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		[C]	⊠ Ap	plication is One V	Vhich Requires I	Published	d Legal No	otice		
		[D]	□ No	tification and/or C Bureau of Land Manageme	Concurrent Appront - Commissioner of Pu	oval by E	BLM or SI tate Land Office	LO		
		[E]	⊠ Fo	all of the above,	Proof of Notific	ation or l	Publication	n is Attache	ed, and/or,	
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		Note: \$	Statement	must be completed t	y an individual wit	h manage	rial and/or s	upervisory ca	apacity.	

Land Advisor
Title Dean Chumbley Print or Type Name 11/23/10 Date

dchumbley@conchoresources.com e-mail Address

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

### **APPLICATION FOR AUTHORIZATION TO INJECT**

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: COG Operating LLC
	ADDRESS: 2208 W. Main Street
	CONTACT PARTY: Dean Chumbley PHONE: 575-748-6948
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:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol>
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Dean Chumbley TITLE: Land Advisor
	SIGNATURE: DATE: 11/23/10
*	E-MAIL ADDRESS: dchumbley@conchoresources.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: 8/27/09

### C-108 Application for Authorization to Inject MYOX 21 SWD #1 1980' FNL, 660' FWL E-21-T25S-R28E, Eddy County

Marbob Energy Corporation proposes re-enter the captioned well for salt water disposal service into the Delaware Sand from 3500' to 4850'.

- V. Map is attached.
- VI. One well within the ½ mile radius area of review penetrates the proposed injection zone. 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 = 700 psi (0.2 psi/ft. x 3500' 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 source wells are attached.
- VIII. The injection zone is the Delaware Sandstone, a fine-grained sandstone from 3500' to 4850'. Any underground water sources will be shallower than 532'.
  - IX. The Delaware sand injection interval will be acidized with approximately 20 gal/ft of 7 ½ % HCl acid. If necessary, the injection interval may be fraced with up to 300,000 lbs. of 20/40 mesh sand.
  - X. Well logs are filed with the Division. A section of the dual laterolog resistivity log showing the injection interval is attached.
  - XI. There is one fresh water well within a mile of the proposed SWD well. Water analysis from the well is attached.
- 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.

