

ABOVE THIS LINE FOR DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
 [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
 Check One Only for [B] or [C]
 [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
 [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
 [D] Other Specify _____

*SWD-1679
 - Owl SWD Operating, LLC
 308334*

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
 [A] Working, Royalty or Overriding Royalty Interest Owners
 [B] Offset Operators, Leaseholders or Surface Owner
 [C] Application is One Which Requires Published Legal Notice
 [D] Notification and/or Concurrent Approval by BLM or SLO
U S Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] Waivers are Attached

*well
 - Gold Coast LLC
 SWD #3
 30-025-Pending*

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

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

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

Ben Stone
 Print or Type Name

Ben Stone
 Signature

Agent for Owl SWD Operating, LLC 5/31/17
 Title Date
ben@sosconsulting.us
 e-mail Address



June 3, 2017

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

Attn Mr David Catanach, Director

Re Application of Owl SWD Operating, LLC to permit for salt water disposal the Gold Coast 26 Federal SWD Well No 3, [new drill] located in Section 26, Township 24 South, Range 32 East, NMPM, Lea County, New Mexico

Dear Mr Catanach,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to complete for disposal, the proposed Gold Coast 26 Federal SWD No 3

I would like to point out that COG Operating, LLC had already submitted a C-108 for this proposed well and received approval however, COG never submitted the C-101 so there is not applicable API number assigned to the proposed well, as of yet The parties discussed a transfer but without an API, it was obvious that Owl must re-file the C-108 While I've updated some of the exhibits for clarity, the proposed well data and construction is exactly as permitted by SWD-1566, approved August 14, 2015 While the following C-108 is full and complete in its own right, there have been no changes in the AOR or other pertinent details of the proposed operation

Owl SWD Operating seeks to provide quality facilities and options for area operators' disposal needed and to optimize efficiency, both economically and operationally, of its assets Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights

Published legal notice ran in the June 1, 2017 edition of the Hobbs News-Sun and all offset operators and other interested parties have been notified individually The legal notice affidavit will be forwarded when received This application also includes wellbore schematics, area of review maps, leaseholder plats and other required information for a complete Form C-108 The well is located on federal lands and a copy of this application has been furnished to the Bureau of Land Management, CFO Oil and Gas Division

I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me

Best regards,

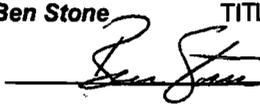
Ben Stone, Partner
 SOS Consulting, LLC
 Agent for Owl SWD Operating, LLC

Cc Application attachment and file

APPLICATION FOR AUTHORIZATION TO INJECT

- I PURPOSE ***Salt Water Disposal*** and the application **QUALIFIES** for administrative approval
- II OPERATOR ***Owl SWD Operating, LLC***
ADDRESS ***8214 Westchester Dr., Ste 850, Dallas, TX 75255***
CONTACT PARTY ***Agent: SOS Consulting, LLC – Ben Stone (903) 488-9850***
- III WELL DATA ***All well data and applicable wellbore diagrams are ATTACHED.***
- IV ***This is not an expansion of an existing project.***
- V ***A map is attached*** 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 A tabulation is attached of data on all wells of public record within the area of review which penetrate the proposed injection zone ***There are NO (0) Wells in the subject AOR.*** The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail ***NO P&A Wells.***
- VII ***The following data is ATTACHED*** on the proposed operation, including
- 1 Proposed average and maximum daily rate and volume of fluids to be injected,
 - 2 Whether the system is open or closed,
 - 3 Proposed average and maximum injection pressure,
 - 4 Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water, and,
 - 5 If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc)
- *VIII ***Appropriate geologic data on the injection zone is ATTACHED*** 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 ***Stimulation program – a conventional acid job may be performed to clean and open the formation.***
- *X Attach appropriate logging and test data on the well (If well logs have been filed with the Division, they need not be resubmitted) ***Well Logs will be filed with OCD.***
- *XI ***There are NO (0) domestic water wells within one mile of the proposed salt water disposal well.***
- XII ***An affirmative statement is ATTACHED that available geologic and engineering data has been examined and 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" section on the next page of this form has been completed and ATTACHED. There are 3 offset lessees and/or operators within ½ mile and BLM minerals - all have been noticed. Well location is Federal.***
- 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 ***Ben Stone*** TITLE ***SOS Consulting, LLC agent for Owl SWD Operating, LLC***

SIGNATURE  DATE ***5/31/2017***

E-MAIL ADDRESS: ***ben@sosconsulting.us***

* 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

DISTRIBUTION Original and one copy to Santa Fe with one copy to the appropriate District Office

FORM C-108 – APPLICATION FOR AUTHORIZATION TO INJECT (cont.)

III WELL DATA – *The following information and data is included (See ATTACHED Wellbore Schematic):*

A The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name, Well No., Location by Section, Township and Range, and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

B The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE *pursuant to the following criteria is ATTACHED.*

