ENGINEER

LOGGED IN

DUVT 13045401

ABOVE THIS LINE FOR DIVISION USE ONLY

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



	· · · · · · · · · · · · · · · · · · ·	ADMINISTRATIVE APPLIC	ATION CHECKLIST
	THIS CHECKLIST IS M	IANDATORY FOR ALL ADMINISTRATIVE APPLICATION WHICH REQUIRE PROCESSING AT THE D	S FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS IVISION LEVEL IN SANTA FE
Appi	[DHC-Dow [PC-Po	ndard Location] [NSP-Non-Standard Prora nhole Commingling] [CTB-Lease Comm pol Commingling] [OLS - Off-Lease Stora	ingling] [PLC-Pool/Lease Commingling] nge] [OLM-Off-Lease Measurement] ssure Maintenance Expansion] ection Pressure Increase]
[1]	_	<u>-</u>	of Operating Like
[1]	[A]	PPLICATION - Check Those Which Apply Location - Spacing Unit - Simultaneous I NSL NSP SD	Dedication South Stream Desp
	Check [B]	Cone Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC	for [A] Dedication C/4/195/31E/EDDY PC OLS OLM
	. [C]	Injection - Disposal - Pressure Increase - WFX PMX SWD	· _ ·
	[D]	Other: Specify	
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Wh Working, Royalty or Overriding Roy	
	[B]	☐ Offset Operators, Leaseholders or St	orface Owner
	[C]	Application is One Which Requires	Published Legal Notice
·	[D]	Notification and/or Concurrent Appr U.S. Bureau of Land Management - Commissioner of Po	roval by BLM or SLO ublic Lands, State Land Office
	(E)	For all of the above, Proof of Notific	ation or Publication is Attached, and/or,
	[F]	☐ Waivers are Attached	
[3]		CURATE AND COMPLETE INFORMATION INDICATED ABOVE.	ATION REQUIRED TO PROCESS THE TYPE
	oval is <mark>accurate</mark> a	- · · · · · · · · · · · · · · · · · · ·	a submitted with this application for administrative I also understand that no action will be taken on this omitted to the Division.
	Note:	Statement must be completed by an individual wi	
	AN COLLINS	Janilolla	SENIOR OPERATIONS ENGINEER 10/24/12
Print	or Type Name	Signature	Title Date bcollins@concho.com
		•	e-mail Address



New Mexico Oil Conservation Division Attn: William V. Jones 1220 South St. Francis Drive Santa Fe, NM 87505

RE: Application For Authorization To Inject

South Shugart Deep 1 SWD

Township 19 South, Range 31 East, N.M.P.M.

Section 4: 760' FNL & 1980' FWL

Eddy County, New Mexico

Dear Mr. Jones:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the South Shugart Deep 1 SWD well as referenced above. Attached, for your review, is a copy of the C-108 application. Once we receive the newspaper publication and all certified return receipts, I will send you a copy.

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

Sincerely,

Brian Collins

Senior Operations Engineer

BC/bg Enclosures STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: COG OPERATING LLC
	ADDRESS: 2208 W. Main Street, ARTESIA, NM 88210
	CONTACT PARTY: BRIAN COLLINS PHONE: 575-748-6940
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: BRIAN COLLINS TITLE: Senior Operations Engineer .
	SIGNATURE: DATE: 240ct 12
•	E-MAIL ADDRESS: <u>bcollins@concho.com</u> 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 SOUTH SHUGART DEEP 1 SWD Unit C, Sec 4 T19S R31E Eddy County, NM

COG Operating, LLC, proposes to squeeze the depleted Morrow 11823-11969', clean out to 13500' and convert well to salt water disposal service into the Devonian from 13242' to 13500'.

- 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 = 3000 BWPD
 Proposed maximum daily injection rate = 25,000 BWPD
 - 2. Closed system
 - 3. Proposed maximum injection pressure = 2648 psi (0.2 psi/ft. x 13242' ft.)
 - 4. Source of injected water will be Bone Spring produced water. No compatibility problems are expected. Analysis of Bone Spring water is attached. There are no Devonian receiving formation water analyses available in this area.
- VIII. The injection zone is the Devonian Dolomite from 13242' to 13500' which recovered 6000' of sulfur water on a DST when drilled. Any underground water sources will be shallower than 497' based on surface casing setting depth. There are no fresh water wells in the area.
 - IX. The Devonian injection interval might be acidized with approximately 30,000 gals of 20% HCl acid.
 - X. Well logs are filed with the Division. A section of the neutron-density porosity log showing the injection interval is attached.
 - 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.

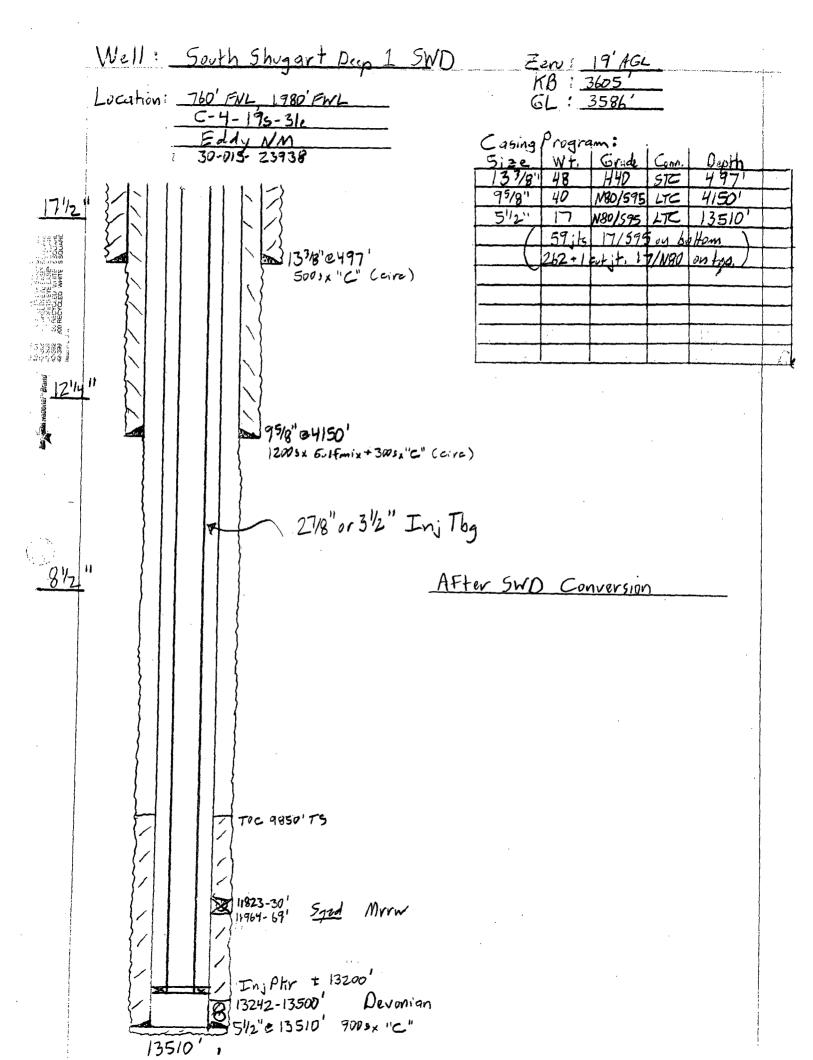
III.

