permitted before as SWD-1226 but expired without being used for disposal, so this may be called SWD-1226-A.

I received a note from Wesley Robertson, with OXY that the protest was withdrawn with stipulation the application was revised as last sent. They had protested through an attorney and usually that same attorney should have withdrawn the protest – I will clear this with my managers here.

I am still lacking the actual newspaper notice that was published and the mailer proofs (outgoing). Also don't see that the State Land Office was noticed as the surface owner. Also hasn't Chesapeake sold interests to Chevron? If so, please send notice to Chevron.

Would you guys ask the Geo to send a top for the Cherry Canyon and the Brushy Canyon in this well?

Probably concerning the attempt to only perf water productive intervals, the BLM was asking whether you intended to frac the well – what do you think? If so, how big?

Thanks in Advance,

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

From:	Brian Collins <bcollins@concho.com></bcollins@concho.com>
Sent:	Monday, March 18, 2013 7:26 AM
То:	Jones, William V., EMNRD
Cc:	Bobbie Goodloe
Subject:	RE: Disposal application from COG Operating LLC: Cottonwood 36 SWD #1
	30-015-29560 Delaware disposal

Will:

This well is a split estate with the BLM being the surface owner and the State owning the minerals, hence no notice to the SLO. I'm not planning on fracing this well at this time. I'll get you the tops you requested. Bobbie will send you the newspaper notice and will send notification to Chevron. Thanks. ----Brian

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Saturday, March 16, 2013 3:12 PM
To: Brian Collins; Bobbie Goodloe
Cc: Ezeanyim, Richard, EMNRD; Goetze, Phillip, EMNRD; Brooks, David K., EMNRD; wesley Robertson@oxy.com
Subject: Disposal application from COG Operating LLC: Cottonwood 36 SWD #1 30-015-29560 Delaware disposal

Hello Brian and Bobbie,

This well was permitted before as SWD-1226 but expired without being used for disposal, so this may be called SWD-1226-A.

I received a note from Wesley Robertson, with OXY that the protest was withdrawn with stipulation the application was revised as last sent. They had protested through an attorney and usually that same attorney should have withdrawn the protest – I will clear this with my managers here.

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CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained

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herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

From:	Brian Collins <bcollins@concho.com></bcollins@concho.com>
Sent:	Monday, March 18, 2013 1:35 PM
To:	Jones, William V., EMNRD
Cc:	Bobbie Goodloe
Subject:	RE: Disposal application from COG Operating LLC: Cottonwood 36 SWD #1
-	30-015-29560 Delaware disposal

Will:

Here's the Delaware tops you requested:

Delaware: 1970' Cherry Canyon: 2910' Brushy Canyon: 4586' Bone Spring: 5595'

Thanks. ---Brian

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Monday, March 18, 2013 9:03 AM
To: Brian Collins
Cc: Bobbie Goodloe
Subject: RE: Disposal application from COG Operating LLC: Cottonwood 36 SWD #1 30-015-29560 Delaware disposal

Thanks Brian and Bobbie!

From: Brian Collins [mailto:BCollins@concho.com] Sent: Monday, March 18, 2013 7:26 AM To: Jones, William V., EMNRD Cc: Bobbie Goodloe Subject: RE: Disposal application from COG Operating LLC: Cottenwood 36 SWD #1 30-015-29560 Delaware disposal

OK

Will:

This well is a split estate with the BLM being the surface owner and the State owning the minerals, hence no notice to the SLO_14m not planning on fracing this well at this time. I'll get you the tops you requested. Bobbie will send you the newspaper notice and will send notification to Chevron. Thanks. ----Brian

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Saturday, March 16, 2013 3:12 PM
To: Brian Collins; Bobbie Goodloe
Cc: Ezeanyim, Richard, EMNRD; Goetze, Phillip, EMNRD; Brooks, David K., EMNRD; wesley Robertson@oxy.com
Subject: Disposal application from COG Operating LLC: Cottonwood 36 SWD #1 30-015-29560 Delaware disposal

Hello Brian and Bobbie,

This well was permitted before as SWD-1226 but expired without being used for disposal, so this may be called SWD-1226-A.