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

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

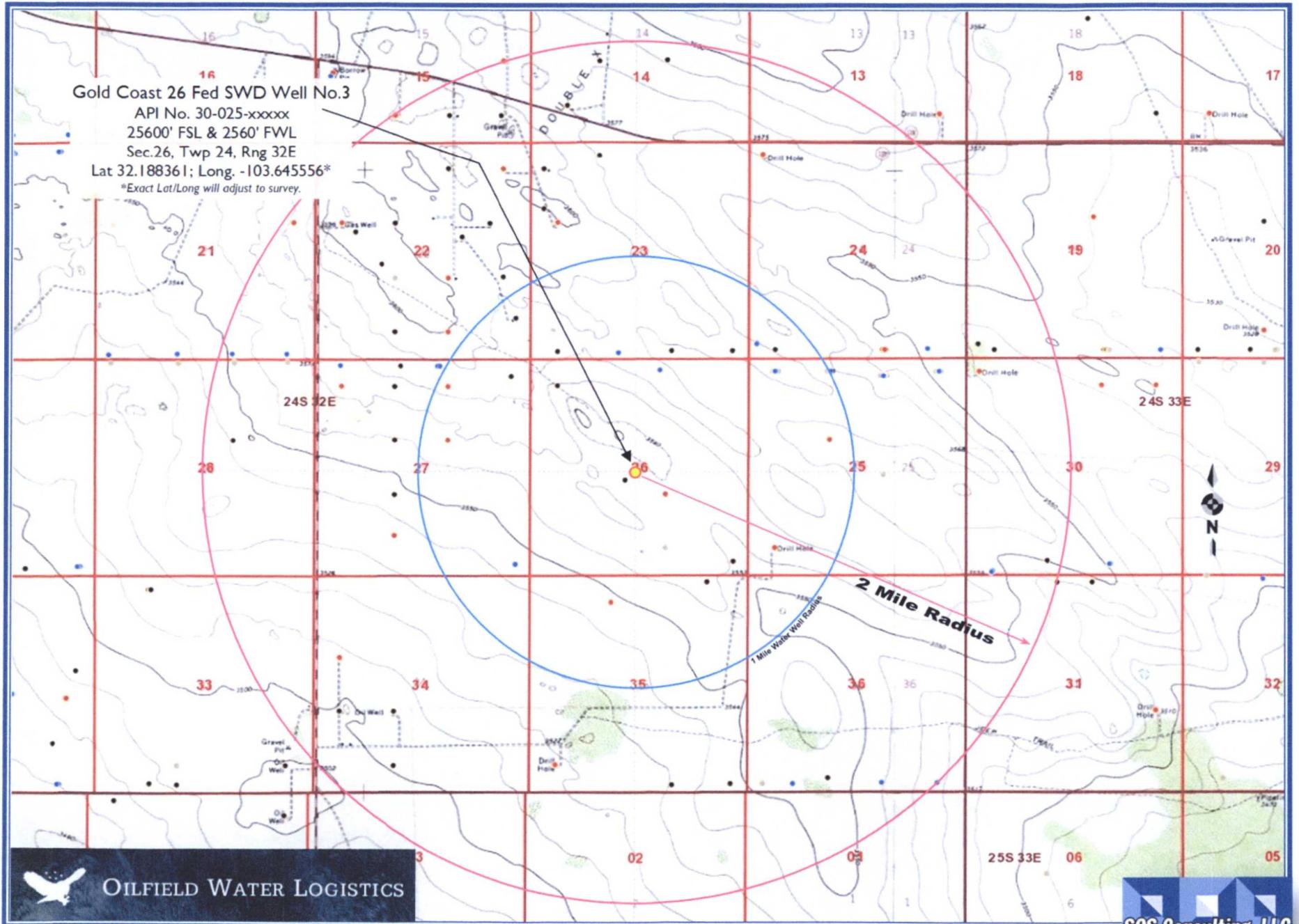
- (1) The name, address, phone number, and contact party for the applicant,
- (2) The intended purpose of the injection well, with the exact location of single wells or the Section, Township, and Range location of multiple wells,
- (3) The formation name and depth with expected maximum injection rates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

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

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

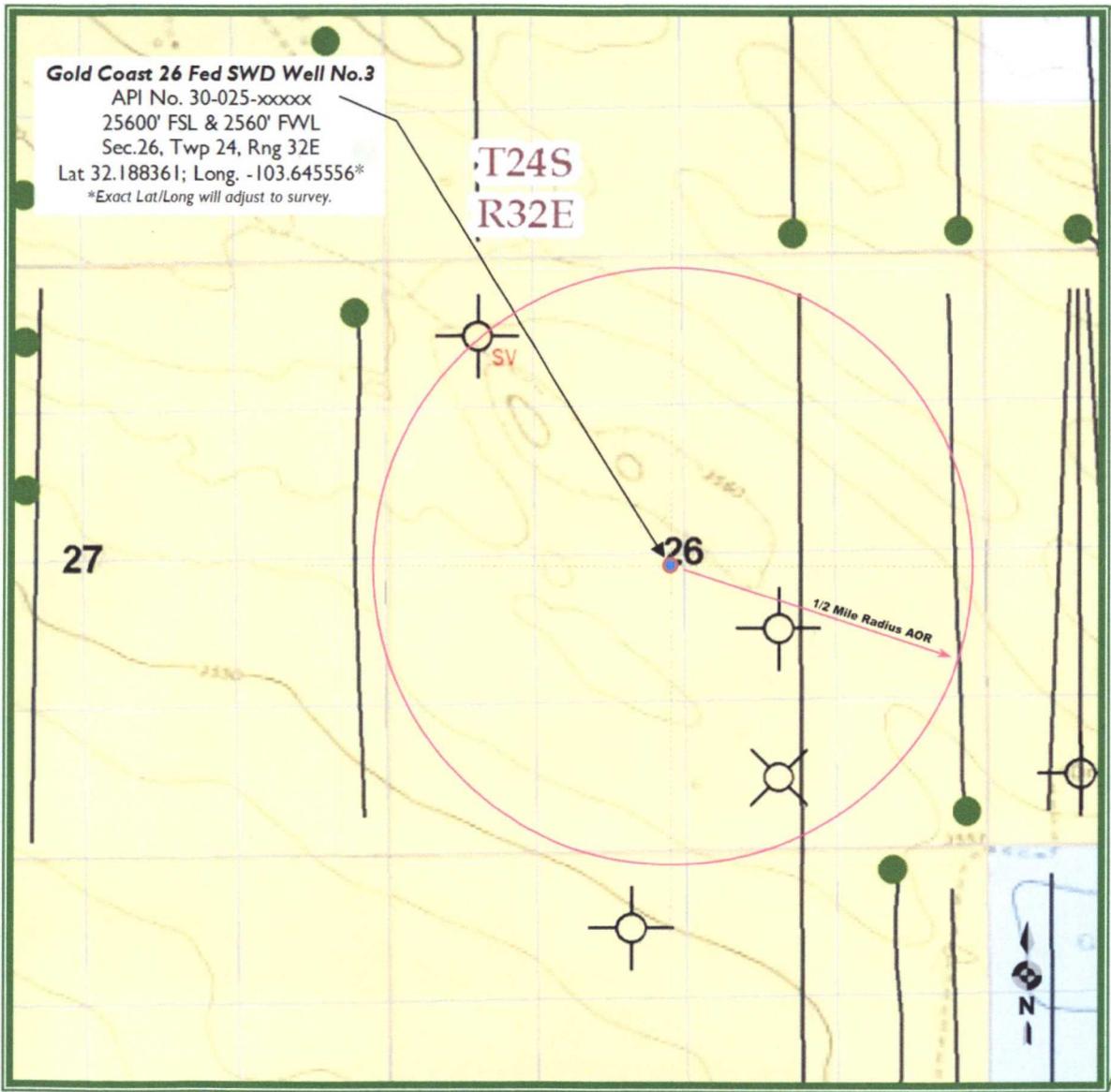
Gold Coast 26 Federal No.3 SWD - Area of Review / 2 Miles

(Attachment to NMOCD Form C-108 - Item V)

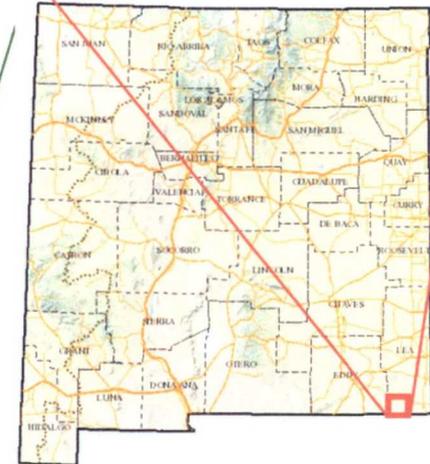


Gold Coast 26 Federal SWD Well No.3 - Area of Review / Overview Map

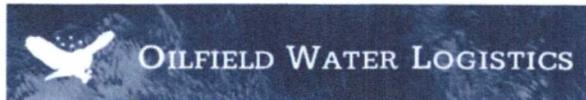
(Attachment to NMOCD Form C-108 - Item V)



