ERANARY >

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

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



		ADMINISTRATIVE APPLIC	ATION CHECKLIST	
•	THIS CHECKLIST IS N	IANDATORY FOR ALL ADMINISTRATIVE APPLICATION WHICH REQUIRE PROCESSING AT THE I		GULATIONS
Appli	ication Acronym	s:		
	DHC-Dow PC-Pd	ndard Location] [NSP-Non-Standard Pror nhole Commingling] [CTB-Lease Comm ool Commingling] [OLS - Off-Lease Stor [WFX-Waterflood Expansion] [PMX-Pre [SWD-Salt-Water Disposal] [IPI-Inj lified Enhanced Oil Recovery Certificatio	ningling] [PLC-Pool/Lease Comminglin age] [OLM-Off-Lease Measurement] essure Maintenance Expansion] ection Pressure Increase]	al of the second
[1]	TYPE OF AI [A]	PPLICATION - Check Those Which Appl Location - Spacing Unit - Simultaneous I NSL NSP SD		8/B 8XX
	Checl [B]	Commingling - Storage - Measurement DHC CTB PLC	PC OLS OLM (SSVE	> lateral and a
	[C]	Injection - Disposal - Pressure Increase - WFX PMX SWD	IPI 🗌 EOR 🔲 PPR) Perk
	[D]	Other: Specify		Jame Joseph
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Wh Working, Royalty or Overriding Roy	nich Apply, or □ Does Not Apply yalty Interest Owners	19 2956
	[<u>B</u>]	☐ Offset Operators, Leaseholders or S	urface Owner	
	[C]	Application is One Which Requires	Published Legal Notice	
	[D]	Notification and/or Concurrent App U.S. Bureau of Land Management - Commissioner of P	roval by BLM or SLO ublic Lands, State Land Office	
	[E]	For all of the above, Proof of Notific	cation or Publication is Attached, and/or,	
	[F]	Waivers are Attached		
[3]		CURATE AND COMPLETE INFORM. ATION INDICATED ABOVE.	ATION REQUIRED TO PROCESS TI	не түре
	val is accurate a	TION: I hereby certify that the information and complete to the best of my knowledge. quired information and notifications are sul	I also understand that no action will be ta	
	Note	Statement must be completed by an individual w		
-	N COLLINS	- I'mi Me	SENIOR OPERATIONS ENGINEER	10 Jan 13
Print	or Type Name	Signature	Title	Date
			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:

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

128/13 Of Property 4555-165

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,

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

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. · ;	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
•	가는 함께 보고 있는 사람들은 사람들이 많아 있다면 하는 사람들이 되었다. 그런 사람들이 가는 사람들이 되었다. 그는 사람들이 되었다면 하는 것이다. 그는 사람들이 다른 사람들이 되었다면 하는 것이다.
II.	OPERATOR: COG OPERATING LLC
	ADDRESS: 2208 W. Main Street, ARTESIA, NM 88210
	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.
IV.	Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed;
	 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	1. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: BRIAN COLLINS TITLE: Senior Operations Engineer .
	SIGNATURE: DATE: 12 Mar 2013
• : ·	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:
	大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大

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 ½" casing from 3014' to surface and cement the 5 ½" 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
 - 3. 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.