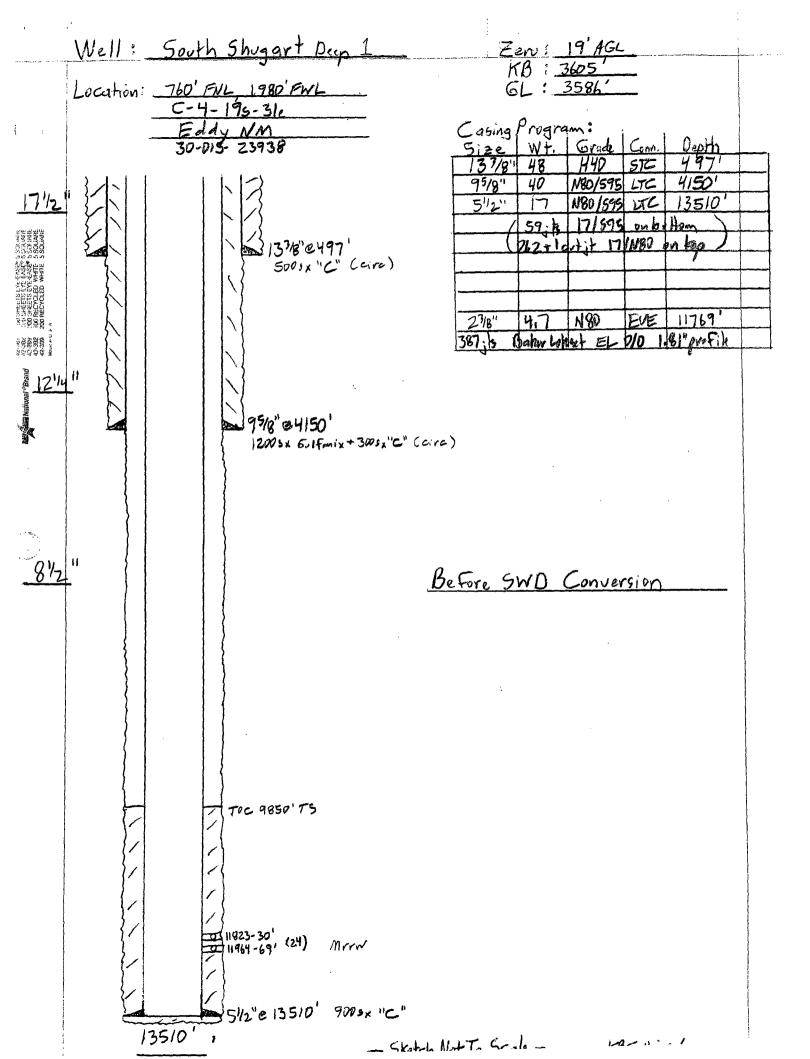
WELL DATA

2.02	TION WELL DIVING			
OPERATOR: COG Operating, LLC				
WELL NAME & NUMBER: South Shugart D	eep 1 5WO			
WELL LOCATION: 760' FNL 1980' FWL	C	4	175	310
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE SCHEMATIC		WELL C Surface	ONSTRUCTION DAT Casing	<u>ra</u>
		7/2"		
	Cemented with:	500 sx.	or	ft^3
See Altached Before & After	Top of Cement:	Surface	Method Determine	d: Circulate
See Altached BeFore & After Schematics		Intermedia		
(Hole Size:	214"	Casing Size: 95/2	3" e 4150'
	Cemented with:	/5 <i>0</i> 0sx.	or	ft ³
		SurFace		
		Production	on Casing	
	Hole Size: 8/2	2"	Casing Size: <u>5り</u>	"e 13510'
	Cemented with:	900 sx.	or	ft ³
		9850'		
	Total Depth:	3510'		
		Injection	Interval	
	1324	42 ' fee	et to <i>13500</i>	. /
		(Perforated or Open I	Hole; indicate which)	

INJECTION WELL DATA SHEET

Tuł	ping Size: 27/8" or 31/2" Lining Material: IPC or Ovoline 20
	pe of Packer: Nickel plated double grip retrievable
Pac	cker Setting Depth: 13200' ±
Otl	ner Type of Tubing/Casing Seal (if applicable): MA
	Additional Data
1.	Is this a new well drilled for injection? YesYes
	If no, for what purpose was the well originally drilled? Oi) \$ 6a5
2.	Name of the Injection Formation: Devenian
3.	Name of Field or Pool (if applicable): Shugart
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.
	Morrow 11823-30', 11964-69'
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	Underlying: None
	Overlying: Seven Rivers = 2600-2700', Queen/Grayburg = 3350-4150
	Overlying: Seven Rivers = 2600-2700', Queen/Grayburg = 3350-4150 Delaware = 6600-6800', Bone goring = 7950-9400'
	Morrow + 11400-12000'