~27.1 miles W/NW of Jal, NM



Lea County, New Mexico



C-108 - Item VI

Area of Review Well Data

**THERE ARE NO WELLS WHICH PENETRATE THE
PROPOSED DEVONIAN FORMATION IN THE
ONE-HALF MILE AREA of REVIEW**

revised 6-26-2017

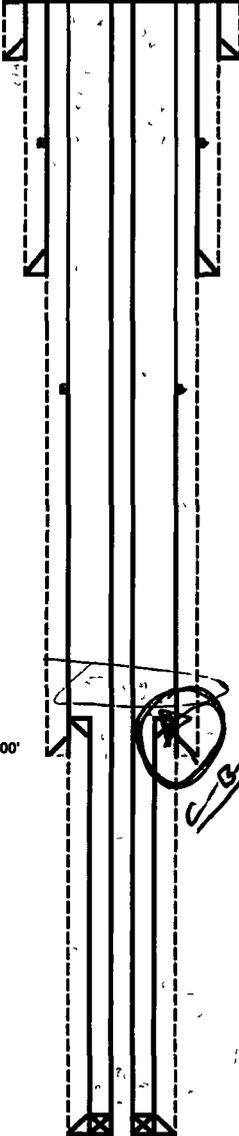


PROPOSED WELLBORE

WELL NAME Gold Coast 26 Fed SWD No
 POOL SWD, DEVONIAN-SILURIAN (97869)
 LOCATION 2650' FSL & 2650' FWL
Sect 26, T-24S, R-32E
 COUNTY/STATE Lea County, New Mexico

SPUD _____ API# _____
 RIG RELEASE _____ AFE# _____
 COMP DATE _____
 DRILLING RIG _____

KB 3600 GL 3572
 28' above GL



SURFACE CASING

DEPTH 750' SIZE 20" WT 94 GRADE BTC J/K-55 BIT SIZE 26"
 CEMENT Lead 1025 sx ExtendaCem + 2% CaCl + 0.25 pps Celloflake (13.5 ppg 1.76 yld) Tail 375 sx CI C + 2% CaCl + 0.25 pps Celloflake (14.8 ppg 1.34 yld) Cement circulated to surface

1st INTERMEDIATE CASING

DEPTH 4900' SIZE 13-3/8" WT 68 GRADE STC HCP-110 BIT SIZE 17-1/2"
 CEMENT Two Stage- Stg 1-Lead 2170 sx HLC + 5% Salt (12.7 ppg 1.94 yld) Tail 300 sx Class C cmt + 2% CaCl (14.8 ppg 1.34 yld) Stg 2 - Lead 1820 sx HLC + 5% Salt (12.7 ppg 1.94 yld) Tail 200 sx CI C cmt + 2% CaCl (14.8 ppg 1.34 yld) Circulate cmt to surface
 DV TOOL 2,500'

2nd INTERMEDIATE CASING

DEPTH 12200' SIZE 9-5/8" WT 53.5 GRADE LTC HCP-110 BIT SIZE 12-1/4"
 CEMENT Two Stage Cmt Job Stg 1 - Lead 1535 sx HLC cmt (11.9 ppg 2.45 yld) Tail 100 sx CI H cmt. (14.2 ppg 1.27 yld) Stg 2 - Lead 800 sx HLC (11.9 ppg 2.45 yld) Tail 100 sx CI H (14.2 ppg 1.27 yld) Circulate cmt to surface
 DV TOOL 5,000'

LINER

DEPTH 12,000' - 17,050' SIZE 7.0" WT 35 GRADE UFJ P-110 BIT SIZE 8 1/2"
 CEMENT 300 sx Class H cmt + additives

TUBING

DEPTH 16950' SIZE 4-1/2" IPC WT 15.1 GRADE LTC P-110 PKR 16955'

OPEN HOLE
 6.125" OH
 TD - 19,000'

Drawn by Ben Stone
 Rvsd 6/26/17

C-108 ITEM VII – PROPOSED OPERATION

Gold Coast 26 Federal SWD No.3

Commercial SWD Facility

Upon approval of all permits for SWD, operations would begin within 30 days. Completion of the well operations will take approximately 6-8 weeks. Facility construction including installation of the tank battery, berms, plumbing and other and associated equipment would be occurring during the same interval but at a different location from the well. In any event, it is not expected for the construction phase of the project to last more than 60 days, depending on availability of contractors and equipment. At the time of this submittal, and subject to approval of the BLM SWD right-of-way and the availability of the drilling contractor, the anticipated start date is November 15, 2017.

Configure for Salt Water Disposal

Prior to commencing any work, an NOI sundry(ies) will be submitted to configure the well for SWD and will detail the completion workover including all work otherwise described above, any change to the procedure noted herein and to perform mechanical integrity pressure test per OCD test procedures (Notify NMOCD 24 hours prior). The casing/tubing annulus will be monitored for communication with injection fluid or loss of casing integrity.

Operational Summary

The SWD facility will not be fenced so that trucks may access for load disposal 24/7.

The well and injection equipment will be a closed system and equipped with pressure limiting devices and volume meters. The annulus, loaded with an inert, anti-corrosion packer fluid, will be monitored for pressure.

The tanks will be equipped with telemetry devices and visual alarms to alert the operator and customers of full tanks or an overflow situation.

Anticipated daily maximum volume is 25,000 bpd and an average of 15,000 bpd at a maximum surface injection pressure of 3410 psi (.2 psi/ft gradient – maximum pressure will be adjusted when top of interval is determined).

Potential releases will be contained and cleaned up immediately. The operator shall repair or otherwise correct the situation within 48 hours before resuming operations. OCD will be notified within 24 hours of any release greater than 5 bbls. If required, remediation will start as soon as practicable. Operator shall comply with 19 15 29 NMAC and 19 15 30 NMAC, as necessary and appropriate.

C-108 ITEM VII – PRODUCED WATER ANALYSES

Item VII.4 – Water Analysis of Source Zone Water

(Note: The following data was supplied by COG as part of the original C-108 on the proposed well.)

Delaware
Bone Spring
Wolfcamp

Item VII.5 – Water Analysis of Disposal Zone Water

Devonian

Water Analyses follow this page.