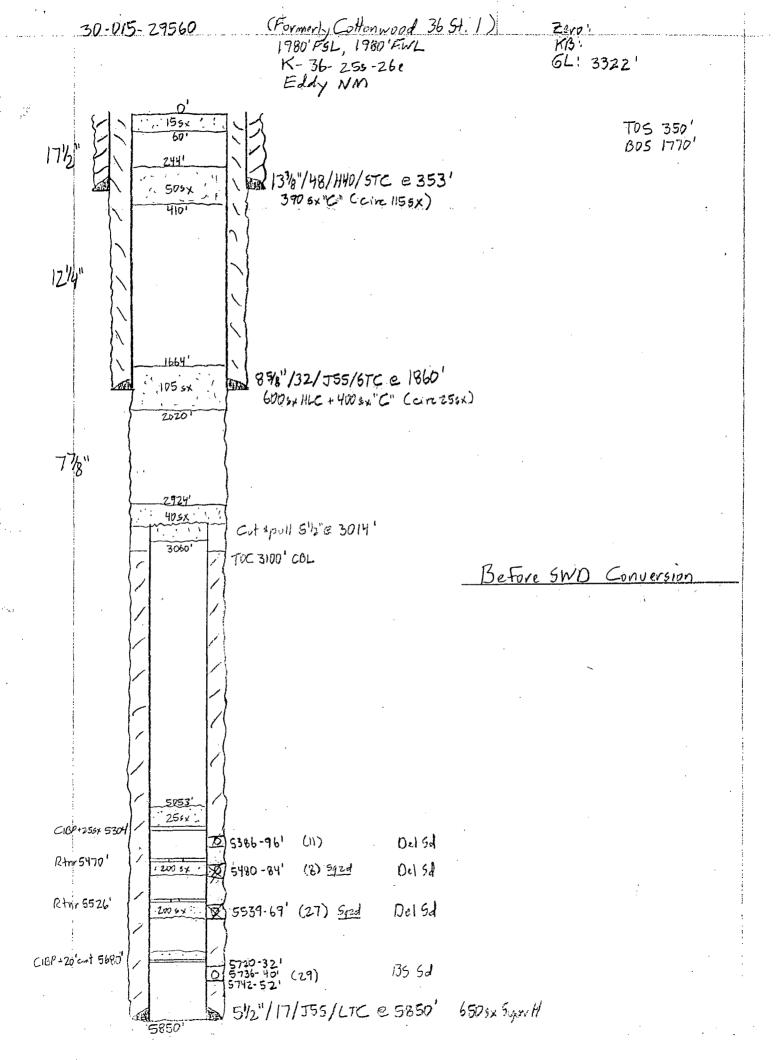
WELL DATA

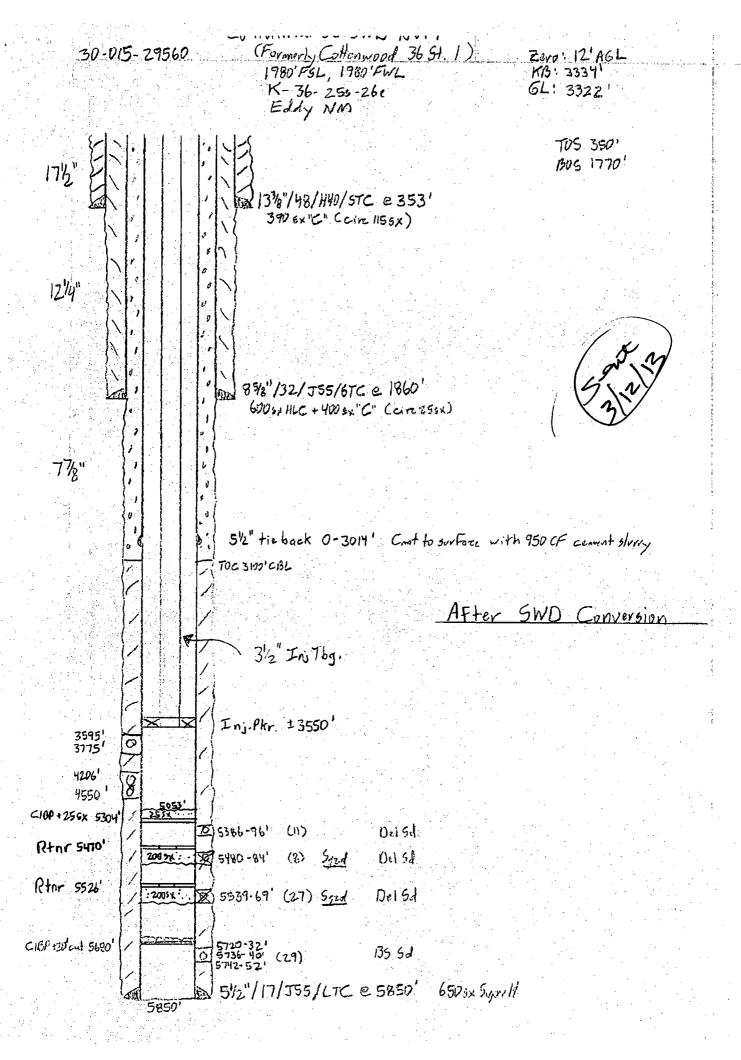
INJECTION WELL DATA SHEET

OPERATOR: COG Operating, LLC	CTION WEDE DATA 3	(ABE)		
WELL NAME & NUMBER: Co Han wood 36 51	WD No. 1 (forme	oly Cotton wood	36 State 1)	
WELL LOCATION: 1980' FWL FOOTAGE LOCATION	K UNIT LETTER	36 SECTION	<u>25s</u> TOWNSHIP	26e RANGE
<u>WELLBORE SCHEMATIC</u>	Hole Size	WELL C Surface 71/21		
	Cemented with:	390 sx.	or <u> </u>	ft ³
Schematics	Top of Cement:	Intermedia		Live Jaka
	Hole Size:	2'14" 1000 sx.	Casing Size: 85/1	
	Top of Cement: _	Suy Fares Production	Method Determined n Casing	1: <u>Circulate</u> d
		7⁄g" 650 sx.		` <u>3014 - 585</u> 0 n³
	Top of Cement:	3100'	or	
	Total Depth:	Injection		
	<u>3595- 377</u>	Perforated by Open I	t to <u>4206-455</u>	

