SUSPENSE

PLG

9/20 D/Y

PMAM14 2666583

ABOVE THIS LINE FOR DIVISION USE ON

NEW MEXICO OIL CONSERVATION DIVISION

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

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATION WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTAFE Application Acronyms: [NSL-Mon-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PC-Pool Commingling] [OL3 - Off-Lease Storage] [DLM-Off-Lease Commingling] [PC-Pool Commingling] [PX-Pressure Maintenance Expansion] -5 COCO [SWD-Sait Water Disposal] [PM-Pressure Maintenance Expansion] -5 COCO [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] - COCO [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] - SUD [SWD-Sait Water Disposal] [IPI-Injection Pressure Increase] - COCO [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] - SUD [SWD-Sait Water Disposal] [IPI-Injection Pressure Increase] - COCO [IPI SUD	0 ERA+ 2 913,
Application Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PC-Pool/Lease Commingling] [PC-Pool/Lease Commingling] [PC-Pool/Lease Commingling] [PM-Soff-Lease Storage] [DIM-Off-Lease Commingling] [PW-Swaterflood Expansion] [PM-X-Pressure Maintenance Expansion] -5 COD [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] -2 COD [SWD-Salt Water Disposal] -3 COD [SWD-Salt Water Disposal] -4 COD [SWD-Salt Water Disposal] -5 COD [SWD-Salt Water Disposal] -4 COD [SWD-Salt Water D	erA+ 2913,
Application Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [PHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool/Lease Commingling] [PC-Poo	291 3)
[A] Location - Spacing Unit - Simultaneous Dedication API# 30-015-38973 NSL	
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR [D] Other: Specify [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] X For all of the above, Proof of Notification or Publication is Attached, and/or, [F] Waivers are Attached	_
WFX PMX SWD IPI EOR PPR	J
NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A]	
 [A]	
 [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] X For all of the above, Proof of Notification or Publication is Attached, and/or, [F] Waivers are Attached 	
 [D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office [E] X For all of the above, Proof of Notification or Publication is Attached, and/or, [F] Waivers are Attached 	
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office [E] X For all of the above, Proof of Notification or Publication is Attached, and/or, [F] Waivers are Attached	
[F] Waivers are Attached	
[2] SUDMIT ACCUDATE AND COMPLETE INFORMATION DEGLUDED TO PROCESS THE TWO	
[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYLOF APPLICATION INDICATED ABOVE.	E
[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 application until the required information and notifications are submitted to the Division.	e this
Note: Statement must be completed by an individual with managerial and/or supervisory capacity.	
Kanicia Castillo Lead Regulatory Analyst 9/16/	2014
Print or Type Name Signature Title Date	
kcastillo@Concho.com e-mail Address	



September 18, 2014

Kanicia Castillo COG Operating LLC One Concho Center 600 W Illinois Avenue Midland, TX 79701

Phillip Goetze New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

RE: Saltwater Disposal Application

Empire State SWD 8 #1 API# 30-015-38973 I-8-17S-29E 1980 FSL & 660 FEL SWD;Cisco 96099 Eddy County, New Mexico

Mr. Goetze:

COG Operating LLC respectfully requests administrative approval for authorization to inject the Empire State SWD 8 #1 for SWD purposes.

This application was submitted in 2010. The approval was delayed pending the P&A of Conoco 8 State Com #1. This P&A has been completed so we are now seeking approval. We have attached an updated application along with the Conoco 8 State Com #1 P&A sundry.

We would like approval to inject into the Cisco Reef interval, located between 8300 -

Please contact me at 432-685-4332 or email at kcastillo@concho.com if you need additional information.

Sincerely,

Kanicia Castillo Lead Regulatory Analyst COG Operating LLC

Cc: NMOCD - District 2 - Artesia



COG Operating, LLC

(OGRID 229137)

Application for SWD

Empire State SWD 8 #1

API# 30-015-38973 Section 8, Township 17S, Range 29E, Unit I 1980' FSL & 660' FEL **Eddy County, New Mexico**

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

1.	PURPOSE: Secondary Recovery Pressure Maintenance No Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR: COG Operating, LLC.
	ADDRESS: One Concho Center, 600 West Illinois Ave, Midland TX 79701
	CONTACT PARTY: Kanicia Castillo PHONE432-685-4332
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted)
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: Kanicia Castillo TITLE: Lead Regulatory Analyst
	SIGNATURE:
	E-MAIL ADDRESS: kcastillo@concho.com If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days om the date this application was mailed to them.

COG Operating, LLC Empire State SWD 8 #1 API# 30-015-38973 Sec 38, T17S, R29E, Unit I 1980' FSL & 660' FEL Eddy County, NM

- VII. Attach data on the proposed operation, including:
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - Average daily rate/volume 10,000 to 15,000 BWPD, Maximum daily rate/volume 20,000 BWPD
 - 2. Whether the system is open or closed;
 - Closed System
 - 3. Proposed average and maximum injection pressure;
 - Average injection pressure Vacuum, Maximum injection pressure 1660 psig
 - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re-injected produced water; and,
 - Produced water from the Yeso formation. (Only from COG nearby operations)
 - We do not anticipate incompatibility issues because we currently have similar SWD wells in the area that dispose of Yeso produced water in the Cisco.
 - Existing Cisco SWD wells: Empire St SWD #2 30-015-37787, Empire St SWD 9 #4 30-015-38972
 - Please see attached Yeso produced water analysis. (Conoco 8 St #1)
 - 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.).
 - Chemical Analysis for the disposal zone formation water is attached



0

pH at time of sampling: pH at time of analysis: pH used in Calculation:

Tempeture @ lab conditions (F):

120

Hydrogen Sulfide:

Carbon Dioxide:

Comments:

Catalyst Oilfield Services 11999 E Hwy 158 Gardendale, TX 79758 (432) 563-0727 Fax: (432) 224-1038

Water Analysis Report

Customer:	COG Operating LLC	- NM	/⊂ Sa	ample #:	8606					
Area:	Artesia Analysis ID #: 10527									
Lease:	Conoco 8 State	DN	BOPD: 13			13				
Location:	1	1//	B'	WPD:	87					
Sample Point:	Wellhead							95 48 87 90		
		\ (
Sampling date:	5/30/2012	Anions	mg/l	meq/l	Cations	mg/l	meq/l			
Analysis date:	6/1/2012	Chloride:	123254.2	3475.77	Sodium:	58970.0	1662.95			
Analysis:	Catalyst	Bicarbonate:	488.0	8.00	Magnesium:	2529.0	41.48			
TDS (mg/l or g/m3):	201443	Carbonate:		0.00	Calcium:	13930.0	463.87			
Density (g/cm3):	1.139	Sulfate:	880.0	18.30	Potassium:	1101.0	22.90			
(3 0)					Strontium:	278.2	6.34			

Barium:

Manganese:

Conductivity (micro-ohms/cm):

Resistivity (ohm meter):

Iron:

5.42

5.42

75

0.0

12.5

0.0

0.00

0.45

0.00

209000

0.0478

	Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl											
Temp		alcite CO3	Gypsum CaSo4*2H2O			Anhydrite CaSO4		Celestite SrSO4		Barite BaSO4		
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount		
80	-0.06	0.00	-0.05	0.00	-0.03	0.00	-0.09	0.00	0.00	0.00		
100	0.02	2.60	-0.12	0.00	-0.03	0.00	-0.11	0.00	0.00	0.00		
120	0.11	12.41	-0.17	0.00	-0.01	0.00	-0.12	0.00	0.00	0.00		
140	0.20	22.50	-0.22	0.00	0.04	34.04	-0.12	0.00	0.00	0.00		
160	0.30	32.60	-0.26	0.00	0.11	82.52	-0.11	0.00	0.00	0.00		
180	0.41	42.70	-0.29	0.00	0.19	134.16	-0.09	0.00	0.00	0.00		
200 .	0.53	52.51	-0.31	0.00	0.29	182.92	-0.07	0.00	0.00	0.00		
220	0.66	61.74	-0.33	0.00	0.39	226.49	-0.05	0.00	0.00	0.00		

INJECTION WELL DATA SHEET

n I	Tubing Size: 3 1/2" EUE Lining Material: Internally plastic coated	
$\mathbf{T}_{\mathbf{y}}$	Type of Packer: Double grip type, set in neutral	
Pa(Packer Setting Depth: no more than 100' above top perf	
Ot	Other Type of Tubing/Casing Seal (if applicable): N/A	
	Additional Data	
-:	Is this a new well drilled for injection?	
	If no, for what purpose was the well originally drilled?	
5.	Name of the Injection Formation: Cisco	
3.	Name of Field or Pool (if applicable): None	
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.	
	No, none	
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:	
	San Andres @ 2,425; Paddock @ 3,915'; Blinebry @ 4,400'; Wolfcamp @ 7,190'	_

District J
1625 N. French Dr., Hobbs, NM 88240
District H
1301 W. Grand Avenue, Artesia, NM 88210
District HI
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised October 15,2009 Submit one copy to appropriate District Office

☐ AMENDED REPORT

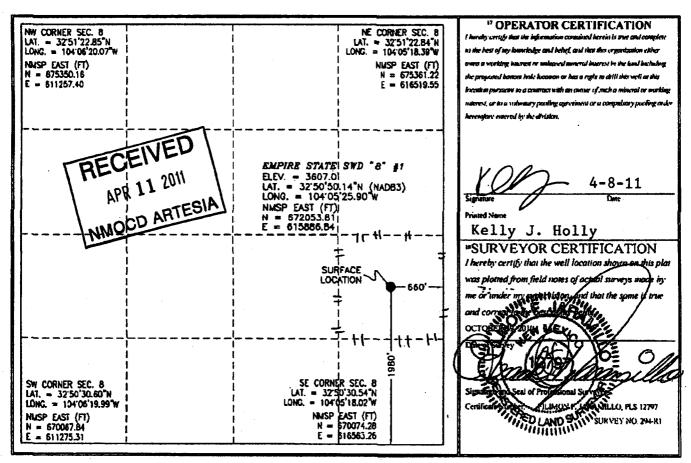
East/West line

API Number	² Pool Code	Pool	Name
0-015 - 38973	96099	SWD; Cisco	
* Property Code		Property Name	Well Number
38595	EMP	IRE STATE SWD "8"	1
OGRID No.		Operator Name	Elevation
229137	COG	OPERATING, LLC.	3607.0
	Jo	Surface Location	······································

1	8	175	29 E) 	1980	SOUTH	660	EAST	EDDY
			" Bo	ttom Ho	le Location I	f Different From	m Surface		
UL or lot no.	Section	Township	Range	lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
			l						i
12 Dedicated Acre	s 13 Jaint a	r Infill 1" (onsolidation	Code 15 Or	rder No.				
40									