WATER SAMPLES REPRESENTATIVE OF WATER BEING INJECTED INTO THE PROPOSED SWD WELL												
Delaware												
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												
2012104723	Phantom 18 State	2H	William D Polk	2/29/2012	1/6/2012	1.09	2.23	136209.81	6.52		6156.63	1132.53
Wolfcamp												
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

C-108 – Item VII.5

Water Analysis – Disposal Zone - Devonian

Injection Water Analysis Report
Mad Dog 15 #1
SEC 15-T23S-R34E
(Devonian Formation Water)

North Permian Basin Region
 P.O. Box 740
 Sundown, TX 79372-0740
 (806) 229-6121
 Lab Team Leader - Sheta Hernandez
 (432) 425-7240

Water Analysis Report by Baker Petrolite

Company:	DEVON ENERGY CORPORATION	Sales RDT:	33517
Region:	PERMIAN BASIN	Account Manager:	FRANK GARDNER (575) 390-5184
Area:	JAL, NM	Sample #:	481511
Lease/Platform:	MAD DOG '15' LEASE	Analysis ID #:	102920
Entity (or well #):	1	Analysis Cost:	\$90.00
Formation:	DEVONIAN		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 481511 @ 75 °F											
Sampling Date:	05/24/10	Anions		mg/l		meq/l		Cations		mg/l		meq/l	
Analysis Date:	05/13/10	Chloride:	40711.0	1148.31	Sodium:	24282.3	1055.35	Bicarbonate:	388.0	6	Magnesium:	298.0	24.51
Analyst:	LEAH DURAN	Carbonate:	0.0	0	Calcium:	1833.0	91.47	Sulfate:	1404.0	29.23	Strontium:	55.0	1.28
TDS (mg/l or g/m3):	63356	Phosphate:			Barium:	1.0	0.01	Borate:			Iron:	4.5	0.16
Density (g/cm3, ton/m3):	1.051	Silicate:			Potassium:	421.0	10.77	Hydrogen Sulfide:		153 PPM	Aluminum:		
Anion/Cation Ratio:	1	Comments:			pH at time of sampling:		8.4	Copper:			Chromium:		
Carbon Dioxide:	20 PPM				pH at time of analysis:			Lead:			Manganese:	0.200	0.01
Oxygen:	N/A				pH used in Calculation:		8.4	Nickel:					

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp °F	Gauge Press. psi	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press psi
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0	1.60	51.07	-0.42	0.00	-0.46	0.00	-0.15	0.00	1.22	0.65	0.01
100	0	1.70	54.87	-0.48	0.00	-0.43	0.00	-0.18	0.00	1.04	0.65	0.02
120	0	1.82	58.60	-0.49	0.00	-0.38	0.00	-0.18	0.00	0.89	0.65	0.05
140	0	1.55	62.88	-0.51	0.00	-0.31	0.00	-0.15	0.00	0.78	0.33	0.09

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
 Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
 Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

C-108 – Item VIII

Geologic Information

The Devonian, Silurian and upper Ordovician all consist of carbonates including light colored dolomite and chert intervals interspersed with some tight limestone intervals. Several thick sections of porous dolomite capable of taking water are present within the subject formations in the area. It is reasonable to assume that a Silurian section is present between the Devonian and Ordovician (Montoya) although the top depth of Silurian and Ordovician intervals is uncertain at this time. If the base of Devonian and top of Silurian and/or Ordovician rocks come in as expected the well will only be drilled deep enough for adequate logging rathole

At a proposed depth of 19,000' BGL (Below Ground Level) the well will TD approximately 2,000' below the estimated top of the Devonian. Mud logging through the interval will ensure the target interval remains in Devonian, Silurian and Ordovician. Once Devonian is determined, the casing shoe depth will be set at an approximate maximum upper depth of 17,050' BGL TD and maximum applied depth will occur approximately at 19,000' BGL. Injection will occur through the resulting openhole interval.

The Devonian is overlain by the Woodford Shale and Ordovician (Montoya) rock is underlain by the Middle and Lower Ordovician; Simpson and Ellenburger

Fresh water in the area is generally available from the Santa Rosa formation. State Engineer's records show water wells in the area with a depth to groundwater of 380 feet.

There are NO water wells located within one mile of the proposed SWD

C-108 ITEM X – LOGS and AVAILABLE TEST DATA

A log strip from the State 29 'J' Well No.1, API No.30-025-26158,
located in J-29-24S-33E is attached.

This well is approximately 3.1 miles east of the proposed SWD
and shows the top of the Devonian and the Woodford Shale confining strata.

LOG STRIP FOLLOWS

COMPENSATED NEUTRON FORMATION DENSITY

Company **GETTY OIL COMPANY**
 Well **STATE "29" J #1**
 Field **WILDCAT**
 County **LEA STATE NEW MEXICO**

1980' FSL & 1980' FEL

Other Services:
**DLL/MSFL
 BHC
 CYBERLOOK**

Permanent Datum **G.L.** Elev **3520**
 Log Measured From **K.B.** **23.5** Ft Above Perm Datum Elev **K.B. 3543.5**
 Drilling Measured From **K.B.** Elev **G.L. 3520**

Date	1-27-79	4-8-79	4-27-79
Run No	ONE	TWO	THREE
Depth-Driller	12620	16957	17252
Depth-Logger	12616	16955	17250
Int. Log Interval	12613	16952	17247
Top Log Interval	5228	12600	16906
Log-Driller	13 3/8 @ 5227	9 5/8 @ 12620	7" @ 16932
Log-Logger	5228	12612	16906
Bit Size	12 1/4	8 1/2	6 1/8
Type Fluid in Hole	SALT MID	FRESH GEL	BRINE
Dens. Visc	8.9 @ 28	14.1 @ 84	9.8 @ 28
pH Fluid Loss	9.2	5	9.5
Source of Sample	FLOWLINE	SHALE SHAKER PIT	
Rm @ Meas. Temp	.107 @ 58 F	1.59 @ 80 F	.055 @ 78 F
Rmf @ Meas. Temp	.095 @ 58 F	.20 @ 78 F	.054 @ 78 F
Rmc @ Meas. Temp		2.31 @ 80 F	
Source: Rmf Rmc	M M	C C	M M
Rm @ BHT	.042 @ 159 F	.53 @ 250 F	.015 @ 257 F
Circulation Stopped		0000	1600 4-26
Logger on Bottom	0930	1400	0800 4-27
Max. Rec. Temp.	159 F	250 F	257 F
W.P. Location	8050 MID ON	8050 MID ON	8018 MID ON
Recorded by	HILLER	SHELDER	HANSEN/MCKNIGHT
Intersted by Mr	ESAT	BUTROS	LEBT

The well name, location and borehole reference data were furnished by the customer.