INJECTION WELL DATA SHEET

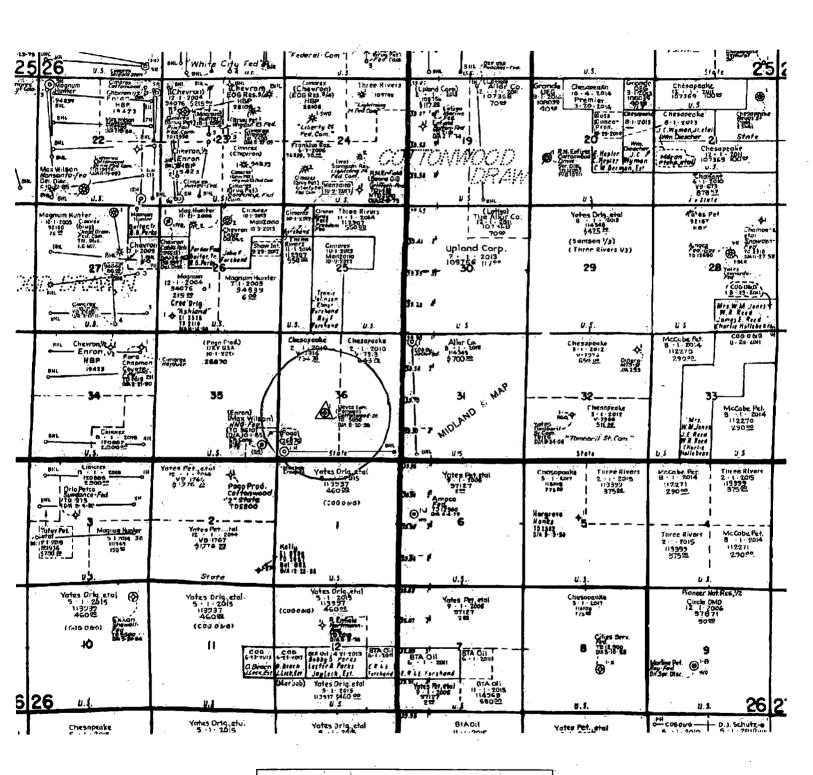
Tub	oing Size: 27/8" or 31/2" Lining Material: IPC or Duoline 20	•
Туј	pe of Packer: 10K nickel coated double grip retreivable	
	ker Setting Depth: ± 3950	
Otł	ner Type of Tubing/Casing Seal (if applicable):	
	Additional Data	
1.	Is this a new well drilled for injection?YesXNo	
	If no, for what purpose was the well originally drilled? Dil and gas.	
2.	Name of the Injection Formation: Delaware Sand	
3.	Name of Field or Pool (if applicable): Cotton wood Draw	
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' rai	nge Zmiles + away,
	Willin P-35-255-26e 4758-4973' Will in E-6-265-27e 4	
	Underlying: Bono Spring 6050'-6500', Wolfcam 9240-9935', U. Penn / Atoka 11342-11354', Morrow 11483-12263'	





V.