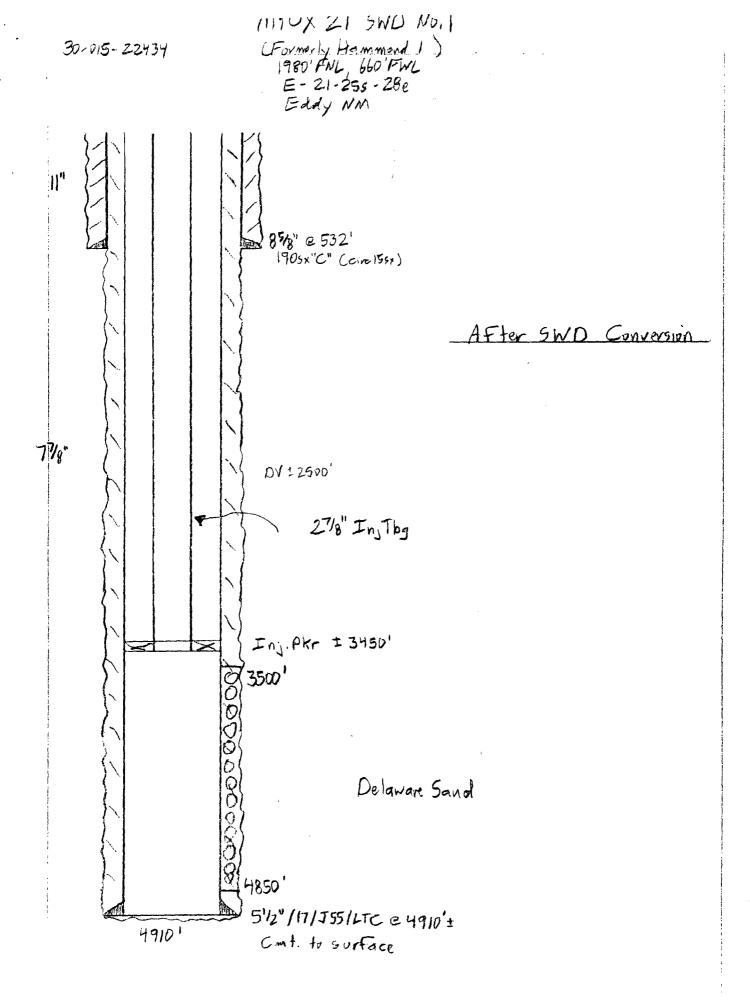
# INJECTION WELL DATA SHEET

OPERATOR: Marbob Energy Carp	WELL NAME & NUMBER: MYOX 21 SWD No. 1 (Formirly Hammond 1)	FWL E 21 255	FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE	WELLBORE SCHEMATIC Surface Casing	See affached before and after Hole Size: 11 Casing Size: 85/8" @ 532'	Schematics. /Harboo proposes Cemented with: 190 sx. or fi	Enter This Well clean out to Top of Cement: Surface Method Determined: Circulated	Till , ron 372 casing and convert to SWD in the Delaware 3500-4850!	Hole Size:	Cemented with: Sx. or tt <sup>3</sup>	Top of Cement:	<u>Production Casing</u>	Hole Size:	Cemented with: Sx. or ft <sup>3</sup>	Top of Cement: Method Determined:	Total Depth: 4910'	Injection Interval	3500' feet to 4850'
OPERATOR:	WELL NAME &	WELL LOCATI		,	See allac	U Se % at 10	to reented	to SWD in										

(Perforated or Open Hole; indicate which)

