543

PMAM1627057181

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

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



etur	Alion	ADMINISTRATIVE APPL	ICATION CHECKLIS	T
		ANDATORY FOR ALL ADMINISTRATIVE APPLICA WHICH REQUIRE PROCESSING AT T	TIONS FOR EXCEPTIONS TO DIVISION RU	
	[DHC-Dow	ndard Location】[NSP-Non-Standard P nhole Commingling]  [CTB-Lease Co ool Commingling]  [OLS - Off-Lease S	mmingling] [PLC-Pool/Lease C torage] [OLM-Off-Lease Meas Pressure Maintenance Expansio -Injection Pressure Increase]	commingling] urement] on]
] 7		PPLICATION - Check Those Which A	pply for [A] -Swb	1662
	[A]	Location - Spacing Unit - Simultaneo  NSL NSP SD	us Dedication — COG	1162 OpenAting LC 29137
		One Only for [B] or [C]		
	[B]	Commingling - Storage - Measureme	nt PC OLS OLM	Well Fa
	[C]	Injection - Disposal - Pressure Increase  WFX PMX SWD	se - Enhanced Oil Recovery  IPI EOR PPR	Lough 2/50 30-025-pendi
	[D]	Other: Specify		Poul
<b>!</b> ] ]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Working, Royalty or Overriding		-Sun Devois
	[B]	☑ Offset Operators, Leaseholders of	or Surface Owner	•
	[C]	Application is One Which Requi	ires Published Legal Notice	
	[D]	Notification and/or Concurrent A U.S. Bureau of Land Management - Commissione	Approval by BLM or SLO of Public Lands, State Land Office	
	[E]	For all of the above, Proof of No	tification or Publication is Attach	ed, and/or,
	[F]	☐ Waivers are Attached		
		CURATE AND COMPLETE INFOI ATION INDICATED ABOVE.	RMATION REQUIRED TO PR	OCESS THE TYPE
pproval	l is <mark>accurate</mark> a	TION: I hereby certify that the information of the desired information and notifications are	ge. I also understand that no action	on for administrative on will be taken on this
	Note	: Statement must be completed by an individu		capacity.
BRIAN C		- I'm bull		isor 21 Sept 20
rint or	Type Name	Signature	Title	Date*

e-mail Address



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

RE: Application For Authorization To Inject

Cougar 2 Federal SWD #1

Township 21 South, Range 32 East, N.M.P.M.

Section 2: 1540' FNL & 2390' FWL

Lea 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 15500' and Fusselman at 16150'. The injection interval is being permitted 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,

**Brian Collins** 

Operations Engineering Advisor

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

### APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: COG Operating, LLC.
	ADDRESS: 2208 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.
vn.	Attach data on the proposed operation, including:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).</li> </ol>
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: BRIAN COLLINS TITLE: Operations Engineering Advisor
	SIGNATURE: DATE: 21 Sept 2916
*	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 COUGAR 2 FEDERAL SWD 1 1540' FNL, 2390' FWL Unit F, Sec 2, T21S, R32E Lea County, NM

COG Operating, LLC, proposes to drill the captioned well and make it into an open hole Devonian-Silurian SWD well from approximately 15,300' to 17,000'.

- 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 = 3060 psi (0.2 psi/ft. x 15300' 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 receiving formation water analyses available in this area.
- VIII. The injection zone is the Devonian-Silurian from 15300' to 17000' which is composed of porous limestone and dolomite. Any underground water sources will be shallower than 1552' based on the top of the Rustler Anhydrite at approximately 1552'.
  - IX. The Devonian-Silurian injection interval will be acidized with approximately 40,000 gals of 20% HCl acid.
  - X. Well logs and mud log will be filed with the Division. There are no nearby well logs available for the Devonian-Silurian section.
  - XI. There are no fresh water wells within a mile or the proposed SWD well.
- XII. After examining the available geologic and engineering data, no evidence was found of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Proof of Notice is attached.