I received a note from Wesley Robertson, with OXY that the protest was withdrawn with stipulation the application was revised as last sent. They had protested through an attorney and usually that same attorney should have withdrawn the protest – I will clear this with my managers here.

I am still lacking the actual newspaper notice that was published and the mailer proofs (outgoing). Also don't see that the State Land Office was noticed as the surface owner. Also hasn't Chesapeake sold interests to Chevron? If so, please send notice to Chevron.

Would you guys ask the Geo to send a top for the Cherry Canyon and the Brushy Canyon in this well?

Probably concerning the attempt to only perf water productive intervals, the BLM was asking whether you intended to frac the well – what do you think? If so, how big?

Thanks in Advance,

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

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	State	i.
	7 3/15/13	
	Injection Permit Checklist: Received First Email Date: Final Reply Date: 2/1810 Final Notice Date: Final Reply Date: Final Reply Date: Final Notice Date: Final Notice Date: Final Reply Date: Final Notice Date: Final Reply Final Re	
	# Wells _ Well Name(s): Co TION wood 36 500 # 1	
	API Num: 30-0 5-29560 Spud Date: 5/18/97 New/Old: N (UIC CI II Primacy March 7, 1982)	
	Footages 1980 F5 L/1980 Fullot Unit K Sec 36 Tsp 255 Rge 26 E County EDDY	
	General Location or Pool Area: S. of WHTE CITY	
	Operator: Cos OPERATING LLC Contact Bring Coughs	·
	OGRID 229137 RULE 5.9 Compliance (Wells) 93454 (Finan Assur) DKIS 5.9 OK? OK	
	Well File Reviewed Current Status: EXPIRED Swp PEA well	
	Planned Work to Well: Recitar/ mitall Topfer 2"	S
	Diagrams: Before ConversionAfter ConversionAre Elogs in Imaging?:	
	Sizes Setting Stage Cement Cement Top and Well Details: HolePipe Depths Tool Sx or Cf Determination Method	
	Planned_or Existing Surface 17/2 13(8 353 - 390 CIRC	
	Planned or Existing Interm 12/4 85/8 1860 1005x CIRS	
	Planned or Existing Longet - 78 5/2 300-5850 - 650 5X CBL(3100)	
	Planned_or Existing _ Liner	
	Planned_or Existing _ OpenHole	
	Depths/Formations: Depths, Ft. Formation Tops?	
	Above 1970 Del	
	Above 2910 Changes 1	
	Proposed Interval TOP: 5595 Chory, Max. PSI 719 OpenHole Perfs	
	Proposed Interval BOTTOM: 4550 Chory C. Tubing of 3/2 Packer Depth	· ·
	Below 4586 Brush A	·
-		
	Gapitan Reef? (in/thru); Retastr?Notioed?WIPP?Notiood?}Salado TopBotOliff House?	
	Fresh Water: MaxDepth:FW FormationWells?	
	Disposal Fluid: Formation Source(s)On LeaseOnly from OperatorOr Commercial	
		>
	Disposal Interval: Protectable Waters? NOH/C Potential: Log //Mudlog_/DST_/Tested_/Depleted_Other	,
B	Notice: Newspaper Date 1/16/13 MineralOwnerSurface OwnerN. Date 3/14/13	- AR
5	RULE 26.7(A) Identified Tracts? Affected Persons: OXY MOO CHOMPARE AND TO N. Date 3 19713	
	AOR: Maps? Well List? Producing in Interval? No Formerly Produced in Interval? No	
	PenetratingNo. Active WellsNum Repairs?	
	PenetratingNo. P&Aed Wells O Num Repairs? O on which well(s)? Diagrams?	
	Permit Conditions: Sur AB Tost (uppor Parf Sol)	۰.
	Issues:	