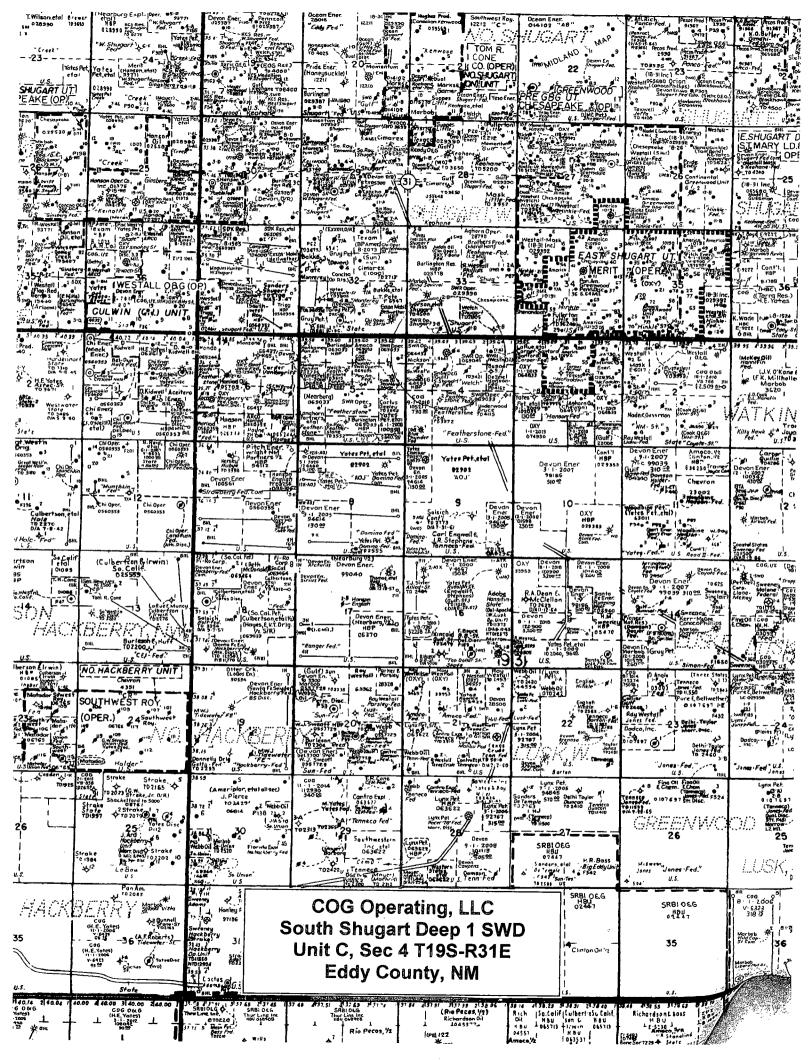


Well: South Shugart Dep 1 Zen 19' AGL KB: 365' GL: 3586' Lucation. 760' FNL, 1780' FNL C-4-195-51e Caring Program: Eddy NM 30-015- 23938 Wt Gride 1/80/575 LTC 95/8" 子っきつ 51/2" W80/595 LTC 13510 17/575 on bullion 1338'0497' 262-18-4-1-17/1901 5003x "C" (circ) EVE | 11767' 27/8" 4.7 NEW ELONOF 1.81" AVEV 121411 95/8" 34150' 12005x 6015-11x+3005x"C" (circ) TOC 4850'TS T 1823-30' (14) 32.16.764 - 77 I DIT 12972-16 1 とうたというの ちかん さ

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V.

MAP



VII.

Water Analysis Produced and Receiving Formation Water

	•											
											~	
WATER SAMP	LES REPRESENTATIVE OF W	ATER BEING INJE	CTED INTO THE	PROPOSEI	SWD WELL	***************************************		<u> </u>		***************************************	<u></u>	
									.,)		
Bone Spring							£					
Lab Test#	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	рΗ	conductivity	Ca (mg/L)	Mg (mg/L)
2012104123	Lusk Deep Unit	A #23H		2/24/2012	2/10/2012	1.11	2.89	175864,37	6.40		9307.00	1462.00
2012103274	Magnum Pronto State	. 4H	William D Polk	.2/9/2012	2/7/2012	1.12	2.91	176497.81	6.56		9713.70	1525.22
2011126701	Patterson B-52 Federal	4H	William D Polk	9/16/2011	8/17/2011	1.11	2.70	166647.70	6.50		8905.26	1281.11

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				<u> </u>		1								***************************************	
		4			<u> </u>										
TH (CaCO3)	Na (mg/L)	K (mg/L)	Zn (mg/L)	Fe (mg/L)	Ba (mg/L)	Sr (mg/L)	Mn (mg/L)	Resistivity	HCO3 (mg/L)	CO3 (mg/L)	OH (mg/L)	SO4 (mg/L)	CI (mg/L)	CO2 (mg/L)	H2S (mg/L)
29671.91	58163.00			56.00	0.29	334.00	2.28		109.80	0,00		1050.00	104100.00	240.00	0.00
30925.66	60247.32	1260.33	67.49	46.13	1.47	312.65	1.50		122.00	0.00		1100.00	102100.00	150.00	0.00
27853.36	50627.64	1179.02	64.08	28.77	7.78	268.77	1.28		134.00	0.00		1150.00	103000.00	160.00	0.00

X.

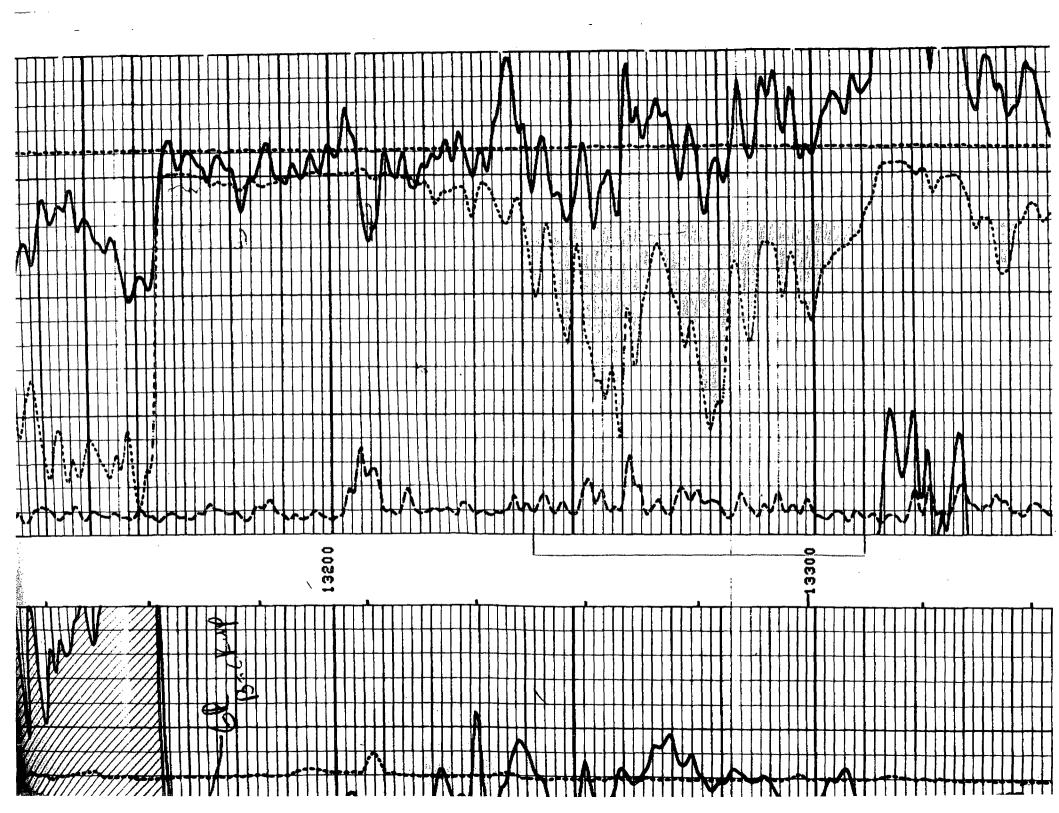
Log Across Proposed Delaware Sand Injection Interval