# 

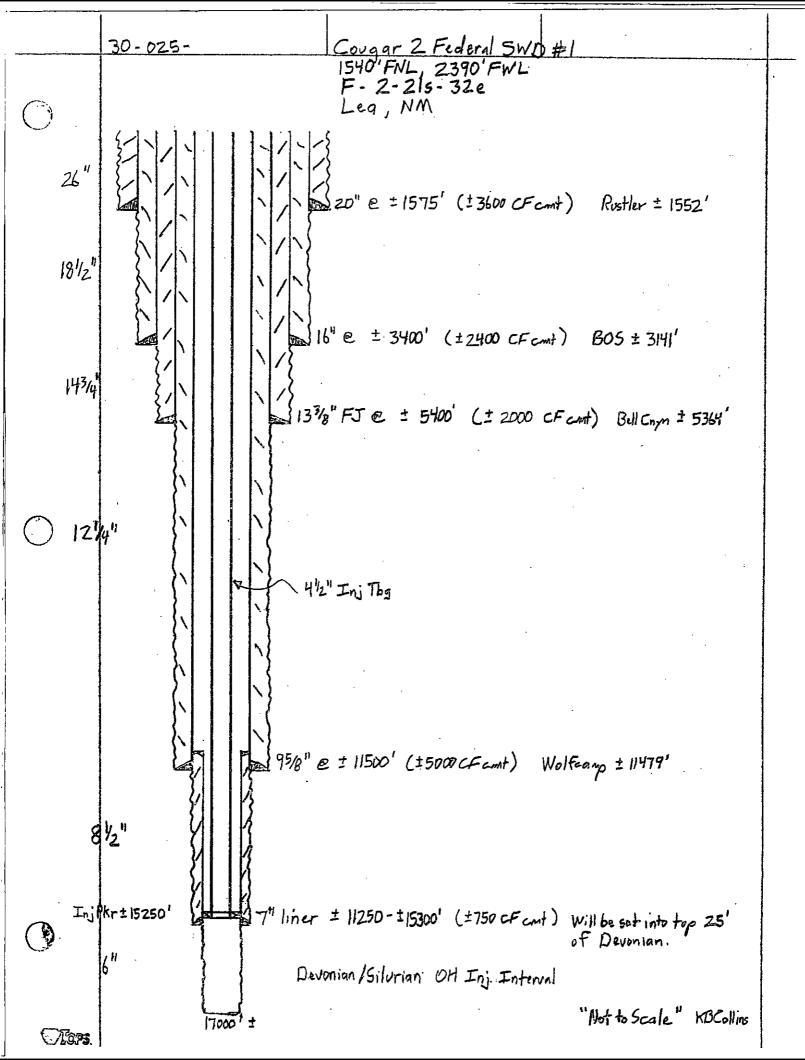
### WELL DATA

### INJECTION WELL DATA SHEET

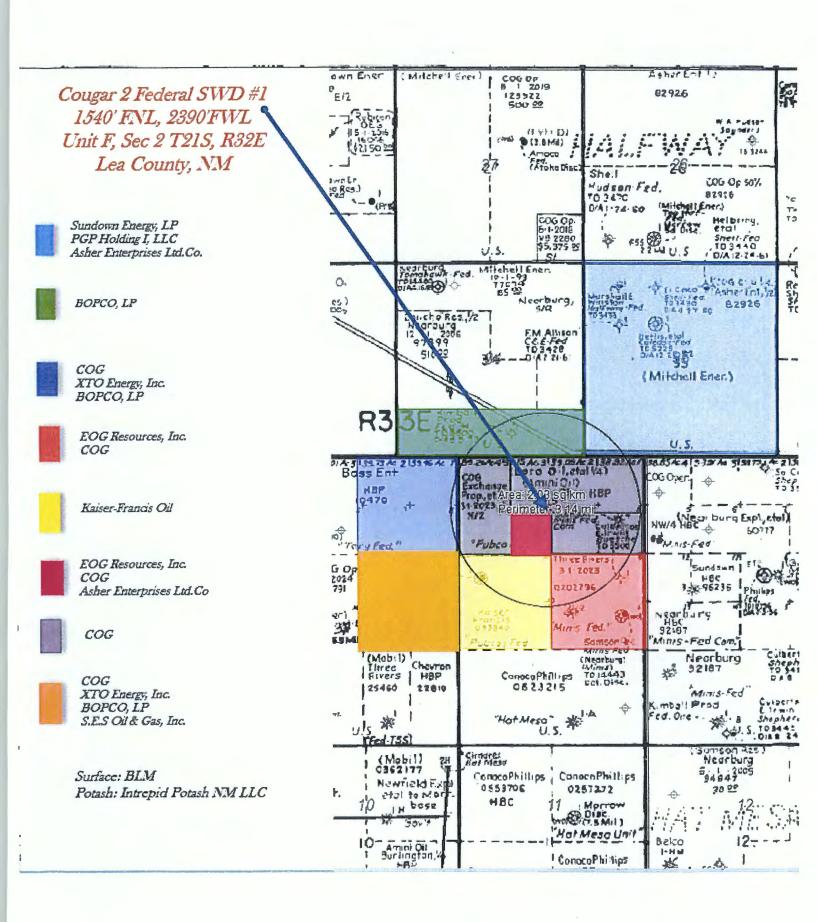
OPERATOR: COG Operating LLC				
WELL NAME & NUMBER: Cougar 2 Feder	al SWO #1			
WELL LOCATION: 1540 FNL 2390 FWL	f=	2	215	32e
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE SCHEMATIC		WELL C Surface	ONSTRUCTION DAT Casing	<u>~A</u>
	Hole Size: 26"		Casing Size: 20"	e±1575'
	Cemented with:	sx.	or <u>± 3600</u>	ft <sup>3</sup>
	Top of Cement:	Surface	Method Determine	d: <u>Design</u>
C Attached Wellbore		<u>Intermedia</u>	te Casing	
See Attached Wellbore Schematic	181/2"		1 10	± 3400'
Schematic	Hole Size: 143/4'	1	Casing Size: 1370"	FJe ± 5400'
	Cemented with:	sx.	or <u> </u>	ft <sup>3</sup>
	Top of Cement: 5	urface	Method Determine	Design d: <u>Design</u>
		Productio	n Casing	•
	121/4"	<del></del>		2 ± 11500'
	Hole Size: 81/2"		Casing Size: 7" lin	
			± 5000	n3
		irface	or ± 750	Design
	Top of Cement: To	p of Liner	Method Determined	d: <u>Design</u>
	Total Depth: +1	7,000′		
		Injection	Interval	
	± 153	00 <sup>1</sup> fee	t to ±17000	/ 
		(Perforated or Open H	Iole; indicate which)	

### **INJECTION WELL DATA SHEET**

Type of Packer: CRA 10K Permanent or Nick:   plated 10K dashle grip retrieval  Packer Setting Depth: ± 15250'  Other Type of Tubing/Casing Seal (if applicable): N/A  Additional Data  1. Is this a new well drilled for injection? X Yes No  If no, for what purpose was the well originally drilled?  2. Name of the Injection Formation: Descript / Silvian  3. Name of Field or Pool (if applicable): Hat Mesa  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.  5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:    Vnderlying: None   Overlying: None   Overlying: Delaware ± 6600-8600' Bone Spring ± 9475-11400   Wolfcamp ± 11400-11750' Strain ± 12850-12900'   Afoka ± 13000-13100' Morrow ± 13100-14500'	Tub	oing Size: 41/2"	Lining Material: IPC/Fiberglass
Packer Setting Depth: ± 15250'  Other Type of Tubing/Casing Seal (if applicable):	ТуĮ	pe of Packer: <u>CRA 10K Perman</u> e	nt or Nickel plated IDK double grip retrievals
Additional Data  1. Is this a new well drilled for injection? X YesNo  If no, for what purpose was the well originally drilled?  2. Name of the Injection Formation: Devivir an / Silvian  3. Name of Field or Pool (if applicable): Hat Mesa  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:  Viderlying: None  Overlying: Delaware ± 6600-8600' Bone Spring ± 9475-11400.			
1. Is this a new well drilled for injection? X Yes No  If no, for what purpose was the well originally drilled?  2. Name of the Injection Formation: Devonion / Silvrian  3. Name of Field or Pool (if applicable): Hat Mes a  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:    Vnderlying: None   Overlying: Delaware ± 6600-8600' Bone Spring ± 9475-11400	Otł	ner Type of Tubing/Casing Seal (if ap	plicable): N/A
If no, for what purpose was the well originally drilled?  2. Name of the Injection Formation: Devonion / Silvrian  3. Name of Field or Pool (if applicable): Hat Mes a  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:    Vnderlying: None   Overlying: None   Delaware + 6600 - 8600'   Bone Spring + 9475 - 11400			Additional Data
2. Name of the Injection Formation: Devovian / Silvian  3. Name of Field or Pool (if applicable): Hat Mes a  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:  Viderlying: None  Overlying: Delaware ± 6600-8600' Bone Spring ± 9475-11400	1,	Is this a new well drilled for injection	π? <u>X</u> Yes <u>No</u>
<ol> <li>Name of Field or Pool (if applicable): Hat Mes q</li> <li>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</li> <li>Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:         <ul> <li>Underlying: None</li> <li>Overlying: Delaware ± 6600 - 8600'</li> <li>Bone Spring ± 9475 - 11400</li> </ul> </li> </ol>		If no, for what purpose was the wel	originally drilled?
<ul> <li>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</li> <li>5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:  <ul> <li>Vnderlying: None</li> <li>Overlying: Delaware ± 6600 - 8600'</li> <li>Bone Spring ± 9475 - 11400</li> </ul> </li> </ul>	2.	Name of the Injection Formation:	Devonian/Silvrian
intervals and give plugging detail, i.e. sacks of cement or plug(s) used	3.	Name of Field or Pool (if applicable	): Hat Mesa
Underlying: None  Overlying: Delgware ± 6600-8600' Bone Spring ± 9475-11400	4.	Has the well ever been perforated in intervals and give plugging detail, i.	any other zone(s)? List all such perforated e. sacks of cement or plug(s) used.
Overlying: Delaware + 6600-8600' Bone Spring + 9475-11400	5.		or gas zones underlying or overlying the proposed
Overlying! Delaware ± 6600-8600' Bone Spring ± 9475-11400  Wolfcamp ± 11400-11750' Strawn ± 12850-12900'  Atoka ± 13020-13120' Morrow ± 13100-14500'		Underlying: None	
Wolfcamp ± 11400-11750' Strain ± 12850-12900' Atoka ± 13000-13100' Morrow ± 13100-14500'		Overlying! Delaware	± 6600-8600' Bone Spring ± 9475-11400
Atoka ± 13020-13100' Morrow ± 13100-14500'		Wolfcamo	± 11400-11750' Strain ± 12850-12900'
		Atoka ±13	120-13190' Morrow ± 13100-14500'