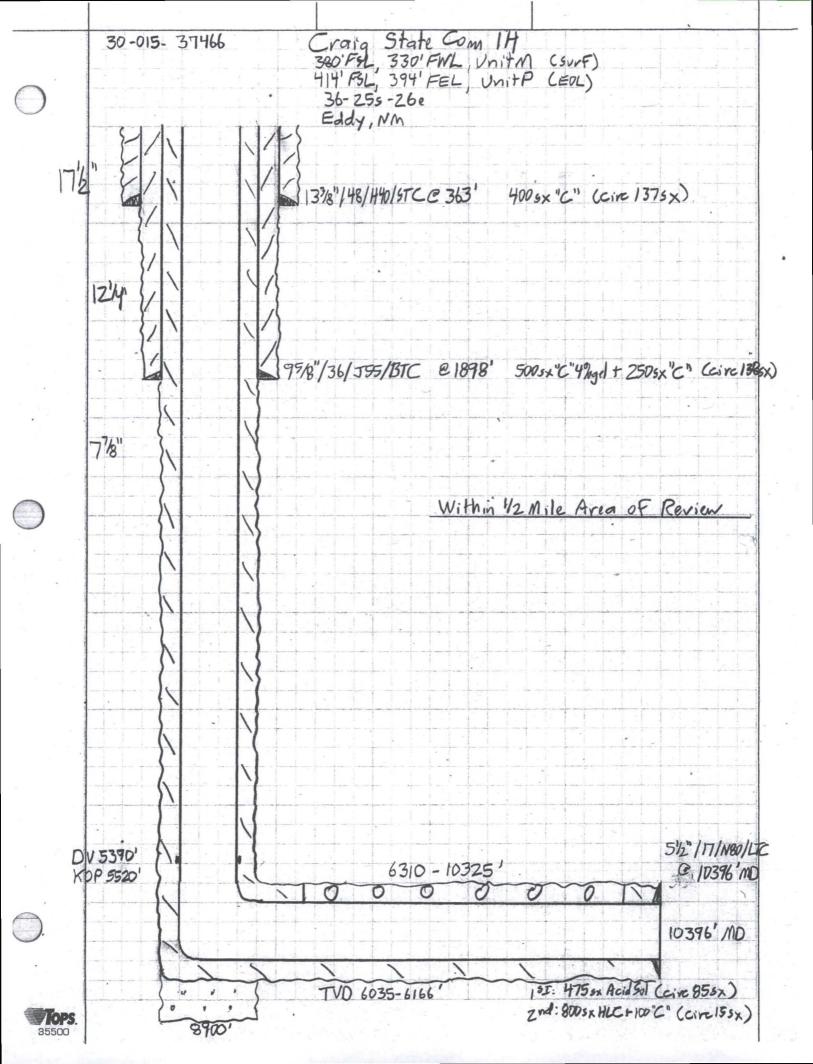
MAP



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

VI.

Wells Penetrating
Proposed Disposal
Interval Within Half
Mile Area of Review



VII.

Water Analysis Produced and Receiving Formation Water

			T	1								T
WATER SAM	PLES REPRESENTATIVE OF W	ATER BEING INJE	CTED INTO THE	PROPOSEI	D SWD·WELL							
								D-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				
Bone Spring	- ·								ļ			
Lab Test #	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	pН	conductivity	Ca (mg/L)	Ma (ma/L)
2011128832	Craig St. Com	1H	William D Polk			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	ρH	conductivity	Ca (mg/L)	Mg (mg/L)
2011128361	Chicken Hawk State	1	William D Polk	9/28/2011	9/13/2011	1.12	3.17	189454.89			4133.30	Manager and the control of the contr

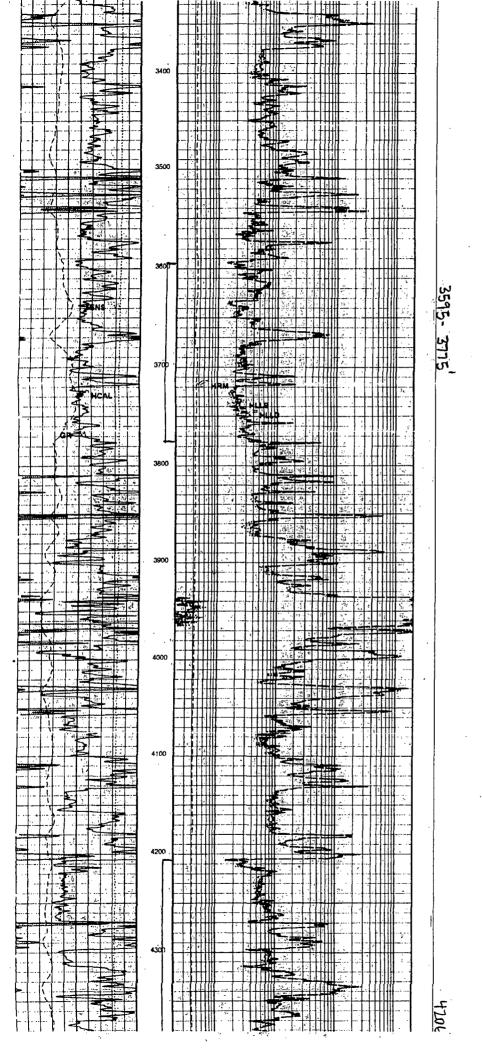
- Water Sample Representative of Receiving Formation Water

