

DATE IN 6/23/15	SUSPENSE	ENGINEER WVJ	LOGGED IN 6/27/15	TYPE SWD	APP NO. PWVTJ/517850230
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☒ Offset Operators, Leaseholders or Surface Owner
- [C] ☒ Application is One Which Requires Published Legal Notice
- [D] ☒ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

<u>BRIAN COLLINS</u> Print or Type Name	_____ Signature	<u>Operations Engineering Advisor</u> Title	_____ Date
		<u>bcollins@concho.com</u> e-mail Address	

RECEIVED OCD
 2015 JUN 23 P 3:35

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 West Main St, Artesia, NM 88210
CONTACT PARTY: BRIAN COLLINS PHONE: 575-748-6940
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes X No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: BRIAN COLLINS TITLE: Operations Engineering Advisor
SIGNATURE: _____ DATE: _____
E-MAIL ADDRESS: bcollins@concho.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

C-108 Application for Authorization to Inject
COINFLIP 18 STATE SWD 1
380' FSL, 760' FWL
Unit M, Sec 18, T20S, R30E
Eddy County, NM

COG Operating, LLC, proposes to drill the captioned well and make it into an open hole Devonian-Silurian-Ordovician SWD well from approximately 12,950' to 14,650'.

- V. Map is attached.
- VI. No wells within the ½ mile radius area of review penetrate the proposed injection zone.
- VII.
 - 1. Proposed average daily injection rate = 17,300 BWPD
Proposed maximum daily injection rate = 25,000 BWPD
 - 2. Closed system
 - 3. Proposed maximum injection pressure = 2590 psi
(0.2 psi/ft. x 12950' ft.)
 - 4. Source of injected water will be Delaware Sand, Bone Spring and Wolfcamp produced water. No compatibility problems are expected (we've seen no compatibility issues in other Devonian SWDs that take the same produced water as the proposed SWD well). Analyses of Delaware, Bone Spring and Wolfcamp waters are attached. There are no Devonian-Silurian-Ordovician receiving formation water analyses available in this area.
- VIII. The injection zone is the Devonian-Silurian-Ordovician from 12950' to 14650' which is composed of porous limestone and dolomite. Any underground water sources will be shallower than 250' based on water well records in the SW/4, Section 12, T20S, R29E.
- IX. The Devonian-Silurian-Ordovician injection interval will be acidized with approximately 40,000 gals of 20% HCl acid.
- X. Well logs, if run, will be filed with the Division. There are no nearby well logs available for the Devonian-Silurian-Ordovician section.
- XI. There are no fresh water wells within a mile of the proposed SWD well.
- XII. After examining the available geologic and engineering data, no evidence was found of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Proof of Notice is attached.

III.

WELL DATA

INJECTION WELL DATA SHEET

OPERATOR: COG Operating, LLC

WELL NAME & NUMBER: CoinFlip 18 State SWD #1

WELL LOCATION: 380' FSL 760' FWL M 18 20s 30e
 FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8" @ ± 1600'
 Cemented with: - sx. or ± 2200' ft³
 Top of Cement: Surface Method Determined: Design

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 9 5/8" @ ± 3500'
 Cemented with: - sx. or ± 2000' ft³
 Top of Cement: Surface Method Determined: Design

Production Casing

Hole Size: 8 3/4" Casing Size: 7" @ ± 12,950'
 Cemented with: - sx. or ± 2500' ft³
 Top of Cement: 1500' Method Determined: Design
 Total Depth: 14,650'

Injection Interval

12,950' feet to 14,650'

(Perforated or Open Hole indicate which)

See Attached Schematic

INJECTION WELL DATA SHEET

Tubing Size: 4 1/2" Lining Material: Duoline 20 / Glassbore

Type of Packer: 10K nickel plated double grip retrievable

Packer Setting Depth: $\pm 12900'$

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1. Is this a new well drilled for injection? ☒ Yes ☐ No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Devonian / Silurian / Ordovician