Run No	TWO	THREE
Service Order No	59660	FULL
Fluid Level	FULL	FULL
Salinity, PPM CL	2000	15000
Speed - F.P.A.	30	30
EQUIPMENT DATA		
Dens. Panel	106	91
Dens. Cart	34	38
Dens. Stand	62	67
Dens. Stand	22	26
Dens. Source	5228	67
Dens. Collimator	128	136
Neut. Panel	104	91
Neut. Cart	574	401
Neut. Source	457	478
Neut. Collimator	1605	517
GB Cart		1102
Memorizer Panel		1997
Tape Recorder (TR)		153
Depth Encoder (DBE)		87
Pressure Wheel (CPW)		756
Control Panel		868
Enter Spring		
Standoffs		
Inches or Neoms		
CALIBRATION DATA		
GR	SEE CAL FILM	SEE CAL FILM
BKG CPS		
Source GPS		
Sens. Cal		
T.C. Cal		
Short Spacing - Before Log		RATIO
Long Spacing - Before Log		2.16
Short Spacing - After Log		RATIO
Long Spacing - After Log		2.16
Pa - Before Log		339
Pa - After Log		509
Pi - Before Log		336
Pi - After Log		510

REMARKS:
 RUN TWO - GR CURVE MERGED ON LINE
 FILM FROM DIL

DEPTH	GMP		PDC		GR	
	Parasity Scale	Matrix	Gain Density	Liquid Density	Moist Fluid	Scale 100 Div
Top						
Bottom						
5228	30 - 10	LIME	30 - 10	2.71	WATER	100
12615	30 - 10	LIME	30 - 10	2.71	WATER	100
12600	30 - 10	SAND	30 - 10	2.65	LIO	165
16906	30 - 10	LIME	30 - 10	2.71	WATER	165

All interpretations are obtained based on information from electrical or other measurements and are correct and do not guarantee the accuracy or correction of any log interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost, damage or expense incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions at 101 001 1b, 101 001 1c, 101 001 1d, 101 001 1e, 101 001 1f, 101 001 1g, 101 001 1h, 101 001 1i, 101 001 1j, 101 001 1k, 101 001 1l, 101 001 1m, 101 001 1n, 101 001 1o, 101 001 1p, 101 001 1q, 101 001 1r, 101 001 1s, 101 001 1t, 101 001 1u, 101 001 1v, 101 001 1w, 101 001 1x, 101 001 1y, 101 001 1z.

CALIPER DIAM. IN INCHES

RUN 1

10 20 30

GAMMA RAY

0 100 200

CORRECTION

Use this scale when correction curve is presented in Track 2

0 +25 -25

OR

0 -25 +25

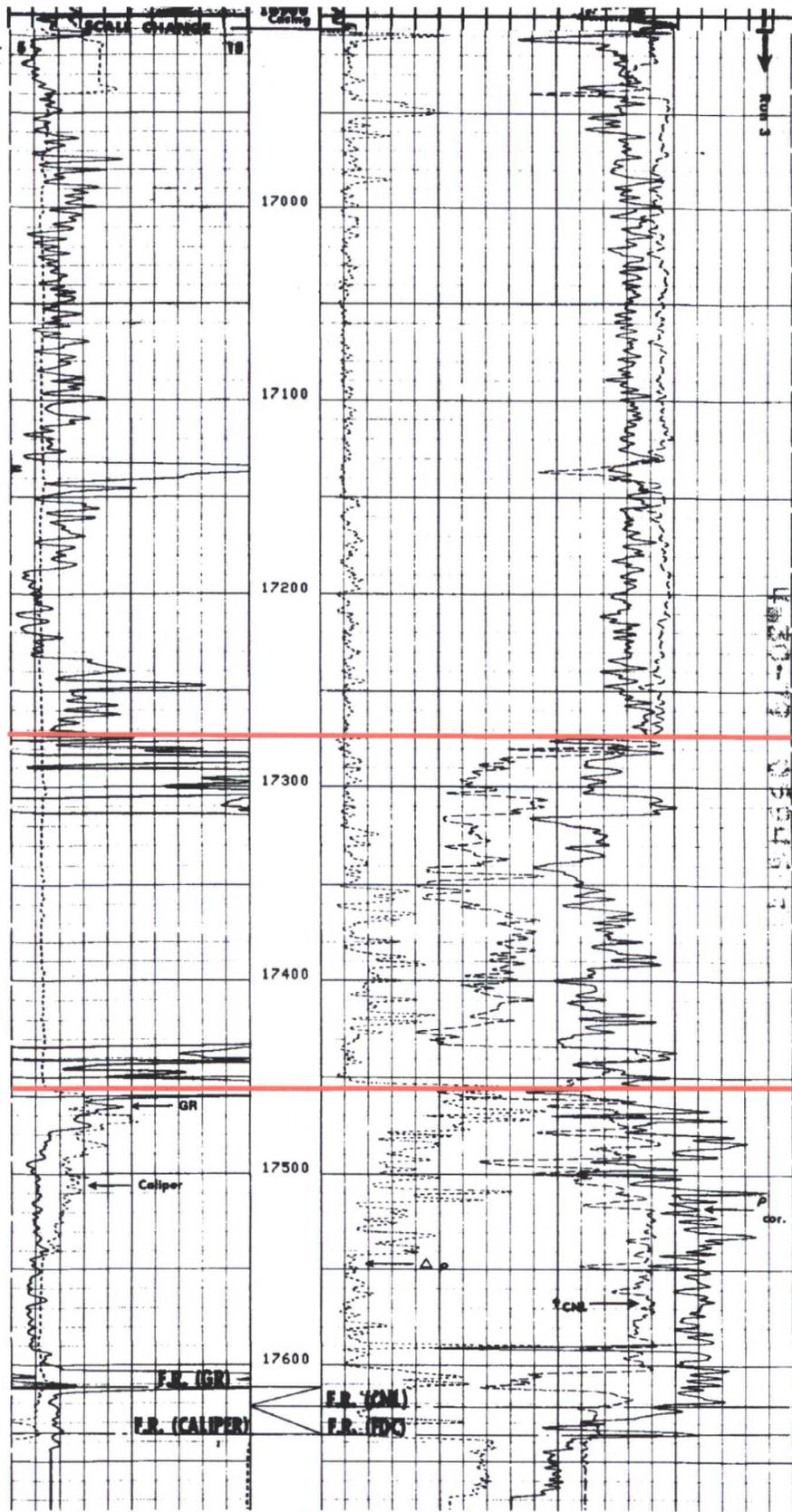
BULK DENSITY GRAMS/CC

2.0 2.5 3.0

1.0 1.5 2.0

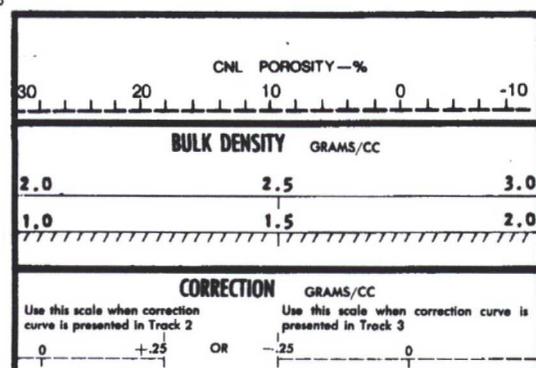
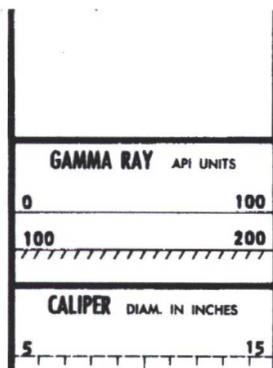
CNL POROSITY - %

30 20 10 0 -10



Top of Woodford Shale

Top of DEVONIAN



C-108 ITEM XI – WATER WELLS IN AOR

The NM Office of the State Engineer database indicates there are no fresh water wells within one mile of the proposed SWD.



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

No PODs found

PLSS Search

Section(s)	22 23 24 25	Township	24S	Range	32E
	26 27 34 35				
	36				

C-108 ITEM XI – WATER WELLS IN AOR

Depth to Groundwater

The NM Office of the State Engineer database indicates there are no fresh water wells within one mile of the proposed SWD. Depth to ground water in the area is shown to be 380 feet.



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 closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01932	C	ED		3	1	12	24S	32E		628633	3567188	492		
C 02350		ED		4	3	10	24S	32E		625826	3566333	60		
C 03527 POD1	C	LE		1	2	3	03	24S	32E	625770	3568487	500		
C 03528 POD1	C	LE		1	1	2	15	24S	32E	626040	3566129	541		
C 03530 POD1	C	LE		3	4	3	07	24S	32E	620886	3566156	550		
C 03555 POD1	C	LE		2	2	1	05	24S	32E	622709	3569231	600	380	220

Average Depth to Water 380 feet

Minimum Depth 380 feet

Maximum Depth 380 feet

Record Count: 6

PLSS Search:

Township: 24S 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

C-108 ITEM XII – GEOLOGIC AFFIRMATION

We have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and any underground sources of drinking water.



Ben Stone, Partner
SOS Consulting, LLC

Project: Owl SWD Operating, LLC
Gold Coast 26 Federal SWD No.3
Reviewed 5/31/2017

C-108 ITEM XIII – PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

Exhibits for Section

Leasehold Plat

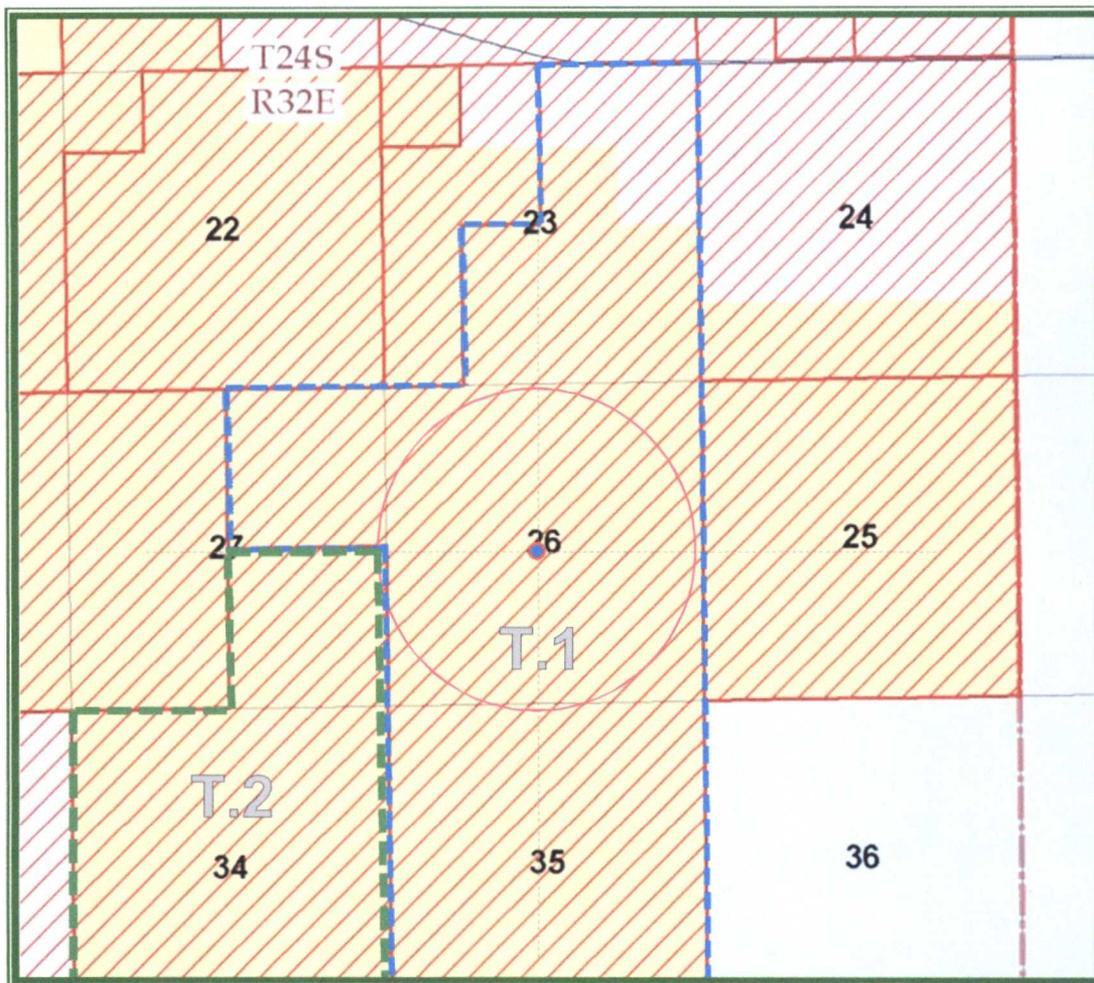
List of Interested Parties

Notification Letter to Interested Parties

Proof of Certified Mailing

Published Legal Notice

Gold Coast 26 Fed SWD Well No.3 - Leasehold Plat
(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



Owl SWD Operating, LLC

LEGEND

T.1 – NMNM-120907 – COG Operating, LLC

T.2 – NMNM-0061936 – Chevron USA, Devon Energy

**C-108 ITEM XIII – PROOF OF NOTIFICATION
INTERESTED PARTIES LIST**

SURFACE OWNER

- 1 U S. DEPARTMENT OF INTERIOR (Notified via USPS Certified Mail)
Bureau of Land Management
Oil & Gas Division
620 E Greene St.
Carlsbad, NM 88220

OFFSET MINERALS LESSEES and OPERATORS (All Notified via USPS Certified Mail)

BLM Leases NMNM-120907 (T.1 on plat.)

Lessee & Operator

- 2 COG OPERATING, LLC
Attn: Brian Collins
2208 W Main Street
Artesia, New Mexico 88210-3720

BLM Lease NMNM-0061936 (T.2 on plat.)

Lessee

- 3 CHEVRON USA, INC
6310 Deauville
Midland, TX 79706

BLM LeaseS NMNM-113964; NMNM-119276

Lessee

- 4 DEVON ENERGY PRODUCTION CO., LP
333 W Sheridan Avenue
OKC, OK 73102-5010

REGULATORY

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed original and copy)
1220 S St Francis Dr
Santa Fe, NM 87505

U.S. DEPARTMENT OF INTERIOR (FedEx'ed copy)
Bureau of Land Management
Oil & Gas Division
620 E Greene St.
Carlsbad, NM 88220



May 30, 2017

NOTIFICATION TO INTERESTED PARTIES

via U.S. Certified Mail

To Whom It May Concern

Owl SWD Operating, LLC, Dallas, TX, has made application to the New Mexico Oil Conservation Division to drill and complete for salt water disposal the Gold Coast 26 Federal Well No 3. The proposed commercial operation will be for produced water disposal from area operators. As indicated in the notice below, the well is located in Section 26, Township 24 South, Range 32 East in Lea County, New Mexico.

Disposal will be into the Devonian, Silurian and Ordovician formations through openhole from approximately 17,050 feet to 19,000 feet at a maximum surface pressure of 3410 psi.

Following is the notice published in the Hobbs News-Sun, Hobbs, New Mexico on or about June 1, 2017.

LEGAL NOTICE

Owl SWD Operating, LLC, 8214 Westchester Dr., Ste 850, Dallas, TX 75255 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Gold Coast 26 Federal SWD No 3, is located 2560' FSL and 2560' FWL, Section 26, Township 24 South, Range 32 East, Lea County, New Mexico. Produced water from area production (Delaware, Bone Spring and Wolfcamp formations) will be commercially disposed into the Devonian, Silurian and Ordovician formations at a depth of 17,050' to 19,000' at a maximum surface pressure of 3410 psi and a rate limited only by such pressure. The proposed SWD well is located approximately 27 miles west/northwest of Jalisco.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us

You have been identified as a party who may be interested as an offset operator or lessee.

You are entitled to a full copy of the application. A full copy in PDF format on a mini-CD will be arriving within a few days of this notice. If you do not receive it, please call or email SOS Consulting, LLC at 903-488-9850, info@sosconsulting.us, and a copy will be expedited to you and may also be sent via email if preferred.

Thank you for your attention in this matter.

Best regards,

A handwritten signature in black ink, appearing to read "Ben Stone". The signature is fluid and cursive, with the first name "Ben" and last name "Stone" clearly distinguishable.

Ben Stone, SOS Consulting, LLC
Agent for Owl SWD Operating, LLC

Cc Application File

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

7015 3010 0001 3789 9569

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$

Total Postage and Fees \$ 6.59

Sent To

Street and **Bureau of Land Management**

City, State, Zip **Carlsbad Field Office - O&G Division**
620 E Greene St
Carlsbad, NM 88220

PS Form 3800

Postmark Here
MAY 31 2017
USPS

7015 0640 0007 9482 6650

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OFFICIAL USE

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$

Total Postage and Fees \$ 6.59

Sent To

Street and **COG OPERATING, LLC**

City, State, Zip **Attn Brian Collins**
2208 W Main Street
Artesia, New Mexico 88210-3720

PS Form 3800

Postmark Here
MAY 31 2017
USPS

7015 3010 0001 3789 9576

U.S. Postal Service™
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Domestic Mail Only

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OFFICIAL USE

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input checked="" type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$

Total Postage and Fees \$ 6.59

Sent To

Street and Ap **CHEVRON USA, INC**

City, State, Zip **6310 Deauville**
Midland, TX 79706

PS Form 3800

Postmark Here
MAY 31 2017
USPS

7015 0640 0007 9482 6667

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com®

OFFICIAL USE

Certified Mail Fee \$

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$
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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$

Total Postage and Fees \$ 6.59

Sent To

Street and **DEVON ENERGY PRODUCTION**

City, State, Zip **COMPANY, LP**
333 W Sheridan Ave
OKC, OK 73102

PS Form 3800

Postmark Here
MAY 31 2017
USPS

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 mailpiece, or on the front if space permits.

Article Addressed to:

DEVON ENERGY PRODUCTION COMPANY, LP
333 W. Sheridan Ave
OKC, OK 73102

9590 9403 0195 5120 3854 51

Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature
David Carrillo Agent Addressee
B. Received by (Printed Name)
C. Date of Delivery

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


3. Service Type
 Adult Signature Priority Mail Express®
 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Return Receipt

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 mailpiece, or on the front if space permits.

1. Article Addressed to:

COG OPERATING, LLC
Attn: Brian Collins
2208 W. Main Street
Artesia, New Mexico 88210-3720

9590 9403 0195 5120 3854 68
2. Article Number (Transfer from service label)
7015 0640 0007 9482 6650

PS Form 3811, April 2015 PSN 7530-02-000-8053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
Genesis Vasquez Agent Addressee
B. Received by (Printed Name)
C. Date of Delivery

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

3. Service Type
 Adult Signature Priority Mail Express®
 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Domestic Return Receipt

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 mailpiece, or on the front if space permits.

Article Addressed to:

Bureau of Land Management
Carlsbad Field Office - O&G Division
620 E. Greene St.
Carlsbad, NM 88220

9590 9403 0195 5120 3854 44

Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

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David Carrillo Agent Addressee
B. Received by (Printed Name)
C. Date of Delivery

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If YES, enter delivery address below: No

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 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Return Receipt

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CHEVRON USA, INC.
6310 Deauville
Midland, TX 79706

9590 9403 0195 5120 3854 37
2. Article Number (Transfer from service label)
7015 3010 0001 3789 9576

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Domestic Return Receipt

Form 3811, April 2015 PSN 7530-02-000-8053

C-108 - Item XIV

**Proof of Notice – Legal Notice
Newspaper of General Circulation**

LEGAL NOTICE June 1, 2017

Owl SWD Operating, LLC, 8214 Westchester Dr, Ste 850, Dallas, TX 75255 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Gold Coast 26 Federal SWD No 3, is located 2560' FSL and 2560' FWL, Section 26, Township 24 South, Range 32 East, Lea County, New Mexico. Produced water from area production (Delaware, Bone Spring and Wolfcamp formations) will be commercially disposed into the Devonian, Silurian and Ordovician formations at a depth of 17,050' to 19,000' at a maximum surface pressure of 3410 psi and a rate limited only by such pressure. The proposed SWD well is located approximately 27 miles west/northwest of Jal

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St Francis Dr, Santa Fe, NM 87505, (505) 476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903) 488-9850 or, email info@sosconsulting.us #31809

The above is the "Proof Copy" sent from the Hobbs News-Sun.
The affidavit of publication will be forwarded as soon as it is received.