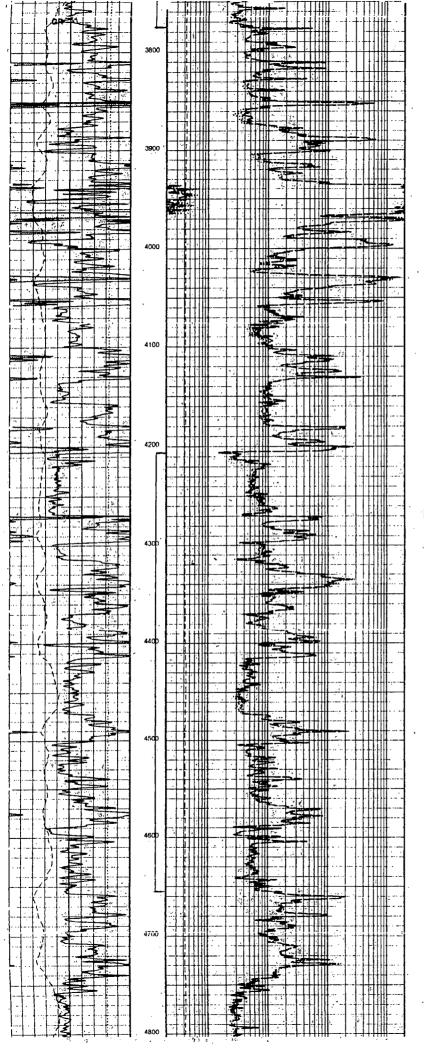
IH (じゃししろ)	Na (ma/l)	K (ma/l)	7n (ma/l)	Fe (ma/l)	Ba (ma/L)	Sr (mall)	Mn (ma/l)	Popietivity	HCO3 (ma/L)	CO3 (ma/l)	OH (ma/l)	SOA (mall)	·Cl (/l)	002 (//	1120 (
9171.56	55296.00	815.00	ZII (IIIg/L)	0.32	2.00	403.00	0.18	Resistivity	HCO3 (mg/L) 1220.00	0.00	OH (Mg/L)		134000.00		0.00
TH (CaCO3)	Na (mg/L)	,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 (mg/L)	SO4 (mg/L)	CI (mg/L)	CO2 (mg/L)	H2S (ma/l
13854.58	69462.63	1056.00	37.48	2.25	0.00	468.07	0.00		1220.00	0.00		950.00	111400.00		17.00

X.

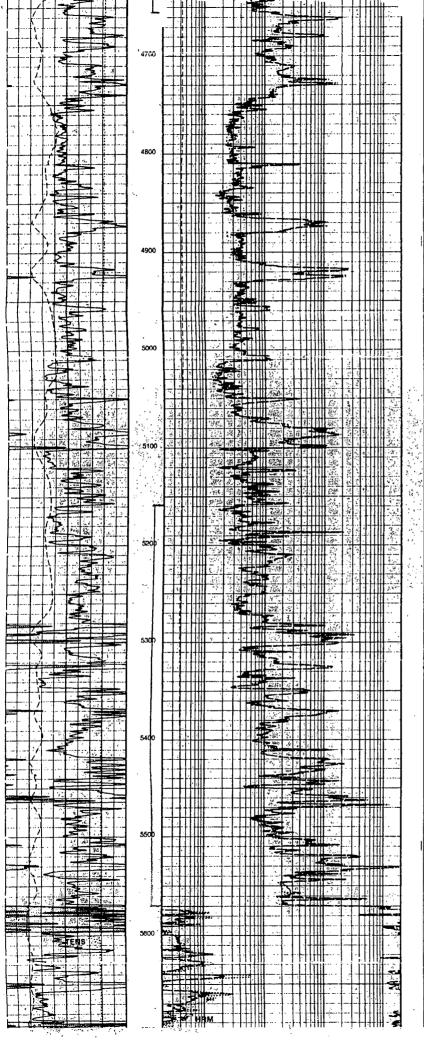
Resistivity Log Across Proposed Delaware Sand Injection Interval