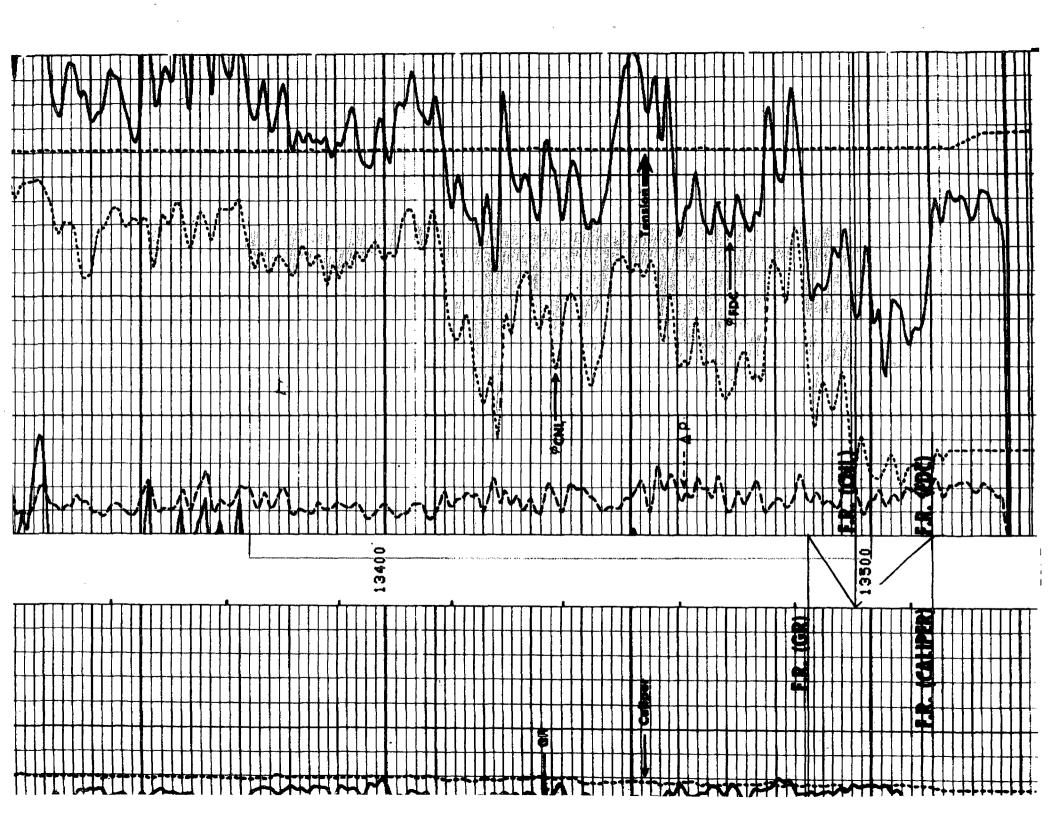
South Shugart Deep Federal Unit #1

DST Information

#1	Delaware •	6,440'-6,520'	IHP 2856, FHP 2856, 6 min IFP 61, 55 min ISIP 1885, 1 hr FF 71-71, 2 hr FSIP 1887, rec 3' of oil & 20' of brine
# 3	Wolfcamp	9,910-10,020	IHP 5410, FHP 5366, 5 min IFP 137-174, 1 hr ISIP 1063, 1 hr FFP 165, 2 hr FSIP 3742, rec 440' gas cut drlg mud
# 4	Morrow	11,786-11,851	IHP 6441, FHP 6441, 12 min IFP 759-782, 1 hr ISIP 5084, 150 min FFP 621-759, 300 min FSIP 5216, 1566' GCWB & 189' GCDF
 #5	Morrow	11,883-11,956	<pre>IHP 6544, FHP 6500, 9 min IF 619-607, 1 hr ISIP 3037, 99 min FF 607-575, 270 min 4790, rec 760' DF & 1200' WB</pre>
# 6	Morrow	12,430-12,500	<pre>IHP 6623, FHP 6623, 6 min IFP 885-774, 1 hr ISIP 3773, 75 min FFP 802, 123 min FSIP 2680, 332' DF rec</pre>
# 7	Mississippian	12,720-12,822	IHP 6894, FHP 6894, 8 min IFP 867-781, 69 min ISIP 5754, 63 min FFP 759-802, 115 min ISIP 5030, 2200 cc gas in sampler est 85 MCFGPD
#8	Devonian	13,165-13,261	<pre>IHP 7174, FHP 7152, 5 min IFP 1304-1431, 60 min ISIP 5452, 120 min FFP 1545-3907, 240 min FSIP 5452, 5940' of salt water & 2600' WB</pre>
#9	Devonian	13,410-13,510	<pre>IHP 7326, FHP 7262, 5 min IFP 1324-1355, 60 min ISIP 5952, 60 min FFP 1387, 116 min FSIP 5506, rec 2913' WP & 632' sulfer water</pre>

Schl	umberger	FORM	SATED N ATION D	EUTRO!	V			A PART OF THE PART					A CANADA AND A CANADA AND AND AND AND AND AND AND AND AN	A CAMERO AND THE COMMENT OF THE COME	***************************************					este establishe man de manuschaften bestättigt von de stelle en men et en			Address of the state of the sta
FROD.		GULF OIL EN		AID /		r.			-											The state of the s			
139		SOUTH SHUGA		DENA L U	AIL #1	e customer	Depth	***************************************											-				
FED. UNIT	COUNTY	EDDY	STATE_N	W MEXICO		shed by th	Type Log				PEMABKS											W	
COMPANY	760' FN	TWP 19~5	ML, RANGE 31-E	Other Servic DLL/MS BMC MONITO	SFL	Software furni																	
red Fron	G.L. n. K.B. rom K.B.	; Eli. ; Eli. Above	Perm. Datum	Elev.: K.8 D.F G.L		ole reference																	
er ger erval	3-10-82 ONE 13510 13513 13512		COPY			and boreh													1000 TO 1000 T				
n Hole Visc	9 5/8@4158 4149 8.5 SALT GEL 10.3 35	@ ml	@	mel	@ ml	The well name, location	ONE 26.7590	FULL	No.	\$09 \$1.00	92	3425	698	8176	8194	2176	180	BOMSPRINE		10	176	165 DC#1	2756
zs, Temp. ras, Temp ras, Temp rf Rmc	C .018 @183 F	7'		°F MAG	@ *F @ *F @ *F				VIVO										Inches		8	+	Spacing - Before Log Spacing - Before Log
Bottom	1330 183 °F	°F		-AR E 5	TOE TE	*	NO.	PPM CL	N N	1 1	kld.	burce alibrator	and and	ource all brater	-	corder (TTR)	Wheel (CPW)	10 in	. New 5. O.	A ICA	S	S -	Spacing





XI.