3. Name of Field or Pool (if applicable): Parkway / Burton Flat

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

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

Overlying: Yates 1400-1650'±, Delaware 5800-6200'± (potential),

Bone Spring 7400-9600'±, Strawn 10750-11025'±,

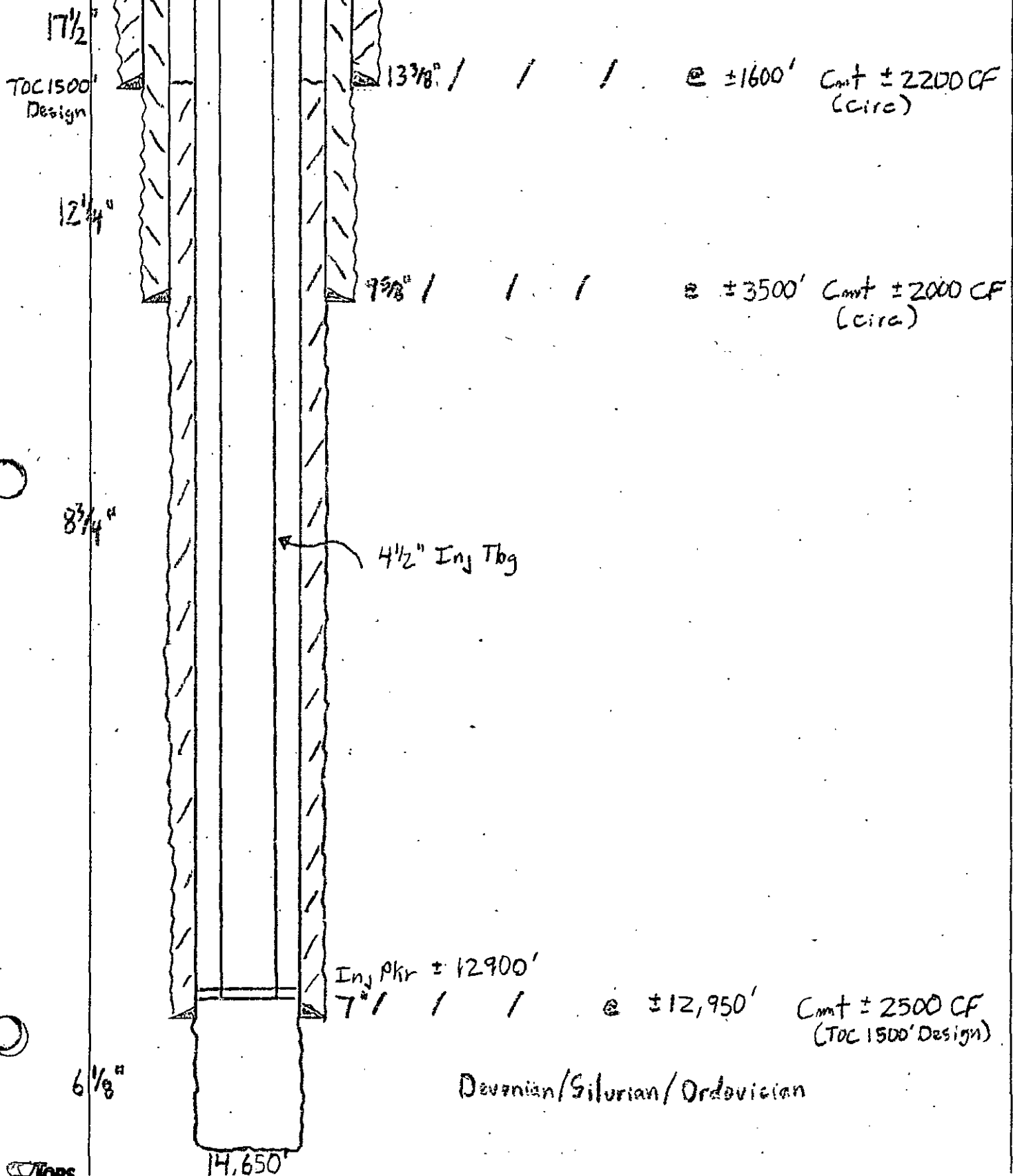
Morrow 11250-12150'±

Underlying: None

30-015 -

Coin Flip 18 State SWD #1
380' FSL, 760' FWL
M - 18 - 20s - 30e
Eddy NM

E3001
KB:
6L:



V.

MAP

Form 9-580

Form approved
Budget Bureau No. G-12M-4U. S. LAND OFFICE Artesia
SERIAL NUMBER LC 029003-4
LEASE OR PERMIT TO PROSPECT LeaRECEIVED
OCT 15 1963UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OCT 28 1963

D. C. C.
ARTESIA OFFICE

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Odeco Natural Gasoline Co. Address Box 3908, Odessa, Texas
 Lessor or Tract Federal Dunley Field Undesignated State New Mexico
 Well No. 1 Sec. 24 T. 20S R. 29E Meridian NMP County Tddy
 Location 560 ft. of N Line and 560 ft. of E Line of Sec. 24 Elevation 3325
 The information given herewith is a complete and correct record of the well and all work done thereon
 so far as can be determined from all available records.

Date October 23, 1963 Title Production Superintendent
 The summary on this page is for the condition of the well at above date.

Commenced drilling May 19, 1963 Finished drilling October 3, 1963

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 12,102 to 12,225 (G) No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of case	Cut and pulled from	Perforated		Purpose
							From	To	
13-3/8	44	8	Met V	1301	Baker				Curtains
9-5/8	36	8	J & L	1102	Baker				Sub-string
7	32	8	J & L	1004	Baker				Intermediate
2 1/2	24	8	J & L	1004	Baker				Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number cups of cement	Method used	Mud gravity	Amount of mud used
20	380'	755'	Pap & Plug	N-O-N-E	
13-3/8	1102'	1175'	Pap & Plug	N-O-N-E	
9-5/8	3767'	1515'	Pap & Plug	N-O-N-E	
7	12104'	800'	Pap & Plug	N-O-N-E	

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Baker Cut Retainer set @ 13,017'. Squeezed below w/80
 Adapters—Material _____ Size she-nest to 3500 psi. Damped 34 she-nest on
 SHOOTING RECORD top of retainer. PSD 12,817'

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ feet to 13,415 feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

October 23, 1963 10-18-1963 Completed: 10-18-1963
 The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ %
 emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____
 If gas well, cu. ft. per 24 hours COF: 15.7 MM Gallons gasoline per 1,000 cu. ft. of gas
 Rock pressure, lbs. per sq. in. CFPD Gas/Liquid Ratio: 333,000 cu ft/bbl.

EMPLOYEES

E. Buchanan, Driller W. P. Tadlock, Driller
R. L. Blakney, Driller C. V. Kneen, Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
			TOPS: (Log)
			Delaware 3896'
			Bone Springs 6406'
			First Bone Springs 7416'
			Second Bone Springs 8177'
			Third Bone Springs Sand 9137'
			Walcamp 9839'
			Cisco 10430'
			Canyon Shale 10564'
			Stream 10755'
			Atoka 11036'
			Morrow 11324'
			Morrow Ls 11364'
			Morrow Sand 11850'
			Chester 12268'
			Bennett 12519'
			Lower Mississippi 12640'
			Woodford 13124'
			Devonian 13192'
			Silurian 13328'
0	200'	200'	Gas & line.
200'	408'	208'	Anhydrite
408'	995'	587'	Salt
995'	2008'	1013'	Anhydrite (Cont'd on next Pg.)