ರ್ಷ-೧೯೬೮ ಕನ್ನಡ ಚೆಕ್ಕೆ ಬಹುದು ಮುಂದು	그러워 있었다. 그는 그는 그는 그는 그는 그는 그들은 그들은 그는 그를 보는 것이 없었다.		
7	34.		
COMPANY: Penwell Energy Incorporated	Run to Forn 2 Bun 3 Bun 4		
WELL: Cottonwood '36' State #1			
FIELD: Cottonwood Draw - Delaware		0 20 000	
CTATE. Nov. 65 avice		AI g 型が背直に回り物 しょうかい はっしょう はっしょう しょうしょう しょうしょう	
COUNTY: Eddy STATE: New Mexico			α 2
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Schlumberger MCFL/Gamma Ray			2
Schlumberger MCFL/Gamma Ray 1980 FWL and 1980 FSL		S. HAN WARE	2
≥ ≥ ≥ O Permanent Datum: Ground Level Elev.: 3322 F		STAN BROWN CONTROL OF THE CONTROL OF	Ē
9 6 8 6 Permanent Datum: Ground Level Slev: 3322 F Log Measured From. Kefy Bushing 12.0 5 above Perm. Datum.		SE PO DE 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3
APISE APISE SECTION TOWNSHIP RANGE		TO WATERWAYER THAN THAT ALL TH	3
ogging Date 31 May 1897	Logging Date	A WOOD ON THE PROPERTY AND THE PROPERTY	-
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ype Fluid In Hoje Cut Brine : Starch OCU - MILLS IN	Bit Size Type Fluid in Hole	\$ 68 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	OUIPMENT COUIPMENT
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Arculation Stopped Time 31-May-1997 0530	Circulation Stoppord Time Logger On Boncin. Time	日本 ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	AB 12 UA 12 AB
Jeit Number Location 2005 Roswell NM Seconded By Tony DePuties Vanessed By Corky Stewart	Unit Number Locabor. Recorded By Wenessed By	2002 0021 0021 0031 0031 0031 0031 0031	CONSTRUCTS CONSTRUCTS
1 NOTE OF THE STATE OF THE STAT	Transactory		
•			*





4206- 46541.



5158 - 5569

XI.

Fresh Water Sample Analyses



Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 30, 31

Township: 25S

Range: 27E

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.



Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 6

Township: 26S

Range: 27E

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.



Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

(quarters are smallest to largest) (NAD83 UTM in meters)

	(acre ft pe	r annum)		C=the file is closed)	(quarte	rs are sn	nallest	to largest)	(NAD83 UTM	in meters)
	Sub					qqq		716		
WR File Nbr	basin Use Diversi	ion Owner	County POD Number	Code Grant		6416 4	Sec	フリタ Tws Rng	X	Y
<u>C 00974</u>	C DOM	3 CARLSBAD CITY SCHOOLS	ED <u>C 00974</u> Correction	cation Sec 35-215-26e				25 9 26E	569074	3549831*
<u>C 01013</u>	C DOM	3 BILLIE B CHESTER	ED C 01013 Correct	location Sec 25-225-	26 e ^{Shallow}	4	25 (22 <i>5</i> 25S 26E	571505	3551456*
<u>C 02220</u>	CUB PLS	3 FOREHAND RANCHES INC.	ED <u>C 02220</u> 35' deep	1911 70 60 6 1 1	1	3 1 2	26	25S 26E	569598	3552352*
C 02221	CUB PLS	3 FOREHAND RANCHES INC	ED <u>C 02221</u> 35' dep	1914) Outside Imile area of revi	, radius iew	4 3 2	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

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.



Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Υ

C 02220

3 1 2 26 25S 26E

569598 3552352*

Driller License:

Driller Name:

S O PAXTON

Drill Start Date:

Drill Finish Date:

05/01/9111

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 7

Casing Size:

7.00

Depth Well:

35 feet

Depth Water:

*UTM location was derived from PLSS - see Help



Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

C 02221

Q64 Q16 Q4 Sec Tws Rng

X

3 2 25 25S 26E

571412 3551961*

Driller License:

Driller Name:

J D FOREHAND

Drill Start Date:

Drill Finish Date:

11/15/1914

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 7

Casing Size: 6.50

Depth Well:

35 feet

Depth Water:

*UTM location was derived from PLSS - see Help



Active & Inactive Points of Diversion

(with Ownership Information)

No PODs found.