Fresh Water Sample Analyses



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)



PLSS Search:

Section(s): 32, 33, 34

Township: 18S

Range: 31E



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

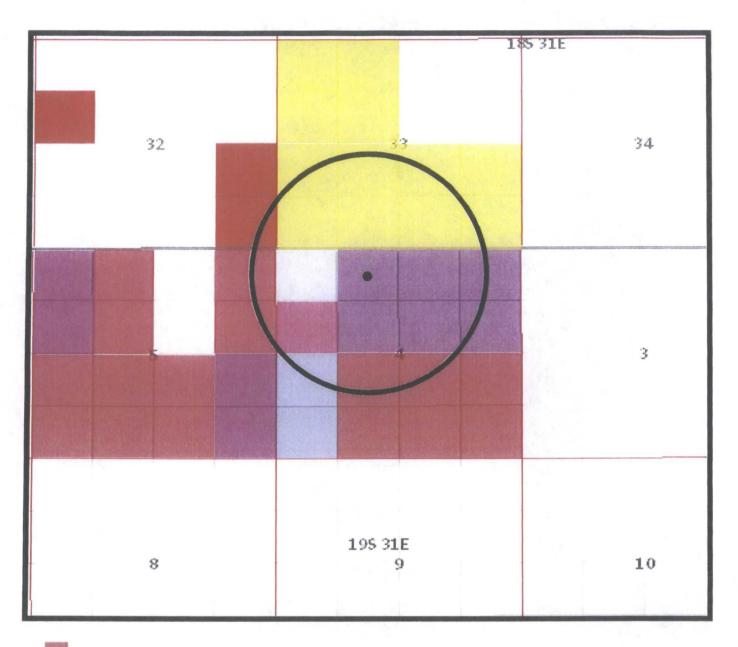


PLSS Search:

Section(s): 3, 4, 5, 8, 9, 10 **Township:** 19S

Range: 31E

Page 1 of 1



-Paul Slayton

Kathryn Alexander; Walter Granbury; Marie Wade; Leland & Virginia Wittkopp

- ~Atofina Petrochemicals/Exxon Corp.
- ~Yates, etal; Oxy Y-1 Company;~
- -Devon Energy Prod Co LP
- Yates, etal; Oxy Y-1 Company;
- -Devon Energy Prod.; Paul Slayton -
- _ Snow Oil and Gas Inc.

COG Operating LLC

18-31 Inc.

South Shugart Deep 1 SWD 760' FNL & 1980' FWL Sec. 4; Township 19s - Range 31e Eddy County, New Mexico



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

RE: Application For Authorization To Inject
South Shugart Deep 1 SWD
Township 19 South, Range 31 East, N.M.P.M.
Section 4: 760' FNL & 1980' FEL
Eddy County, New Mexico

Dear Mr. Inge:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the South Shugart Deep 1 SWD well as referenced above. Attached, for your review, is a copy of the C-108 application. Once we receive the newspaper publication and all certified return receipts, I will send you a copy.

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

Sincerely,

Brian Collins

Senior Operations Engineer

BC/bg Enclosures



Chi Operating P O Box 1799 Midland, TX 79702

Re: Application to Inject

South Shugart Deep 1 SWD
Township 19 South, Range 31 East, N.M.P.M.
Section 4: 760' FNL & 1980' FEL
Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to convert this well to 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 an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

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

Sincerely,

Brian Collins

Senior Operations Engineer

alla.

BC/sw Enclosures



Legacy Reserves Operating P O Box 10848 Midland, TX 79702

Re:

Application to Inject

South Shugart Deep 1 SWD Township 19 South, Range 31 East, N.M.P.M. Section 4: 760' FNL & 1980' FEL

Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to convert this well to 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 an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

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

Sincerely,

Brian Collins

Senior Operations Engineer

John.

BC/sw Enclosures



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

RE: Legal Notice

Salt Water Disposal Well South Shugart Deep 1 SWD

Gentlemen:

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

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

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

Sincerely,

Brian Collins

Senior Operations Engineer

BC/bg

enclosure

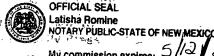
ARTESIA DAILY PRESS LEGAL NOTICES

COG Operating LLC, 2208 W. Main Street, Artesia, New Mexico, 88210, has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the South Shugart Deep 1 SWD is located 760' FNL and 1980' FWL, Sec. 4, Township 19 South, Range 31 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Bone Spring formation. The disposal water will be injected into the Devonian formation at a depth of 13242-13500' at a maximum surface pressure of 2648 psi and a maximum rate of 25,000 BWPD. This well is located approximately 27 miles northeast of Carlsbad. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at COG Operating LLC, 2208 W. Main Street, Artesia, New Mexico 88210, or call 575-748-6940.

Published in the Artesia	Daily Press	, Artesia,	New 1	Mexico
, 201	2.			

Affidavit of Publication 22377 STATE OF NEW MEXICO County of Eddy: **Danny Scott** being duly sworn, says that he is the Publisher of the Artesia Daily Press, a daily newspaper of general TO THE TAIL WHILL 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 Consecutive weeks/days on the same day as follows: First Publication November 21, 2012 Second Publication Third Publication Fourth Publication Fifth Publication Subscribed and sworn to before me this

23rd day of November ,



My commission expires: $\frac{5}{4}$

2012

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

LEGAL NOTICE

GOG Operating LLC: 2208 W. Main Street: Artesia: New Mexico; 88210; has filed: Form C:108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well with South Shugart Deep 11 SWD is located 760 F. Nt. and ... 1980 F.WL: Sec. 43: Township: 19 South; Range: 31 East; Eddy County: New Mexico Disposal water will be sourced from area wells producing from the Bone Spring formation 1 The disposal water will be injected into the Devolan formation at a depth of 13242-13500 at a maximum surface pressure of 2648 psi and a maximum rate of 25 000 BWPD. This well is located approximately 27 miles northeast of Carlsbad. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street: Santa Fe

New/Mexico 87505 within fifteen (15) days of this notice Any interested party with questions or comments may contact Brian Collins at COG Operating LLC 2208 W Main Street Artesia New Mexico 88210 or call 575-748-6940

Published in the Artesia Daily Press, Artesia; N.M., Nov. 21, 2012, Legal No

ALL BUT

- 11. F. Archeological, Historical and Cultural Sites: None observed in the area.
 - G. Land Use: Grazing and hunting, in season.
 - H. Surface Ownership: Surface is Federal
- 12. Operator's Representative:

The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Gulf Oil Exploration & Production Co.