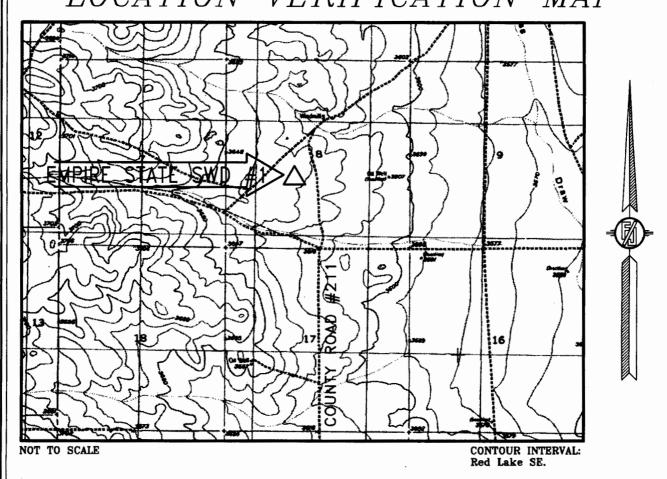
UL or lot so. Section Township Range Lot Ida Feet from the North/South line Feet from the

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





SECTION 8, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



DIRECTIONS TO LOCATION

FROM U.S. HWY. 82 AND CR. #211 (OLD LOCO) GO NORTH ON CR. #211 2.5 MILES AND TURN LEFT ON OLD CALICHE ROAD AND GO WEST 600' AND LOCATION IS ON THE LEFT (SOUTH) 280'

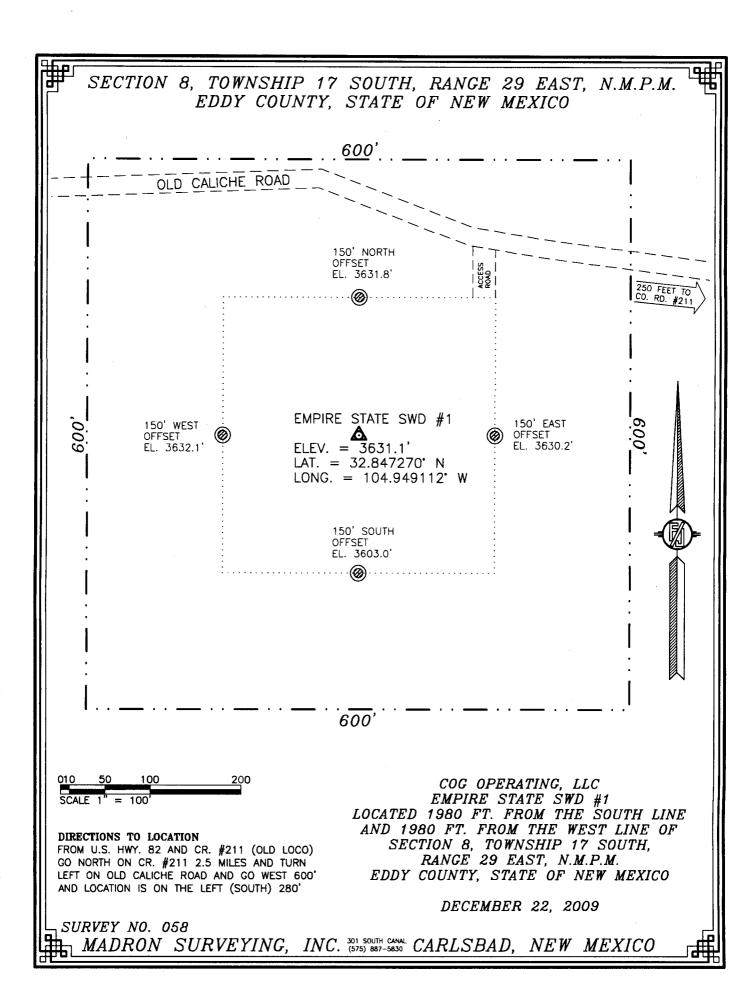
SEC. 8 TWP. 17-S RGE. 29-E
SURVEY N.M.P.M.
COUNTY EDDY STATE NEW MEXICO
DESCRIPTION 1980' FSL & 1980' FWL
ELEVATION3631.1
OPERATOR C. O. G. OPERATING, LLC
LEASE EMPIRE

COG OPERATING, LLC
EMPIRE STATE SWD #1
LOCATED 1980 FT. FROM THE SOUTH LINE
AND 1980 FT. FROM THE WEST LINE OF
SECTION 8, TOWNSHIP 17 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 22, 2009

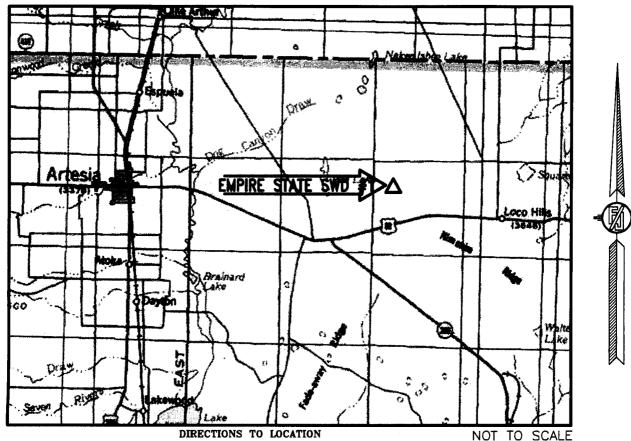
SURVEY NO. 058

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO



SECTION 8, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

VICINITY MAP



DIRECTIONS TO LOCATION
FROM U.S. HWY. 82 AND CR. #211 (OLD LOCO)
GO NORTH ON CR. #211 2.5 MILES AND TURN
LEFT ON OLD CALICHE ROAD AND GO WEST 600'
AND LOCATION IS ON THE LEFT (SOUTH) 280'

 SEC.
 8
 TWP.
 17-S
 RGE.
 29-E

 SURVEY
 N.M.P.M.

 COUNTY
 EDDY
 STATE
 NEW
 MEXICO

 DESCRIPTION
 1980'
 FSL
 & 1980'
 FWL

 ELEVATION
 3631.1

 OPERATOR
 C.
 O.
 G.
 OPERATING, LLC

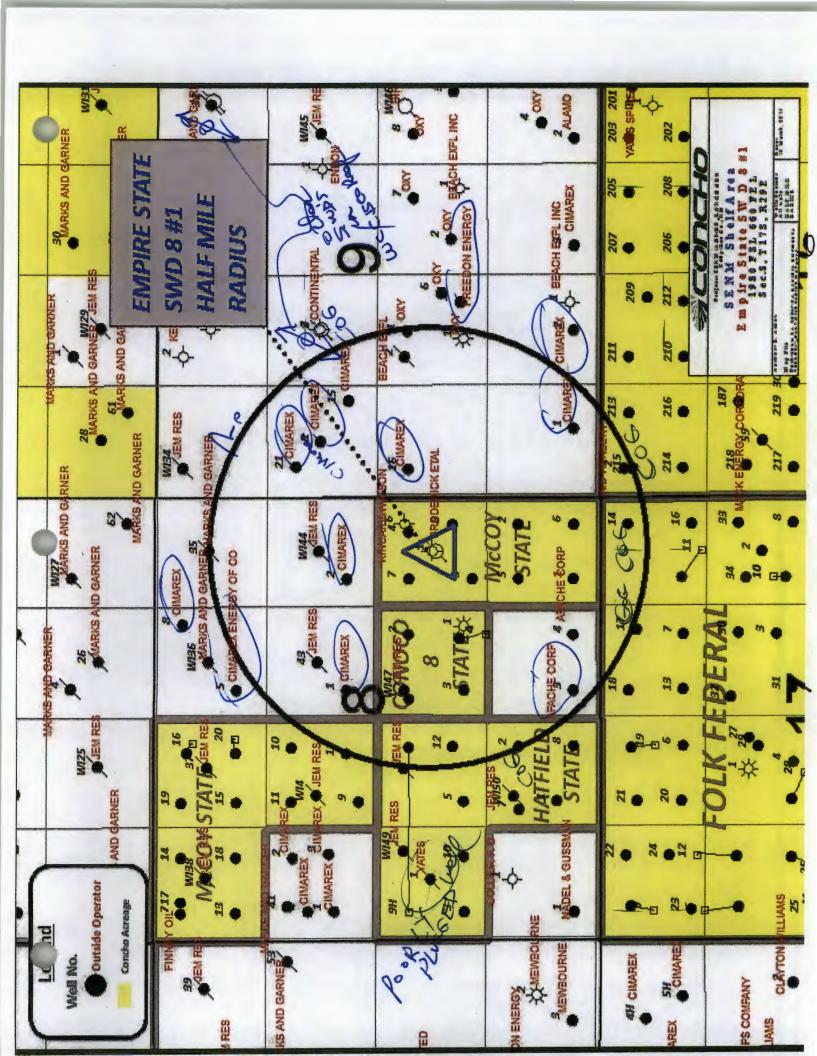
 LEASE
 EMPIRE

COG OPERATING, LLC
EMPIRE STATE SWD #1
LOCATED 1980 FT. FROM THE SOUTH LINE
AND 1980 FT. FROM THE WEST LINE OF
SECTION 8, TOWNSHIP 17 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 22. 2009