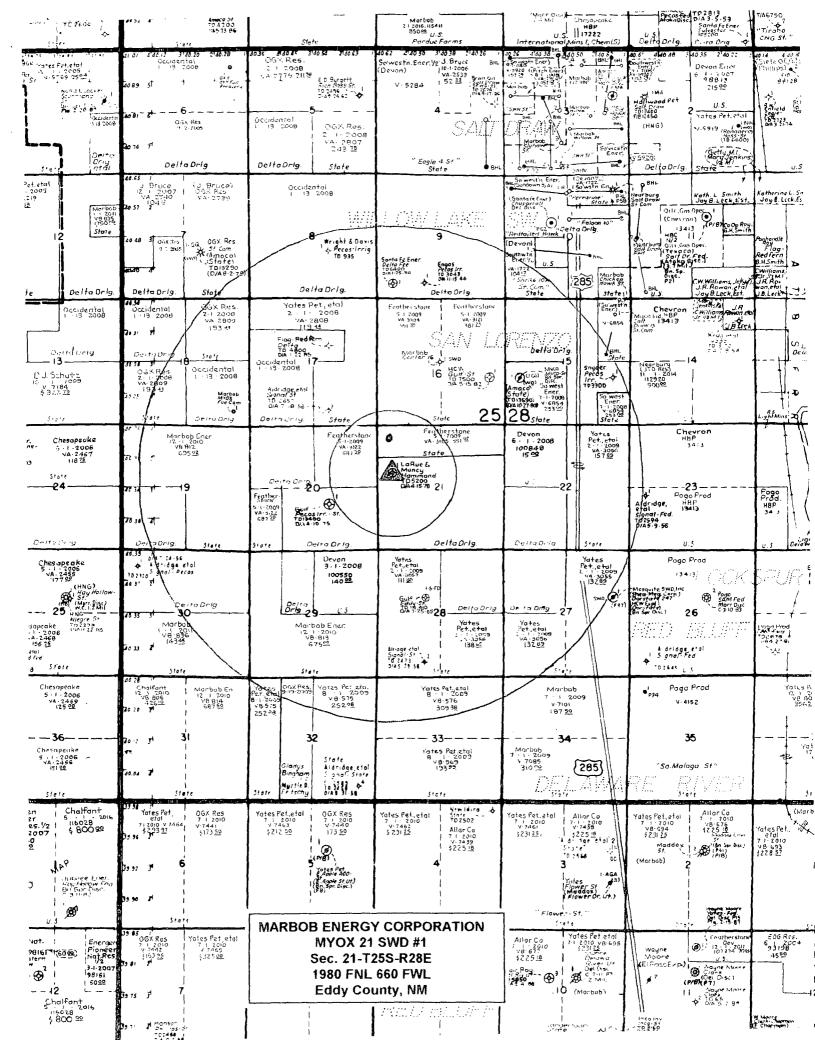
# INJECTION WELL DATA SHEET

Tubing Size: 27/8" Lining Material: IPC or Duoline 20	atel plated do	Facker Setting Depth: 3750 . Other Type of Tubing/Casing Seal (if applicable): 1/1/4	Additional Data	1. Is this a new well drilled for injection?	If no, for what purpose was the well originally drilled? Oil and ads	2. Name of the Injection Formation: Delaware Sand	3. Name of Field or Pool (if applicable): Sain Loren 20	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 wellbore schematic	5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:	Underlying, Possible Bone Spring 6500-8500', Passible Poun I 10500'	Possible Strawn I 11800, Possible Atoka =12,100'	Possible Morrow = 12,500'	Overlying: None
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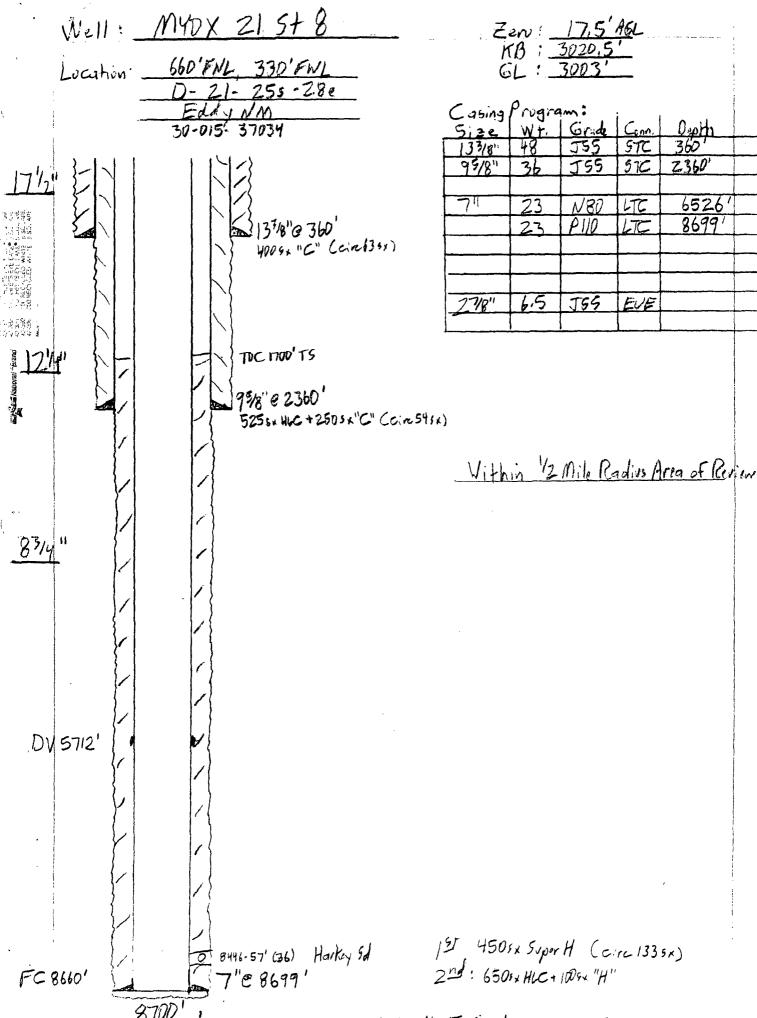
V.

MAP



# VI.

# Wells Within ½ Mile Radius Area of Review That Penetrate Proposed Injection Zone



Chili HITT

# VII.

# WATER ANALYSIS



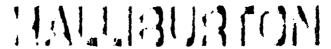
## PERMAIN BASIN OPERATIONS LABORATORY WATER ANALYSIS REPORT HOBBS. NEW MEXICO

COMPANY	Marbob			<u> </u>		* *	REPOR' DATE DISTRIC		W09-055 July 12, 20 Artesia	09	
SUBMITTED BY		g gelegia de la companya de la comp		/eldw.	inter	yelver		ann an an an ann an an an an an an an an		N. J. 140 - N. 140 -	
WELL COUNTY TANK			DEPTH FIELD	P			FORMA SOURC		and the state of t	*	
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ANALYST			
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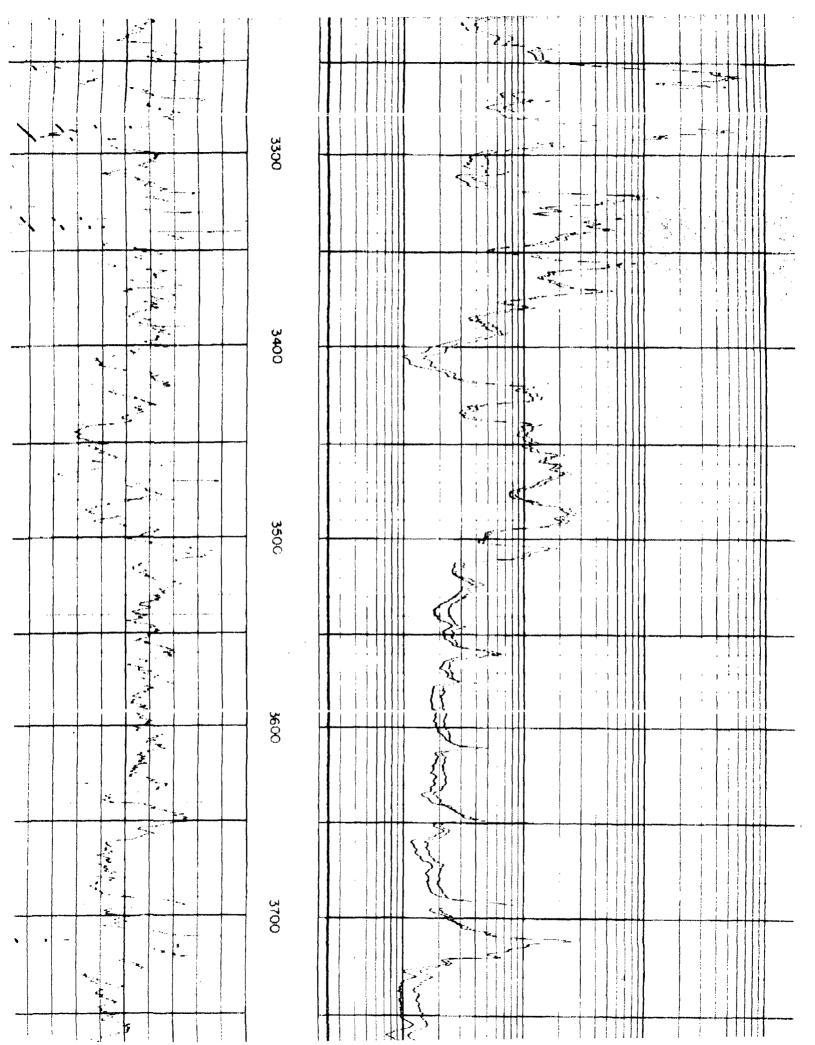
# Dual Laterolog Across Across Proposed Delaware Sand Portion of Injection Interval