MAP



# VI.

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

# VII.

# Water Analysis Produced Formation Water

No Water Analysis
Available For
Receiving Formation

		i				:		!				
NATER SAMPLE	ES REPRESENTATIVE OF W	IATER BEING INJEC	TED INTO THE P	ROPOSED	SWD WELL	i	}		; 			1-
Delaware						· · · · · · · · · · · · · · · · · · ·					ļ	
2012103128	Gehrig	Fed #2	William D Polk	2/15/2012	1/10/2012	1.16	4.00	251245.24	6.47		25915.00	3525.76
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						<u> </u>					; i	
Lab Test#	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	pН	conductivity	Ca (mg/L)	/ Mg (mg/
2012104723	Phantom 18 State	2H	William D Polk	2/29/2012	1/6/2012	1.09	2.23	136209.81	6.52		6156.63	1132.5
Wolfcamp			.	į <u>-</u>				! !			i	
Lab Test#	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	pН	conductivity	Ca (mg/L)	Mg (mg/
2012105892	Augustus 10	1H	;	3/15/2012	3/8/2012	1.06	1.46	89771.55	6.60		3963.30	639.83
2011128833	Trail Boss 4	4H	William D Polk	9/30/2011	9/21/2011	1.05	1.31	78745.89	7.10		3143.00	406.00

·															
81017.80	66969.32	1342.77	64.22	35.40	4.51	1492.00	24.27		122.00	0.00	<u> </u>	450.00	151300.00	250.00	0.00
83379.63	62970.16			20.06	1.64	905.03	9.33		73.00	0.00		70.00	161300.00	1 - 2007/00	0.00
TH (CaCO3) 20530.54	· · · · · · · · · · · · · · · · · · ·		Zn (mg/L) 0.00	Fe (mg/L) 28.72	Ba (mg/L) 0.00	Sr (mg/L) 414.86	Mn (mg/L) 1.36	Resistivity	HCO3 (mg/L) 159.00	CO3 (mg/L) 0.00	OH (mg/L)	SO4 (mg/L) 850.00	Cl (mg/L) 83000.00		H2S (mg/L) 0.00
TH (CaCO3) 13352.51 10421.23	Na (mg/L) 28320.32 27950.00		Zn (mg/L) 0.00	Fe (mg/L) 17.85 15.00	Ba (mg/L) 1.77 2.48	Sr (mg/L) 707.79 780.00	Mn (mg/L) 0.00 0.41	Resistivity	HCO3 (mg/L) 220.00 366.00	CO3 (mg/L) 0.00 0.00	OH (mg/L)	SO4 (mg/L) 950.00 150.00	Cl (mg/L) 54600.00 45500.00	CO2 (mg/L) 60.00 140.00	H2S (mg/L) 0.00 0.00

# No Log Available Across Proposed Devonian Injection Interval From Well in Area

# XI.

# Fresh Water Sample Analyses



## New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 33, 34, 35

Township: 20S

Range: 33E



## New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned,

C=the file is (q closed) (q

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

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

(in feet)

POD

Sub-

QQQ

Code basin County 64 16 4 Sec Tws Rng

X Y

Depth Depth Water Well Water Column

> 1 Mile from Proposed SWD Well

Average Depth to Water:

Minimum Depth: --

Maximum Depth: -

Record Count: 1

**POD Number** 

CP 00793

PLSS Search:

Section(s): 1, 2, 3

Township: 21S

Range: 32E

\*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

(

CP 00793

1 1 2 01 21S 32E

628932 3598270\*(\*)

Driller License: 122

Driller Name:

**PHILLIPS** 

**Drill Start Date:** 

Drill Finish Date:

12/31/1960

Plug Date:

Log File Date:

**PCW Rcv Date:** 

Source:

**Pump Type:** 

Pipe Discharge Size:

Estimated Yield:

Casing Size:

8.00

Depth Well:

1000 feet

Depth Water:

\*UTM location was derived from PLSS - see Help



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

RE:

Application For Authorization To Inject Cougar 2 Federal SWD #1 Township 21 South, Range 32 East, N.M.P.M. Section 2: 1540' FNL & 2390' FWL Lea 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 15500' and Fusselman at 16150'. The injection interval is being permitted 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,

**Brian Collins** 

Operations Engineering Advisor



Oil Conservation Division Attn: Paul Kautz 1625 North French Dr. Hobbs, NM 88240

RE:

**Application For Authorization To Inject** 

Cougar 2 Federal SWD #1

Township 21 South, Range 32 East, N.M.P.M.

Section 2: 1540' FNL & 2390' FWL

Lea County, New Mexico

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

Sincerely,

**Brian Collins** 

**Operations Engineering Advisor** 



U.S. BLM 620 E Greene Street Carlsbad, NM 88220

RE: Application For Authorization To Inject

Cougar 2 Federal SWD #1

Township 21 South, Range 32 East, N.M.P.M.

Section 2: 1540' FNL & 2390' FWL

Lea County, New Mexico

To Whom It May Concern:

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

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

Sincerely,

**Brian Collins** 

Operations Engineering Advisor

Form 3160-5 (March 2012)

### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No 1004-0137 Expires: October 31, 2014

5. Lease Serial No. NMNM

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals

6. If Indian, Allottee or Tribe Name

abandoned well.	Use Fo <u>rm 3160-3 (A</u>	PD) for such p	proposals.	<u>.                                    </u>				
SUBMI	TIN TRIPLICATE - Other	instructions on pag	ge 2.		7. If Unit of CA/Agree	ement, Name and/or No.		
1. Type of Well Gas W	ell 🗸 Other	8. Well Name and No. Cougar 2 Federal SWD #1						
2 Name of Operator COG Operating LLC					9. API Well No.			
3a. Address 2208 W Main Street Artesia, NM 88210		)	10. Field and Pool or I SWD; Hat Mesa	Exploratory Area				
4. Location of Well (Footage, Sec., T.,	R.,M., or Survey Description,	<del>_</del>	<del></del>		11. County or Parish,	State		
1540' FNL & 2390' FWL, Section 2, T21S, R32E	, N.M.P.M				Lea County, New M	lexico		
12. CHEC	K THE APPROPRIATE BO	X(ES) TO INDICAT	TE NATURE	OF NOTIC	CE, REPORT OR OTH	ER DATA		
TYPE OF SUBMISSION	-7.	-	TYP	E OF ACT	ION			
✓ Notice of Intent	Acidize Alter Casing	Deepen Fracture Tr	reat	=	uction (Start/Resume) amation	Water Shut-Off Well Integrity		
Subsequent Report	Casing Repair	New Const		Reco	mplete	Other SWD Drill Well		
Final Alimanant Nation	Change Plans Convert to Injection	Plug and A	bandon	_ `	porarily Abandon			
Final Abandonment Notice		Plug Back			er Disposal	k and approximate duration thereof. If		
testing has been completed. Final determined that the site is ready for the site is read	r final inspection )  of COG Operating LLC's Corement of the New Mexiconile radius area of review. And the received within fifteer	:-108 Application to Oil Conservation I Any objections mus n (15) days of recei	Inject for the Division, we a	e above re are notifyi	eferenced well. We pl ng you because you	lan to drill this well for SWD service have been identified as the surface		
14. I hereby certify that the foregoing is t	rue and correct Name (Printe	d/Typed)						
Brian Collins		Title	Title Operations Engineering Advisor					
Signature Shiri-	belleri	Date	e 09/20/201	6				
	THIS SPACE	FOR FEDERA	L OR STA	TE OF	FICE USE			
Approved by	<del></del>			===				
			Title			Date		
Conditions of approval, if any, are attached that the applicant holds legal or equitable the entitle the applicant to conduct operations	itle to those rights in the subje	s not warrant or certify ct lease which would	Office					
Title 18 U.S.C. Section 1001 and Title 43 fictitious or fraudulent statements or repre			knowingly and	willfully t	o make to any departmen	nt or agency of the United States any false,		
(Instructions on page 2)								

### GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

#### SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

### NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and grantingapproval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240



Intrepid Potash NM LLC 707 17<sup>th</sup> St Ste 4200 Denver, CO 80202

RE: **Application For Authorization To Inject** 

Cougar 2 Federal SWD #1

Township 21 South, Range 32 East, N.M.P.M.

Section 2: 1540' FNL & 2390' FWL

Lea County, New Mexico

To Whom It May Concern:

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

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

Sincerely,

**Brian Collins** 

Operations Engineering Advisor

BC/sw **Enclosures** 

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



Kaiser-Francis Oil P.O. Box 21463 Tulsa, Oklahoma 74121

RE: Application For Authorization To Inject

Cougar 2 Federal SWD #1

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Sincerely,

**Brian Collins** 

**Operations Engineering Advisor** 

BC/sw Enclosures

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



Asher Enterprises Ltd. Co. P.O. Box 423 Artesia, NM 88211

RE: Application For Authorization To Inject

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Township 21 South, Range 32 East, N.M.P.M.

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Sincerely,

**Brian Collins** 

**Operations Engineering Advisor** 



Sundown Energy, LP 13455 Noel rd. #2000 Dallas, TX 75240

RE: Application For Authorization To Inject

Cougar 2 Federal SWD #1

Township 21 South, Range 32 East, N.M.P.M.

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Sincerely,

**Brian Collins** 

**Operations Engineering Advisor** 



PGP Holdings I, LLC 104 Town Park Drive Kennesaw, Georgia 30144

RE: Application For Authorization To Inject

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Sincerely,

Brian Collins

Operations Engineering Advisor



XTO Energy, Inc. P.O. Box 6501 Englewood, Colorado 80155

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Sincerely,

**Brian Collins** 

**Operations Engineering Advisor** 



BOPCO, LP 6 Desta Drive Suite 3700 P.O. Box 2760 Midland, Texas 79702

RE: Application For Authorization To Inject

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Sincerely,

**Brian Collins** 

**Operations Engineering Advisor** 



EOG Resources, Inc. P.O. Box 4362 Houston, TX 79701

RE: Application For Authorization To Inject

Cougar 2 Federal SWD #1

Township 21 South, Range 32 East, N.M.P.M.

Section 2: 1540' FNL & 2390' FWL

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Sincerely,

**Brian Collins** 

**Operations Engineering Advisor** 

BC/sw Enclosures

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



Samson Resources Company 2 West Second Street Tulsa, Oklahoma 74103

RE: Application For Authorization To Inject

Cougar 2 Federal SWD #1

Township 21 South, Range 32 East, N.M.P.M.

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Sincerely,

**Brian Collins** 

Operations Engineering Advisor



Chevron U.S.A., Inc. P.O. Box 1635 Houston, Texas 77251

RE: Application For Authorization To Inject

Cougar 2 Federal SWD #1

Township 21 South, Range 32 East, N.M.P.M.

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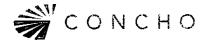
Sincerely,

**Brian Collins** 

**Operations Engineering Advisor** 

BC/sw Enclosures

PHONE 575.748.6940 | FAX 575.748.6968



Chevron U.S.A., Inc. 4508 N Big Spring St. Midland, TX 79705

RE: Application For Authorization To Inject
Cougar 2 Federal SWD #1
Township 21 South, Range 32 East, N.M.P.M.
Section 2: 1540' FNL & 2390' FWL
Lea County, New Mexico

To Whom It May Concern:

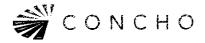
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Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

**Brian Collins** 

**Operations Engineering Advisor** 



Chevron U.S.A., Inc. 15 Smith Rd. Houston, TX 79705

RE: Application For Authorization To Inject

Cougar 2 Federal SWD #1

Township 21 South, Range 32 East, N.M.P.M.

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

Sincerely,

**Brian Collins** 

Operations Engineering Advisor

Sulla.



September 20, 2016

S.E.S. Oil & Gas, Inc. P.O. Box 371 Midland, TX 79702

RE: Application For Authorization To Inject

Cougar 2 Federal SWD #1

Township 21 South, Range 32 East, N.M.P.M.

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

Sincerely,

**Brian Collins** 

**Operations Engineering Advisor** 

BC/sw Enclosures



September 20, 2016

Hobbs News-Sun P.O. Box 850 Hobbs, NM 88240

Re:

**Legal Notice** 

Salt Water Disposal Well Cougar 2 Federal SWD #1

To Whom It May Concern:

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

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

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

Sincerely,

**Brian Collins** 

Senior Operations Engineer

Julla.

BC/sw Enclosures

# HOBBS NEWS SUN 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 Cougar 2 Federal SWD No. 1, is located 1540' FNL & 2390' FWL, Section 2, Township 21 South, Range 32 East, Lea 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 formation at a depth of 15300' to 17000' at a maximum surface pressure of 3060 psi and a maximum rate of 25,000 BWPD. The proposed SWD well is located approximately 30 miles west/northwest of Eunice. 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 Hobl	os Ne	ews	Sun,	Hobbs,	New	Mexico
				,	2016			

## **Affidavit of Publication**

STATE OF NEW MEXICO **COUNTY OF LEA** 

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

> Beginning with the issue dated September 24, 2016 and ending with the issue dated September 24, 2016.

Sworn and subscribed to before me this 24th day of September 2016.