OFFS-OR
TO PS

1 1/2 mi SW

Total 1963
OH.
SQZED
10/4/63

(LOCATED \approx 1 mile NW)

YATES PETROLEUM CORPORATION

Zia AHZ Federal Com #2-H

983' FNL and 2490' FWL, Section 13-20S-29E, Surface Hole Location

760' FNL & 2310' FEL, Section 14-20S-29E, Bottom Hole Location

Eddy County, New Mexico

1. The estimated tops of geologic markers are as follows:

Rustler	269'	Bone Spring LM	6209'-Oil
Top of Salt	344'	Avalon Shale	6324'
Base of Salt	1254'	Middle Avalon	6504'-Oil
Tansill	1299'	Lower Avalon	6864'-Oil
Yates	1403'	Bone Spring 1 /SD/	7314'-Oil
Capitan Reef	1864'	Bone Spring 2 /SD/	8185'-Oil
Cherry Canyon	3434'-Oil	Target Sand	8636'-Oil
Brushy Canyon	4644'-Oil	TD Lateral	12955'

2. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water: 100'
Oil or Gas: See above.

3. Pressure Control Equipment: Yate Petroleum Corporation respectfully requests a variance to allow placement of a 2000 PSI annular system with a 17.5" opening to be installed on the 20" casing. The annular will be pressured up to 1000 PSI and held for 30 minute test period. 3000 PSI BOPE with a 13.625" opening will be installed on the 13.3/8" casing and also on the 9 5/8" casing. Pressure tests to 3000 PSI and held for 30 minutes will be conducted before drilling out from under all casing strings, which are set and cemented in place. Blowout Preventer controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.

4. Auxiliary Equipment: Kelly cock, pit level indicators, flow sensor equipment, and a sub with full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when Kelly is not in use.

5. THE PROPOSED CASING AND CEMENTING PROGRAM:

A. Casing Program: All new casing to be used

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt./Ft</u>	<u>Grade</u>	<u>Coupling</u>	<u>Interval</u>	<u>Length</u>
36"	30"		H-40		0-40	40'
26"	20"	94#	H-40	ST&C	0-300'	300'
17 1/2"	13 3/8"	54.5#	J-55	ST&C	0-100'	100'
17 1/2"	13 3/8"	48#	H-40	ST&C	100'-1100'	1000'
17 1/2"	13 3/8"	54.5#	J-55	ST&C	1100'-1400'	300'
12 1/4"	9 5/8"	36#	K-55	LT&C	0-3500'	3500'
8 3/4"	5 1/2"	17#	HCP- 110	LT&C	0'-8636'	8636'
8 1/2"	5 1/2"	17#	L-80	LT&C	8636'-12955'	4319'

Minimum Casing Design Factors: Burst 1.0, Tensile Strength 1.8, Collapse 1.125

B. CEMENTING PROGRAM:

Surface Casing: Lead with 675 sacks Class C with CaCl₂ (Wt. 14.80 Yld 1.34). Designed with 100% excess cement. TOC is surface.

COINFLIP 18 STATE SWD 1
380' FSL & 760' FWL
SEC 18: T20S, R30E

Area: 2.03 sq km
Perimeter: 3.14 mi

 Occidental Oil and Gas Corporation (OXY)
5 Greenway Plaza, Suite 110
Houston, Texas 77046

VI.

**No Wells Penetrate
Proposed Disposal
Interval Within Half
Mile Area of Review**

VII.

Water Analysis Produced Formation Water

**No Water Analyses
Available for Receiving
Formation**

1/2

WATER SAMPLES REPRESENTATIVE OF WATER BEING INJECTED INTO THE PROPOSED SWD WELL

Delaware												
Lab Test #	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	pH	conductivity	Ca (mg/L)	Mg (mg/L)
2011128362	Sly Hawk State	1	William D Polk	9/28/2011	9/13/2011	1.17	4.06	256802.26	6.50		26180.00	4101.14
Bone Spring												
Lab Test #	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	pH	conductivity	Ca (mg/L)	Mg (mg/L)
2012108003	Boyles	24 1H	William D Polk	4/16/2012	4/3/2012	1.13	3.41	206441.81	6.69		3700.86	841.87
Wolfcamp												
Lab Test #	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	pH	conductivity	Ca (mg/L)	Mg (mg/L)
2012105892	Augustus 10	1H		3/15/2012	3/8/2012	1.06	1.46	89771.55	6.60		3963.30	639.83