PLSS Search:

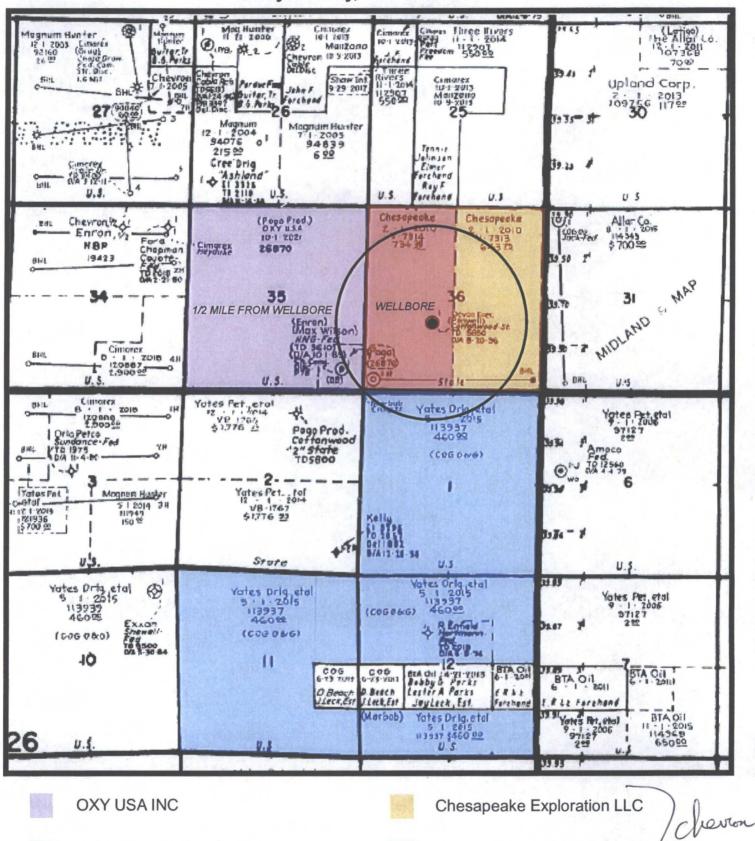
Section(s): 1, 2

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, or suitability for any particular purpose of the data.

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





Abo Petroleum Corp; MYCO Industries COG Operating; OXY Y-1 Company

Chesapeake Exploration LLC

Chesapeake Exploration LLC



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,

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

Danny Scott Danny Scott Danny Scott Deing 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 Third Publication Fourth Publication Fourth Publication Subscribed and sworn to before me this 16th day of January 2013 OFFICIAL SEAL Latisha Romino NOTARY PUBLIC-STATE OF NEW MEDICO My commitssion expires: 5 1 2 2 5 15	NO. 22431
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 Third Publication Third Publication Fourth Publication Subscribed and sworn to before me this 16th day of January 2013 OFFICIAL SEAL Latisha Romine MOTARY PUBLIC-STATE OF NEW MEXICO	STATE OF NEW MEXICO
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 First Publication Third Publication Fourth Publication Fourth Publication Subscribed and sworn to before me this 16th day of January 2013 OFFICIAL SEAL Latisha Romine MOTARTY PUBLIC STATE OF NEW MEXICO	County of Eddy:
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 Fourth Publication Subscribed and sworn to before me this 16th day of January 2013 OFFICIAL SEAL LAILING ARTHURLIC-STATE OF NEW MEDICO	Danny Scott / Janny Scar
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Fifth Publication Subscribed and sworn to before me this 16th day of January 2013 OFFICIAL SEAL Latisha Romine NOTARY PUBLIC STATE OF NEW MEXICO	Third Publication
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16th day of January 2013 OFFICIAL SEAL Latisha Romine NOTARY PUBLIC-STATE OF NEW MEXICO	Fifth Publication
OFFICIAL SEAL Latisha Romine NOTARY PUBLIC-STATE OF NEW MEXICO	Subscribed and sworn to before me this
Latisha Romine NOTARY PUBLIC-STATE OF NEW MEXICO	16th day of January 2013
	Latisha Romine NOTARY PUBLIC-STATE OF NEW MEXICO

Notary Public, Eddy County, New Mexico

Copy of Publication:

LEGAL NOTICE

COG Operating LLC: 2208 W. Main, Artesia, New Mexico, 88210, has filed Form C108 (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 Cottorwood 36 SWD #1, is located 1980T-SL 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', 42A6-4654' 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 call575-748-6940.

Published in the Artesia Daily Press, Artesia, N.M., Jan. 16, 2013. Legal No 22431.

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 mailplece.	A Signature X
Attach this card to the back of the maliplece, or on the front if space permits. 1. Article Addressed to: Attn: William V. Jones NM Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505	D. Is delivery address different from 1?
2. Article Number 7.11.1, 1.52	0 0000 7781 4827
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ARTESIA NWI 60210	Certified Mall
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Cherron USA. Inc P.O. BOX 2100 Houston, TX 7725]	3. Service Type Certified Mail Registered Insured Mail C.O.D.
P.O. BOX 2100 Houston, TX 7725]	3. Service Type Certified Mali Express Mail Registered Return Receipt for Merchand Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee)
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HOUSTON TX 77210	3. Service Type
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January 9, 2013

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

RE: Application For Authorization To Inject

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,

Brian Collins

Senior Operations Engineer

BC/bg Enclosures



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

Re: Application For Authorization to Inject

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,

Brian Collins

Senior Operations Engineer



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

Re: Application For Authorization to Inject

Cottonwood 36 SWD #1

Township 25 South, Range 26 East, N.M.P.M.