I hum Ol

**Business Manager** 

My commission expires

January 29, 2019

OFFICIAL SEAL **GUSSIE BLACK** Notary Public State of New Mexico My Commission Expires 1-29-19

-This neven aperic duly qualified to perfish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE! September 24, 2018

Gog Operating LLC, 2208
Wilden Street, Artesia, NM
88210 has filed Form C-108
(Application for Authorization
to Inject) with the New
Mexico Oilf Conservation
Division of a cell file
proposed well the Couper 2
Federal SWD No.1. Is
located 1540 FNL A 2390
FWL Section 2, Township
21 South: Range 32 East,
Leal County, New Mexico
Disposal water will be
sourced from area wells
producing from the
Detamations. The
disposal water will be
Injected Tinto The
Devonism/Siturian formation
at a depth of 15300 to Devonier/Siturian formation at all depths of \$1500 to \$17000 tall a gmaximum surface pressure of 3080 psi and a maximum rate of \$25000 JB W P D. The proposed #8WD Well, is located approximately 30 miles and \$15000 to ocated approximately 30 miles west/northwest; of Eurice Any Interested peny who has an objection to this must give notice in writing to the LOIL Comparvation Division, 1220 S. St. Francis. Drive: Santa Fe. New Mexico 87505, within filteen (15) days of this notice. Any interested party with questions or comments may contact Erian Collins at COG Operating LLC. 2208 W. Main: Street; Artesia; NM 88210; GP: cat 1575-748: 5840 8940: #31251

67112034

00181503

**BRIAN COLLINS COG OPERATING LLC** 2208 W. MAIN ST. **ARTESIA, NM 88210** 

PS Form 3811, July 2	113 Domestic Rel	*		
2. Article Number (1) 1. (Transfer from service k	pp) / 707P, 0478	: 0000 : 2F24;	6078	
		4. Restricted Delivery	? (Extra Fee)	☐ Yes
Midland	ig Spring St., TX 79705	3. Service Type  Certified Mail*  Registered  Insured Mail	Priority Mai	elpt for Merchandler
Chevron	U.S.A.,Inc.			,
Article Addressed to:		D. is delivery address if YES, enter delive		
Print your name and so that we can return	address on the reverse	B. Received by (Print)	od Name)	C. Pate of Delivery
Complete items 1, 2	and 3. Also complete	A. Signature		□ Agent
SENDER: COMPLETE	THIS SECTION	COMPLETE THIS SE	CTION ON DEL	IVERY (

CHERTIFIED MAIL RECEIPT

Domestic Wall only

For delivery information visit our website at average control of the control of t

<b>,</b>		
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DEL	IVERY
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 ☐ Addre
so that we can return the card to you.  Attach this card to the back of the maliplece, or on the front if space permits.	B. Received by (Printed Name)	G. Date of Deli 9-26-66
1. Article Addressed to: Chevron U.S.A.,Inc.	D. is delivery address different from Re if YES, unter delivery address bald	
15 Smith Rd. Houston, TX 79705  Compar ? Fordered SWD #1	3. Service Type  Certified Mell* Priority Ma Registered Return Rec	alpt for Merchan
The state of the s	4. Restricted Delivery? (Extra Fee)	☐ Yes
2. Article Number 7016 0910 (Nansfer from service tabet)		
PS Form 3811, July 2013 Domestic Re	sturn Receipt	
CERTIFI Domestic Mail For delivery, into	Service PED MAIL® REGEIPT  FOR IV  FIRST CONTROL OF THE SERVICE OF	scome.
DT DT D DT D STORY TO THE STORY	Chevron U.S.A., In 15 Smith Rd. Houston, TX 797	05
PS Form 3800, April	2015 PSN 7530-02-000-9047 資本電 Side Reverse fo	rinstructions

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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.	A. Signature  Agent  Addresses  B. Rischived by (Printed Name)  C. Date of Delivery		
Attach this card to the back of the mailplece, or on the front if space permits.	Gatha 9-26-76		
1. Article Addressed to:	D. 2s delivery address different from item 1?		
Oil Conservation Division Attn: Paul Kautz			
1625 North French Dr. Hobbs, NM 88240 Cougar 2 Federal SWD #1	3. Service Type  Certified Mail* Priority Mail Express*  Registered Return Receipt for Merchandis  Insured Mail		
	4. Restricted Delivery? (Extra Fee)   ☐ Yes		
2. Article Number 7016 091	.0 0000 2654 6207		
	Return Receipt		

. 0910 0000 2654 6207	U.S. Postal Service"  CERTIFIED MAIL® RECEIPT  Domestic Mail Only  Foridelivery.Information visit our vebsite at any way us ps. com?  O F C A B B B B B B B B B B B B B B B B B B
707	Street and Apt. No., or PO Box No.  Cify: State, 2IA-4  PS Form 3890, April 2015 PSN 7539-02 000 9047 (See Reverse for Instructions)

and the second s	A STATE OF THE STA	A NOVAL OF THE PROPERTY OF THE	
SENDER: COMPLETE	THIS SECTION	COMPLETE THIS SECTION ON DEL	IVERY 3
Complete items 1, 2, item 4 if Restricted D Print your name and a so that we can return Attach this card to the or on the front if space	elivery is desired, address on the reverse the card to you. e back of the malipiece,	A Signature  X  B. Received by (Printing Name)	Agent Addres
1. Article Addressed to:  New Mexico Oil Co Attn: Phil 1220 South St Santa Fe, 1	onservation Division lip Goetze Francis Drive NMI 87505 Ideal SWD #1		m 1? Yes w: No No I Express* helpt for Merchanic
	The second of th	4. Restricted Delivery? (Extra Fee)	☐ Yes
2. Article Number (Transfer from service let PS Form 3811, July 201	- V	-0000 SP24 PS74	
	Domestic Mail Only For delivery information  Carcheol Must Fee  Carcheol Must Fee  New Mexico C  Lin Attr  Carcheol Must Fee  State New Mexico C  Lin Attr  Cong.  Foats Cong.  Total Postage and Fees  Sent To	MAIL® RECEIPT  Oil Conservation Division  Phillip Goetze  uth St. Francis Drive  ta Fe, NAI 87505  ar 2 Federal SWD #1	
	[3]		

. 1		The second secon	
·	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 Jan Rappu   Agent   Address	
1	so that we can return the card to you.  Attach this card to the back of the malipiece, or on the front if space permits.	B. Received by (Printed Name) C. Date of Delive	Ħ,
* *************************************	1. Article Addressed to:	D. Is delivery address different from item 1?  Yes If YES, enter delivery address below:  No	
***************************************	Intrepid Potash NM LLC		
, , , , , , , , , , , , , , , , , , ,	707 17th St Ste 4200		_
	Denver, CO 80202 Cougar 2 Federal SWD #1	3. Service Type  Certified Mail* Priority Mail Express*  Registered Receipt for Merchand  Insured Mail Collect on Delivery	<b>3</b> 1
		4. Restricted Delivery? (Extra Fee) Yes	٦,
, i	2. Article Number (Transfer from service label) 7016 0910	0000 2654 6085	<u> </u>
	PS Form 3811, July 2013 Domestic Ret	(in Receipt	•

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5	U.S. Postal Service'  CERTIFIED MAIL® RECEIPT  Domestic Mail Only
1 508	For delivery information, visit our website at www.usps.com
2654	Contition Mail Fee  S EXTR:  District  Intrepid Potash NM LLC
0000	707 17th St Ste 4200  Denver, CO 80202
170	Cougar 2 Federal SWD #1
	Yotel Postage and Fees \$ Sent To
707	Street and Apr. No., or PO Box No. City, State, 214-4
	PS Form 3800, April 2015 PSN 7530-02 000-9617 See Reverse for Instructions!

		6 *** · ' ' '	
SENDER: COMPLETE THIS	SECTION	COMPLETE THIS SECTION ON DEL	LIVERY
Item 4 If Restricted Delivery Print your name and address so that we can return the ca Attach this card to the back	is desired. s on the reverse rd to you. of the mailpiece,	A. Signature  X. E. W. Ellion 10  B. Received by (Printed Name)	C. Date of Deliver
1. Article Addressed to:		D. Is delivery address different from its tryes, enter delivery address belo	
The second secon			· · · · · · · · · · · · · · · · · · ·
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104 Town Park	Drive	<u>L</u>	
Kennesaw, Georg Cougar 2 Federal Sv	ia 30144 /D#1	3. Service Type  Gretified Mail* Priority Mail Registered Insured Mail Collect on	celpt for Merchandis
	,	4. Restricted Delivery? (Extra Fee)	☐ Yes
2. Article Number (Transfer from service lebel)	7016 091	0 0000 5P24 PJ55	
PS Form 3811, July 2013	Domestic Re	tum Receipt	
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	Complete items 1, 2, and 3. Item 4 if Restricted Delivery Print your name and address so that we can return the ca Attach this card to the back or on the front if space perm  1. Article Addressed to:  PGP Holdings 104 Town Park Kennesaw, Georg Cougar 2 Federal Sw  2. Article Number (Itemster from service tebel) PS Form 3811, July 2013	Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the maliplece, or on the front if space permits.  1. Article Addressed to:  PGP Holdings I, I.I.C  104 Town Park Drive  Kennesaw, Georgia 30144  Cougar 2 Federal SWD #1  2. Article Number  (Itensier from service tabel)  PS Form 3811, July 2013  Pomestic Residence A Feet permits  Contined Mail Feet  Stra Services A Feet permit Inches  PGP  Add 104 7  Postage Kennes  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  Stra Services A Feet permit Inches  Contined Mail Feet  St	A. Signature  Item 4 if Restricted Delivery is desired.  If Print your name and eddress on the reverse so that we can return the card to you.  If Item 4 if Restricted Delivery is desired.  If Print your name and eddress on the reverse so that we can return the card to you.  If Item 4 if Restricted Delivery in the back of the maliplece, or on the front if space permits.  It is delivery address different from the first of the printing of the insured Mail of the printing Mail of Collect on the insured Mail of Collect on the

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	Carlsbad, NM 88220 COMMAT 2 Forteral SWD #1	☐ Certified Mail® ☐ Priority Mail Express® ☐ Registered ☐ Return Receipt for Merchandis ☐ Insured Mail ☐ Collect on Delivery
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	4. Restricted Delivery? (Extra Fee)
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1. Article Addressed to:	D. is delivery address different from item 1? C. Yes If YES, enter delivery address below:
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2624 6092	OFFICIAL USE
0000	Kaiser-Francis Oil P.O. Box 21463 Tulsa, Oklahoma 74121
16 0910	Cougar 2 Federal SWD #1 Vital Postage and Fees  Sent To
707	Street and Apr. No., or PO Box No.  City, State, 2/A; 4  PS Form 3800, April 2015 95:17503-02-000-00-7 1884 See Reverse for Instructions.

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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
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1. Article Addressed to:	07. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
Kaiser-Francis Oil	
P.O. Box 21463	
Tulsa, Oklahoma 74121 Congar 2 Federal SWD #1	3. Service Type  Cartified Mail* Priority Mail Express*  Registered  Receipt for Merchandise
The second secon	Insured Mail Collect on Delivery
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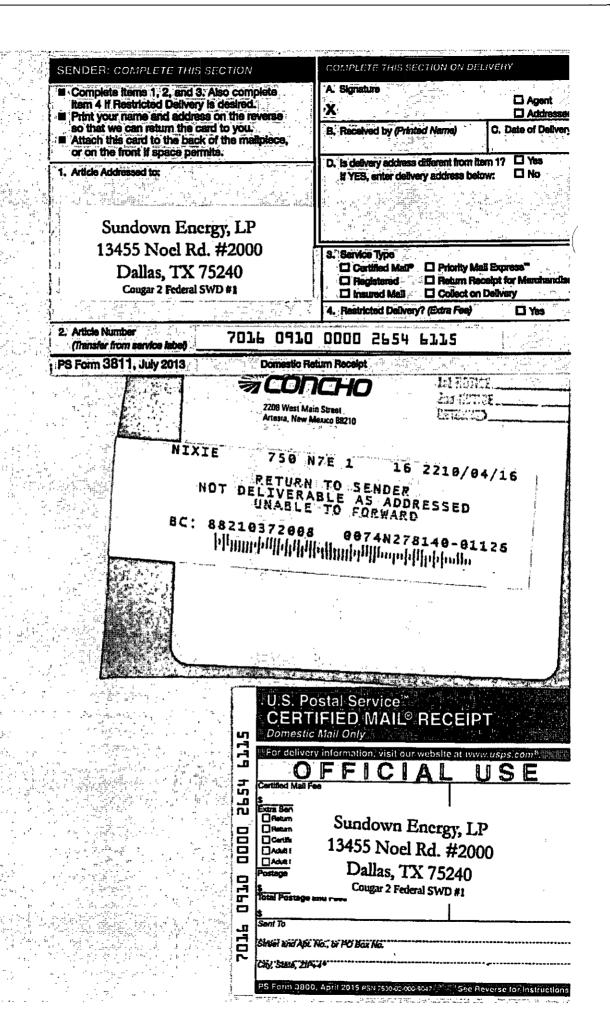
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P.O. Box 6501	
Englewood, Colorado 80155 Cougar 2 Federal SWD #1	8. Service Type  Certified Meli* Priority Meli Express*  Registered Receipt for Merchandise
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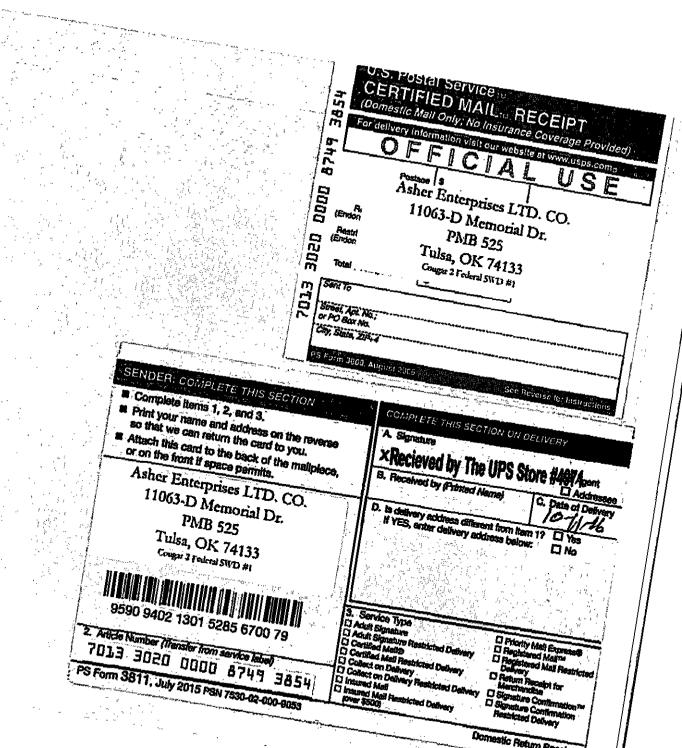
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2 Article   (Ransie   PS Form   LUIRBORG PROSENT)	3. Service Type  Certified Main Priority Mail Express Registered Peturn Receipt for Marchandise  Assured Mail Collect on Delivery Restricted Delivery? (Pytra See)

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1. Article Addressed to:  S.E.S Oil & Gas, Inc. P.O. Box 371  Midland, TX 79702  Cougar 2 Federal SWD #1	D. is delivery address different from item 1?
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PS Form 3800/April 2015	PSH 2500-02-000-9047 [37] See Reverse for Instructions

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PS Form 3	311; July 2013	U.S CE Don For	Postal Service" RTIFIED MAIL® estic Mail Only estivery information, visit ou	website at www.usps.com*.
		#5 45 DOOD D'	Oil Conserva Attn: Michael 1220 south S Santa Fe	A. MCMILLAN "
		JI 97 C	Postage and Fees To Rand Apr. No., or PO Box No. Siato, 219-49 Form 3800, April 2015 PSN 7539	See Reverse for Instru



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	or PO Box No.
	Chy, State, ZP-4
	PS Form 3900, August 2005

# SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the malipiece, or on the front if space permits.

Sundown Energy, LP **Knoll Trail Plaza** 16400 Dallas Parkway Suite 100

Dallas, TX 75248



9590 9402 1301 5285 6700 24

2. Article Number (Trensfer from service label) 2404 6428 0000 020E ETOL

PS Form 3811, July 2015 PSN 7630-02-000-9053

☐ Agent ☐ Addressee

C. Date of Delive

- If YES, enter delivery address below:
- 3. Service Type

  C Adult Signature

  Adult Signature Restricted Delivery

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   Certified Meil®
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- C Insured Mall :
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  C Insured Mall Restricted Delivery (over \$500)

- ☐ Signature Confirmation™
- ☐ Signature Confirmation

8749 4059	U.S. Postal Service  CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)  For delivery Information visit our website at www.usps.com.  OFFICIAL USE
	BOPCO, LP  32 Mineral O & G NM, L.L.C.  Res 201 Main Street, Suite 2700  Fort Worth, TX 76102  Covern 2 Federal SWD et.
707	Sirest, Act. No.: or PO Box No. City, State, ZIP-4  S Form 3800, August 2005

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- nat we can return the card to you. dach this card to the back of the malipiece, ir on the front if space permits.

BOPCO, LP 32 Mineral O&G NM, L.L.C. 201 Main Street, Suite 2700 Fort Worth, TX 76102



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2. Article Number (Transfer from service label) 7013 3020 0000 8749 4059

PS Form 3811, July 2015 PSN 7530-02-000-9053

### COMPLETE THIS SECTION ON DELIVERY

☐ Agent ☐ Addressee

D. is delivery address different from item 1? If YES, enter delivery address below:

3. Service Type

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						5.9 OK? V Date: 1/-22-2-0/6
	VIEWED Curren					
		-	: Before Conv.  After C	Conv. C	ogs in Imaging:	YA-
Planned Rehab						
Well Const	ruction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	•	Cement Sx or Cr	Cement Top and Determination Method
Planned_	_or ExistingSurface	26/20	1575	Stage Tool	3600	Surface / Visual
Planned_or E	xistingInterm/Proc	18-18 34	3 YOU		2400	Surface/Visual
Planned_or E	xistingInterm/Proc	1494 /2318	5 W		2010	SurFree/Vistal
Plannedor	Existing Prod/Line	11/4/55/	11500	, ,	5000	SUPELCO / VISUAL
Planne	ed_or Existing / Line	85/7	153W	<u> </u>	.730	11300/LBL
Planned or	Existing GH JPERF	152.1.		Inj Length	Comr	oletion/Operation Details:
<del>- w (* * *), *</del>		שוווטטכייו	Injection or Confining	1700	y the galactic	70 PBTD
	stratigraphic Units:	Depths (ft)	Units	Tops	-	<del></del>
	Litho. Struc. Por.	1.44	pv	15300	•	NEW PBTD
<u> </u>	: Litho. Struc. Por.			14.		or NEW Perfs
	I I I I A I TAR	Official and the property of the contract of t		153cc		in. Inter Coated? Depth <u>K25</u> ft
	ed inj interval TOP:		Committee words and a series	1/7/20/20/20		/BUII /J/ 3 - II
Proposed in	j interval BOTTOM			17000	•	•
Proposed in Confining Unit	j interval BOTTOM: Litho. Struc. Por.			17000	Min. Packer Depth	15200 (100-ft limit)
Proposed in Confining Unit Adjacent Unit:	j Interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por.		formation	/7000	Min. Packer Depth Proposed Max. Sui	1520 (100-ft limit) face Press. <u>3060</u> psi
Proposed in Confining Unit: Adjacent Unit:	j Interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por. OR: Hydrologic	and Geologic In	formation	w/ <sub>3</sub> / 8	Min. Packer Depth Proposed Max. Sui Admin. Inj. Press.	1520 (100-ft limit) face Press. 3060 psi 3060 (0.2 psi per ft)
Proposed in Confining Unit Adjacent Unit:  Adjacent Unit: ACCONTRACTOR OF THE POTASH: R-	j interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por. DR: Hydrologic 111-P	and Geologic In	d @-WiPP O Noticed?	<i>□/A</i> -Salt/Sa	Min. Packer Depth Proposed Max. Sur Admin. Inj. Press.	1520 (100-ft limit) face Press. 3060 psi 3060 (0.2 psi per ft)  NW: Cliff House fm
Proposed in Confining Unit: Adjacent Unit:	j interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por. DR: Hydrologic 111-P	and Geologic In	d ( WIPP Noticed 12_ Max Depth	₩####################################	Min. Packer Depth Proposed Max. Sur Admin. Inj. Press lado T:B:	1520 (100-ft limit) face Press. 3060 psi 3060 (0.2 psi per ft)  NW: Cliff House fm  ENT By Qualified Person
Proposed in Confining Unit Adjacent Unit:  AC POTASH: R- FRESH WAT NMOSE Basin	j Interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por. DR: Hydrologic 111-P	and Geologic In	d ( WIPP Noticed?  Max Depth  Mhru adj NA	Asait/Sa HYDRO	Min. Packer Depth Proposed Max. Sur Admin. Inj. Press. lado T: 1928: 36 D AFFIRM STATEMI	1 520 (100-ft limit) face Press. 3060 psi 3 060 (0.2 psi per ft)  NW: Cliff House fm  ENT By Qualified Person  FW Analysis
Proposed in Confining Unit Adjacent Unit:  AC POTASH: R- FRESH WAT NMOSE Basin	j Interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por. DR: Hydrologic 111-P	and Geologic In	d ( WIPP Noticed?  Max Depth  Mhru adj NA	Asait/Sa HYDRO	Min. Packer Depth Proposed Max. Sur Admin. Inj. Press. lado T: 1928: 36 D AFFIRM STATEMI	1520 (100-ft limit) face Press. 3060 psi 3060 (0.2 psi per ft)  NW: Cliff House fm  ENT By Qualified Person
Proposed in Confining Unit Adjacent Unit:  AC POTASH: R- FRESH WAT NMOSE Basin Disposal Fluid	j Interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por. DR: Hydrologic 111-P / Noticed ER: Aquifer n: d: Formation Source	and Geologic In  BLM Sec On  CAPITAN REEF:  Bon Spi  Spi  Cs)	Max Depth  (hru) adj NA  (hru) Adj NA  (hru) Analysis	ABait/Sa HYDRO No. Wells v	Min. Packer Depth Proposed Max. Sur Admin. Inj. Press. lado T: 1924 B: 366  AFFIRM STATEMI within 1-Mile Radius On Lease Opera	1 520 (100-ft limit) face Press. 3060 psi 3 060 (0.2 psi per ft)  NW: Cliff House fm  ENT By Qualified Person  FW Analysis
Proposed in Confining Unit Adjacent Unit:  AC POTASH: R- FRESH WAT NMOSE Basin Disposal Fluid Disposal Int: I	j Interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por. DR: Hydrologic 111-P	and Geologic In  BLM Sec Ore  CAPITAN REEF:  Bon Spr  (s) Delugation  (BWPD): 17.34	Max Depth  (hru) adj NA  (hru) Analysis  Protectable Wate	Mait/Sa HYDRO No. Wells v	Min. Packer Depth Proposed Max. Sur Admin. Inj. Press.  lado T: 1928: 366  AFFIRM STATEMI within 1-Mile Radius On Lease Opera	1520 (100-ft limit)  face Press. 3060 psi  3060 (0.2 psi per ft)  NW: Cliff House fm  ENT By Qualified Person  FW Analysis  tor Only Of Commercial
Proposed in Confining Unit Adjacent Unit:  AC POTASH: R- FRESH WAT NMOSE Basin Disposal Fluid Disposal Int: I HC Potentia	j Interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por. DR: Hydrologic 111-P	and Geologic In  CAPITAN REEF:  BONE SPECIAL  (S) DELLIGIT  (BWPD): 17.34	Max Depth  (hru) adj NA  (hru) Analysis  Protectable Wate	HYDRO No. Wells v s?S Logs/DST/F	Min. Packer Depth Proposed Max. Sur Admin. Inj. Press. lado T: 12 B: 36  AFFIRM STATEMI within 1-Mile Radius On Lease Opera ource:	100-ft limit) fface Press. 3060 psi 3060 (0.2 psi per ft)  NW: Cliff House fm  ENT By Qualified Person  FW Analysis tor Only Of Commercial ()  System: Closed or Open  2-Mile Radius Pool Map ()
Proposed in Confining Unit Adjacent Unit:  Adj	interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por. DR: Hydrologic  111-P Noticed ER: Aquifer  n: L: Formation Source Inject Rate (Avg/Max L: Producing Interval  1/2-M Radius Map?	and Geologic In  Part BLM Sec One  CAPITAN REEF  BON SPI  CITY OF SPI  CAPITAN REEF  BON SP	Max Depth	Mait/Sa HYDRO No. Wells v s? rs? S Logs/DST/P	Min. Packer Depth Proposed Max. Sur Admin. Inj. Press. lado T: 12 B: 36  AFFIRM STATEMI within 1-Mile Radius On Lease Opera ource:	100-ft limit) fface Press. 3060 psi 3060 (0.2 psi per ft)  NW: Cliff House fm  ENT By Qualified Person  FW Analysis tor Only Of Commercial ()  System: Closed or Open  2-Mile Radius Pool Map ()
Proposed in Confining Unit Adjacent Unit:  Atipacent Unit:  POTASH: R- FRESH WAT NMOSE Basin Disposal Fluid Disposal Int: I HC Potentia AOR Wells: Penetrating W	j Interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por. DR: Hydrologic 111-P	and Geologic In  CAPITAN REEF:  BONE SER  (s) DELLUM  BWPD): 17.34  Well List?  Well List?	Max Depth  Max Depth  Analysis  Protectable Wateroducing?  Method:	No. Wells v s?S Logs/DST/P	Min. Packer Depth Proposed Max. Sur Admin. Inj. Press. lado T: 12 B: 36  AFFIRM STATEMI within 1-Mile Radius On Lease Opera ource:	1620 (100-ft limit) fface Press. 3060 psi 2060 (0.2 psi per ft)  NW: Cliff House fm  ENT By Qualified Person  FW Analysis tor Only Of Commercial ()  System: Closed or Open  2-Mile Radius Pool Map ()  Horizontals?
Proposed in Confining Unit Adjacent Unit:  Atipacent Unit:  POTASH: R- FRESH WAT NMOSE Basin Disposal Fluid Disposal Int: I HC Potentia AOR Wells: Penetrating W	j Interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por. DR: Hydrologic 111-P	and Geologic In  CAPITAN REEF  BONE  (s)  DELIMINATION  BWPD): 17.34  Well List?  Well List?  Num Repairs?	Max Depth	Sait/Sa HYDRO No. Wells v s? rs? S Logs/DST/P	Min. Packer Depth Proposed Max. Sur Admin. Inj. Press.  Jado T: 1928: 36  D AFFIRM STATEM  withIn 1-Mile Radius On Lease Opera ource:  28A/Other 1936  nterval:	1 (20) (100-ft limit)  fface Press. 3060 psi  2 0 (0.2 psi per ft)  NW: Cliff House fm  ENT By Qualified Person  FW Analysis  tor Only Of Commercial ()  System: Closed or Open  2 2-Mile Radius Pool Map ()  Horizontals?
Proposed in Confining Unit Adjacent Unit:  Adjacent Unit:  POTASH: R-FRESH WAT NMOSE Basin Disposal Fluid Disposal Int: I HC Potential AOR Wells: Penetrating Was Penetrating Was NOTICE: New York Notice States of Confining Was Notice States of Confining United	j Interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por. DR: Hydrologic 111-P	and Geologic In  CAPITAN REEF:  BONE SER  (s) DESCRIPTION  BWPD): 17.34-1  All? MAFORMERITY PROPERTY P	Max Depth	Surface (	Min. Packer Depth Proposed Max. Sur Admin. Inj. Press. Jado T: 1928: 36  O AFFIRM STATEM  Within 1-Mile Radius On Lease Opera ource:  P&A/Other 16914.  Owner 13 4 77	1 (20) (100-ft limit)  fface Press. 3060 psi  2 0 (0.2 psi per ft)  NW: Cliff House fm  ENT By Qualified Person  FW Analysis  tor Only Of Commercial ()  System: Closed or Open  2 2-Mile Radius Pool Map ()  Horizontals?
Proposed in Confining Unit Adjacent Unit:  Adjacent Unit:  Adjacent Unit:  Adjacent Unit:  Adjacent Unit:  POTASH: R- FRESH WAT  NMOSE Basin  Disposal Fluid  Disposal Int: I  HC Potential  AOR Wells:  Penetrating W  NOTICE: New RULE 26.7(A):	j Interval BOTTOM: Litho. Struc. Por. Litho. Struc. Por. DR: Hydrologic 111-P	and Geologic In  CAPITAN REEF:  BONE SER  (s) DESCRIPTION  BWPD): 17.34-1  All? MAFORMERITY PROPERTY P	Max Depth  Max Depth  Analysis  Protectable Wate  roducing?  Method:  Total No. Wells F  s?  on which well(s)?  Owner	Surface (	Min. Packer Depth Proposed Max. Sur Admin. Inj. Press.  Jado T: 1928: 36  O AFFIRM STATEMI  Within 1-Mile Radius  On Lease Opera  ource:  P&A/Other 16914.  Owner 13 4 77	1 520 (100-ft limit) fface Press. 3060 psi 2 0 60 (0.2 psi per ft)  NW: Cliff House fm  ENT By Qualified Person  FW Analysis tor Only Of Commercial () System: Closed or Open  2 2-Mile Radius Pool Map () Horizontals?  Diagrams?  Diagrams?

SurFace.