2/2

TH (CaCO3)	Na (mg/L)	K (mg/L)	Zn (mg/L)	Fe (mg/L)	Ba (mg/L)	Sr (mg/L)	Mn (mg/L)	Resistivity	HCO3 (mg/L)	CO3 (mg/L)	OH (mg/L)	SO4 (mg/L)	Cl (mg/L)	CO2 (mg/L)	H2S (mg/L)
83379.63	62970.16	1133.12	38.78	20.06	1.64	905.03	9.33		73.00	0.00		70.00	161300.00	360.00	0.00
TH (CaCO3)	Na (mg/L)	K (mg/L)	Zn (mg/L)	Fe (mg/L)	Ba (mg/L)	Sr (mg/L)	Mn (mg/L)	Resistivity	HCO3 (mg/L)	CO3 (mg/L)	OH (mg/L)	SO4 (mg/L)	Cl (mg/L)	CO2 (mg/L)	H2S (mg/L)
13271.35	69386.15	1109.30	0.00	17.57	0.00	483.07	0.00		1403.00	0.00		700.00	128800.00	400.00	0.00
TH (CaCO3)	Na (mg/L)	K (mg/L)	Zn (mg/L)	Fe (mg/L)	Ba (mg/L)	Sr (mg/L)	Mn (mg/L)	Resistivity	HCO3 (mg/L)	CO3 (mg/L)	OH (mg/L)	SO4 (mg/L)	Cl (mg/L)	CO2 (mg/L)	H2S (mg/L)
13352.51	28320.32	350.70	0.00	17.85	1.77	707.79	0.00		220.00	0.00		950.00	54600.00	60.00	0.00

X.

**No Log Available Across
Proposed
Devonian/Silurian/Upper
Ordovician Injection Interval**

XI.

Fresh Water Sample Analyses



New Mexico Office of the State Engineer
Active & Inactive Points of Diversion
(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 7, 8, 17, 18, 19, **Township:** 20S **Range:** 30E
20



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

(acre ft per annum)				C=the file is closed)				(quarters are smallest to largest) (NAD83 UTM in meters)								
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416 4	Sec	Tws	Rng	X	Y	
CP 00740		PRO		3 YATES PETROLEUM CORP.	ED	CP 00740				2	3	3	12	20S	29E	590669 3605509*
CP 00745		PRO		0 YATES PETROLEUM	ED	CP 00745			Shallow	4	1	3	12	20S	29E	590653 3605782
CP 00832		PLS		3 SNYDER RANCHES	LE	CP 00832			Shallow	2	3	12	20S	29E	590971 3605815*	
CP 01111		PRO		0 CONCHO OIL AND GAS	ED	CP 00745			Shallow	4	1	3	12	20S	29E	590653 3605782
CP 01112		PRO		0 CONCHO OIL & GAS	ED	CP 00745			Shallow	4	1	3	12	20S	29E	590653 3605782
CP 01113		PRO		0 BUREAU OF LAND MANAGEMENT	ED	CP 00745			Shallow	4	1	3	12	20S	29E	590653 3605782

>1 mile away

Record Count: 6

PLSS Search:

Section(s): 12, 13, 24

Township: 20S

Range: 29E

Sorted by: File Number

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/4/15 4:09 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number


CP 00740

Q64 Q16 Q4 Sec Tws Rng

2 3 3 12 20S 29E

X

Y

590669 3605509* 

Driller License: 46

Driller Name: ABBOTT, MURRELL

Drill Start Date: 02/14/1989

Drill Finish Date: 02/19/1989

Plug Date: 02/27/1989

Log File Date: 03/02/1989

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well: 150 feet

Depth Water:

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/4/15 4:12 PM

Page 1 of 1

POD SUMMARY - CP 00740



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

CP 00745

Q64 Q16 Q4 Sec Tws Rng

4 1 3 12 20S 29E

X

Y

590653 3605782

Driller License: 421

Driller Name: GLENN, CLARK A. "CORKY" (LD)

Drill Start Date: 12/09/1989

Drill Finish Date: 12/09/1989

Plug Date:

Log File Date: 12/19/1989

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 150 GPM

Casing Size: 6.63

Depth Well: 232 feet

Depth Water:

Water Bearing Stratifications:

Top Bottom Description

179 219 Limestone/Dolomite/Chalk

Casing Perforations:

Top Bottom

172 232

Meter Number: 8512

Meter Make: MASTER

Meter Serial Number: 317700

Meter Multiplier: 100.0000

Number of Dials: 6

Meter Type: Diversion

Unit of Measure: Gallons

Return Flow Percent:

Usage Multiplier:

Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount
09/23/2003	2003	43554	A	jw		0
11/26/2003	2003	53304	A	jw		2.992
01/16/2004	2004	63504	A	jw		3.130
03/17/2004	2004	73274	A	jw		2.998
12/13/2004	2004	24507	A	jw		0
02/14/2005	2005	24507	A	RPT		0

**YTD Meter Amounts:	Year	Amount
	2003	2.992
	2004	6.128
	2005	0

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.



New Mexico Office of the State Engineer Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

CP 00832

Q64 Q16 Q4 Sec Tws Rng

2 3 12 20S 29E

X

Y

590971 3605815*

Driller License: 122

Driller Name:

Drill Start Date:

Drill Finish Date:

Plug Date:

Log File Date:

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 50 GPM

Casing Size: 7.00

Depth Well: 200 feet

Depth Water:

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Y

CP 00745

4 1 3 12 20S 29E

590653 3605782

Driller License: 421

Driller Name: GLENN, CLARK A."CORKY" (LD)

Drill Start Date: 12/09/1989

Drill Finish Date: 12/09/1989

Plug Date:

Log File Date: 12/19/1989

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 150 GPM

Casing Size: 6.63

Depth Well: 232 feet

Depth Water:

Water Bearing Stratifications:

Top Bottom Description

179 219 Limestone/Dolomite/Chalk

Casing Perforations:

Top Bottom

172 232

Meter Number: 8512

Meter Make: MASTER

Meter Serial Number: 317700

Meter Multiplier: 100.0000

Number of Dials: 6

Meter Type: Diversion

Unit of Measure: Gallons

Return Flow Percent:

Usage Multiplier:

Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount
09/23/2003	2003	43554	A	jw		0
11/26/2003	2003	53304	A	jw		2.992
01/16/2004	2004	63504	A	jw		3.130
03/17/2004	2004	73274	A	jw		2.998
12/13/2004	2004	24507	A	jw		0
02/14/2005	2005	24507	A	RPT		0

**YTD Meter Amounts:	Year	Amount
	2003	2.992
	2004	6.128
	2005	0

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.