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

Sincerely,

Brian Collins

Senior Operations Engineer



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

Re: Application For Authorization to Inject

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,

Brian Collins

Senior Operations Engineer



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

Re: Application For Authorization to Inject

Cottonwood 36 SWD #1

Township 25 South, Range 26 East, N.M.P.M.

Section 36: 1980' FSL & 1980' FWL

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Sincerely,

Brian Collins

Senior Operations Engineer



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

Re: Application For Authorization to Inject

Cottonwood 36 SWD #1

Township 25 South, Range 26 East, N.M.P.M.

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Sincerely,

Brian Collins

Senior Operations Engineer



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

Re: Application For Authorization to Inject

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Township 25 South, Range 26 East, N.M.P.M.

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Sincerely,

Brian Collins

Senior Operations Engineer



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

Re: Application For Authorization to Inject

Cottonwood 36 SWD #1

Township 25 South, Range 26 East, N.M.P.M.

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Sincerely,

Brian Collins

Senior Operations Engineer



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

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Cottonwood 36 SWD #1

Township 25 South, Range 26 East, N.M.P.M.

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

Sincerely,

Brian Collins

Senior Operations Engineer



March 14, 2013

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

RE: Application For Authorization To Inject

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,

Brian Collins

Senior Operations Engineer



March 14, 2013

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

Re:

Revisions to Original Application For Authorization to Inject

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,

Brian Collins

Senior Operations Engineer



March 14, 2013

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

Re: Revised Application For Authorization to Inject

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,

Brian Collins

Senior Operations Engineer

GALLAGHER & KENNEDY

— P.A. –

LAW OFFICES

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

Application for Authorization to Inject

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

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.

By:

Dalva L. Moellenberg

cc:

Brian Collins, COG Operating LLC

From:

Jones, William V., EMNRD

Sent:

Tuesday, January 29, 2013 8:36 AM 'dlm@gknet.com'; Brian Collins

To: 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

To: 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,

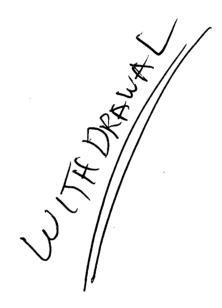
As a result of the attached revision of the COG Cottonwood 36 SWD 1 C-108 limiting the injection interval to 3,595'-3,775' and 4,206'-4,550', OXY USA Inc. withdraws its protest dated January 28, 2013. Please let me know if you need any additional information.

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: Wesley Robertson@oxy.com



From:

Ingram, Wesley <wingram@blm.gov>

Sent:

Thursday, January 17, 2013 3:29 PM

To: Subject: 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 reaful information for you

bph. I thought this might be useful information for you.

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

5. O Gul Johnson

From:

Brian Collins [bcollins@marbob.com]

Sent:

Monday, June 28, 2010 7:46 AM Jones, William V., EMMRD

To: Subject:

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 ----

To: <u>Debora Wilbourn</u>; <u>Brian Collins</u> Sent: Tuesday, June 08, 2010 3:38 PM

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

To: 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>

Sent:

Monday, March 18, 2013 7:26 AM

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:

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

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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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From:

Brian Collins < 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: 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 L'monot 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. Nanks. ----Brian

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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

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Injection Permit Checklist: Received	First Email Date:	Final Rep	ly Date: 3/18/5 Final I	Notice Date: 3/18/1/3	
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Operator: COG OPERATING LLC CONTACT Bring COMINS					
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Notice: Newspaper Date 1/16 13 MineralOwne	rSurfac	e Owner_<	DE VY	N. Date 3/14/13	
RULE 26.7(A) Identified Tracts? Affected Pers	ons: OXY / ANO	Apren	REENID. ELS	N. Date 3 1313	
AOR: Maps? Well List? Producing in Interval? No Formerly Produced in Interval? No					
PenetratingNo. Active Wells Num Repairs? On which well(s)?					
PenetratingNo. P&Aed Wells O Num Repairs? O on which well(s)? Diagrams?					
Permit Conditions: Sur AB Tall (2) Par Part Sat					
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