Affidavit of Publication

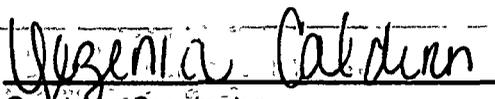
STATE OF NEW MEXICO
COUNTY OF LEA

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)

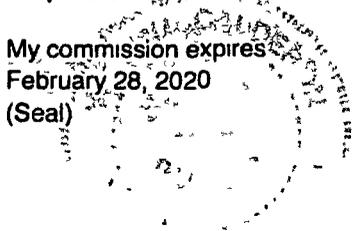
Beginning with the issue dated
June 01, 2017
and ending with the issue dated
June 01, 2017


Publisher

Sworn and subscribed to before me this
1st day of June 2017


Circulation Coordinator

My commission expires
February 28, 2020
(Seal)



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE
June 1, 2017

Owl SWD Operating, LLC,
8214 Westchester Dr,
Ste. 850, Dallas, TX 75255 is
filing Form C-108
(Application for Authority to
Inject) with the New Mexico
Oil Conservation Division
seeking administrative
approval for a salt water
disposal well. The proposed
well, the Gold Coast 26
Federal SWD No 3, is
located 2560' FSL and 2560'
FWL, Section 26, Township
24 South, Range 32 East,
Lea County, New Mexico.
Produced water from area
production (Delaware, Bone
Spring and Wolfcamp
formations) will be
commercially disposed into
the Devonian, Silurian and
Ordovician formations at a
depth of 17,050' to 19,000'
at a maximum surface
pressure of 3410 psi and a
rate limited only by such
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SWD well is located
approximately 27 miles
west/northwest of Jal

Interested parties wishing to
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application must file with the
New Mexico Oil
Conservation Division, 1220
St. Francis Dr., Santa Fe,
NM 87505, (505)478-3460
within 15 days of the date of
this notice. Additional
information may be obtained
from the applicant's agent,
SOS Consulting, LLC,
(903)488-9850 or, email
info@sosconsulting.us
#31809

67104420

00194276

BEN STONE
SOS CONSULTING, LLC
P O BOX 300
COMO, TX 75431



C-108 Review Checklist: Received _____ Add Request _____ Reply Date _____ Suspended _____ [Ver 15]

6-6-2017

ORDER TYPE WFX / PMX / (SWD) Number _____ Order Date _____ Legacy Permits/Orders _____

Well No #3 Well Name(s) Gold Coast 26

API 30-0 25-Pending Spud Date TBD New or Old N (UIC Class II Primacy 03/07/1982)

Footages 2650 FS ~ 2650 FWL Lot _____ or Unit K Sec 26 Tsp 24S Rge 32E County LEC

General Location 23 miles NW JAL Pool SWD Pool No 17845

BLM 100K Map JAL Operator Owls SWD operations, LLC OGRID 308301 Contact Ben Stone Agent

COMPLIANCE RULE 59 Total Wells 14 Inactive 0 Fincl Assur OK Compl Order? NA IS 59 OK? Y Date 6-26-2017

WELL FILE REVIEWED Current Status Proposed

WELL DIAGRAMS NEW Proposed or RE-ENTER Before Conv After Conv Logs in Imaging N/A

Planned Rehab Work to Well _____

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement (S) or Cf	Cement Top and Determination Method
Planned ___ or Existing ___	<u>Surface</u>	<u>26/20</u>	<u>750</u>	<u>1400</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___	<u>Interm/Prod</u>	<u>17 1/2 / 13 3/8</u>	<u>4900</u>	<u>2500</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___	<u>Interm/Prod</u>	<u>12 1/4 / 9 5/8</u>	<u>1200</u>	<u>520</u>	<u>SURFACE / VISUAL</u>
Planned ___ or Existing ___	<u>Prod/Liner</u>	<u>8 1/2 / 7 1/8</u>	<u>17050</u>	<u>300</u>	<u>12000 / CBL*</u>
Planned ___ or Existing ___	<u>Liner</u>				
Planned ___ or Existing ___	<u>OH / PERF</u>	<u>17050 - 1900</u>			

Injection Lithostratigraphic Units	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details	
Adjacent Unit Litho Struc Por		<u>DU</u>	<u>17000</u>	Drilled TD <u>19000</u>	PBTD _____
Confining Unit Litho Struc Por		<u>WD</u>	<u>16870</u>	NEW TD _____	NEW PBTD _____
Proposed Inj Interval TOP				NEW Open Hole <input checked="" type="radio"/>	NEW Perfs <input type="radio"/>
Proposed Inj Interval BOTTOM				Tubing Size <u>4 1/2</u> in	Inter Coated? _____
Confining Unit Litho Struc Por				Proposed Packer Depth <u>9645</u> ft	
Adjacent Unit Litho Struc Por				Min Packer Depth _____	(100-ft limit)
				Proposed Max Surface Press <u>3410</u> psi	
				Admin Inj Press <u>3410</u>	(0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH R-111-P NA Noticed? _____ BLM Sec Ord WIPP Noticed? _____ Salt/Salado T _____ B _____ NW Cliff House fm _____

FRESH WATER Aquifer MA Max Depth MA HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin Carlsbad CAPITAN REEF thru adj. (NA) No Wells within 1-Mile Radius? _____ FW Analysis _____

Disposal Fluid Formation Source(s) Delaware Bone Spring Analysis? _____ On Lease Operator Only or Commercial

Disposal Int Inject Rate (Avg/Max BWPD) 156/236 Protectable Waters? MA Source _____ System Closed or Open _____

HC Potential: Producing Interval? MA Formerly Producing? _____ Method Logs/DST/P&A/Other AC 100 - 2-Mile Radius Pool Map

AOR Wells 1/2-M Radius Map? Well List? _____ Total No Wells Penetrating Interval _____ Horizontals? _____

Penetrating Wells No Active Wells Num Repairs? _____ on which well(s)? _____ Diagrams? _____

Penetrating Wells No P&A Wells _____ Num Repairs? _____ on which well(s)? _____ Diagrams? _____

NOTICE: Newspaper Date June 2, 2017 Mineral Owner BLM Surface Owner BLM N Date 6-6-2017

RULE 26 7(A) Identified Tracts? Affected Persons COG, Chevron N Date 6-2-2017

Order Conditions: Issues run C-13-L from base liner to 100' above the