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Y

CP 00745

4 1 3 12 20S 29E

590653 3605782

Driller License: 421

Driller Name: GLENN, CLARK A. "CORKY" (LD)

Drill Start Date: 12/09/1989

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Plug Date:

Log File Date: 12/19/1989

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 150 GPM

Casing Size: 6.63

Depth Well: 232 feet

Depth Water:

Water Bearing Stratifications:

Top Bottom Description

179 219 Limestone/Dolomite/Chalk

Casing Perforations:

Top Bottom

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Unit of Measure: Gallons

Return Flow Percent:

Usage Multiplier:

Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount
09/23/2003	2003	43554	A	jw		0
11/26/2003	2003	53304	A	jw		2.992
01/16/2004	2004	63504	A	jw		3.130
03/17/2004	2004	73274	A	jw		2.998
12/13/2004	2004	24507	A	jw		0
02/14/2005	2005	24507	A	RPT		0

**YTD Meter Amounts:	Year	Amount
	2003	2.992
	2004	6.128
	2005	0

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.



June 9, 2015

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

Re: Legal Notice
Salt Water Disposal Well
Coinflip 18 State SWD #1

To Whom It May Concern:

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

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

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Brian Collins".

Brian Collins
Operations Engineering Advisor

BC/sw
Enclosures

CORPORATE ADDRESS

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701
PHONE 432.683.7443 | FAX 432.683.7441

LOCAL ADDRESS

Concho West | 2208 West Main Street | Artesia, New Mexico 88210
PHONE 575.748.6940 | FAX 575.748.6968

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 Coinflip 18 State SWD No. 1, is located 380' FSL & 760' FWL, Section 18, Township 20 South, Range 30 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware, Bone Spring and Wolfcamp formations. The disposal water will be injected into the Devonian-Silurian-Ordovician formation at a depth of 12950' to 14650' at a maximum surface pressure of 2590 psi and a maximum rate of 25,000 BWPD. The proposed SWD well is located approximately 16 miles northeast of Carlsbad. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at COG Operating LLC, 2208 W. Main Street, Artesia, NM 88210, or call 575-748-6940.

Published in the Artesia Daily Press, Artesia, New Mexico
_____, 2015.



June 18, 2015

RECEIVED OCD

2015 JUN 23 P 3:35

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

RE: Application For Authorization To Inject
Coinflip 18 State SWD #1
Township 20 South, Range 30 East, N.M.P.M.
Section 18: 380' FSL & 760' FWL
Eddy County, New Mexico

Dear Mr. Goetze:

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

Our geologic prognosis has the top of the Devonian at 13164'. I'm permitting the injection interval a couple of hundred feet shallower and deeper than the prognosis just in case the formation tops are different than expected due to the lack of deep well control in this area. We will likely call TD about 1250' to 1500' below the actual top of the Devonian when we drill the well.

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Brian Collins".

Brian Collins
Operations Engineering Advisor

BC/sw
Enclosures

Email: bcollins@concho.com



From: Jones, William V, EMNRD [<mailto:WilliamV.Jones@state.nm.us>]
Sent: Saturday, June 27, 2015 1:51 PM
To: Brian Collins
Cc: Goetze, Phillip, EMNRD; Dade, Randy, EMNRD; McMillan, Michael, EMNRD; Sanchez, Daniel J., EMNRD
Subject: SWD Application from COG Operating LLC: proposed Coinflip 18 State SWD Well No. 1 30-015-pending 380FSL 760FWL Unit M Sec 18 T20S R30E Devonian Silurian Upper Ordovician 1700 foot Open Hole

Hi Brian,

We received this and I looked it over yesterday.

It looked fine to me – I'll get it ready and wait for the end of the suspense period.

We are running these SWD applications by Phillip Goetze to maintain some sort of consistency – he will be back next week.

When you send the newspaper notice and the certified mailers,

.... please ask your regulatory person to also include a mailer showing notice of the SWD application to the State Land Office and the nearest Potash Lessee.

Hope all is going good with you.

Many 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

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

Jones, William V, EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Monday, August 17, 2015 9:45 AM
To: Jones, William V, EMNRD
Subject: RE: SWD Application from COG Operating LLC: proposed Coinflip 18 State SWD Well No. 1 30-015-pending 380FSL 760FWL Unit M Sec 18 T20S R30E Devonian Silurian Upper Ordovician 1700 foot Open Hole

Will:

I think I lost my faculties a long time ago, and it's getting worse! I think the well that was protested by Devon was the Darthow 19 State SWD 1 which was a Delaware Sand proposal in the section adjoining the Coinflip 18 State SWD 1. The Coinflip 18 State SWD 1 was submitted to replace the Darthrow application and it is hoped that no one will protest a deep Devonian SWD proposal. Devon was concerned about potential water flows in the Delaware when drilling wells in the area. Thanks.

Brian

From: Jones, William V, EMNRD [mailto:WilliamV.Jones@state.nm.us]
Sent: Monday, August 17, 2015 9:14 AM
To: Brian Collins
Subject: SWD Application from COG Operating LLC: proposed Coinflip 18 State SWD Well No. 1 30-015-pending 380FSL 760FWL Unit M Sec 18 T20S R30E Devonian Silurian Upper Ordovician 1700 foot Open Hole

Hi Brian,
Was this proposed SWD protested?
I suspect I am losing my faculties....