SURVEY NO. 058

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO



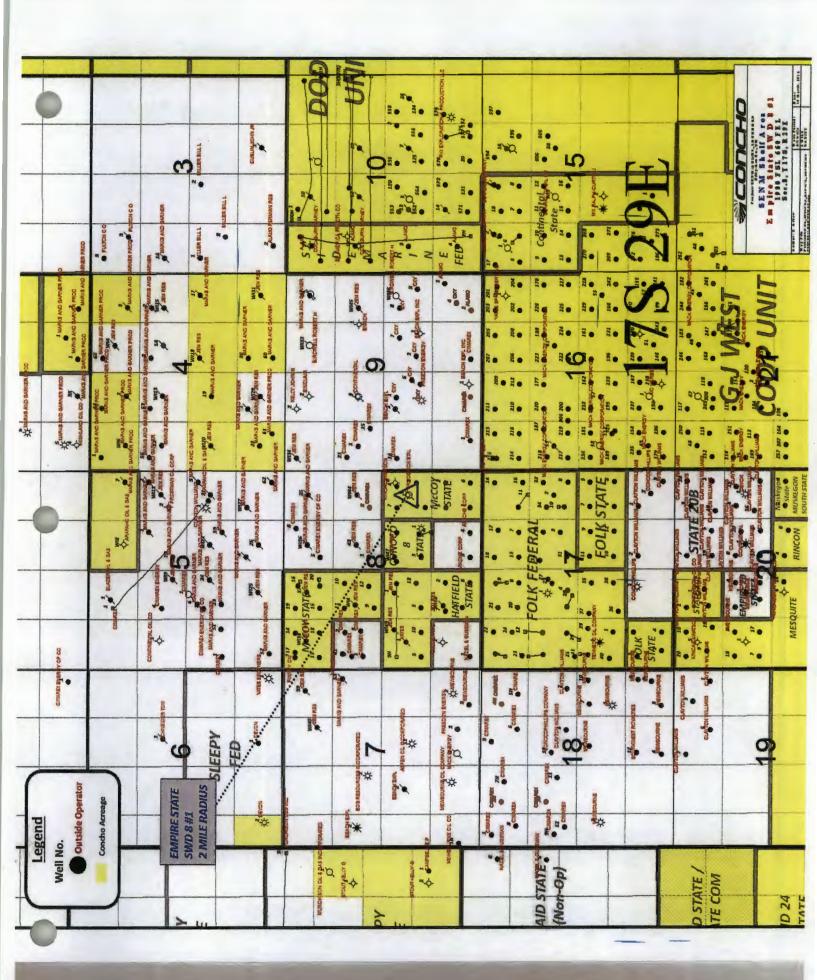


Exhibit VI. Empire State SWD 8 #1

Area of Review

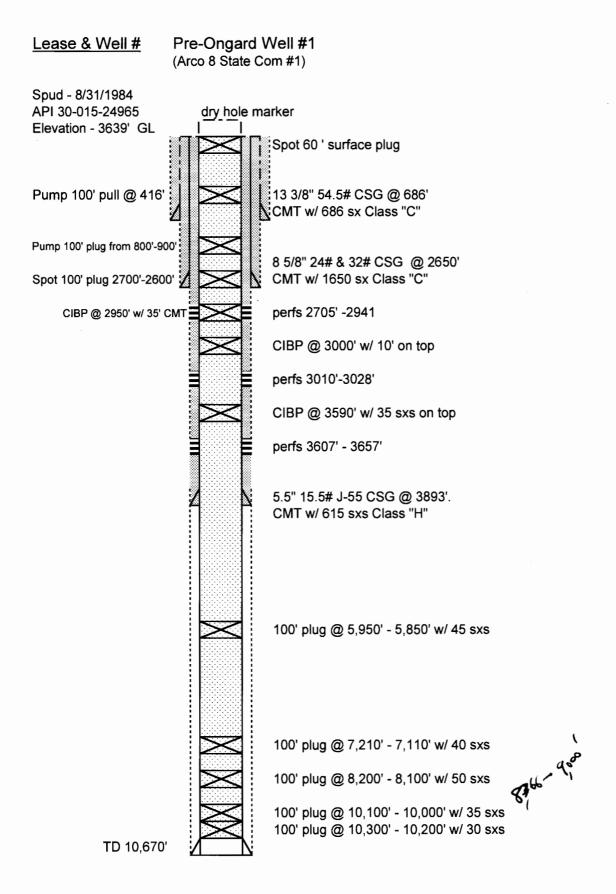
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			1650	7070				E 1980				E 1980		Audito		E 1650 I		505 505 505 505	
Magni			02-175-30	67-671-00				38-175-29				09-175-29				09-175-29			
			30-015-30702 -08-175-29F 1650 ESI 1550 EEI	70/0				1965 L-I				30-015-36134 E-09-17S-29E 1980 FNL, 660 FWL				30-015-35219 K-09-17S-29E 1650 FSL, 1880 FWL			
			20.015.2	20-013-3				30-015-2				30-015-3				30-015-3			
								perator			,				*				
Appropria			COG Operating 11 C					rd Well 0				Colorado Colorado	One Ion		YATO Liv	Oxy USA WIT LIMITED	ratificacin		
-								Pre-Ongard Well #1 (P&A) Pre-Ongard Well Operator 30-015-24965 L-08-17S-29E 1980 FSL, 660 FWL				Canare	,		21.75	S S	2		
			1 (D.S.A.)	(1007)				1 (P&A) 1				m #1				r 5t #1			
all Name			C+ Com	# III 75				d Well #:				Barbwire 9 St Com #1				eskimme			
***			(Danger 8 C+ Com #1 (D8.4)	Olloco				re-Ongar				Barbwir				Oxy Flameskimmer 5t #1			
ř			9	3				Ā								0			

There are a total of 4 wells in the AOR penetrating the injection interval.
 Of the total, there are 2 plugged/dry and abandoned wells in the area of review penetrating the injection interval.

Well: Conoco 8 State Com #1 **API**: 30-015-30702 Elev: 3,611' GL Location: 1650 °N1 · 1550 FEL, Unit Ltr J, Sec 8, T17S, R29E -028c. 25 6x5.cmf. @63'-3! Surface / 11 3/4" @ 440, Cmt to Surface _ Pump 45 6x6.cm1 C= 490 - 380' - MG Amp 45 5x5. CMFCP 944'-844'- 146 . Pump 55 5x5.cms.c 27841-26141-716 intermediate 8 5/8", 32# @2,674, cmt to surface -CUT X PULL 7" CSG. @2674" --- PERF X 598. 60 SXS. CMT C 6020'-5860! PER X 50 2. 70 5x5. cm7. @ 7255'- 7085'-MG. 7 7/8" Hole PXA MUD - Pump 35 \$x5. cmiCP. 9200'-9010'-TAG S CUT X PULL 3 12" 736-0 9185' Production 7°, 26# @ 9,105, TOC @ 8,644 3/12, 12.95#, TOC @ 9.110 DUMP BASL 35'CMFC 9525'-9490! SET 3 12" CD3PO 9525' PORFS. 9569'-80' Tubing as Long String -PBTD, 10.140 6 7/8" hole to 10,920"

-. P al al.

Pre-Ongard Well Operator



Cimarex Energy Co. of Colorado

Lease & Well # Barbwire 9 State Com #1

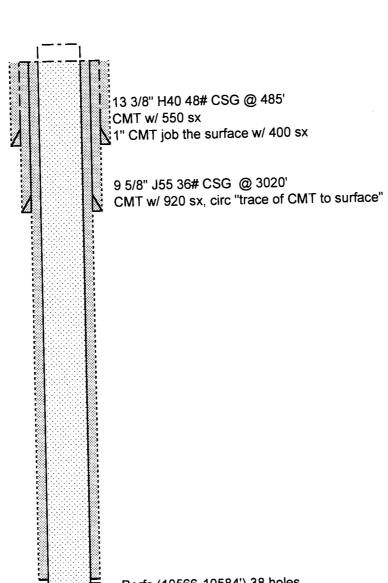
Spud - 3-17-2008 API 30-025-36134 Elevation - 3590' GL [13 3/8" H40 48# CSG @ 350' CMT w/ 400 sx, circ 46 sx 9 5/8" J55 40# CSG @ 3000' CMT w/ 1150 sx, circ 103 sx (7822-7836') 96 holes, Acidize w/ 1500 gal 15% HCL 8366-9000 CIBP @ 10000' w/ 15' CMT on top (10086-10102') w/ 72 holes, Acidize w/ 1500 gals 15% HCL 5.5" P-110 17# CSG @ 10850'. TD - 10779' Casing is from surface down. CMT w/ 1640 sx, TOC 2420' CBL

Oxy USA WTP Limited Partnership

Lease & Well

Oxy Flameskimmer State #1

Spud - 2-12-2007 API 30-015-35219 Elevation - 3584' GL



Perfs (10566-10584') 38 holes

PBTD - 10813" 5.5" HCP-110 17# CSG @ 10850'.
TD - 10850' CMT w/ 1710 sx, circ 20 sxs to surface

COG Operating, LLC Empire State SWD 8 #1 API# 30-015-38973 Sec 38, T17S, R29E, Unit I 1980' FSL & 660' FEL Eddy County, NM

- VII. Attach data on the proposed operation, including:
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - Average daily rate/volume 10,000 to 15,000 BWPD, Maximum daily rate/volume 20,000 BWPD
 - 2. Whether the system is open or closed;
 - Closed System
 - 3. Proposed average and maximum injection pressure;
 - Average injection pressure Vacuum, Maximum injection pressure 1660 psig
 - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re-injected produced water; and,
 - Produced water only
 - 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.).
 - Chemical Analysis for the disposal zone formation water is attached



Catalyst Oilfield Services 11999 E Hwy 158 Gardendale, TX 79758 (432) 563-0727 Fax: (432) 224-1038

Water Analysis Report

Customer:	COG Operating LLC - NM	Sample #:	8606	
Area:	Artesia	Analysis ID #:	10527	
Lease:	Conoco 8 State	BOPD:	13	-
Location:	1	BWPD:	87	
Sample Point:	Wellhead			

Sampling date:	5/30/2012	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis date:	6/1/2012	Chloride:	123254.2	3475.77	Sodium:	58970.0	1662.95
Analysis:	Catalyst	Bicarbonate:	488.0	8.00	Magnesium:	2529.0	41.48
TDS (mg/l or g/m3):	201443	Carbonate:		0.00	Calcium:	13930.0	463.87
Density (g/cm3):	1.139	Sulfate:	880.0	18.30	Potassium:	1101.0	22.90
poriony (granto).	1.100				Strontium:	278.2	6.34
Hydrogen Sulfide:	0				Barium:	0.0	0.00
Carbon Dioxide:	120				Iron:	12.5	0.45
Comments:		pH at time of sam	. •	5.42	Manganese:	0.0	0.00
		pH used in Calcu	lation:	5.42	Conductivity (mic	cro-ohms/cm):	209000
		Tempeture @ lab	conditions (F):	75	Resistivity (ohm r	meter):	0.0478

	Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl												
Temp		alcite CO3		psum 4*2H2O		ydrite SO4		estite SO4		arite SO4			
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount			
80	-0.06	0.00	-0.05	0.00	-0.03	0.00	-0.09	0.00	0.00	0.00			
100	0.02	2.60	-0.12	0.00	-0.03	0.00	-0.11	0.00	0.00	0.00			
120	0.11	12.41	-0.17	0.00	-0.01	0.00	-0.12	0.00	0.00	0.00			
140	0.20	22.50	-0.22	0.00	0.04	34.04	-0.12	0.00	0.00	0.00			
160	0.30	32.60	-0.26	0.00	0.11	82.52	-0.11	0.00	0.00	0.00			
180	0.41	42.70	-0.29	0.00	0.19	134.16	-0.09	0.00	0.00	0.00			
200	0.53	52.51	-0.31	0.00	0.29	182.92	-0.07	0.00	0.00	0.00			
220	0.66	61.74	-0.33	0.00	0.39	226.49	-0.05	0.00	0.00	0.00			
	1								l				

The Triassic System overlies the Rustler formation in Eddy County and is composed of red beds and sandstones of the Dockum group. The lower part of these beds is considered Permian and correlated with Dewey Lake red beds by some geologists. The total thickness of the Dockum group east of Artesia is about 1,000'. Formations of the Dockum group exposed in Eddy County are the Pierce Canyon red beds, the Santa Rosa sandstone and red beds possibly from the Chinle formation.

In the Empire, Empire East, Loco Hills, and Fren Fields, the sandstone beds in the Triassic Dockum group and possibly in the Dewey Lake red beds are the chief sources of ground water. The depth to water in this area is generally less than 300°. Most of the wells in the outcrop area of the Dockum group yield water of better quality than the wells to the west that produce from the Rustler formation. Analyses were made of 21 samples of water from wells probably taking all or part of their water from the Triassic red beds. The hardness of calcium carbonate in the 21 samples ranged from 201 to 3,590 ppm and was more than 1,000 ppm in 14 of the 21 samples. The chloride content ranged from 17 to 785 ppm and was more than 200 ppm in 10 of the samples. Probably about half the wells in the Triassic red beds produce water that is considered usable for domestic purposes. None of the wells in the Triassic red beds produce water too highly mineralized for stock.

A review of all geologic map data and well as visual searches by field personnel did not indicate the presence of any windmills in the areas of review for the proposed conversions.

In summary, ground water in the Empire, Empire East, Loco Hills, and Fren areas for stock and domestic use can be obtained from wells in the Triassic red beds at depths up to 300°. Water is generally of fair quality but locally impotable. The injection intervals for the proposed conversions are in the Yeso group in the lower Permian age rocks at about 4,449° TVD to 4,554° TVD. No contamination of the known shallow potable ground waters is expected from the proposed deeper secondary operations due to over 3,500° of vertical separation between them. There was no indication of any use of ground water aquifers in the areas of reviews for the proposed conversions.

From <u>Geology and Ground-Water Resources of Eddy County, New Mexico</u> by G. E. Hendrickson and R. S. Jones. Ground-Water Report 3, New Mexico Bureau of Mines and Mineral Resources, 1952

COG Operating, LLC Empire State SWD 8 #1 API# 30-015-38973 Sec 8, T17S, R29E, Unit I 1980' FSL & 660' FEL Eddy County, NM

Stimulation program: Large conventional acid job. Depending on the step rate test, possibly sand fractured.

COG Operating, LLC Empire State SWD 8 #1 API# 30-015-38973 Sec 8, T17S, R29E, Unit I 1980' FSL & 660' FEL Eddy County, NM

Logging and test data: No test data. Logs on file.



Point of Diversion by Location New Mexico Office of the State Engineer

(with Owner Information)

No PODs found.

POD Search:

POD Basin: Roswell Artesian

Basin/County Search:

County: Eddy

PLSS Search:

Section(s): 8

Township: 17S

Range: 29E

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 warrantles, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Page 1 of 1

PAGE 10 IN CATION

Exhibit XII

Geological Statement

Concho Resources has examined available geological, seismic, and engineering data and finds no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

Harvin Broughton

Geoscience Lead

432-683-7443

Notifications

Cimarex Energy Company of Colorado 202 S Cheyenne Avenue, Ste 1000 Tulsa, OK 74103

New Mexico State Land Office Oil Gas and Mineral Division 310 Old Santa Fe Trail Santa Fe, NM 87504

Oxy USA WTP Limited Partnership PO Box 4294 Houston, TX 77210

LEGAL NOTICE

COG Operating LLC is applying for a saltwater disposal permit for the Empire State SWD 8 #1. The well is 'ncated at 1980' FSL & 660' FEL, Sec T17S, R29E, Eddy County, New exico. The well will dispose of produced water from oil and gas wells into the Cisco Reef zone at depth of 8300' to 8900' at a maximum rate of 20,000 barrels of water per day and at a maximum pressure of 1,660 psi. Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505 within 15 days. Additional information can be obtained by contacting Kanicia Castillo, COG Operating LLC, One Concho Center, 600 West Illinois Ave, Midland, TX 79701. Phone number is 432-685-4332. Published in the Artesia Daily Press, Artesia, N.M., September 17, 2014 Legal No. 23176.

Legal Notice

COG Operating LLC is applying for a saltwater disposal permit for the Empire State SWD 8 #1. The well is located at 1980' FSL & 660' FEL, Sec 8, T17S, R29E, Eddy County, New Mexico. The well will dispose of produced water from oil and gas wells into the Cisco Reef zone at depth of 8300' to 8900' at a maximum rate of 20,000 barrels of water per day and at a maximum pressure of 1,660 psi. Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505 within 15 days. Additional information can be obtained by contacting Kanicia Castillo, COG Operating LLC, One Concho Center, 600 West Illinois Ave, Midland, TX 79701. Phone number is 432-685-4332.



September 16, 2014

Cimarex Energy Company of Colorado 202 S Cheyenne Avenue, Ste 1000 Tulsa, OK 74103

Certified Mail Article Number: 91 7199 9991 7033 5389 3830

Re: Application for SWD well on the:

Empire State SWD 8 #1 API# 30-015-38973 Sec 8, 17S, R29E, Unit I 1980' FSL & 660' FEL SWD;Cisco (96099) Eddy County, New Mexico

To Whom It May Concern:

This letter will serve as notice under Rule 19.15.26.8B that COG Operating LLC has applied for a permit from the Oil Conservation Division in Santa Fe, NM for a new SWD well. We will be disposing of produced water, into the Cisco Reef, depths 8300' to 8900'.

Should your company have any objection, it must be filed in writing within fifteen (15) days from the date of this notice. If the Oil Conservation Division determines the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505, the telephone number is 505-476-3200.

Sincerely,

Kanicia Castillo Regulatory Analyst COG Operating LLC



September 16, 2014

Oxy USA WTP Limited Partnership PO Box 4294 Houston, TX 77210

Certified Mail Article Number: 91 7199 9991 7033 5389 3823

Re: Application for SWD well on the:

Empire State SWD 8 #1
API# 30-015-38973
Sec 8, 17S, R29E, Unit I
1980' FSL & 660' FEL
SWD;Cisco (96099)
Eddy County, New Mexico

To Whom It May Concern:

This letter will serve as notice under Rule 19.15.26.8B that COG Operating LLC has applied for a permit from the Oil Conservation Division in Santa Fe, NM for a new SWD well. We will be disposing of produced water, into the Cisco Reef, depths 8300' to 8900'.

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Sincerely,

Kanicia Castillo Regulatory Analyst COG Operating LLC

Corporate Address: One Concho Center 600 West Illinois Avenue Midland, Texas 79701 PHONE 432.683.7443 FAX 432.683.7441



September 16, 2014

New Mexico State Land Office Oil Gas and Mineral Division 310 Old Santa Fe Trail Santa Fe, NM 87504

Certified Mail Article Number: 91 7199 9991 7033 5389 3816

Re: Application for SWD well on the:

Empire State SWD 8 #1 API# 30-015-38973 Sec 8, 17S, R29E, Unit I 1980' FSL & 660' FEL SWD:Cisco (96099) **Eddy County, New Mexico**

To Whom It May Concern:

This letter will serve as notice under Rule 19.15.26.8B that COG Operating LLC has applied for a permit from the Oil Conservation Division in Santa Fe, NM for a new SWD well. We will be disposing of produced water, into the Cisco Reef, depths 8300' to 8900'.

Should your company have any objection, it must be filed in writing within fifteen (15) days from the date of this notice. If the Oil Conservation Division determines the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505, the telephone number is 505-476-3200,

Sincerely,

Kanicia Castillo Regulatory Analyst COG Operating LLC 



One Concho Center 600 West Illinois Avenue Midland, Texas 79701

Cimarex Energy Company of Colorado 202 S Cheyenne Avenue, Suite 1000 Tulsa, OK 74103

SENDER: 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 mailpiece, or on the front if space permits.
- Article Addressed to:

Cimarex Energy Company of Colorado 202 S Cheyenne Avenue, Suite 1000 Tulsa, OK 74103

COMPLETE THIS SECTION ON DELIVERY	A. Signature A Agent A Addressee	B. Received by (Printed Name) C. Date of Delivery	D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
				_

Ses □ 4. Restricted Delivery? (Extra Fee)

9991, 7033 71,99

2 Article Number





One Concho Center 600 West Illinois Avenue Midland, Texas 79701

NEW MEXICO STATE LAND OFFICE OIL GAS AND MINERALS DIVISION SANTA FE, NM 87504-1148 310 OLD SANTA FE TRAIL

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- 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.
- 1. Article Addressed to:

NEW MEXICO STATE LAND OFFICE OIL GAS AND MINERALS DIVISION SANTA FE, NM 87504-1148 310 OLD SANTA FE TRAIL

COMPLETE THIS SECTION ON DELIVERY	A. Signature	B. Received by (Printed Name) C. Date of Deliven	D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
	☐ Agent ☐ Addresser	e of Deliver	J Yes

☐ Express Mail ☐ Return Receipt for Merchandise 4. Restricted Delivery? (Extra Fee) C.O.D. 3. Service Type

12. Certified Mail

13. Registered

14. Insured Mail

□ Yes

(Transfer from service label) 2. Article Number





One Concho Center 600 West Illinois Avenue Midland, Texas 79701

Oxy USA WTP Limited Partnership Houston, TX 77210 PO Box 4294

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	TION ON DELI	VERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse 	A. Signature		☐ Agent ☐ Addressee
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.	B. Received by (Printed Name)	d Name)	C. Date of Delivery
1. Article Addressed to:	D. Is delivery address different from item 1? If YES, enter delivery address below: No	lifferent from iterr y address below	17. 🗆 Yes
Oxy USA WTP Limited Partnership PO Box 4294			
Houston, TX 77210	3. Service Type AG Certified Mail ☐ Registered ☐ Insured Mail	☐ Express Mail ☐ Return Recei ☐ C.O.D.	☐ Express Mail ☐ Return Receipt for Merchandise ☐ C.O.D.

☐ Agent ☐ Addressee

% □ %

4. Restricted Delivery? (Extra Fee)

5389 3823

7033

9991

71199

47

(Transfer from service label)

2. Article Number

Submit 3 Copies To Appropriate District Office	State of New Mexico	O	Form C-103
District I	Energy, Minerals and Natural I	Resources	June 19, 2008
1625 N. French Dr., Hobbs, NM 88240	i i	WELL API N	1
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DI	VISION	30-015-38973
District III	1220 South St. Francis	Dr. 5. Indicate Ty	
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 87505	STATE	E S FEE
1220 S. St. Francis Dr., Santa Fe, NM		o. State Oil &	das Lease No.
87505			
	ICES AND REPORTS ON WELLS		e or Unit Agreement Name
	SALS TO DRILL OR TO DEEPEN OR PLUG B CATION FOR PERMIT" (FORM C-101) FOR SU	1011	· Gerra GMID 0
PROPOSÁLS.)	1	EIII	oire State SWD 8
1. Type of Well: Oil Well	Gas Well 🛛 Other	8. Well Numl	per
	<u> </u>		1
2. Name of Operator		9. OGRID No	1
	perating LLC	10 Probasi	229137
3. Address of Operator	eter 600 W. Illinois Ave. Midland, TX	10. Pool nam	e or wildcat 9; Cisco 96099
	nter 600 W. Hilliois Ave. Wildiand, 1 A	79701 SWL	7, CISCO 90099
4. Well Location			_
Unit Letter I : 1	980 feet from the South lin	e and 660 feet from the	East line
Section 8	Township 17S Range 29	PE NMPM Cou	nty Eddy
	11. Elevation (Show whether DR, RK	B, RT, GR, etc.)	
	3607' GR		
	T.		
12. Check	Appropriate Box to Indicate Natu	re of Notice, Report or Otl	her Data
NOTIOE OF 11	ITENTION TO	OUDOEOUENT	DEDODT OF
	ITENTION TO:	SUBSEQUENT	
PERFORM REMEDIAL WORK		EMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON		DMMENCE DRILLING OPNS.	PANDA 🗆
PULL OR ALTER CASING	MULTIPLE COMPL CA	ASING/CEMENT JOB	
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	ork). SEE RULE 1103. For Multiple C		
or recompletion.	i	ompremens. Timen wendere a	agram of proposed completion
o. 1000p.			
	I		
Well shut in effective 3/4/13	2, has not been issued an SWD perm	it pending remedial operation	ons in an offset well.
			RECEIVED
			TEOLI VI
	1	`	FEB 1 2 2013
Spud Date: 2/17/1	2 Rig Release Date:	3/4/12	MOOD ARTESIA
Spud Date.	- Rig Release Date.		
I haraby cartify that the information	above is true and complete to the best of	f my knowledge and bolief	
C. A n. A.	above is true and complete to the best c	of my knowledge and better.	
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W Sierrich	· · · · · · · · · · · · · · · · · · ·	<u> </u>	2 2/0/13
Type or print name Chasity Ja	ckson E-mail address: cja	ckson@concho.com PHO	NE: 432-686-3087
For State Use Only	1		1 1
7//	and The	He mill	2/11/12
APPROVED BY	TITLE//ST	Lepeusy	DATE
Conditions of Approval (if any):	1: -		/ /

Office		State of New Mexico			Form C-103
District I - (575) 393-6161	Energy	Minerals and Natural F	lesources		Revised August 1, 2011
1625 N. French Dr., Hobbs, N.	M 88240			VELL API NO.	
District II - (575) 748-1283	OIL O	CONSERVATION DIV	/ I S II II S :	0-015-30702	
811 S. First St., Artesia, NM 8 District III – (505) 334-6178	0210	220 South St. Francis	5	. Indicate Type of Le	ease
1000 Rio Brazos Rd., Aztec. N				STATE X	FEE
District IV - (505) 476-3460		Santa Fe, NM 87505	6	. State Oil & Gas Le	ase No.
1220 S. St. Francis Dr., Santa i	Fe. NM		E	-6353	
87505	DIV MOTIGES AND D	EDODTO ON WELLS			
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,				01	
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COG OPERATING LLC	2		2	29137	
Address of Operator			1	0. Pool name or Wild	dcat
600 W. ILLINOIS AVE.	, MIDLAND, TEXAS	79701	U	INDESIGNATED: W	OLFCAMP
4. Well Location					
Unit Letter:	J: 1650 feet fro	m the SOUTH line a	nd 1550 feet	from the EAST	line
Section	08	Township 17S F	lange 29E	NMPM ED	DY County
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te.		3,611° - GR			
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OTHER: 13. Describe propose of starting any pr proposed comple 08/12/14: SET 3-1/2" CIB 08/13/14: CUT X ATTEM	ed or completed operation of coposed work). SEE RUtion or recompletion. BP @ 9,525'; PRES. TEMPT TO PULL 3-1/2" T	ons. (Clearly state all pertir JLE 19.15.7.14 NMAC. For ST PLUG TO 1,000# X HE BG. @ 9.105' – UNSUCC	HER: WELL PLU ent details, and gi or Multiple Compl	GGED AND ABANDO ive pertinent dates, in etions: Attach wellbe	cluding estimated date ore diagram of CMT. @ 9,525°.
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Conditions of Approval (if any):

No. 2-153C

HASTINGS, MN
LOS ANGELES-CHICAGOL-OSAN, OH
MCGREGOR, TX-DCUST GROVE, GA
U.S.A.

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30-015-30702 8-17S-29E Conoco 8 State Com. #1 Ut.J NW/SE

From: Jones, William V, EMNRD

Sent: Friday, March 06, 2015 11:52 AM

To: 'kcastillo@concho.com'

Cc: Sanchez, Daniel J., EMNRD; Goetze, Phillip, EMNRD; Sharp, Karen, EMNRD Subject: COG SWD application for the Empire State SWD 8 Well No. 1 30-015-38973

Wolfcamp/Cisco Reef

Hello Kanicia,

I reviewed this application today.

Apparently this prospective disposal well from 2010 was waiting on a re-plugging of the offsetting Conoco 8 State Com and that was finished 8/26/14.

Two of the wells you had listed in the AOR were actually more than ½ mile away, so I am not counting them. And this is good, because one was not isolating the disposal interval very well.

This general area has at least three other SWD wells approved for COG into this same Wolfcamp or Cisco "Reef".

The well name probably should have conformed a bit with other wells – so probably should be: "Empire 8 State SWD Well No. 1" instead of "Empire State SWD 8 Well No. 1"?

Could you work with Karen Sharp to move the "8"? If you have a big objection to this, it would be fine.

Would you please let me know if the waste water to be disposed into this well will be:

- a. Only from this State lease
- b. Only from COG nearby operations
- c. From any operator in the area

Please list the formations from which the disposal water will originate and send a typical water analysis of each of those formations (list on the water analysis the well and formation from which it came)

It seems this well has already been drilled and cased to 8366 feet and is waiting on this permit.

Do you still plan to drill out with 6-1/8 inch bit from the shoe at 8366 to 9000 feet and inject only into this open hole?

Our well file shows this proposed 8366 – 9000 feet to be both Wolfcamp and Cisco in age – are you OK with the permit reflecting that?

Certified Notice:

There are two operators that currently operate shallower wells within ½ mile that have not been noticed:

Apache Corp (Unit letter O of Section 8)

Freedom Energy (Unit letter K of Section 9)

Please obtain waivers from them or send them certified notice (copy of this application) – or if I am mistaken, just have a Landman let me know.

I am assuming there is no vertical depth ownership differences – let me know if anyone else owns the rights to the Wolfcamp or Cisco within ½ mile of this well.

This all looks like a lot, but hopefully it is minor and won't cause you too much extra work, Thanks for the application and contact me if you need to.

Regards,

5TILL Not Hore 3/23/15

From:

Jones, William V, EMNRD

Sent:

Tuesday, March 10, 2015 9:57 AM

To:

'Kanicia Castillo'

Cc:

Kautz, Paul, EMNRD; Goetze, Phillip, EMNRD; Wade, Gabriel, EMNRD

Subject:

RE: COG SWD application for the Empire State SWD 8 Well No. 1 30-015-38973

Wolfcamp/Cisco Reef

Attachments:

NoticeExample_AllDepths_Takeoff.pdf; NoticeExample_CiscoCanyon_MapView.pdf; NoticeExample_MapView_EddyNM_NASH_53_SWD.pdf; Potash Notification for SWD

wells.docx

Kanicia,

Thanks for being so prompt and thorough.

Formation name:

The reason I was asking about this being partially within the "Wolfcamp" is the formation tops as picked and recorded in the well files by the OCD geologist for this area indicates the top of the Penn a bit lower than your proposed disposal interval. Several areas in SE NM have "PermoPenn" reservoirs that overlap the ages of Wolfcamp and Penn. And to complicate things, sometimes there is a depth severance between the Wolfcamp and Penn – so if you will talk to your Landman about this issue and make sure he or she knows that it is a bit cloudy whether this Reef goes up into the Wolfcamp or not? We don't want to identify it as only Cisco if there are depth ownership severances between the Permian and the Penn AND our well file has geologist picked tops which conflict with this application.

Notice:

So we can wait to hear from your Landman about depth severances out here. The "affected parties" are assumed to be within the interval being used for disposal (see attached examples) – but the form C-108 is also a part of this injection rule and it says to notice all "operators" within ½ mile. The operators of any depth within ½ mile are easy to find, so (per the C-108) we also ask you to notice them in addition to the "affected parties" and the surface owner. And we have had shallower operators of wells that have objected to a disposal well going in close to them – not often, but it happens. For a longer discussion on why we require notice to "Division Designated Operators", look at the attached "Potash Notification for SWD Wells".

Thanks for the analysis of waters from the Conoco 8 State Well No. 1 – for our records, would you let me know what formation this is from?

Regards,

Will

From: Kanicia Castillo [mailto:kcastillo@concho.com]

Sent: Tuesday, March 10, 2015 7:49 AM

To: Jones, William V, EMNRD

Subject: RE: COG SWD application for the Empire State SWD 8 Well No. 1 30-015-38973 Wolfcamp/Cisco Reef

Will,

One Concho Center 600 W. Illinois Avenue Midland, TX 79701 P.432.685.4332 F.432.221.0858

≫CONCHO

From: Candice Pettijohn

Sent: Thursday, March 12, 2015 2:13 PM

To: Kanicia Castillo

Cc: Justin Hollums: Harvin Broughton

Subject: Empire State SWD 8 #1cross section and type log

Attached are a cross section and type log for the Empire State SWD 8 #1. In the cross section you can see that COG's geologists have picked the top of the Cisco Reef to be at 8303' in the Empire State SWD 8 #1, well above the injection interval. Our open hole injection interval in the Empire State SWD 8 #1 will be within the Cisco Reef from 8366' to 9000'. The type log is a COG-interpreted log for the Conoco 8 State Com #1, which is less than 1000 ft southwest of Empire State SWD 8 #1. The approximate injection interval for the Empire State SWD 8 #1 is posted on the right side of the type log to demonstrate the expected formation depths we will encounter when we drill out the Empire State SWD 8 #1 for injection (these two wells only have about 20 ft of offset in formation tops). I hope this helps clear things up, if not let me know what else I can put together.

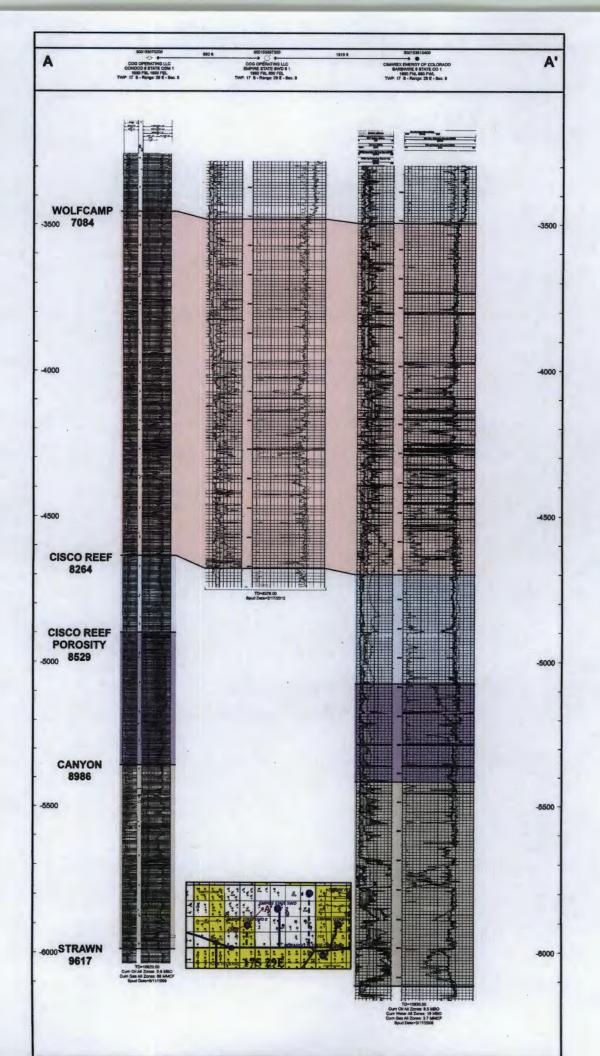
Candice Pettijohn | Geologist | New Mexico Shelf | One Concho Center

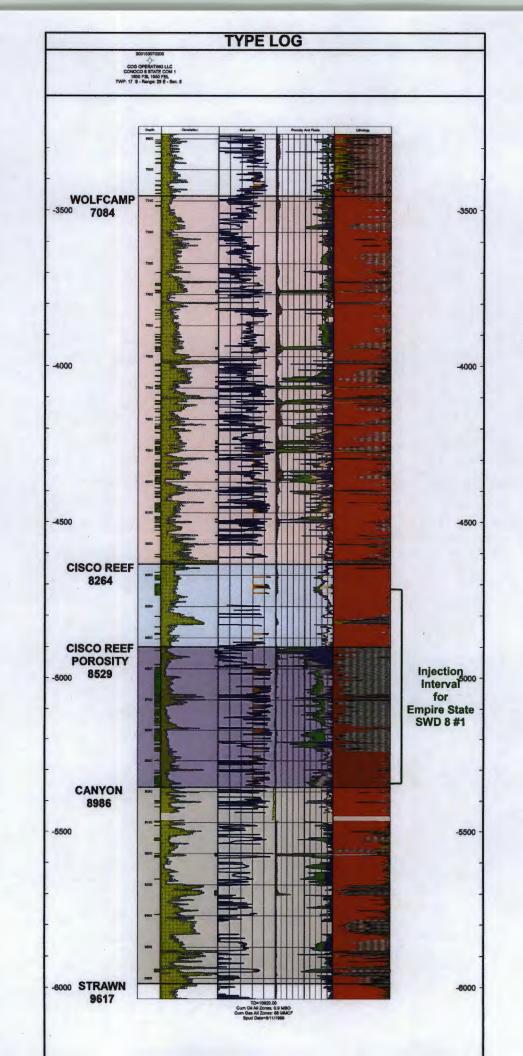
600 W. Illinois Ave Midland, TX 79701 office: 432-685-2530 cell: 907-982-1670

cpettijohn@concho.com



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From:

Jones, William V, EMNRD

Sent:

Monday, March 23, 2015 4:50 PM

To:

'Kanicia Castillo'

Cc:

Goetze, Phillip, EMNRD; Sanchez, Daniel J., EMNRD

Subject:

COG SWD application for the Empire State SWD 8 Well No. 1 30-015-38973 Cisco Reef

Hi Kanicia,

I have this one written and ready to release, but

Waiting on:

Certified Notice:

There are two operators that currently operate shallower wells within \(\lambda_2 \) mile that have not been noticed:

Apache Corp (Unit letter O of Section 8)

Freedom Energy (Unit letter K of Section 9)

Please obtain waivers from them or send them certified notice (copy of this application) – or if I am mistaken, just have a Landman let me know.

Let me know if anyone else owns the rights to the Cisco within ½ mile of this well – and send map with ownership "tracts".

<u>Please remind me if you have already sent these two proof of notices and the Landman's take-off on Cisco ownership with the identified tracts.</u>

(I believe that OXY, Cimarex, and the State Land Office have already been noticed)

Regards,

Will



William V. Jones, P.E., District IV Supervisor

Oil Conservation Division http://www.emnrd.state.nm.us/ocd/1220 South St. Francis Drive, Santa Fe, NM 87505

P: 505,476,3477 C: 505,419,1995

From: Kanicia Castillo [mailto:kcastillo@concho.com]

Sent: Tuesday, March 10, 2015 7:49 AM

To: Jones, William V, EMNRD

Subject: RE: COG SWD application for the Empire State SWD 8 Well No. 1 30-015-38973 Wolfcamp/Cisco Reef

Will,

Please see the answers below in red. I'm still awaiting a response from my previous email about the notices. So, that question is still not answered on this email. I also have land checking the depth severance question, so that is not answered either.

If I missed something, please let me know.

Thank you,

Kanicia Castillo

Lead Regulatory Analyst COG OPERATING LLC

One Concho Center 600 W. Illinois Avenue Midland, TX 79701 P.432.685.4332 F.432.221.0858



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

Sent: Friday, March 06, 2015 12:52 PM

To: Kanicia Castillo

Cc: Sanchez, Daniel J., EMNRD; Goetze, Phillip, EMNRD; Sharp, Karen, EMNRD

Subject: COG SWD application for the Empire State SWD 8 Well No. 1 30-015-38973 Wolfcamp/Cisco Reef

Hello Kanicia,

I reviewed this application today.

Apparently this prospective disposal well from 2010 was waiting on a re-plugging of the offsetting Conoco 8 State Com and that was finished 8/26/14.

Two of the wells you had listed in the AOR were actually more than ½ mile away, so I am not counting them. And this is good, because one was not isolating the disposal interval very well.

This general area has at least three other SWD wells approved for COG into this same Wolfcamp or Cisco "Reef".

The well name probably should have conformed a bit with other wells – so probably should be: "Empire 8 State SWD Well No. 1" instead of "Empire State SWD 8 Well No. 1"? We would like to keep the well name the same. Could you work with Karen Sharp to move the "8"? If you have a big objection to this, it would be fine.

Would you please let me know if the waste water to be disposed into this well will be:

- a. Only from this State lease
- b. Only from COG nearby operations
- c. From any operator in the area

Please list the formations from which the disposal water will originate and send a typical water analysis of each of those formations (list on the water analysis the well and formation from which it came) Please see attached documents, VII & Conoco 8 State 1 Analysis

It seems this well has already been drilled and cased to 8366 feet and is waiting on this permit. Do you still plan to drill out with 6-1/8 inch bit from the shoe at 8366 to 9000 feet and inject only into this open hole? Yes and Yes

Our well file shows this proposed 8366 – 9000 feet to be both Wolfcamp and Cisco in age – are you OK with the permit reflecting that? Our Geologist would like it to reflect the Cisco only. (OCD pool: SWD; Cisco 96099)

Certified Notice:

There are two operators that currently operate shallower wells within ½ mile that have not been noticed:

Apache Corp (Unit letter O of Section 8)

Freedom Energy (Unit letter K of Section 9)

Please obtain waivers from them or send them certified notice (copy of this application) – or if I am mistaken, just have a Landman let me know.

I am assuming there is no vertical depth ownership differences – let me know if anyone else owns the rights to the Wolfcamp or Cisco within ½ mile of this well.

This all looks like a lot, but hopefully it is minor and won't cause you too much extra work, Thanks for the application and contact me if you need to.

Regards,

Will



William V. Jones, P.E., District IV Supervisor
Oil Conservation Division http://www.emnrd.state.nm.us/ocd/

1220 South St. Francis Drive, Santa Fe, NM 87505

P: 505.476.3477 C: 505.419.1995

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From: Kanicia Castillo «kcastillo@concho.com»

Sent: Tuesday, March 10, 2015 7:49 AM

Subject: RE: COG SWD application for the Empire State SWD 8 Well No. 1 30-015-38973

Wolfcamp/Cisco Reef

Jones, William V, EMNRD

Attachments: VII.DOCX; Conoco 8 St #1.pdf

Will,

To:

Please see the answers below in red. I'm still awaiting a response from my previous email about the notices. So, that question is still not answered on this email. I also have land checking the depth severance question, so that is not answered either.

If I missed something, please let me know.

Thank you,

Xanicia Castillo Lead Regulatory Analyst

COG OPERATING LLC

One Concho Center 600 W. Illinois Avenue Midland, TX 79701 P.432.685.4332 F.432.221.0858



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

Sent: Friday, March 06, 2015 12:52 PM

To: Kanicia Castillo

Cc: Sanchez, Daniel J., EMNRD; Goetze, Phillip, EMNRD; Sharp, Karen, EMNRD

Subject: COG SWD application for the Empire State SWD 8 Well No. 1 30-015-38973 Wolfcamp/Cisco Reef

Hello Kanicia.

I reviewed this application today.

Apparently this prospective disposal well from 2010 was waiting on a re-plugging of the offsetting Conoco 8 State Com and that was finished 8/26/14.

Two of the wells you had listed in the AOR were actually more than ½ mile away, so I am not counting them. And this is good, because one was not isolating the disposal interval very well.

This general area has at least three other SWD wells approved for COG into this same Wolfcamp or Cisco "Reef".

The well name probably should have conformed a bit with other wells – so probably should be: "Empire 8 State SWD Well No. 1" instead of "Empire State SWD 8 Well No. 1"? We would like to keep the well name the same.

Could you work with Karen Sharp to move the "8"? If you have a big objection to this, it would be fine.

Would you please let me know if the waste water to be disposed into this well will be:

- a. Only from this State lease
- b. Only from COG nearby operations

c. From any operator in the area

Please list the formations from which the disposal water will originate and send a typical water analysis of each of those formations (list on the water analysis the well and formation from which it came) Please see attached documents, VII & Conoco 8 State 1 Analysis

It seems this well has already been drilled and cased to 8366 feet and is waiting on this permit.

Do you still plan to drill out with 6-1/8 inch bit from the shoe at 8366 to 9000 feet and inject only into this open hole? Yes and Yes

Our well file shows this proposed 8366 – 9000 feet to be both Wolfcamp and Cisco in age – are you OK with the permit reflecting that? Our Geologist would like it to reflect the Cisco only. (OCD pool: SWD; Cisco 96099)

Certified Notice:

There are two operators that currently operate shallower wells within ½ mile that have not been noticed: Apache Corp (Unit letter O of Section 8)

Freedom Energy (Unit letter K of Section 9)

Please obtain waivers from them or send them certified notice (copy of this application) – or if I am mistaken, just have a Landman let me know.

I am assuming there is no vertical depth ownership differences – let me know if anyone else owns the rights to the Wolfcamp or Cisco within ½ mile of this well.

This all looks like a lot, but hopefully it is minor and won't cause you too much extra work, Thanks for the application and contact me if you need to.

Regards,

Will



William V. Jones, P.E., District IV Supervisor
Oil Conservation Division http://www.emnrd.state.nm.us/ocd/
1220 South St. Francis Drive, Santa Fe, NM 87505
P: 505.476.3477 C: 505.419.1995

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From: Kanicia Castillo <kcastillo@concho.com>

Sent: Tuesday, April 21, 2015 11:50 AM

To: Jones, William V, EMNRD

Subject: RE: COG SWD application for the Empire State SWD 8 Well No. 1 30-015-38973 Cisco

Reef

Attachments: Empire State SWD 8 #1 AOR map and notifications.pdf

Will,

Please see that attached documents. There is an update map that shows the operators and interest owners and then notifications based on the updated map plus the ones that you requested below.

Please let me know if you need anything else.

Thanks,

Kanicia Castillo

Lead Regulatory Analyst COG OPERATING LLC

One Concho Center 600 W. Illinois Avenue Midland, TX 79701 P.432.685.4332 F.432.221.0858

₹CONCHO

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

Sent: Monday, March 23, 2015 5:50 PM

To: Kanicia Castillo

Cc: Goetze, Phillip, EMNRD; Sanchez, Daniel J., EMNRD

Subject: COG SWD application for the Empire State SWD 8 Well No. 1 30-015-38973 Cisco Reef

Hi Kanicia,

I have this one written and ready to release, but

Waiting on:

Certified Notice:

There are two operators that currently operate shallower wells within ½ mile that have not been noticed:

Apache Corp (Unit letter O of Section 8)

Freedom Energy (Unit letter K of Section 9)

Please obtain waivers from them or send them certified notice (copy of this application) – or if I am mistaken, just have a Landman let me know.

Let me know if anyone else owns the rights to the Cisco within ½ mile of this well – and send map with ownership "tracts".

<u>Please remind me if you have already sent these two proof of notices and the Landman's take-off on Cisco ownership with the identified tracts.</u>

(I believe that OXY, Cimarex, and the State Land Office have already been noticed)

Regards,

Will

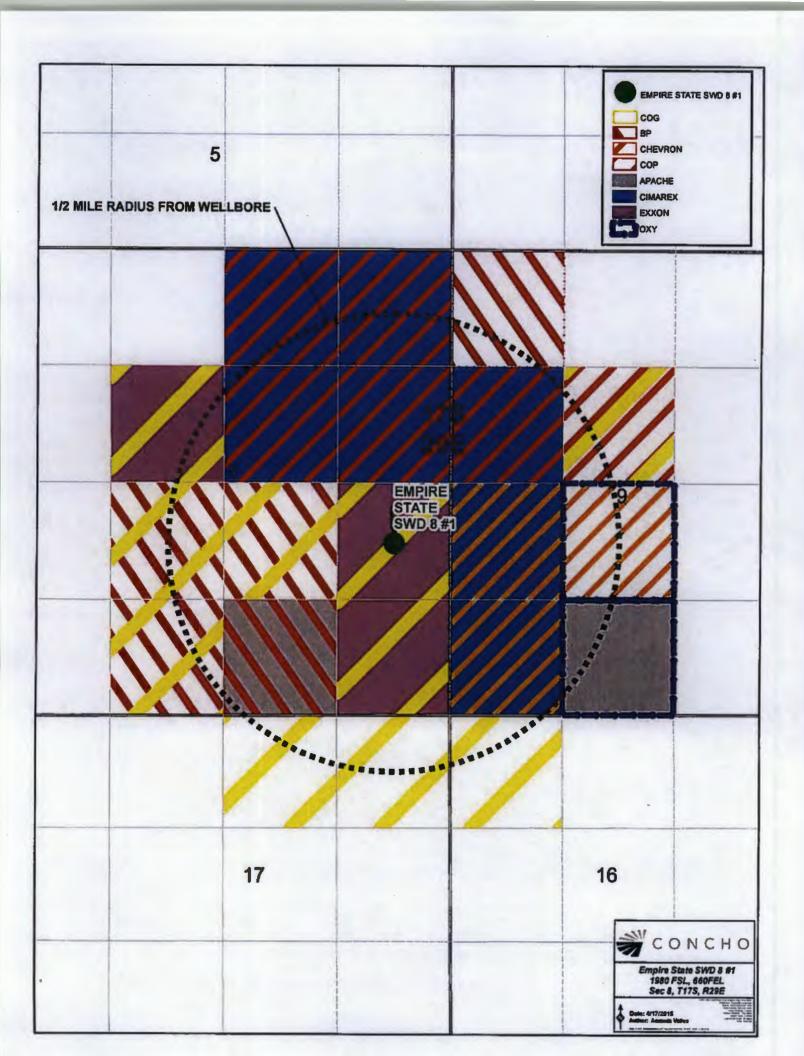


William V. Jones, P.E., District IV Supervisor

Oil Conservation Division http://www.emnrd.state.nm.us/ocd/ 1220 South St. Francis Drive, Santa Fe, NM 87505

P: 505.476.3477 C: 505.419.1995

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Sec. 8: NE4NE4 (A)	Cimarex Energy	600 N. Marienfeld Street Midland, TX 79701
Sec. 8: NW4NE4 (B)	Cimarex Energy	600 N. Marienfeld Street Midland, TX 79701
Sec. 8: SE4NW4 (F)	900	
Sec. 8: SW4NE4 (G)	Cimarex Energy	600 N. Marienfeld Street Midland, TX 79701
Sec. 8: SE4NE4 (H)	Cimarex Energy	600 N. Marienfeld Street Midland, TX 79701
Sec. 8: NE4SW4 (K)	903	
Sec. 8: NW4SE4 (J)	900	
Sec. 8: NE4SE4 (I)	900	
Sec. 8: SE4SW4 (N)	903	
Sec. 8: SW4SE4 (O)	Apache Corporation	303 Veterans Airpark Lane Midland, TX 79705
Sec. 8: SE4SE4 (P)	900	
Sec. 17: NWNE4 (B)	900	
Sec. 17: NE4NE4 (A)	903	
Sec. 16: NW4NW4 (D)	903	
Sec. 9: NW4NW4	(2)	
Sec. 9: SW4NW4 E	Cimarex Energy	600 N. Marienfeld Street Midland, TX 79701
Sec 9: NW4SW4 (L)	Cimarex Energy	600 N. Marienfeld Street Midland, TX 79701
Sec. 9: SW4SW4 (M)	Cimarex Energy	600 N. Marienfeld Street Midland, TX 79701
Sec. 9; SE4NW4 (F)	(000	
Sec. 9: NEASWA (K)	Oity USA	P.O. Box 4294 Houston, TX 77210
Sec. 9: SE4SW4 (N)	Cimarex Energy	600 N. Marlenfeld Street Midland, TX 79701
Sec. 9: SE4SW4 (N)	ASU yyo	P.O. Box 4294 Houston, TX 77210

	Lessee of Record	Address
Sec. 8: NEANE4 (A)	ConocoPhillips Co.	Attn: Patsy L. Clugston 3401 E. 30th Street Farmington, NM 87402
Sec. 8: NW4NE4 (B)	ConocoPhillips Co.	Attn: Patsy L. Clugston 3401 E. 30th Street Farmington, NM 87402
Sec. 8: SE4NW4 (F)	Exxon Mobil Corporation	Attn: Liz Tindol P.O. Box 4358 Houston, TX 77210-435
Sec. 8: SW4NE4 (G)	ConocoPhillips Co.	Attn: Patsy L. Clugston 3401 E. 30th Street Farmington, NM 87402
Sec. 8: SEANE4 (H)	ConocoPhillips Co.	Attn: Patsy L. Clugston 3401 E. 30th Street Farmington, NM 87402
Sec. 8: NE4SW4 (K)	BP America Production Co.	P.O. Box 3092 Houston, TX 77253-3092
Sec. 8: NW4SE4 (J)	BP America Production Co.	P.O. Box 3092 Houston, TX 77253-3092
Sec. 8: NE4SE4 (I)	Exxon Mobil Corporation	Attn: Liz Tindol P.O. Box 4358 Houston, TX 77210-435
Sec. 8: SE4SW4 (N)	BP America Production Co.	P.O. Box 3092 Houston, TX 77253-3092
Sec. 8: SW4SE4 (O)	BP America Production Co.	P.O. Box 3092 Houston, TX 77253-3092
Sec. 8: SE4SE4 (P)	Exxon Mobil Corporation	Attn: Liz Tindol P.O. Box 4358 Houston, TX 77210-435
Sec. 17: NWNE4 (B)	900	
Sec. 17: NE4NE4 (A)	900	
Sec. 16: NW4NW4 (D)	900	
Sec. 9: NW4NW4 (D)	BP America Production Co.	P.O. Box 3092 Houston, TX 77253-3092
Sec. 9: SW4NW4 E	ConocoPhillips Co.	Attn: Patsy L. Clugston 3401 E. 30th Street Farmington, NM 87402
Sec 9: NW4SW4 (L)	Chevron USA, Inc.	Attn: Sandy Stedman-Daniel 1400 Smith Street Houston, TX 77002
Sec. 9: SW4SW4 (M)	Chevron USA, Inc.	Attn: Sandy Stedman-Daniel 1400 Smith Street Houston, TX 77002
Sec. 9: SEANW4 (F)	ConocoPhillips Co:	Attn: Patsy L. Clugston 3401 E. 30th Street Farmington, NM 87402
Sec. 9: NE4SW4 (K)	Chevron USA, Inc.	Attn: Sandy Stedman-Daniel 1400 Smith Street Houston, TX 77002

Attn: Peggy Glark 2000 Post Oak Bivd., Suite 100 Houston, TX 77056	
ZPZ Delaware I LLC	



Apache Corporation 303 Veterans Airpark Ln, #600 Midland, TX 79705

Certified Mail Article Number: 91 7199 9991 7033 4974 9868

Re: Application for SWD well on the:

Empire State SWD 8 #1
API# 30-015-38973
Sec 8, 17S, R29E, Unit I
1980' FSL & 660' FEL
SWD;Cisco (96099)
Eddy County, New Mexico

To Whom It May Concern:

This letter will serve as notice under Rule 19.15.26.8B that COG Operating LLC has applied for a permit from the Oil Conservation Division in Santa Fe, NM for a new SWD well. We will be disposing of produced water, into the Cisco Reef, depths 8300' to 8900'.

Should your company have any objection, it must be filed in writing within fifteen (15) days from the date of this notice. If the Oil Conservation Division determines the application complies with the applicable regulations, then it will be approved. The New Mexico Oil Conservation Division address is 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505, the telephone number is 505-476-3200.

Sincerely,



One Concho Center 600 West Illinois Avenue Midland, Texas 79701



91 7199 9991 7033 4974 **9868**

Apache Corporation 303 Veterans Airpark Ln, Suite 600 Midland, TX 79705

CONSTRUCTION OF A STATE OF A STAT	
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	A. Signature X
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.	B. Received by (Printed Name) C. Date of Deliver
1. Article Addressed to:	D. is delivery address different from Item 1? Yes If YES, enter delivery address below: No
Apache Corporation 303 Veterans Airpark Ln, Suite 600	
Midland, TX 79705	3. Service Type Contified Mail* Priority Meil Express* Registered Receipt for Merchandist Insured Meil
	4. Restricted Delivery? (Extra Fee) Yes
2. Article Number (Transfer from service label) 91 71	99 9991 7033 4974 9868
PS Form 3811, July 2013 Domestic Re	The state of the s



Freedom Energy LLC R649 N. 13th Street Lake Arthur, NM 88253

Certified Mail Article Number: 91 7199 9991 7033 5027 3871

Re: Application for SWD well on the:

Empire State SWD 8 #1
API# 30-015-38973
Sec 8, 17S, R29E, Unit I
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One Concho Center 600 West Illinois Avenue M'dland, Texas 79701



91 7199 9991 7033 5027 3871

Freedom Energy LLC R649 N 13th Street Lake Arthur, NM 88253

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1. Article Addressed to:	D. Is delivery address different from Item 1?
Freedom Energy LLC R649 N 13 th Street	
Lake Arthur, NM 88253	S. Service Type E. Certified Mail* Priority Mail Express** Propiet Mail Priority Mail Express** Registered Peturn Receipt for Merchandise Collect on Delivery
	4. Restricted Delivery? (Extra Fee)
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PS Form 3811, July 2013 Domestic Re	stum Receipt



Cimarex Energy 600 N Marienfeld Street Midland, TX 79701

Certified Mail Article Number: 91 7199 9991 7033 4974 9738

Re: Application for SWD well on the:

Empire State SWD 8 #1
API# 30-015-38973
Sec 8, 17S, R29E, Unit I
1980' FSL & 660' FEL
SWD; Cisco (96099)
Eddy County, New Mexico

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Sincerely,



One Concho Center 300 West Illinois Avenue Midland, Texas 79701



91 7199 9991 7033 4974 9738

Cimarex Energy 600 N Marienfeld Street Midland, TX 79701

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Aidland, TX 79701	3. Service Type \$\int_{\text{C}}^{\text{C}}\text{Certifled Meil}^{\text{P}} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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Form 3811, July 2013 Domestic Re	otum Receipt



ConocoPhillips Company Attn: Patsy L Clugston 3401 E 30th Street Farmington, NM 87402

Certified Mail Article Number: 91 7199 9991 7033 4974 9714

Re: Application for SWD well on the:

Empire State SWD 8 #1
API# 30-015-38973
Sec 8, 17S, R29E, Unit I
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Eddy County, New Mexico

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Sincerely.



One Concho Center 600 West Illinois Avenue Midland, Texas 79701



91 7199 9991 7033 4974 9714

ConocoPhillips Company Attn: Patsy L Clugston 3401 E 30th Street Farmington, NM 87402

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Exxon Mobil Corporation Attn: Liz Tindol PO Box 4358 Houston, TX 77210-4358

Certified Mail Article Number: 91 7199 9991 7033 5027 3581

Re: Application for SWD well on the:

Empire State SWD 8 #1 API# 30-015-38973 Sec 8, 17S, R29E, Unit I 1980' FSL & 660' FEL SWD;Cisco (96099) Eddy County, New Mexico

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Sincerely,



One Concho Center 600 West Illinois Avenue Midland, Texas 79701



91 7199 9991 7033 5027 3581

Exxon Mobil Corporation Attn: Liz Tindol PO Box 4358 Houston, TX 77210-4358

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Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired. Print your name and address on the reverse	A. Signature X	☐ Agent☐ Addressee
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.	B. Received by (Printed Name)	C. Date of Delivery
1. Article Addressed to:	D. is delivery address different from if YES, entar delivery address be	
Exxon Mobil Corporation Attn: Liz Tindol		
PO Box 4358 Houston, TX 77210-4358	3. Service Type SC Certified Mail* Priority M Registered Return Re Insured Mail Collect or	scelpt for Merchandise
	4. Restricted Delivery? (Extra Fee)	☐ Yes
2. Article Number (Transfer from service label) 91 719	9 9991 7033 5027	3581
PS Form 3811, July 2013 Domestic R		



BP America Production Company PO Box 3092 Houston, TX 77253-3092

Certified Mail Article Number: 91 7199 9991 7033 5027 3574

Re: Application for SWD well on the:

Empire State SWD 8 #1
API# 30-015-38973
Sec 8, 17S, R29E, Unit I
1980' FSL & 660' FEL
SWD;Cisco (96099)
Eddy County, New Mexico

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Sincerely,



One Concho Center 600 West Illinois Avenue Midland, Texas 79701



91 7199 9991 7033 5027 3574

BP America Production Company PO Box 3092 Houston, TX 77253-3092

2. Article Number (Transfer from service lebel) PS Form 3811, July 2013		9991 7033 5027 35	74
		4. Restricted Delivery? (Extra Fee)	□ Yes
Houston, TX 77253-3092			Mail Express** Receipt for Merchandise on Delivery
BP America Production Comp PO Box 3092	oany		
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so that we can return the card to Attach this card to the back of the or on the front if space permits.		B. Received by (Printed Name)	C. Date of Delivery
 Complete items 1, 2, and 3. Also item 4 if Restricted Delivery is des Print your name and address on till 	ired.	A. Signature X	☐ Agent ☐ Addressee
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Chevron USA, INC Attn: Sandy Stedman-Daniel 1400 Smith Street Houston, TX 77002

Certified Mail Article Number: 91 7199 9991 7033 5027 3567

Application for SWD well on the: Re:

Empire State SWD 8 #1 API# 30-015-38973 Sec 8, 17S, R29E, Unit I 1980' FSL & 660' FEL SWD;Cisco (96099) **Eddy County, New Mexico**

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Sincerely,



One Concho Center 600 West Illino's Avenue Midland, Texas 79701



91 7199 9991 7033 5027 3567

Chevron USA, INC Attn: Sandy Stedman-Daniel 1400 Smith Street Houston, TX 77002

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	A. Signature ☐ Agent ☐ Addressee
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Article Addressed to:	D. Is delivery address different from item 1?
Chevron USA, INC Attn: Sandy Stedman-Daniel	
1400 Smith Street Houston, TX 77002	3. Service Type ###################################
	4. Restricted Delivery? (Extra Fee) Yes
Article Number (Transfer from service label) 71, 71.	99 9991 7033 5027 3567
PS Form 3811, July 2013 Domesti	c Return Receipt



ZPZ Delaware LLC 2000 Post Oak Blvd, Suite 100 Houston, TX 77056

Certified Mail Article Number: 91 7199 9991 7033 5027 3550

Re: Application for SWD well on the:

Empire State SWD 8 #1 API# 30-015-38973 Sec 8, 17S, R29E, Unit I 1980' FSL & 660' FEL SWD;Cisco (96099) Eddy County, New Mexico

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Sincerely,



One Concho Center 600 West Illinois Avenue Midland, Texas 79701



91 7199 9991 7033 5027 3550

ZPZ Delaware LLC 2000 Post Oak Blvd, Suite 100 Houston, TX 77056

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Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired. Print your name and address on the reverse	A. Signature X □ Agent □ Addresses
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.	B. Received by (Printed Name) C. Date of Delivery
Article Addressed to:	D. Is delivery address different from item 1?
ZPZ Delaware LLC 2000 Post Oak Rhyd, Suite 100	
2000 Post Oak Blvd, Suite 100	3. Service Type SC Certified Mail* Priority Mail Express* Registered Return Receipt for Merchandise Insured Mail Collect on Delivery
2000 Post Oak Blvd, Suite 100	El Certified Mail* ☐ Priority Meil Express* Registered ☐ Return Receipt for Merchandise
2000 Post Oak Blvd, Suite 100 Houston, TX 77056	## ED Certified Mail* □ Priority Mail Express* □ Registered □ Return Receipt for Merchandise □ Insured Mail □ Collect on Delivery

From:

Jones, William V, EMNRD

Sent:

Friday, May 15, 2015 10:39 AM

To:

'Kanicia Castillo'

Cc:

Goetze, Phillip, EMNRD; McMillan, Michael, EMNRD; Kautz, Paul, EMNRD

Subject:

COG SWD application for the Empire State SWD 8 Well No. 1 30-015-38973 Cisco Reef

Logs Missing

Hey Kanicia,

I am releasing this SWD permit to Mr. Catanach for his signature, but

.... Am also asking you to send the elogs run to-date on this well to the Hobbs district office for scanning. We have no logs visible for this well.

Regards,

Will

C-108 Review	/ Checklist: Rece	9/23/14	3/6/15	4/21/15	Suspended: [Ver 14]	
Mark Call			\mathcal{A}	1 -	ts/Orders:	
Well No Well Name(s	s): EARTH	TATESTO	F B	MPING TOTAL	SWDS well No. 1	
PI:30-0 5-38973	Spud Date:	2-17-12	New or Old:	(UIC Class II I	Primacy 03/07/1982)	
ootages 1980 FSU660 1	FEL LOL	or Unit T Sec _	8 Tsp 17	S Rge 29E	County EPDY	
ieneral Location: North &R	of East	of Paca Pool:	Empi	ne_	Pool No.:	
LM 100K Map:	_Operator: _COG	OPERATING L	LC OGRID:	289137 Contac	:Kariesi Caplello	
OMPLIANCE RULE 5.9: Total Well	s: 3805 Inactive:	Fincl Assur:	o K _{Compl.}	Order? IS 5	.9 OK? Date 36/15	
VELL FILE REVIEWED Current			•		•	
		,			, , ,	
VELL DIAGRAMS: NEW: Proposed	or RE-ENTER: B	efore Conv. () After	Conv. () L	ogs in Imaging:	161 Naceura	
Planned Rehab Work to Well:						
Well Construction Details	Sizes (in)	Setting		Cement	Cement Top and	
	Borehole / Pipe	Depths (ft)		Sx or C1	Determination Method	
Planned _or Existing _Surface		40	Stage Tool*	1265	eire	
Planned or Existing Interm/Frod		200 - 200 1			CIRC	
Planned or Existing Interm/Prod		256		750	CIRC	
Planned or Existing Prod/Liner		7500	706	400/1050	CINC/CIRC	
	17 5		Inj Length	Marie Physics	Thinking the party of the control of	
Planned or Existing OH / PERF 6 /8 (\$250 _ 9,000)			Completion/Operation Details:			
Injection Lithostratigraphic Units:	Depths (ft)	njection or Confinir Units	g Tops	Drilled TD 8566 PBTD		
Adjacent Unit: Litho. Struc. Por.		m.c.	~	NEW TD 900 NEW PBTD		
Confining Unit: Litho. Struc. Por.	85 67+	Ponn	1 /		or NEW Perfs	
Proposed Inj Interval TOP:		CISCO (Tubing Size 7 in. Inter Coated? ft		
Proposed Inj Interval BOTTOM:		MANAL I SALES OF THE SALES OF T	1982			
Confining Unit: Litho. Struc. Por. Adjacent Unit: Litho. Struc. Por.	9625	STrown		Min. Packer Depth (100-ft limit) Proposed Max. Surface Press psi		
	AOR: Hydrologic and Geologic Information Admin. Inj. Press. 1613. (0.2 psi per					
POTASH: R-111-P () Noticed?	AUDITALY COMMUNICATION OF THE PROPERTY OF THE	MADE TO THE TANKE OF THE PARTY OF THE	T IAS			
the court integer has a trace integer regions.	Augustion conteger congress I am a second	William Control of the Carte Carte Control				
FRESH WATER: Aquifer 300				The Committee of the Co	NT By Qualified Person	
NMOSE Basin:				1687 July 1 72 AMIN'S A	FW Analysis	
Disposal Fluid: Formation Source(s) <u>y oao</u>	Analy	sis?	On Lease Operat	or Only () or Commercial (
Disposal Int: Inject Rate (Avg/Max						
HC Potential: Producing Interval?_	NO Formerly Produc	ing?_ NO Method:	Logs/DST/P&A	Other South Swi	2-Mile Radius Pool Map	
AOR Wells: 1/2-M Radius Map?		NUMBER TO SOME STORE OF THE	sarin silalinka		trible of the first section of the s	
Penetrating Wells: No. Active Wel	IsNum Repairs?	on which well(s)			Diagrams?	
Penetrating Wells: No. P&A Wells	Num Repairs?	on which well(s)?			Diagrams?_/	
NOTICE: Newspaper Date 7/1	Mineral O	wner_Sto	Surface C	Owner S LO	N. Date 1/6	
RULE 26.7(A): Identified Tracts?	Affected Perso	ons: Charace / 1	tpache/	AW XXO	N. Date 9/16	
	0.4.				on 85Tate COM	
ermit Conditions: Issues:_						
dd Permit Cond:	CAR IN	4150 Rocky	100	CIECC	, , , , , , , , , , , , , , , , , , , ,	