A Division of Gulf Oil Corporation

P. O. Box 670

Hobbs, New Mexico 88240

Telephone: (505) 393-4121

Area Production Manager: R. C. Anderson

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Gulf Oil Corporation and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

September 9, 1981 Date

R. C. Anderson Area Production Manager

KRP/jr

Jones, William V., EMNRD

From:

Bobbie Goodloe < BGoodloe@concho.com>

Sent:

Wednesday, January 02, 2013 11:17 AM

To:

Jones, William V., EMNRD

Cc:

Brian Collins

Subject:

RE: South Shugart Deep 1 SWD

Attachments:

BLM Proof of Delivery-S. Shugart Deep 1 SWD.pdf

Will,

Attached is the Proof of Delivery of notification to the Carlsbad BLM field office for the S. Shugart Deep #1 SWD as requested.

Thank you, Bobbie Goodloe

From: Bobbie Goodloe

Sent: Thursday, December 27, 2012 1:24 PM

To: 'William.V.Jones@state.nm.us' **Subject:** South Shugart Deep 1 SWD

Mr. Jones,

I have attached a copy of the 3160 that was sent out today to the Carlsbad BLM field office as well as the entire packet as you requested on the well named above. I will email proof of delivery when I receive it back.

Please let me know if there is anything else that you need.

Thank you,

Bobbie Goodlae

Administrative Assistant/Completions - NM Basin COG OPERATING LLC 2208 W Main St Artesia, New Mexico 88210-3720 575.748.6954

≫CONCHO

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· 1	4. Restricted Delivery? (Extra Fee)	☐ Yes
2. Article Number (Transfer from service label)	7011,1570,0000,7781 4049	7
PS Form 3811, February 2004	Domestic Return Receipt	102595-02-M-1540



RECEIVED OCD

2012 DEC 13 P 1: 35

December 7, 2012

New Mexico Oil Conservation Division Attn: William V. Jones 1220 South St. Frances Drive Santa Fe. NM 87505

Re:

Affidavit of Publication/Certified Return Receipts

South Shugart Deep 1 SWD

Township 19 South, Range 31 East, N.M.P.M.

Section 4: 760' FNL & 1980' FWL

Eddy County, New Mexico

Dear Mr. Jones:

Enclosed, per your request, please find one copy of the affidavit of publication and on copy of the certified return receipts from each party that was notified. Please note the Certified Mailers were sent out on November 15, 2012.

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

Sincerely,

Brian Collins

Senior Operations Engineer

BC/bg Enclosures

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.	A. Signature
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Article Addressed to:	D. Is delivery address different from item 1? Yes
	If YES, enter delivery address below: No
NMOCD	
Attn: William Jones	
1220 S. StFrancis Dr	
E 1 1- 1/11 1975 -	
Saidate NM 87505	3. Service Type ☑ Certified Mail ☐ Express Mail
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	☐ Insured Mail ☐ C.O.D.
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2. Article Number	01000011778119271
	eturn Receipt ,102595-02-M-15-
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P O BOX 1799 MIDLAND TX 79702	3. Service Type
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	Registered Receipt for Merchandis
	☐ Insured Mail ☐ C.O.D.
	4. Restricted Delivery? (Extra Fee) ☐ Yes
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LEGACY RESERVES OPERATING	
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MIDLAND TX 79702	Certified Mail Express Mail
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the second secon	☐ Insured Mail ☐ C.O.D.
·	4. Restricted Delivery? (Extra Fee) ☐ Yes
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(Transfer from service label)	The state of the s
PS Form 3811, February 2004 Domestic Re	eturn Receipt 102595-02-M-15

Jones, William V., EMNRD

From:

Bobbie Goodloe <BGoodloe@concho.com>

Sent:

Tuesday, January 22, 2013 11:33 AM

To:

Jones, William V., EMNRD

Subject:

South Shugart #1 SWD

Attachments:

South Shugart 1 SWD.PDF; BLM Proof of Delivery-S. Shugart Deep 1 SWD.PDF

Will.

Please review the attachment containing the affidavit of publication along with the Proof of Delivery receipts for the South Shugart #1 SWD well. This was on your list showing that it was never received so let me know if this is not what you are missing since I show them emailed out previously.

Thanks!

Bobbie Goodloe

Administrative Assistant/Completions - NM Basin COG OPERATING LLC 2208 W Main St Artesia, New Mexico 88210-3720 575.748.6954

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Affidavit of Publication

22377

STATE OF NEW MEXIC	0		
County of Eddy:	2		
Danny Scott	my &	car	
being duly sworn, says t	hat he is the	Publisher	
of the Artesia Daily Pres	s, a daily newspa	per of general	
circulation, published in	English at Artesia	, said county	
and state, and that the h	ereto attached		
	Legal Notice		
was published in a regul	ar and entire issu	e of the said	
Artesia Daily Press, a da	aily newspaper du	ly qualified	
for that purpose within th	ne meaning of Cha	apter 167 of	
the 1937 Session Laws	of the state of Ne	w Mexico for	
1 Consecutive	weeks/days on	the same	
day as follows:			
First Publication	November 21, 2	2012	
Second Publication			
Third Publication			
Fourth Publication			
Fifth Publication			
Subscribed and sworn to	before me this		
23rd day of	November	, 2012	
Latisha NOTAR	AL SEAL BROMINE Y PUBLIC-STATE OF NET Inmission expires: 5	MMEXICO 112 1 2012 - UN	
	c, Eddy County, N	lew Mexico	

Copy of Publication:

LEGAL NOTICE

COG Operating LLC, 2208 W. Main Street, Artesia, New Mexico, 88210, has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the South Shugart Deep 1 SWD is located 760 FNL and 1980 FWL, Sec. 4, Township 19 South, Range 31 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Bone Spring formation. The disposal water will be injected into the Devonian formation at a depth of 13242-13500 at a maximum surface pressure of 2648 psi and a maximum rate of 25,000 BWPD. This well is located approximately 27 miles northeast of Carlsbad. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe,

New Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at COG Operating LLC,2208 W. Main Street, Artesia, New Mexico 88210, or call 575-748-6940. Published in the Artesia Daily Press, Artesia, N.M., Nov. 21, 2012. Legal No

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SENDER: COMPLETE THIS SECTION	COMPLETE	HIS SECTION ON DELI	VERY
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PS Form 3811, February 2004	Domestic Return Receipt		102595-02-M-1540

Agent Agen	SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
	 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. 	B. Received by (Printed Name) C. Date of Deliver (1 - 20 - 1) D. Is delivery address different from item 1?
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2 Article Number	P O BOX 10848	3. Service Type Certified Mail Registered Insured Mail C.O.D.
7011 1570 0000 7781 3288	2. Article Number	,570 0000 7781 3288

PS Form **3811**, February 2004

Domestic Return Receipt

102595-02-M-1540

From:

Bobbie Goodloe <BGoodloe@concho.com>

Sent:

Thursday, December 27, 2012 1:23 PM

To:

Jones, William V., EMNRD

Subject:

South Shugart Deep 1 SWD

Attachments:

South Shugart Deep3160.pdf

Mr. Jones,

I have attached a copy of the 3160 that was sent out today to the Carlsbad BLM field office as well as the entire packet as you requested on the well named above. I will email proof of delivery when I receive it back.

Please let me know if there is anything else that you need.

Thank you,

Bobbie Goodlae

Administrative Assistant/Completions - NM Basin COG OPERATING LLC 2208 W Main St Artesia, New Mexico 88210-3720 575.748.6954

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Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

5.	Lease	Seria	l No	

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name

	orm for proposals to Use Form 3160-3 (A						
SUBMIT IN TRIPLICATE - Other instructions on page 2.			7. If Unit of CA/Agreement, Name and/or No.				
. Type of Well							
Oil Well Gas W	/ell	VD.			Well Name and No SOUTH SHUGART	DEEP 1 SWD	
1. Name of Operator COG OPERATING LLC					9. API Well No. 30-015-23938		
a. Address		3b. Phone No. (incl.	ide area code)		10. Field and Pool or Exploratory Area		
2208 W. MAIN STREET, ARTESIA, NM 6	38210	575-748-6940	•		SHUGART MORROW		
. Location of Well (Footage, Sec., T.,.	R.,M., or Survey Description)			i	11. Country or Parish	, State	
760' FNL 1980' FWL, SEC 4 T19S R31E,	UNIT LETTER C				EDDY COUNTY, N	M	
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Final Abandonment Notice	Convert to Injection	Plug Back		Water	Disposal		
determined that the site is ready for	COPY ATTACHED						
4. I hereby certify that the foregoing is to	rue and correct. Name (Printer	d/Typed)					
BRIAN COLLINS Title SENIOR OPERA		PERAT	ONS ENGINEER				
Signature Bui	lelle.	Date	12/27/2012				
	THIS SPACE	FOR FEDERAL	. OR STATE	E OFF	ICE USE		
approved by				٠,			
			Title			Date	
onditions of approval, if any, are attached. Approval of this notice does not warrant or certify at the applicant holds legal or equitable title to those rights in the subject lease which would stitle the applicant to conduct operations thereon.		Office	· · · · · ·				
itle 18 U.S.C. Section 1001 and Title 43 ictitious or fraudulent statements or repre			knowingly and wi	illfully to	make to any departme	ant or agency of the United States any false,	



Abo Petroleum Corp. 105 S. 4th Street Artesia, NM 88210

Re:

Application to Inject

South Shugart Deep 1 SWD

Township 19 South, Range 31 East, N.M.P.M.

Section 4: 760' FNL & 1980' FEL Eddy County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to convert this well to 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 an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

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

Sincerely,

Brian Collins

Senior Operations Engineer

Colle



Lynx Petroleum Inc. Attn: Mr. Larry Scott 3325 N. Enterprise Dr. Hobbs, NM 88240

Re: Application to Inject

South Shugart Deep 1 SWD

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Sincerely,

Brian Collins

Senior Operations Engineer

BC/sw



Devon Energy Prod. Co. LP 333 W. Sheridan Ave Oklahoma City, OK 73102-5010

Re: Application to Inject

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Section 4: 760' FNL & 1980' FEL

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Sincerely,

Brian Collins

Senior Operations Engineer



Myco Industries, Inc. 105 S. 4th Street Artesia, NM 88210

Re:

Application to Inject

South Shugart Deep 1 SWD

Township 19 South, Range 31 East, N.M.P.M.

Section 4: 760' FNL & 1980' FEL

Eddy County, New Mexico

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Sincerely

Brian Collins

Senior Operations Engineer



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

Re: Application to Inject

South Shugart Deep 1 SWD

Township 19 South, Range 31 East, N.M.P.M.

Section 4: 760' FNL & 1980' FEL Eddy County, New Mexico

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

Sincerely,

Brian Collins

Senior Operations Engineer



Paul Slayton P O Box 2035 Roswell, NM 88202-2035

Re: Application to Inject

South Shugart Deep 1 SWD

Township 19 South, Range 31 East, N.M.P.M.

Section 4: 760' FNL & 1980' FEL Eddy County, New Mexico

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Sincerely,

Brian Collins

Senior Operations Engineer



Yates Petroleum Corp. 105 S. 4th Street Artesia, NM 88210

Re: Application to Inject

South Shugart Deep 1 SWD Township 19 South, Range 31 East, N.M.P.M.

Section 4: 760' FNL & 1980' FEL

Eddy County, New Mexico

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Sincerely,

Brian Collins

Senior Operations Engineer



18-31 Inc. P O Box 1120 Roswell, NM 88202-1120

Re: Application to Inject

South Shugart Deep 1 SWD

Township 19 South, Range 31 East, N.M.P.M.

Section 4: 760' FNL & 1980' FEL Eddy 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

Senior Operations Engineer

lille.



Kathryn Alexander P O Box 1248 Fredricksburg, TX 78624-1248

Re: Application to Inject

South Shugart Deep 1 SWD

Township 19 South, Range 31 East, N.M.P.M.

Section 4: 760' FNL & 1980' FEL Eddy County, New Mexico

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Walter Granberry 1923 33rd Street Lubbock, TX 79411

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Marie Wade P O Box 1248 Fredricksburg, TX 78624-1248

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Brian Collins

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Leland Wittkopp 803 Runyan Artesia, NM 88210

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Virginia Wittkopp 803 Runyan Artesia, NM 88210

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Brian Collins

Senior Operations Engineer



Snow Oil & Gas Inc. P O BOX 1277 Andrews, TX 79714

Re: Application to Inject

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Township 19 South, Range 31 East, N.M.P.M.