Will

CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

MVJ@concho.com

Jones, William V, EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Monday, June 29, 2015 7:32 AM
To: Jones, William V, EMNRD
Subject: RE: SWD Application from COG Operating LLC: proposed Coinflip 18 State SWD Well No. 1 30-015-pending 380FSL 760FWL Unit M Sec 18 T20S R30E Devonian Silurian Upper Ordovician 1700 foot Open Hole

Will:

You are dedicated working on a Saturday! I hope things are well with you and look forward to seeing you next time I'm in Santa Fe at NMOCD. I didn't even think about notifying the potash lessee. I will be sure to add them to future C108 notifications. Thanks for the heads up. Take care.

Brian

From: Jones, William V, EMNRD [mailto:WilliamV.Jones@state.nm.us]
Sent: Saturday, June 27, 2015 1:51 PM
To: Brian Collins
Cc: Goetze, Phillip, EMNRD; Dade, Randy, EMNRD; McMillan, Michael, EMNRD; Sanchez, Daniel J., EMNRD
Subject: SWD Application from COG Operating LLC: proposed Coinflip 18 State SWD Well No. 1 30-015-pending 380FSL 760FWL Unit M Sec 18 T20S R30E Devonian Silurian Upper Ordovician 1700 foot Open Hole

Hi Brian,

We received this and I looked it over yesterday.

It looked fine to me – I'll get it ready and wait for the end of the suspense period.

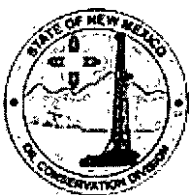
We are running these SWD applications by Phillip Goetze to maintain some sort of consistency – he will be back next week.

When you send the newspaper notice and the certified mailers,

.... please ask your regulatory person to also include a mailer showing notice of the SWD application to the State Land Office and the nearest Potash Lessee.

Hope all is going good with you.

Many 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

Jones, William V, EMNRD

From: Jones, William V, EMNRD
Sent: Monday, June 29, 2015 8:46 AM
To: 'Brian Collins'
Subject: RE: SWD Application from COG Operating LLC: proposed Coinflip 18 State SWD Well No. 1 30-015-pending 380FSL 760FWL Unit M Sec 18 T20S R30E Devonian Silurian Upper Ordovician 1700 foot Open Hole

Hi Brian,
Happy Monday!

To process the application, I don't have to have the return receipts – but we will put them in with the other data on the file if you send us a copy.

The only thing we really need is the “mailer certificates” or at least the “mailer numbers” and also the date each one of those went out.

Catanach is pushing us to get these SWD applications done faster –
I really like it when we get one from you, always well done THANK YOU!!
And COG seems willing to spend the money to get a longer term disposal system installed.

We get deluged with applications from the commercial disposal companies and many of those are not done very thoroughly and/or targeting formations in places that take time to evaluate.

Stay Cool down there.

Will

Jones, William V, EMNRD

From: Marissa Villa <MVilla@concho.com>
Sent: Monday, December 07, 2015 10:47 AM
To: Jones, William V, EMNRD
Subject: Tar Heel 16 State SWD #1
Attachments: Scanned from PRT01-ARW; Scanned from PRT01-ARW; Scanned from PRT01-ARW;
Scanned from PRT01-ARW; Scanned from PRT01-ARW; Scanned from PRT01-ARW;
Scanned from PRT01-ARW; Scanned from PRT01-ARW

Importance: High

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Return to Sender

Inc.
1 St
79701

CFS

7013 3020 0000 0202 E102

U.S. Postal ServiceTM
CERTIFIED MAILTM RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)
 For delivery information visit our website at www.usps.com
OFFICIAL USE

Postage \$

Ret (Endorse)
 Restrict (Endorse)

Chevron USA Inc.
 3310 W Wall St
 Midland, TX 79701
 Coinflip 18 State SWD #1

Total Postage \$

Sent To

Street, Apt. No.,
 or PO Box No.

City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> 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. 		<p>A. Signature X <input type="checkbox"/> Agent <input type="checkbox"/> Address</p>	
<p>1. Article Addressed to:</p> <p>Chevron USA Inc. 3310 W Wall St Midland, TX 79701 Coinflip 18 State SWD #1</p>		<p>B. Received by (Printed Name)</p>	<p>C. Date of Delivery</p>
		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
		<p>3. Service Type</p> <p><input type="checkbox"/> Certified Mail[®] <input type="checkbox"/> Priority Mail Express[™] <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p>	
		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	

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.

1. Article Addressed to:

EGL Resources, Inc.
P.O. Box 10866
Midland, TX 79702
Coinflip 18 State SWD #1

2. Article Number
(Transfer from service label)

7013 3020 0000 18749 15315

PS Form 3811, July 2013

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☒ Agent
X *[Signature]* ☐ Address
- B. Received by (Printed Name) *Tara Sauer* C. Date of Delivery *07/09/11*
- D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail® ☐ Priority Mail Express™
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee) ☐ Yes

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.

1. Article Addressed to:

Occidental Oil and Gas Corporation (OXY)
5 Greenway Plaza, Suite 110
Houston, Texas 77046
Coinflip 18 State SWD #1

2. Article Number
(Transfer from service label)

7013 3020 0000 18749 2413

PS Form 3811, July 2013

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☒ Agent
X *[Signature]* ☐ Address
- B. Received by (Printed Name) *S. Mendoza* C. Date of Delivery *6-29-11*
- D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail® ☐ Priority Mail Express™
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee) ☐ Yes

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.

1. Article Addressed to:

Devon Energy Production Co., LP
333 W. Sheridan
Oklahoma City, Oklahoma 73102
Coinflip 18 State SWD #1

2. Article Number
(Transfer from service label)

7013 3020 0000 8749 5261

PS Form 3811, July 2013

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

- A. Signature ☒ Agent
X *David Canillo* ☐ Address
- B. Received by (Printed Name) *[Signature]* C. Date of Delivery *2011*
- D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: *2011* ☐ No

3. Service Type
☐ Certified Mail® ☐ Priority Mail Express™
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee) ☐ Yes

SENDER: COMPLETE THIS SECTION

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- 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 Oil Conservation Division
Attn: Phillip Goetze
1220 South St. Francis Drive
Santa Fe, NM 87505
Coinflip 18 State SWD #1

2. Article Number

(Transfer from service label)

7013 3020 0000 8748 8508

PS Form 3811, July 2013

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Signature]
B. Received by (Printed Name)
S. MTR

- ☐ Agent
☐ Address

C. Date of Delivery

- D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

JUN 22 2015

3. Service Type

- ☐ Certified Mail® ☐ Priority Mail Express®
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee)

- ☐ Yes

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.

1. Article Addressed to:

New Mexico State Land Office
310 Old Santa Fe Trail,
Santa Fe, NM 87501
Coinflip 18 State SWD #1

2. Article Number

(Transfer from service label)

7013 3020 0000 8748 8515

PS Form 3811, July 2013

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*
B. Received by (Printed Name)

- ☐ Agent
☐ Address

C. Date of Delivery

- D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Certified Mail® ☐ Priority Mail Express®
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee)

- ☐ Yes

SENDER: COMPLETE THIS SECTION

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- 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:

Chevron USA, Inc.
P.O. Box 2100
Houston, TX 77252
Coinflip 18 State SWD #1

2. Article Number

(Transfer from service label)

7013 3020 0000 8748 8485

PS Form 3811, July 2013

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*
B. Received by (Printed Name)

- ☐ Agent
☐ Address

C. Date of Delivery

- D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Certified Mail® ☐ Priority Mail Express®
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee)

- ☐ Yes

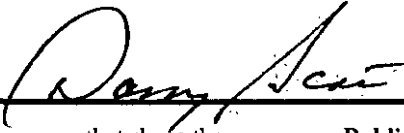
Affidavit of Publication

No. 23524

State of New Mexico

County of Eddy:

Danny Scott



being duly sworn says that she 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/day on the same

day as follows:

First Publication June 12, 2015

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

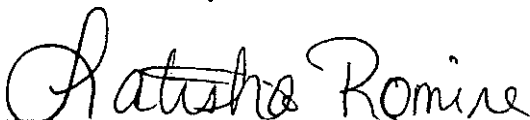
Subscribed and sworn before me this

12th day of June 2015



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019



Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

LEGAL NOTICE

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 Coinflip 18 State SWD No. 1, is located 380' FSL & 760' FWL, Section 18, Township 20 South, Range 30 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware, Bone Spring and Wolfcamp formations. The disposal water will be injected into the Devonian-Silurian-Ordovician formation at a depth of 12950' to 14650' at a maximum surface pressure of 2590 psi and a maximum rate of 25,000 BWPD. The proposed SWD well is located approximately 16 miles north-east of Carlsbad. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at COG Operating LLC, 2208 W. Main Street, Artesia, NM 88210, or call 575-748-6940.

Published in the Artesia Daily Press, Artesia, N.M., June 12, 2015 Legal No. 23524

Jones, William V, EMNRD

From: Jones, William V, EMNRD
Sent: Monday, August 17, 2015 2:01 PM
To: Marissa Villa
Cc: Holm, Anchor E.; 'Brian Collins'
Subject: SWD Application from COG Operating LLC: proposed Coinflip 18 State SWD Well No. 1 30-015-pending 380FSL 760FWL Unit M Sec 18 T20S R30E Devonian Silurian Upper Ordovician 1700 foot Open Hole

Hello Marissa,
Hope your week is starting well?

I am ready to release this permit, but waiting on the items below,
Would you scan and send the items below?

- a. newspaper notice
- b. the certified mailers (please put the mailed dates on them if they are not visible)
- c. proof of notice to the State Land Office.
- d. proof of notice to the nearest Potash Lessee.

(if you have already sent, please accept my apology)

Regards,

Will Jones

*Cancelled
R30FSL
need State
from Brian C.*

*Reminded
again 12/3/15*

*Received
12/7/15*

From: Brian Collins [mailto:BCollins@concho.com]
Sent: Monday, June 29, 2015 7:28 AM
To: Jones, William V, EMNRD
Cc: Goetze, Phillip, EMNRD; Dade, Randy, EMNRD; McMillan, Michael, EMNRD; Sanchez, Daniel J., EMNRD; Marissa Villa
Subject: RE: SWD Application from COG Operating LLC: proposed Coinflip 18 State SWD Well No. 1 30-015-pending 380FSL 760FWL Unit M Sec 18 T20S R30E Devonian Silurian Upper Ordovician 1700 foot Open Hole

Will:

We'll get the return receipts sent to you and Phillip. I forgot to notify the potash lessee. We'll send the C108 package to them this week and send you guys the receipt when we get it back. This location is right next to a couple of our oil and gas well locations so I don't anticipate any problems with the potash folks. Thanks.

Brian Collins

Operations Engineering Advisor
NM Basin Team

COG OPERATING LLC
2208 W. Main Street
Artesia, New Mexico 88210-3720
Phone # 575.748.6924



C-108 Review Checklist:

Received

Add. Request

Reply Date

Suspended:

[Ver 14]

PERMIT TYPE: WFX / PMX (SWD) Number: 1551

Permit Date:

Legacy Permits/Orders:

Well No.:

Well Name(s):

COINFLIP 18 STATEWIDE well NO. 1API: 30-0 15-Parley

Spud Date:

Not yet

New or Old:

(UIC Class II Primacy 03/07/1982)

Footages 380 FSL / 760 FUL Lot or Unit M Sec 18 Tsp 20S Rge 30E County EDDY

General Location:

Pool:

Pool No.:

BLM 100K Map:

Operator:

VOG Oparity, LLC

OGRID:

229137

Contact:

Brian Collins

COMPLIANCE RULE 5.9: Total Wells:

Inactive:

Fincl Assur:

Compl. Order?

IS 5.9 OK?

Date:

For PanelWELL FILE REVIEWED ☒ Current Status:NoneWELL DIAGRAMS: NEW: Proposed ☒or RE-ENTER: Before Conv. ☐After Conv. ☐

Logs in Imaging:

Will Log

Planned Rehab Work to Well:

Drill 1st EQUIP, DISPOSE

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and
		Borehole / Pipe	Depths (ft)	Sx or Cf	Determination Method
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> Surface		17 1/2 - 13 1/8	1600	2200 CF	CIRC
Planned <input type="checkbox"/> or Existing <input type="checkbox"/> Interm/Prod		12 1/4 - 9 5/8	3500	2000 CF	CIRC
Planned <input type="checkbox"/> or Existing <input type="checkbox"/> Interm/Prod					
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> Prod/Liner		8 3/4 - 7"	12,950	2500 CF	1500' DESIGN
Planned <input type="checkbox"/> or Existing <input type="checkbox"/> Liner					
Planned <input checked="" type="checkbox"/> or Existing <input type="checkbox"/> OH/PERF		6 1/8"	12950 - 14650	Inj Length 1700	
Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops	
Adjacent Unit: Litho. Struc. Por.					
Confining Unit: Litho. Struc. Por.					
Proposed Inj Interval TOP:		12950	DEV		
Proposed Inj Interval BOTTOM:		14650	SIL SAND		
Confining Unit: Litho. Struc. Por.					
Adjacent Unit: Litho. Struc. Por.					
Completion/Operation Details:					
Drilled TD		PBSD			
NEW TD		NEW PBSD			
NEW Open Hole <input checked="" type="checkbox"/> or NEW Perfs <input type="checkbox"/>					
Tubing Size 4 1/2 in. Inter Coated? <input checked="" type="checkbox"/>					
Proposed Packer Depth				ft	
Min. Packer Depth				(100-ft limit)	
Proposed Max. Surface Press		2590		psi	
Admin. Inj. Press.		2590		(0.2 psi per ft)	
AOR: Hydrologic and Geologic Information					
POTASH: R-111-P <input checked="" type="checkbox"/> Noticed?	BLM Sec Ord	<input checked="" type="checkbox"/> WIPP <input type="checkbox"/> Noticed?	SALT/SALADO T: 344	B: 1254	CLIFF HOUSE
FRESH WATER: Aquifer	Max Depth	250	HYDRO AFFIRM STATEMENT By Qualified Person <input checked="" type="checkbox"/>		
NMOSE Basin:	CAPITAN REEF: thru <input type="checkbox"/> adj <input type="checkbox"/> NA <input type="checkbox"/>	No. Wells within 1-Mile Radius?	<input type="checkbox"/> FW Analysis <input type="checkbox"/>		
Disposal Fluid: Formation Source(s)	DEL/BS/WC	Analysis?	<input checked="" type="checkbox"/> On Lease <input type="checkbox"/> Operator Only <input type="checkbox"/> or Commercial <input type="checkbox"/>		
Disposal Int: Inject Rate (Avg/Max BWPD):	Protectable Waters?	NO	Source:	System: Closed <input checked="" type="checkbox"/> or Open <input type="checkbox"/>	
HC Potential: Producing Interval?	Formerly Producing?	NO	Method: Logs/DST/P&A/Other	2-Mile Radius Pool Map <input type="checkbox"/>	
AOR Wells: 1/2-M Radius Map?	Well List?	<input checked="" type="checkbox"/>	Total No. Wells Penetrating Interval:	<input type="checkbox"/> Horizontals? <input type="checkbox"/>	
Penetrating Wells: No. Active Wells	Num Repairs?	<input type="checkbox"/>	on which well(s)?	Diagrams? <input type="checkbox"/>	
Penetrating Wells: No. P&A Wells	Num Repairs?	<input type="checkbox"/>	on which well(s)?	Diagrams? <input type="checkbox"/>	
NOTICE: Newspaper Date <u>6/9/15</u> Mineral Owner <u>SLO</u> Surface Owner <u>SLO</u> N. Date <u>6/9/15</u>					
RULE 26.7(A): Identified Tracts? <input checked="" type="checkbox"/> Affected Persons: <u>DEVON/DXY/CHEVRON/EGL</u> N. Date <u>6/9/15</u>					
Permit Conditions: Issues: <u>Getty RECEIPTS/NEWSPAPER NOTICE</u>					
Add Permit Cond: <u>Ran LOGS over other Hole + Top Survey</u>					