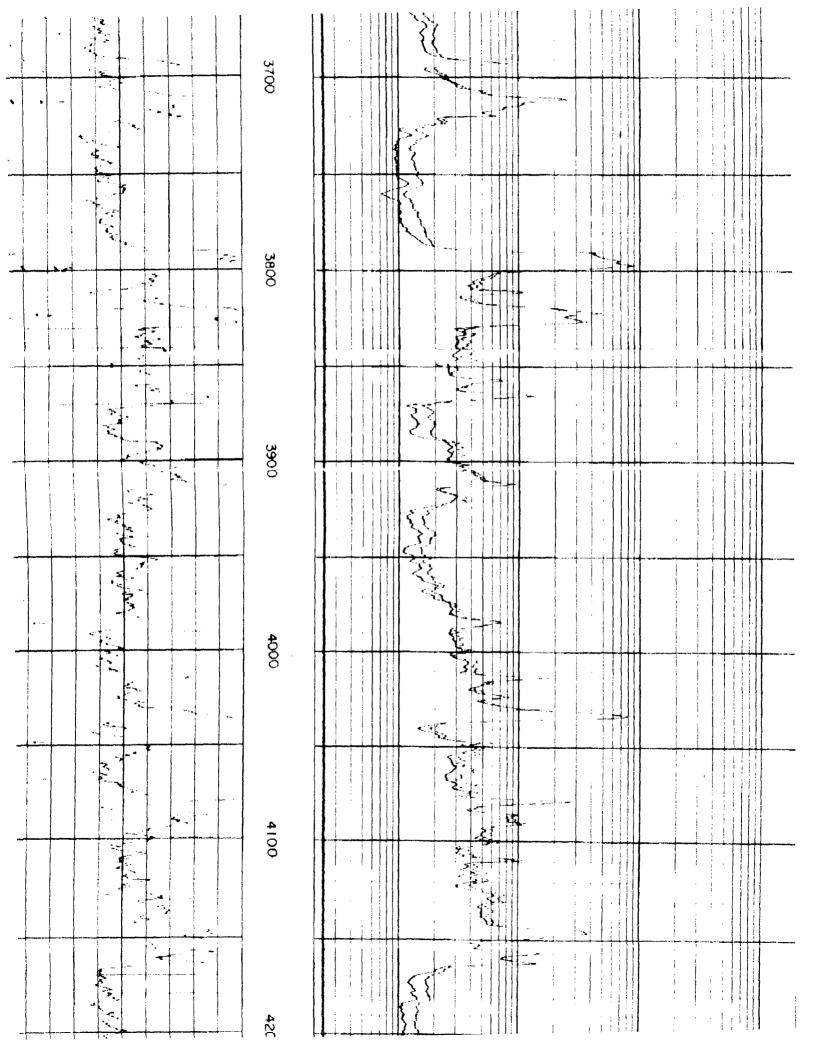
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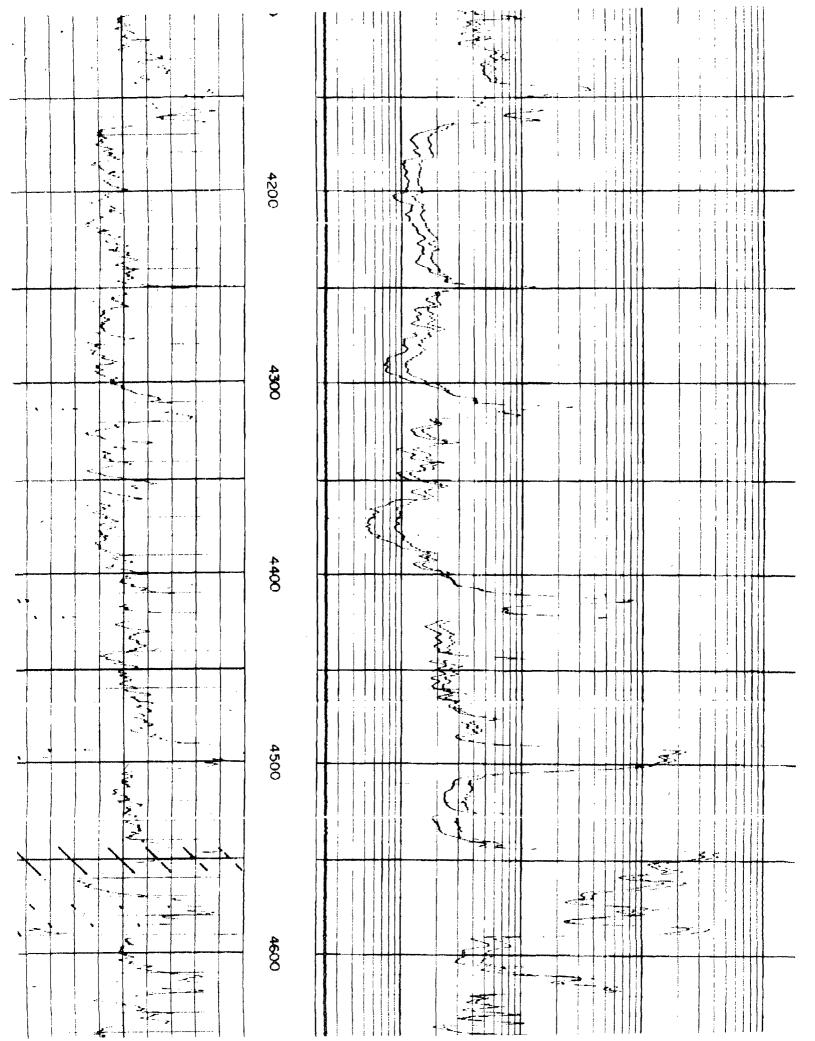
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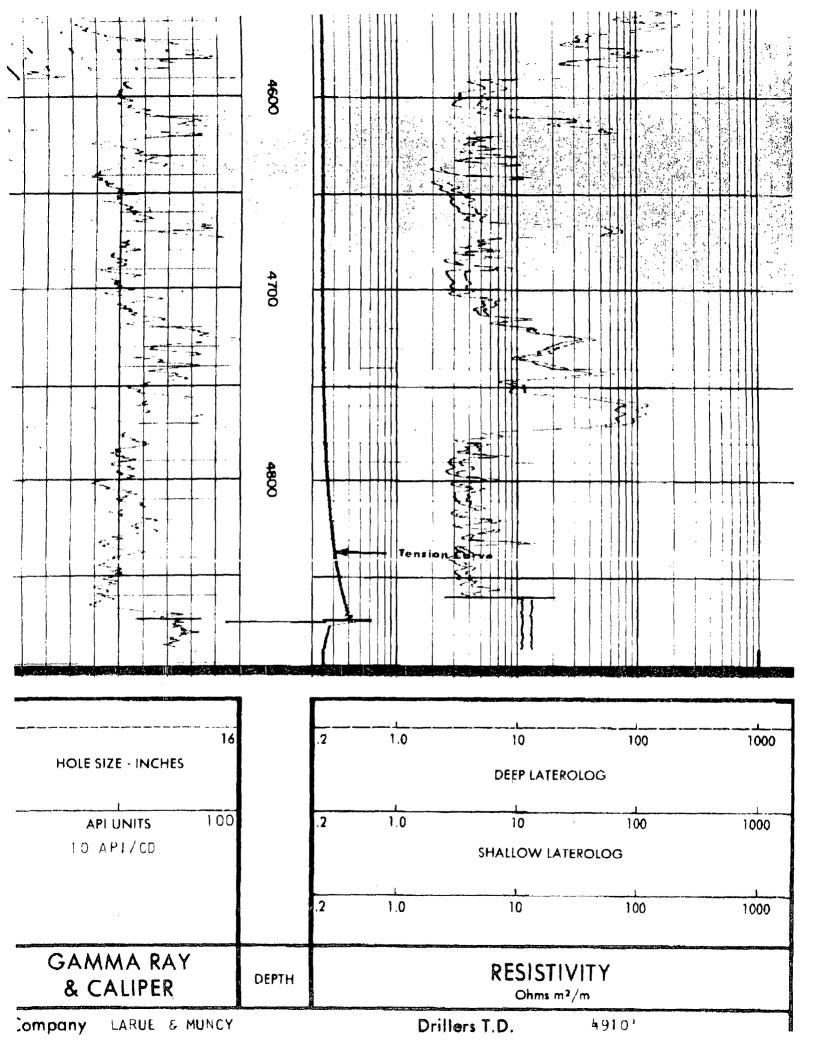
ETECTOR LENGTH 6"

BEAM WIDTH 214"









# XI.

# Fresh Water Sample Analyses

## HALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY
WATER ANALYSIS REPORT
HOBBS, NEW MEXICO

COMPANY	Marbob Stock	\ \V.	ater Well SE/4 Sec. 20	75	REPORT DATE DISTRICT	-	W09-059 July 30, 2009 Hobbs	
SUBMITTED BY					<u>\</u>			<del></del>
WELL Stock	k Tanks		DEPTH		FORMATI SOURCE	ON		
SAMPLE	5-26S-28C		C-2160 5-S		C03413	_		
Sample Temp. RESISTIVITY SPECIFIC GR. pH CALCIUM MAGNESIUM CHLORIDE SULFATES BICARBONATES SOLUBLE IRON KCL Sodium TDS OIL GRAVITY	70 15.8 1.000 8.57 700 390 45 Light 170 0 Negative	°F  mpl mpl mpl mpl mpl mpl mpl mpl compl	70 3.41 1.002 8.12 1,000 750 1,222 Moderate 366 0 Negative	"F  "mpl mpl mpl mpl mpl mpl mpl "mpl	70 3.41 1.002 7.89 1,150 750 316 Moderate 292 0 Negative	"F" "mpl mpl mpl mpl mpl mpl mpl "mpl	0 0 0	mpl mpl mpl mpl mpl mpl mpl
REMARKS								

MPL = Milligrams per litter
Resitivity measured in: Ohm/m2/m

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management: it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Co.

ANALYST:	JH



# New Mexico Office of the State Engineer

# Point of Diversion by Location (with Drilling Information)

	eet)	Depth	Water	06		96		
	(in feet)	Depth	Well	205	150	176		
			Finish Date	04/08/1965	09/10/1975	01/20/1975		
	rs)		X Y Start Date	585470 3551338* 04/04/1965	586843 3554004* 07/15/1975 09/10/1975	3553268* 01/15/1975	29	35*
	in mete			355133	355400	355326	3553267	3551935*
	(NAD83 UTM in meters)		×	585470	586843	584733	584733	585669
			ec Tws Rng	28 25S 28E	1 22 25S 28E	20 25S 28E	4 2 4 20 25S 28E	28 25S 28E
(quarters are 1=NW 2=NE 3=SW 4=SE)	(quarters are smallest to largest)	999		4 3 28 25S 28E		Shallow 4 2 4 20 25S	424	
			Grant					
			POD Number	3 ED C 01278	C 01522	C 01573	C 03413 POD1	C 12781
	num)		Count	9	ED	ED	ED	ED
	(acre ft per annum)		ersion	ന	n	က	က	ι
	(acre f	Sub	basin Use Diversion County POD Number	STK	DOM	PRO	STK	STK
			WR File Nbr	C 01278	C 01522	<u>C 01573</u>	C 03413	C 12781

Record Count: 5

POD Search:

POD Basen Carlsbad

PLSS Search:

Range; 28E Township: 25S Section(s): 16, 17, 20, 21, 22, 28, 29

Sorted by: File Number

\*UTM location was derived from PLSS - see Help

POINT OF DIVERSION BY LOCATION 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. 7/22/09 10:33 AM



November 23, 2010

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

Re: Legal Notice

Water Disposal Well

### Gentlemen:

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

Dean Chumbley Land Advisor

DC/sd

enclosure

### ARTESIA DAILY PRESS LEGAL NOTICES

COG Operating, LLC, 2208 W. Main Street, Artesia, NM 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 MYOX 21 #1, is located 1980' FNL 660' FWL, Sec. 21, Township 25 South, Range 28 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 a depth of 3500-4850' at a maximum surface pressure of 700 psi and a maximum rate of 5000 BWPD. 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 Dean Chumbley at COG Operating, LLC at dchumbley@conchoresources.com or 575-748-6940.

Published in the Artesia Daily	Press, A	Artesia,	New	Mexico
, 2010.				



November 23, 2010

**Devon Energy Corporation** Delta Drilling 20 N. Broadway, Ste. 1500 Oklahoma City, OK 73102-8260

> Re: Application to Inject MYOX 21 SWD #1

Township 25 South, Range 28 East, NMPM Section 21: 1980 FNL 660 FWL, Unit E Eddy County, New Mexico

### Ladies and Gentlemen:

Enclosed for your review is a copy of COG Operating, LLC's application to convert the referenced well to salt water disposal. 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 should you have any questions.

Sincerely

Déan Chumbley

Land Advisor

DC/sd enclosure

### Jones, William V., EMNRD

From: Brian Collins [BCollins@conchoresources.com]

**Sent:** Monday, November 22, 2010 12:17 PM

To: Jones, William V., EMNRD

Cc: Stormi Davis; Matt Corser; Morris Keith
Subject: MYOX 21 SWD 1, SWD-1196, 30-015-22434

Will:

We just finished the work on this well and Richard Enge told us the C-108 had expired. I was wondering if you had any record of a request to extend the approval date? I know I sent you requests to extend approval on SWD 1193, SWD 1194 and SWD 1187 which you approved (6 mos extension on SWD 1193 and 1194, one year on SWD 1187). I didn't find anything in my records indicating I asked for an extension on the captioned C-108. I apologize if I dropped the ball and didn't request an extension on the MYOX 21 SWD 1.

If you didn't approve a C-108 extension, would you email Matt Corser (<a href="mailto:mcorser@conchoresources.com">mcorser@conchoresources.com</a>) and Stormi Davis (<a href="mailto:sdavis@conchoresources.com">sdavis@conchoresources.com</a>) and let them know what needs to be done to secure C-108 approval? My last day at Concho is tomorrow so I won't be handling this. Thanks.

Brian Collins COG OPERATING LLC 2208 W Main St Artesia, New Mexico 88210-3720



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

**Sent:** Tuesday, November 23, 2010 8:38 AM **To:** Stormi Davis; Matt Corser; Morris Keith

Cc: Inge, Richard, EMNRD; Gray, Darold, EMNRD; Ezeanyim, Richard, EMNRD

Subject: RE: MYOX 21 SWD 1, SWD-1196, 30-015-22434

Hello to you guys at COG (please send your contact info and titles in OUTLOOK format?):

As Brian requested, I looked through our files and could not find any request to extend this permit, so it has expired per the stip. In the Rules.

Please send in another C-108 requesting to use this well for disposal. You can basically use the recently submitted C-108 as a template or just copy it.

However, I looked this over and it seems the notices sent out with the previous application may have been lacking. Devon was the only party noticed along with a newspaper notice. I see in the file, this is a FEE tract, but nothing as to who that surface owner is and whether they were noticed.

Please supply your landman with the Midland map of this location with the ½ mile circle drawn on it and ask your Landman to provide you with whomever controls the minerals in every separately owned tract in the ½ mile circle. Please identify these tracts and list those owners. Below is the definition of whom should be noticed:

### 19.15.26.7 **DEFINITIONS**:

**A.** "Affected person" means the division designated operator; in the absence of an operator, a lessee whose interest is evidence by a written conveyance document either of record or known to the applicant as of the date the applicant files the application; or in the absence of an

operator or lessee, a mineral interest owner whose interest is evidenced by a written conveyance document either of record or known to the

applicant as of the date the applicant filed the application for permit to inject.

(2) The applicant shall furnish, by certified or registered mail, a copy of the application to each **owner of the land surface on which each injection or disposal well is to be located** and to each leasehold operator or other **affected person** within any tract wholly or partially contained within one-half mile of the well.

Many Regards,

Will Jones
New Mexico
Oil Conservation Division
Images Contacts

**From:** Brian Collins [mailto:BCollins@conchoresources.com]

Sent: Monday, November 22, 2010 12:17 PM

To: Jones, William V., EMNRD

Cc: Stormi Davis; Matt Corser; Morris Keith

Subject: MYOX 21 SWD 1, SWD-1196, 30-015-22434

Will:

2208 W Main St Artesia, New Mexico 88210-3720 575.748.6946

### **%CONCHO**

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Sent: Tuesday, November 23, 2010 9:20 AM

To: Stormi Davis

Subject: RE: MYOX 21 SWD 1, SWD-1196, 30-015-22434

### Hello Stormi:

Yes, new newspaper notice and new certified notice and statement from landman as to Devon owning the surface and the other ownership within the AOR.

Thank You,

Will Jones
New Mexico
Oil Conservation Division
Images Contacts

**From:** Stormi Davis [mailto:SDavis@conchoresources.com]

Sent: Tuesday, November 23, 2010 9:05 AM

To: Jones, William V., EMNRD

Subject: RE: MYOX 21 SWD 1, SWD-1196, 30-015-22434

Good morning.

I am getting the application ready to send. The surface owner is also Devon. Do we need to place another legal notice in the newspaper?

Thank you for your help.

Stormi Davis
Regulatory Analyst
COG OPERATING LLC
2208 W Main St
Artesia, New Mexico 88210-3720
575.748.6946



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### **Brian Collins**

### Jones, William V., EMNRD

From:

Stormi Davis [SDavis@conchoresources.com]

Sent:

Monday, November 29, 2010 8:22 AM

To:

Jones, William V., EMNRD

Subject:

RE: MYOX 21 SWD 1, SWD-1196, 30-015-22434

I checked again with Dean, and he said there are no other owners.

Stormi Davis
Regulatory Analyst
COG OPERATING LLC
2208 W Main St
Artesia, New Mexico 88210-3720
575.748.6946



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

Sent: Tuesday, November 23, 2010 5:00 PM

To: Stormi Davis

**Subject:** RE: MYOX 21 SWD 1, SWD-1196, 30-015-22434

Good for the surface owner – thank you. Send the proof of notice to Devon for that, or the certified receipt number.

Does Devon and COG control all minerals (have leases) within ½ mile of this well? No one else has a lease?

Will Jones
New Mexico
Oil Conservation Division
Images Contacts

From: Stormi Davis [mailto:SDavis@conchoresources.com]

Sent: Tuesday, November 23, 2010 11:53 AM

To: Jones, William V., EMNRD

Subject: FW: MYOX 21 SWD 1, SWD-1196, 30-015-22434

The emails exchanged below verify that Delta Drilling was acquired by Devon. Do you need something more official, or will this work for you? I sent the application this morning.

Stormi Davis
Regulatory Analyst
COG OPERATING LLC
2208 W Main St
Artesia, New Mexico 88210-3720
575.748.6946



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From: Gray, Ken [mailto:Ken.Gray@dvn.com] Sent: Tuesday, November 23, 2010 11:24 AM

To: Dean Chumbley

Subject: RE: MYOX 21 SWD 1, SWD-1196, 30-015-22434

Dean, Delta Drilling was acquired by Kerr McGee who was acquired by Devon in 1996 or 97, so Devon should be the owner of the surface and the minerals on all of those Delta Drilling lands in that area.

From: Dean Chumbley [mailto:dchumbley@conchoresources.com]

Sent: Tuesday, November 23, 2010 11:46 AM

**To:** Gray, Ken **Cc:** Stormi Davis

Subject: FW: MYOX 21 SWD 1, SWD-1196, 30-015-22434

Ken

Would you be willing and able to verify that Delta Drilling is the private surface owner of the involved lands and that Devon owns and manages this lands. Messages below can be reviewed for that source of this request.

Thanks and have a Happy Thanksgivings,

Dean Chumbley
COG OPERATING LLC
Phone 575.748.6940
Fax 575.748.6950
2208 W Main St
Artesia, New Mexico 88210-3720



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From: Stormi Davis

Sent: Tuesday, November 23, 2010 9:42 AM

To: Dean Chumblev

Subject: FW: MYOX 21 SWD 1, SWD-1196, 30-015-22434

Stormi Davis
Regulatory Analyst
COG OPERATING LLC

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RUTTIONS OF APPROVAL, IF ARY

Affidavit of Publication No. 21463
STATE OF NEW MEXICO
County of Eddy:
Walter L. Green Walter L. Luen
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 November 28, 2010
Second Publication
Third Publication
Fourth Publication
Fifth Publication
Subscribed and sworn to before me this
29th day of November 2010

OFFICIAL BRAL Danny Soott

Notary Public, Eddy County, New Mexico

### Copy of Publication:

COG Operating, LLC, 2208 W. Main Street, Artesia, NM 88210, has filed Form C- 108 (Application Authorization to Inject) with the New Mexico Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the MYOX 21 #1, is located 1980' FNL 660' FWL. Sec. 21, Township 25 South, Range 28 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 a depth of 3 500-4850' at a maximum surface pressure of 700 pei and a maximum rate of 5000 **BWPD.** Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, New Santa Fe, Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Dean Chumbley at COG Operating, LLC at dchumbley@conchoresources.com or 575-748-6940. Published in the Artesia Daily Press, Artesia, N.M., November 28, 2010. Legal No. 21463.

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