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ExxonMobil Corporation 800 Bell Street Houston, TX 77002

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Sincerely,

Brian Collins

Senior Operations Engineer

From: Jones, William V., EMNRD

Sent: Wednesday, December 26, 2012 5:37 PM

To: 'Brian Collins'

Cc: Dean Chumbley; Ezeanyim, Richard, EMNRD

Subject: Disposal application from COG Operating LLC: South Shugart Deep #1 30-015-23938

C/4/19S/31E/Eddy County Devonian disposal from 13242 to 13500 feet

Hey Brian,

The only thing I see to question on this application for SWD in Eddy County is the notices:

- a. Surface Owner: Our well file shows the surface at this well location to be Federal at least in the original APD for this well. If you agree, would you send Carlsbad Field Office a copy of the C-108 and let me know when it was mailed? I didn't see proof of notice to any surface owner.
- b. AOR "affected persons" the list/map indicates several parties to notify, but the green cards are only for Legacy and Chi and those two were not on the list. So maybe a mix-up or I got the applications shuffled. Would you guys check it out?

Otherwise, all looks swell, the well was drilled for some reason to Devonian depths, but the DST's were wet. I didn't look for the nearest production, but it clearly is not within ½ mile.

Thanks Again,

Will

From:

Brian Collins <BCollins@concho.com>

Sent:

Thursday, December 27, 2012 8:11 AM

To:

Jones, William V., EMNRD

Subject:

RE: Disposal application from COG Operating LLC: South Shugart Deep #1

30-015-23938 C/4/19S/31E/Eddy County Devonian disposal from 13242 to 13500 feet

Will: I'm embarrassed at the poor job we've done on notifying the surface owner recently. I thought we'd notified the BLM, but we didn't. Notification will be mailed to CFO BLM today. I promise to pay closer attention when proofing our notification letters. Dean Chumbley will check on b. below (he's out of the office). I think he determined that Legacy and Chi and ourselves were the only "lease operators" within the ½ mile radius. We'll let you know. Thanks. --Brian

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

Sent: Wednesday, December 26, 2012 6:37 PM

To: Brian Collins

Cc: Dean Chumbley; Ezeanyim, Richard, EMNRD

Subject: Disposal application from COG Operating LLC: South Shugart Deep #1 30-015-23938 C/4/19S/31E/Eddy County

Devonian disposal from 13242 to 13500 feet

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Thanks Again,

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.

From:

Jones, William V., EMNRD

Sent:

Thursday, January 03, 2013 10:15 AM

To:

'Bobbie Goodloe'

Subject:

RE: South Shugart Deep 1 SWD

I think the Landman is looking at this one – or the listing of "affected persons" in the application was incorrect...??

For the "affected persons" we are mainly interested in the owners of the formation depths being proposed for SWD. Normally those are Lessees as there should not be any "Division designated Operators" in the interval being proposed for SWD.

That being said, sometimes if there are shallower or deeper producing wells, and those operators like to be noticed also – sometimes they are concerned about effects on their uncemented wellbores.

Also notice should go to the surface owner of the well site and the nearest Potash Lessee if the ½ or so mile AOR extends into the R-111-P defined Potash Area.

From: Jones, William V., EMNRD

Sent: Thursday, December 27, 2012 2:51 PM

To: 'Bobbie Goodloe'

Subject: RE: South Shugart Deep 1 SWD

Thank You!

Only now waiting on a question of notice to Affected Persons.

The parties shown on the colored plat with the AOR circle on it were not shown as being noticed.

From: Bobbie Goodloe [mailto:BGoodloe@concho.com]

Sent: Thursday, December 27, 2012 1:23 PM

To: Jones, William V., EMNRD

Subject: South Shugart Deep 1 SWD

Mr. Jones,

I have attached a copy of the 3160 that was sent out today to the Carlsbad BLM field office as well as the entire packet as you requested on the well named above. I will email proof of delivery when I receive it back.

Please let me know if there is anything else that you need.

Thank you,

Bobbie Goodloe

Administrative Assistant/Completions - NM Basin COG OPERATING LLC 2208 W Main St

Lost NOT 10 /29 13 in 11/15/12 3
Injection Permit Checklist 1/15/2010
Wells 1 Well Name(s): SUTH SHUSART PEEP WING # 1
API Num: 30-0 45-23 138 Spud Date: 818 New/Old: O(UIC primacy March 7, 1982)
Footages 760 FIVL / 1980 FWL Unit C Sec 4 Tsp 195 Rge 31 E County
General Location:
Operator: COG OPERATING LLC Contact BRIAN COLLINS
OGRID: 229137 RULE 5.9 Compliance (Wells) 92755 (Finan Assur) 81 IS 5.9 OK? OF
Well File Reviewed Current Status: Morrow 11823-11,9675160E82 Now Booky Product
Planned Work to Well: SQZ Mona Park
Diagrams: Before Conversion After Conversion Elogs in Imaging File: USS Sizes Setting Stage Cement Cement Top and
Well Details: HolePipe Depths Tool Sx or Cf Determination Method
New Haxisting _Surface 17 /2- 132/8 497 505x CRC New Haxisting _Interm 12 /4- 95/8 497 1500 SX CRC
New Existing Longst 8/2-5/2 13510 TD 905XC 9850 T.S.
New_Existing _ Liner
New_Existing _ OpenHole
Depths/Formations: Depths, Fty JEARNATION DEV TOPS? SHUGARIN UNIT
Formation(s) Above
Max. PSI 26 68 OpenHole Perfs Tubing Size & a 3 Packer Depth 13200
Injection BOTTOM: 13500 Dev Tubing Size 8 02 3 Packer Depth 13200
Formation(s) Below
Capitan Reef? (Potash? Noticed? Neticed? Salado Top/Bot 810 - 245 Chitt House?
Fresh Water: Depths:
Disposal Fluid Analysis? Sources: 3.5
Disposal Interval: Analysis? N Production Potential/Testing: DST = aet (12/28/12)
Notice: Newspaper Date 1 21 12 Surface Owner BLM Mineral Owner(s)
RULE 26.7(A) Affected Persons: Spec (ST CHT Language)
Active Wells Repairs? WhichWells?
P&A Wells Repairs? Which Wells?
Issues: ALTY MILE TEST Day 7. Request Sent Reply: