

Initial Application Part I

Received 12/24/18

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

RECEIVED: <u>12/24/2018</u>	REVIEWER: <u>SWS</u>	TYPE: <u>SWS</u>	APP NO: <u>PMAA18360 37670</u>
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & 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

Applicant: <u>Probita SWD, LLC</u>	OGRID Number: <u>296278</u>
Well Name: <u>McDonald South SWD No.1</u>	API: <u>30-015-xxxxx</u>
Pool: <u>Proposed: SWD; Devonian-Silurian</u>	Pool Code: <u>97869</u>

SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location – Spacing Unit – Simultaneous Dedication

☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]

[I] Commingling – Storage – Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

2) NOTIFICATION REQUIRED TO: Check those which apply.

- A. ☒ Offset operators or lease holders
 B. ☐ Royalty, overriding royalty owners, revenue owners
 C. ☒ Application requires published notice
 D. ☒ Notification and/or concurrent approval by SLO
 E. ☒ Notification and/or concurrent approval by BLM
 F. ☒ Surface owner
 G. ☒ For all of the above, proof of notification or publication is attached, and/or,
 H. ☐ No notice required

FOR OCD ONLY

☐ Notice Complete
☐ Application Content Complete

- 3) 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

Signature

12/20/2018

Date

903-488-9850

Phone Number

ben@sosconsulting.us

e-mail Address



December 20, 2018

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

Attn: Ms. Heather Riley, Director

Re: Application of Probity SWD, LLC to permit for salt water disposal the McDonald South SWD Well No.1, to be located in Section 7, Township 26 South, Range 29 East, NMPM, Eddy County, New Mexico.

Dear Ms. Riley,

Please find the enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request for salt water disposal. The well will be operated as a commercial endeavor offering operators in the area additional options for produced water disposal.

Probity SWD seeks to optimize efficiency, both economically and operationally, of its operations in south-east New Mexico. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

I would point out that this application for a proposed Devonian SWD interval includes the currently mandated increased One-Mile Area of Review including pertinent and available seismic information for the area and region. Published legal notice ran today, December 20, 2018 in the Artesia Daily Press and all offset operators and other interested parties have been notified individually. The legal notice affidavit is included herein. This application also includes a wellbore schematic, area of review maps, affected party plat and other required information for a complete Form C-108. The well is located on private land and minerals. There are state and federal lands & minerals and private minerals within the one-mile radius notice area and the State Land Office and offset operators have been notified of this application.

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 Probity SWD, 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: *Probitry SWD, LLC*
ADDRESS: *P.O. Box 7307, Midland, TX 79708*
- 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-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 which Penetrate the proposed Devonian interval.* 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 penetrate.*
- 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 6 water wells/ PODs within one mile of the proposed salt water disposal well. Representative analyses are ATTACHED.*
- 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 8 offset lessees and/or mineral owners within 1 mile and state, federal & private minerals - all have been noticed. Well location is Private.*
- 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 Probitry SWD, LLC*

SIGNATURE:  DATE: *12/20/2018*

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:

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.

C-108 - Items III, IV, V

Item III - Subject Well Data

Wellbore Diagram - PROPOSED

Item IV – Tabulation of AOR Wells

NO wells penetrate the proposed injection interval.

Item V – Area of Review Maps

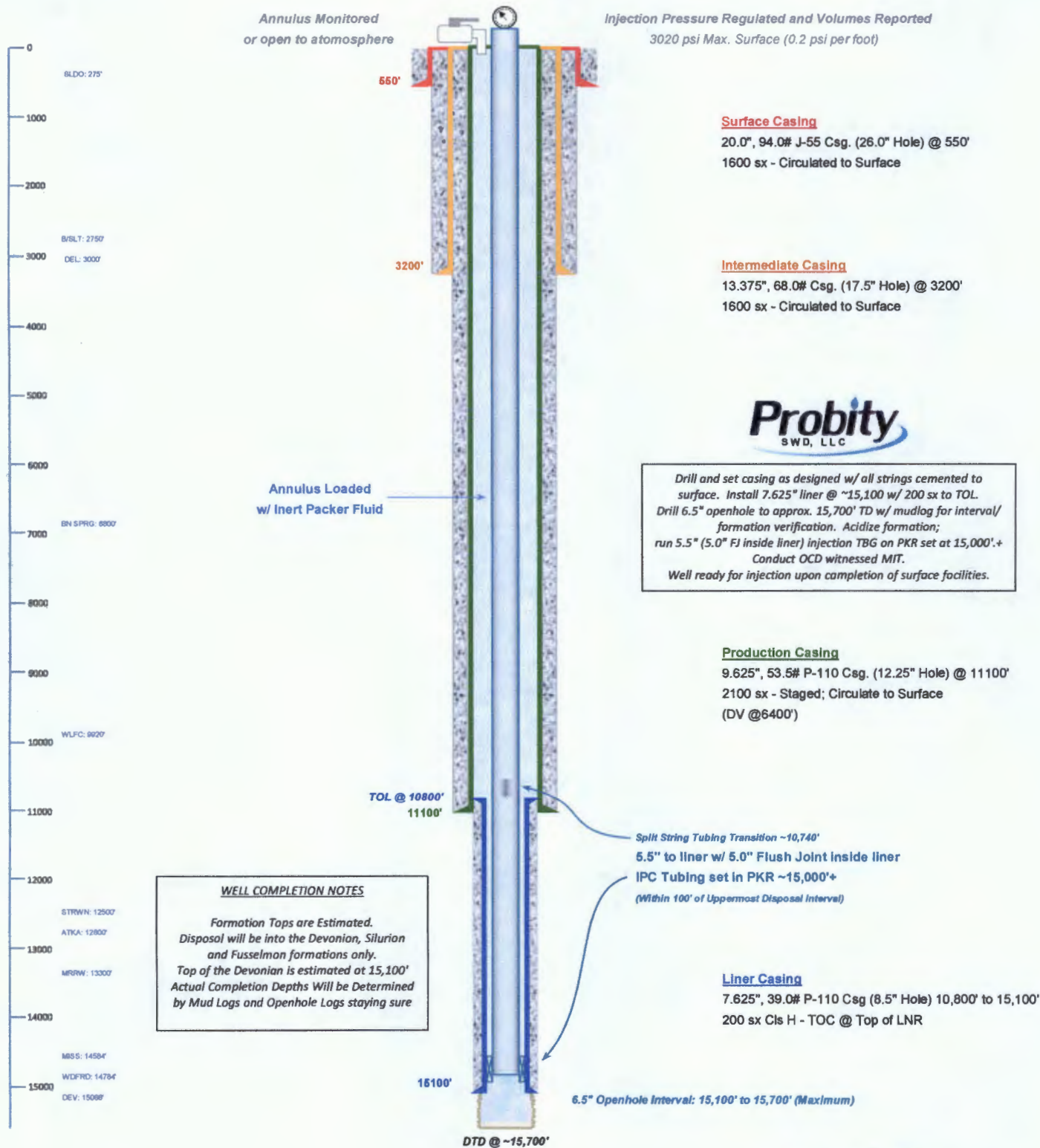
1. Two Mile AOR Map with One-Mile Fresh Water Well Radius
2. One-Half Mile AOR Map

All Above Exhibits follow this page.

WELL SCHEMATIC - PROPOSED McDonald South SWD Well No.1

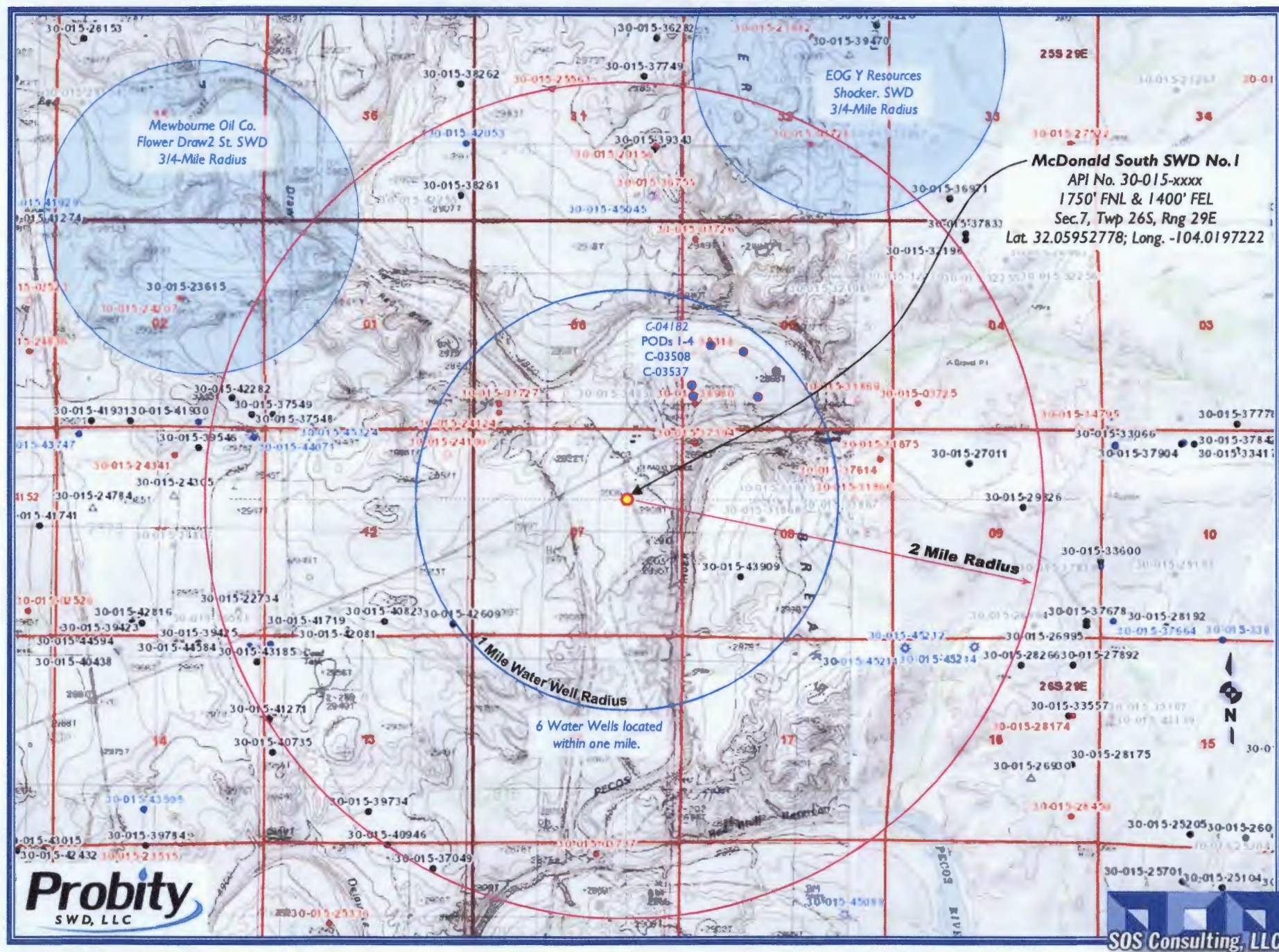
API 30-015-xxxxx
1750' FNL & 1400' FEL, SEC. 7-T26S-R29E
EDDY COUNTY, NEW MEXICO

Proposed: SWD; Devonian-Silurian-Fusselman
Spud Date: 4/01/2019
SWD Config Dt: 5/15/2019



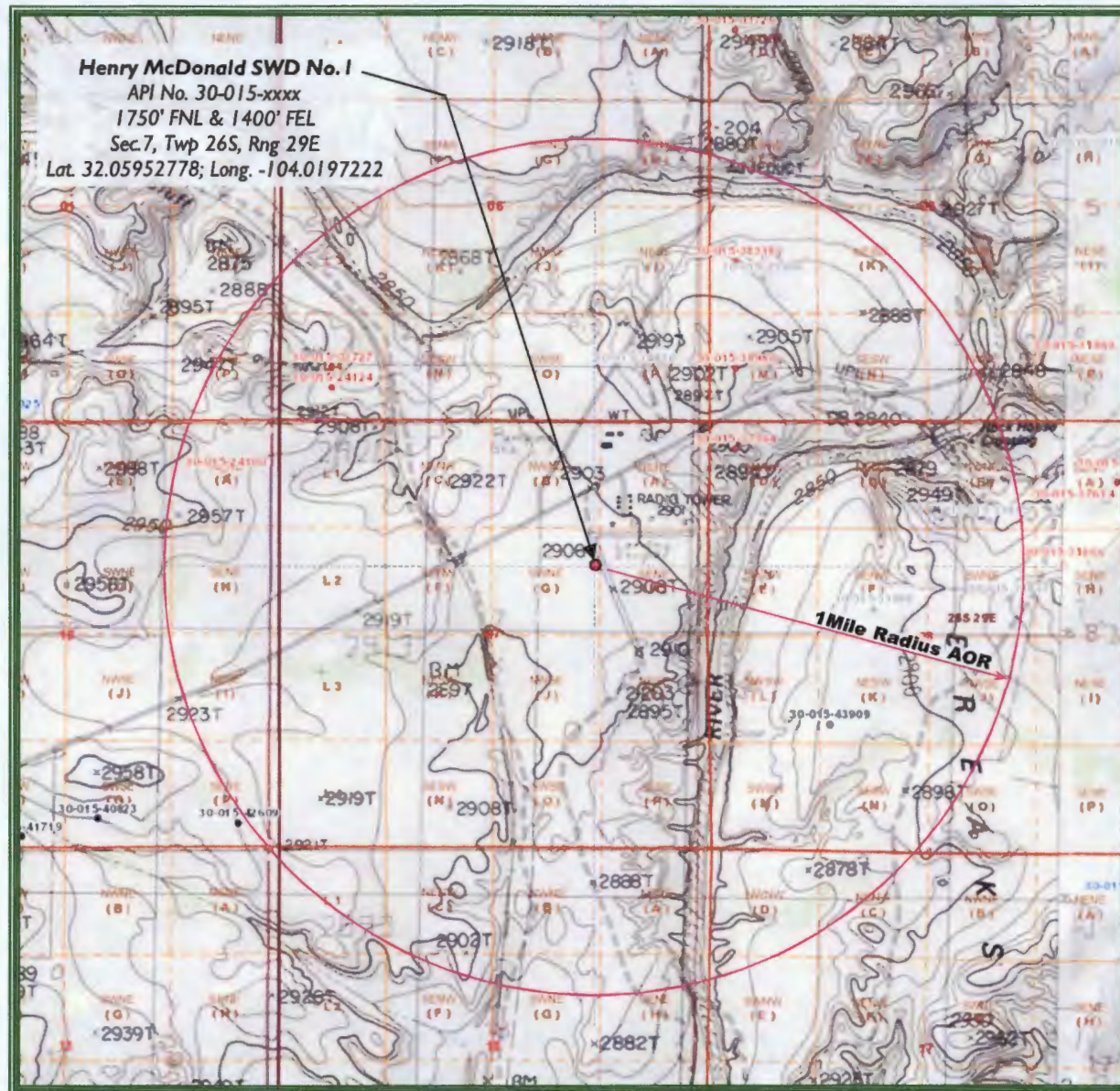
Drill and set casing as designed w/ all strings cemented to surface. Install 7.625" liner @ ~15,100 w/ 200 sx to TOL. Drill 6.5" openhole to approx. 15,700' TD w/ mudlog for interval/formation verification. Acidize formation; run 5.5" (5.0" FJ inside liner) injection TBG on PKR set at 15,000'+ Conduct OCD witnessed MIT. Well ready for injection upon completion of surface facilities.

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



Henry McDonald SWD Well No.1 – One Mile Area of Review / Overview Map

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



11.7 miles S/SE of Malaga, NM



Eddy County, New Mexico

Probitly
SWD, LLC

SOS Consulting, LLC

C-108 ITEM X

LOGS and AVAILABLE TEST DATA

Some Cross-Sections of Wells in the Area are included in the Geological Information Section of this application.

A Standard Suite of Logs will be run after drilling the well and submitted to the Division.

C-108 ITEM VII – PROPOSED OPERATION

McDonald South SWD No.1

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.

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 17,500 bpd at a maximum surface injection pressure of 3020 psi (.2 psi/ft gradient – maximum pressure will be adjusted if the top of interval is modified after well logs are run).

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 and OCD form C-141 will be submitted promptly.

C-108 ITEM VII – PRODUCED WATER ANALYSES

Item VII.4 – Water Analysis of Source Zone Water

Glorieta/ Yeso
Bone Spring
Wolfcamp

Item VII.5 – Water Analysis of Disposal Zone Water

Devonian

Water Analyses follow this page.

C-108 Item VII.5 - Produced Water Data
Probity SWD, LLC - McDonald South SWD Project

SOURCE ZONE

GLO/YESO

API No	3001524754	Lab ID	
Well Name	PLATT PA 009	Sample ID	1146
		Sample No	
Location	ULSTR 26 18 S 26 E	Lat / Long	32,71216 -104,35742
	330 S 990 W	County	Eddy
Operator (when sampled)	Yates Petroleum Corp.		
	Field	ATOKA	Unit M
Sample Date	8/4/1984	Analysis Date	
	Sample Source Wellhead	Depth (if known)	
	Water Typ	Produced Water	
ph	7.5	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	1800
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	120382	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	113000	conductivity_temp_F	
sodium_mgL	71415	carbonate_mgL	0
calcium_mgL	2560	bicarbonate_mgL	476
iron_mgL	0	sulfate_mgL	2001
barium_mgL		hydroxide_mgL	
magnesium_mgL	0	h2s_mgL	0
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 Item VII.5 - Produced Water Data
Probity SWD, LLC - McDonald South SWD Project

SOURCE ZONE

GLO/YESO

API No	3001524619	Lab ID	
Well Name	PLATT PA 008	Sample ID	1207
		Sample No	
Location	ULSTR 26 18 S 26 E 430 S 2260 W	Lat / Long	32.71245 -104.35329
		County	Eddy
Operator (when sampled)	Yates Petroleum Corporation		
	Field ATOKA	Unit	N
Sample Date	1/19/1985	Analysis Date	
	Sample Source well head	Depth (if known)	
	Water Typ Produced Water		
ph	6	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	11500
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	136324	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	121000	conductivity_temp_F	
sodium_mgL	61571	carbonate_mgL	
calcium_mgL	4160	bicarbonate_mgL	104
iron_mgL	0	sulfate_mgL	3720
barium_mgL		hydroxide_mgL	
magnesium_mgL	7340	h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 Item VII.5 - Produced Water Data
Probity SWD, LLC - McDonald South SWD Project

SOURCE ZONE

BONE SPRING

API No	3001520225	Lab ID	
Well Name	BIG EDDY UNIT	Sample ID	5847
	012	Sample No	
Location	ULSTR 21 20 S 31 E	Lat / Long	32,56399 -103,87994
	660 N 660 W	County	Eddy
Operator (when sampled)	MALLON OIL COMPANY		
	Field	BIG EDDY	Unit D
Sample Date	8/27/1999	Analysis Date	8/31/1999
	Sample Source	Depth (if known)	
	Water Typ		
ph	5.2	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity	1.125	hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	181697	resistivity_ohm_cm_temp	
tds_mgL_180C		conductivity	
chloride_mgL	123750	conductivity_temp_F	
sodium_mgL	73895.6	carbonate_mgL	
calcium_mgL	5625	bicarbonate_mgL	13.725
iron_mgL	337.5	sulfate_mgL	787.5
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	0
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 Item VII.5 - Produced Water Data
Probity SWD, LLC - McDonald South SWD Project

SOURCE ZONE

WOLFCAMP

API No	3001520138	Lab ID	
Well Name	MAHUN STATE 001	Sample ID	5688
		Sample No	
Location	ULSTR 16 22 S 22 E	Lat / Long	32.39340 -104.70979
	1800 N 1980 W	County	Eddy
Operator (when sampled)			
	Field ROCKY ARROYO	Unit	F
Sample Date	5/17/1968	Analysis Date	
	Sample Source DST	Depth (if known)	
	Water Type		
ph	8.6	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	35495	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	19000	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	830
iron_mgL		sulfate_mgL	2500
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 Item VII.5 - Produced Water Data
Probity SWD, LLC - McDonald South SWD Project

DISPOSAL ZONE

DEVONIAN

API No.	3001510280	Lab ID	
Well Name	JURNEGAN POINT 001	Sample ID	6170
		Sample No	
Location	ULSTR 05 24 S 25 E	Lat / Long	32.24037 -104.42375
	660 S 660 W	County	Eddy
Operator (when sampled)			
	Field WILDCAT	Unit	M
Sample Date	12/14/1964	Analysis Date	
	Sample Source DST	Depth (if known)	
	Water Type		
ph	7	alkalinity_as_caco3_mgL	
ph_temp_F		hardness_as_caco3_mgL	
specificgravity		hardness_mgL	
specificgravity_temp_F		resistivity_ohm_cm	
tds_mgL	229706	resistivity_ohm_cm_temp_	
tds_mgL_180C		conductivity	
chloride_mgL	136964	conductivity_temp_F	
sodium_mgL		carbonate_mgL	
calcium_mgL		bicarbonate_mgL	198
iron_mgL		sulfate_mgL	2511
barium_mgL		hydroxide_mgL	
magnesium_mgL		h2s_mgL	
potassium_mgL		co2_mgL	
strontium_mgL		o2_mgL	
manganese_mgL		anionremarks	

Remarks

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 - Item VIII

Geological Data

Geological Evaluation of a Devonian Salt Water Disposal site for Probitry SWD, LLC

Introduction

The location of the proposed injection site is Section 7-26S-29E in Eddy County New Mexico. Approximately 28 nearby Silurian/Devonian deep SWD wells were used for this evaluation. These wells are all within an approximate **radius of 20 miles** from the proposed section that the well be drilled.

Geological Setting

During most of the Paleozoic Era, sandstone, limestone, and carbonaceous shales were deposited in sedimentary basins throughout much of Texas and Southern New Mexico. These basins received sediments until the latter part of the Pennsylvanian era, when the Llano Uplift and the Ouachita Fold Belt caused regional tilting of the land surface to the west and east off the flanks of the uplifted zones.

The Silurian/Devonian section overlays the Montoya Group, which comprises a moderately thick (100 to 600 ft) Upper Ordovician carbonate ramp succession present in both outcrop and the subsurface of West Texas and southeastern New Mexico.

The Montoya Group was largely deposited on the Middle-Upper Ordovician Simpson Group but locally overlies on the Lower Ordovician Ellenburger or equivalent. The Sylvan Shale, where present, and the Fusselman Formation generally overlie the Montoya.

Available information shows that the upper Fusselman in the Midland Basin was deposited in a spectrum of shallow-water, high-energy open marine environments. The top of the upper Fusselman in a number of wells is characterized by diagenetic textures indicative of karstification and soil formation, both of which suggest a prolonged period of subaerial erosion prior to deposition of the overlying Wristen Formation.

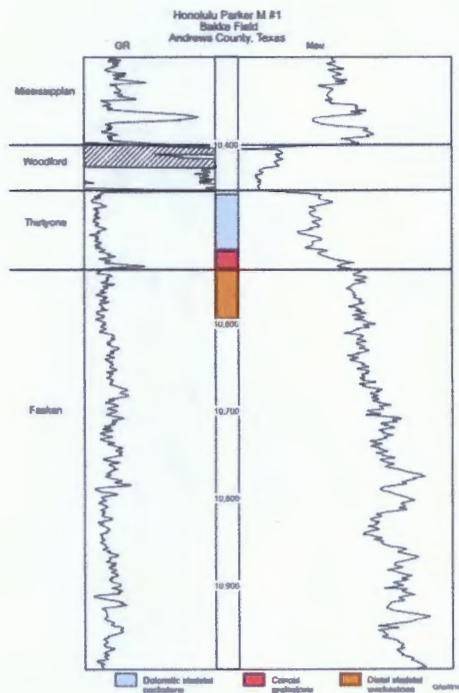
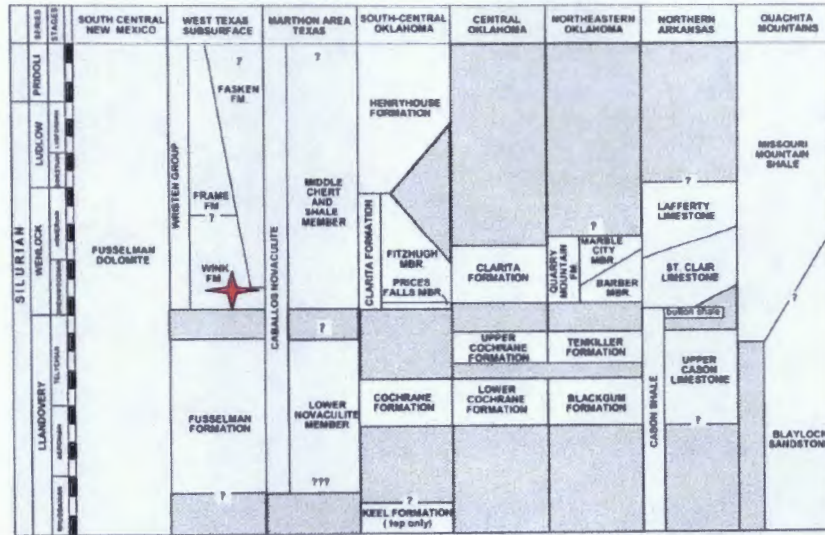
The Fusselman Formation comprises a complex series of carbonate facies, including light-colored ooid grainstones, green glauconitic and pink pelmatozoan grainstones and packstones, and sparse skeletal wackestones with minor shaly intercalations. Geesaman and Scott (1989) and Garfield and Longman (1989) divided the Fusselman into two informal units in the subsurface of the central Midland Basin, a lower Fusselman and an upper Fusselman, each of which represents a separate depositional sequence.

The age of the subsurface Fusselman is poorly known due to a lack of fossil material from only limited core studies. The upper Fusselman is dominated by widespread thick, crinoidal grainstones, and lesser amounts of dolomitic wackestone to skeletal packstone. These three lithofacies are interbedded such that they reflect minor differences in paleotopographic setting and degree of relative subsidence during deposition.

C-108 - Item VIII

Geological Data (cont.)

In the area being proposed for this disposal well, the Devonian Woodford Shale overlays massive deposits of undifferentiated carbonates of Silurian/Devonian age, predominately Fusselman dolostones that are the primary deep disposal zone in this area of Southern New Mexico. Immediately beneath the Woodford the Thirtyone and Fasken formations develop porosity within skeletal packstones.



Typical type section for the area of interest.

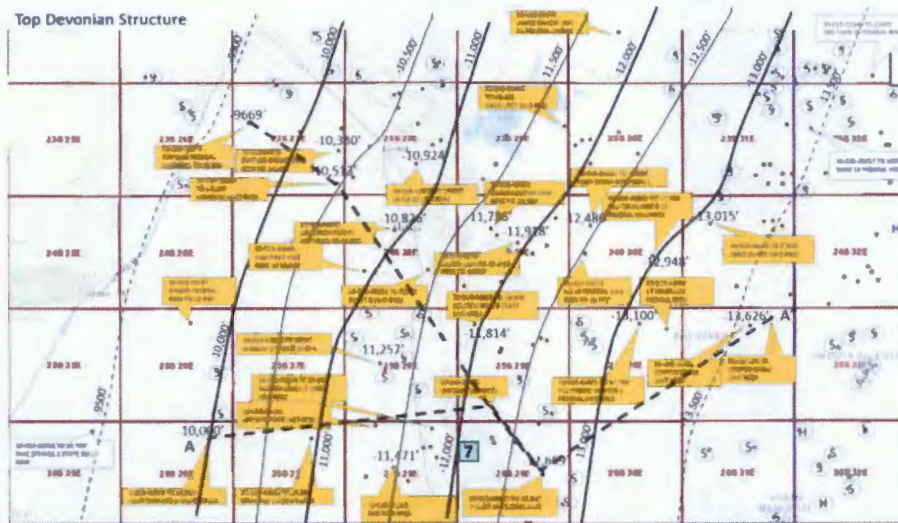
C-108 - Item VIII

Geological Data (cont.)

Detailed Analysis of the location

The subsurface structure of the Pre-Woodford carbonates displays a sequence of carbonates becoming shallower to the North-west. The depth of the top carbonate section beneath section 7-26S-29E is approximately 12,150 feet subsea or approximately 15,066' true vertical depth from surface. The average injection interval of all the wells is 1185'. Most of the wells reached total depth before penetrating the base of the carbonates, making an isopach map difficult to create.

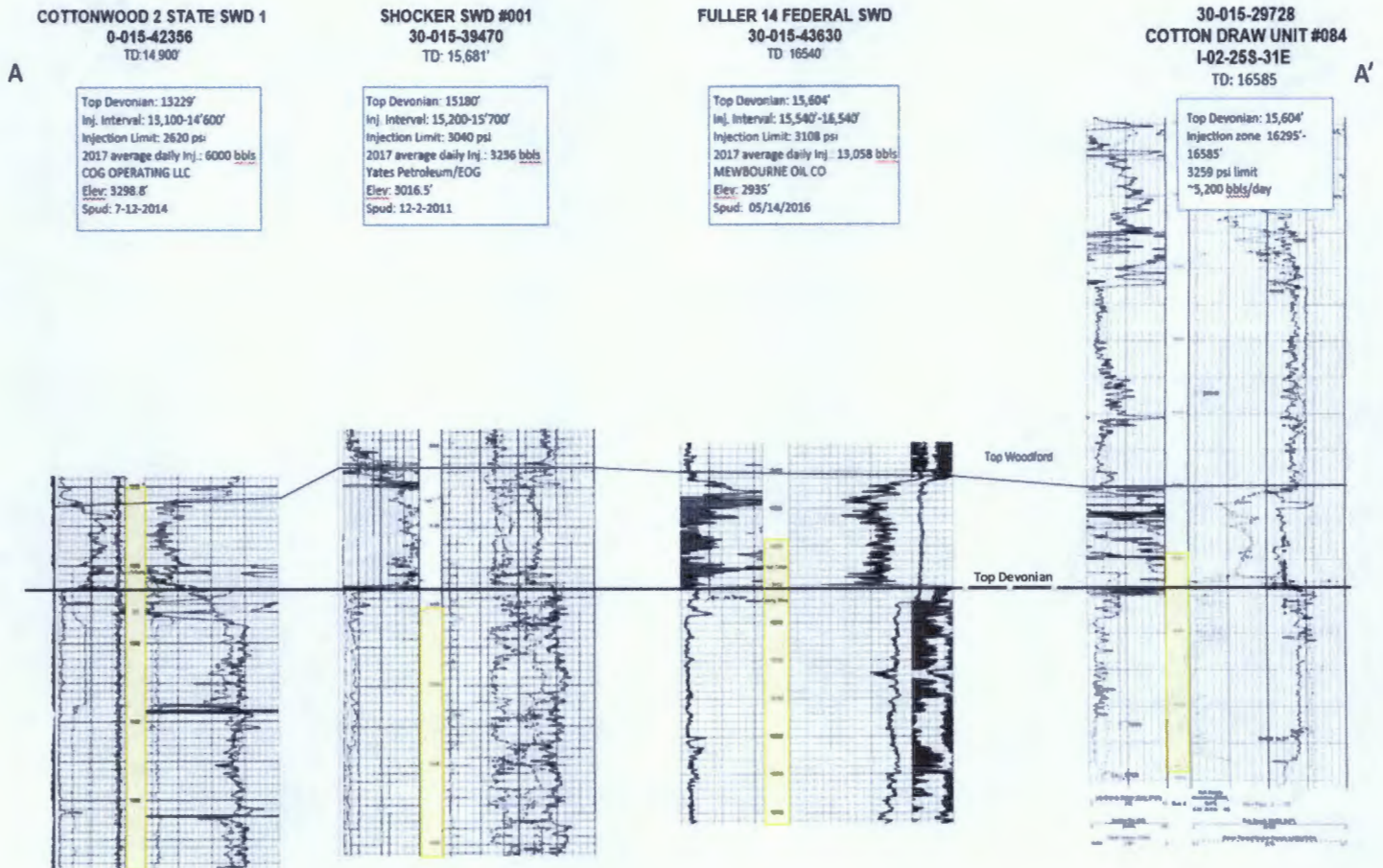
There are no deep Silurian or Devonian wells in the area that produce hydrocarbons.



C-108 - Item VIII

Geological Data (cont.)

East-West X-section



Prepared by: Howard McLaughlin – Geologist, April 2018

C-108 - Item VIII

Geological Data

DEVONIAN CONTOURS IN AREA

McDonald South SWD No.1



Proposed SWD is located 1750' FNL & 1400' FEL, 7-26S-29E. Elevation is 2916 feet. Contour map shows the well spot to lay approximately half way between the -12,100' and -12,200' (subsea) intervals. The measured depth to the top of the Devonian based on these figures would be 15,066 feet.

The Shocker SWD No.1, operated by EOG Y Resources, has the logged top of the Devonian at 15,173 feet and a PBTD of 15,610 feet.

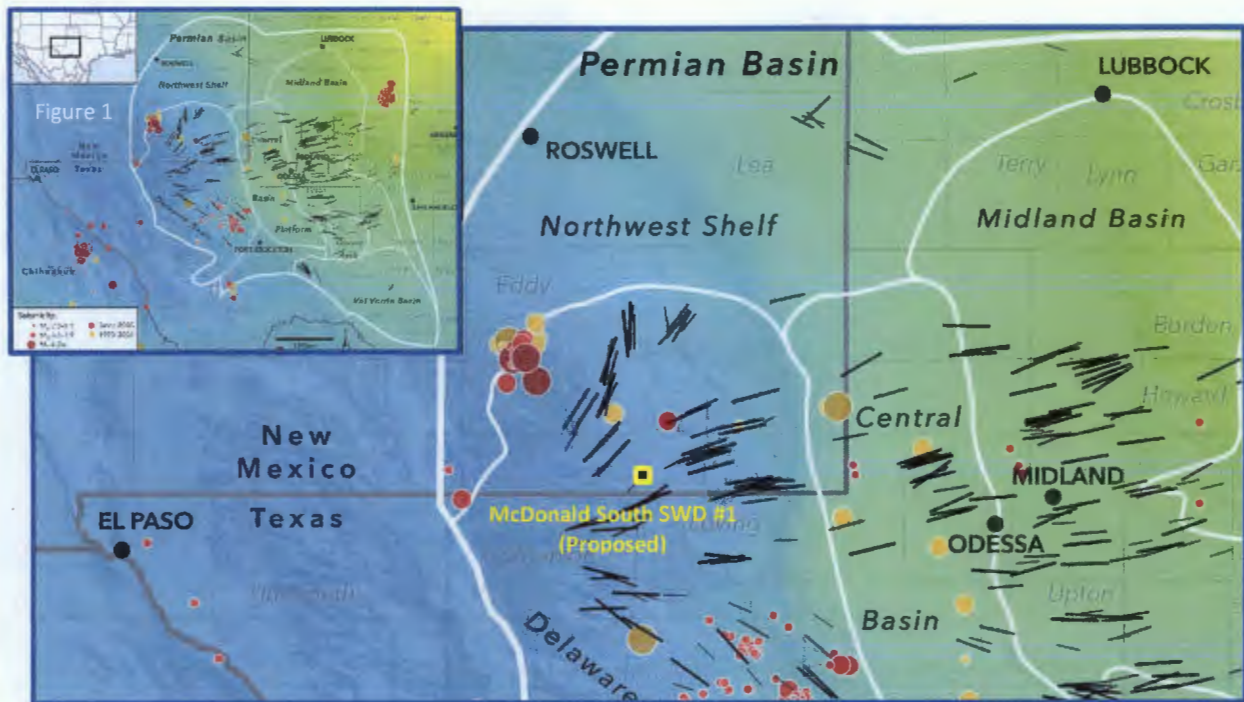
Based on these data, Probitry SWD proposes a target interval of 15,100 feet to 15,700 feet. Mudlogging and openhole logs will determine final interval and reported on form C-105. Permit will be amended if necessary.

C-108 - Item VIII

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT

Map Source: State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity (Figure 1); Jens-Erik Lund Sneek / Mark Zoback, February 2018



PROJECT VICINITY

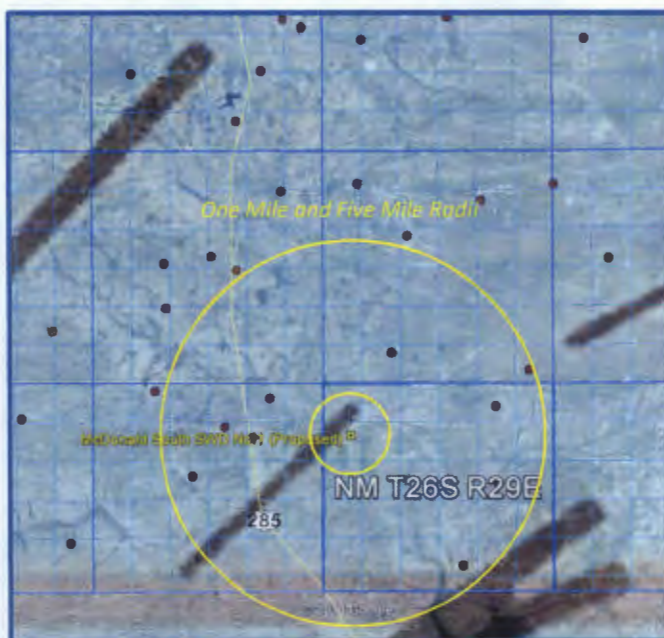


Figure 1. State of stress in the Permian Basin, Texas and New Mexico. Black lines are the measured orientations of the maximum horizontal stress (SHmax), with line length scaled by data quality. The colored background is an interpolation of measured relative principal stress magnitudes (faulting regime) expressed using the A_p parameter (see text for details) of Simpson (1997). Blue lines are fault traces known to have experienced normal-sense offset within the past 1.6 Ma, from the USGS Quaternary Faults and Folds Database (Crone and Wheeler, 2000). The boundary between the Shawnee and Mazatzal basement domains is from Lund et al. (2015), and the Precambrian Grenville Front is from Thomas (2006). The Permian Basin boundary is from the U.S. Energy Information Administration, and the subbasin boundaries are from the Texas Bureau of Economic Geology Permian Basin Geological Synthesis Project. Earthquakes are from the USGS National Earthquake Information Center, the TexNet Seismic Monitoring Program, and Gan and Frohlich (2013). Focal mechanisms are from Saint Louis University (Herrmann et al., 2011).

C-108 - Item VIII

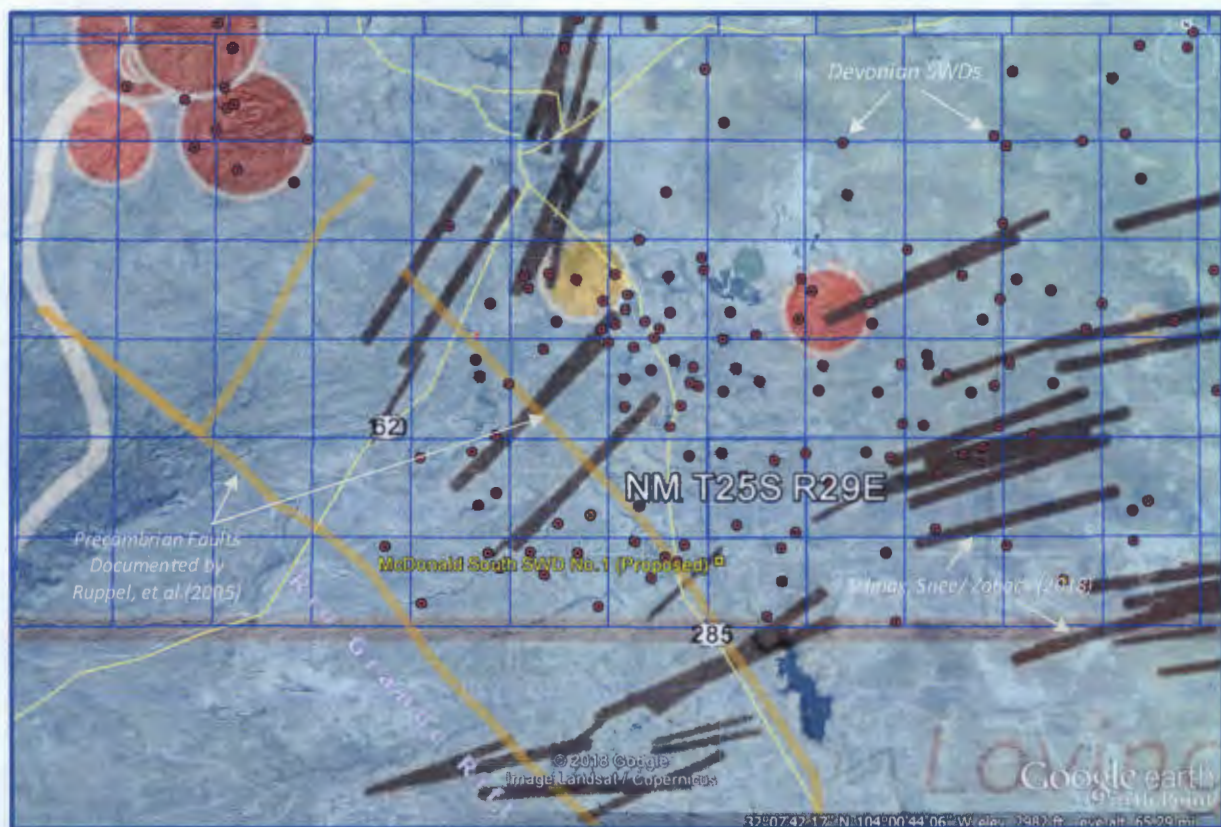
Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

In the following map, a layer with USGS historical earthquake data is overlaid and, a layer showing lines to represent Precambrian faults as documented by Ruppel, et al. (2005). Finally, a layer showing all currently permitted SWDs completed or proposed to be completed in the Devonian (Silurian) formation.

The USGS earthquakes shown are well know to the area. The cluster to the NW represents the seismic events in and around the Dagger Draw area (46.2 miles) in 2002. The 2012 quake located approximately 13 miles due east of Loving is also shown (16.1 miles). This was perhaps the most significant of the area in recent years but was determined to not be related to oil and gas activity.

The Precambrian faults and existing Devonian SWDs are discussed in more detail on the next page.



REGIONAL VIEW - DEVONIAN SWD LOCATIONS, PRECAMBRIAN FAULTS, S_{Hmax} , USGS MAGNITUDE

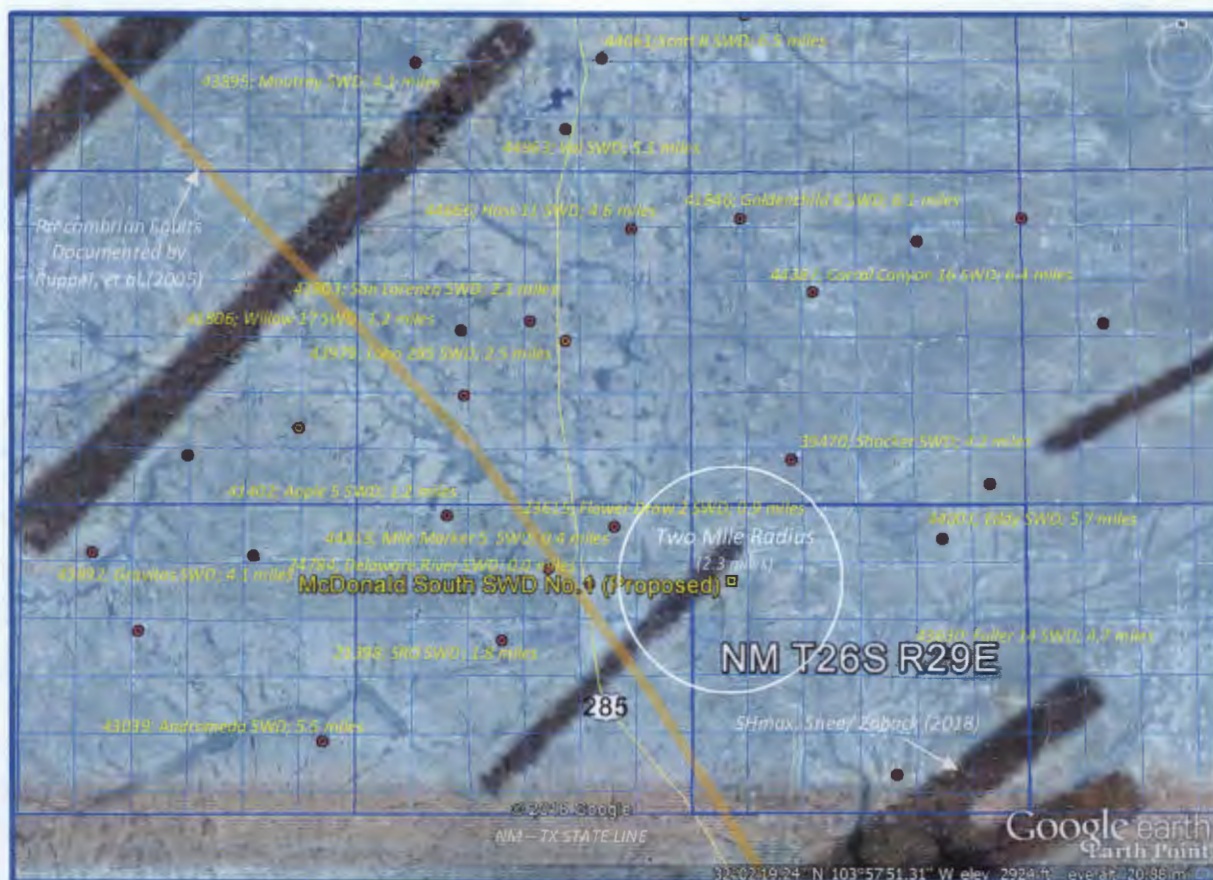
C-108 - Item VIII

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

The primary Precambrian fault in the area as documented by Ruppel, et al. (2005) is represented on this map by the tan colored line; the fault is running southeast to northwest. The proposed McDonald South SWD is located 2.3 miles from the fault. Other Devonian SWDs in the area are also shown by small purple dots. (5-digit API well no., well name and distance for each is shown.) completed or proposed to be completed in the Devonian (Silurian) formation.

The previously referenced study by Snee and Zoback evaluated the strike-slip probability using probabilistic FSP (Fault Slip Potential) analysis of known faults in the Permian Basin. The study predicts that the Precambrian fault shown here has less than a 10% probability of being critically stressed to the point of creating an induced seismicity event. The main reason for the low probability is due to the relationship of the strike of the fault to the regional S_{Hmax} orientation in this area.

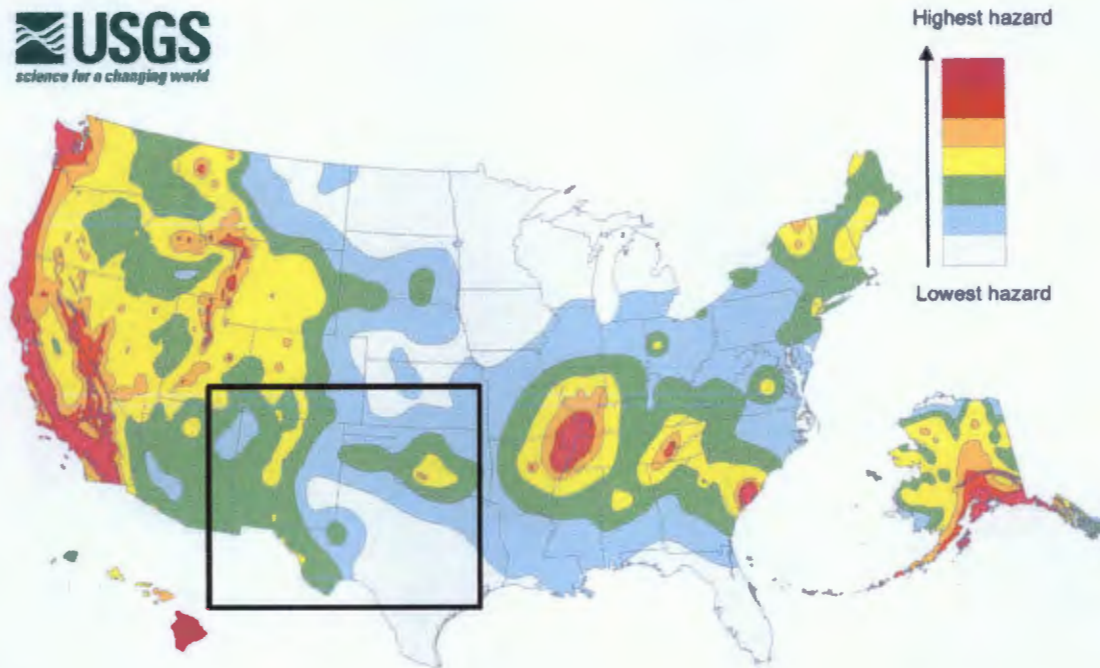


VICINITY - PERMITTED DEVONIAN SWDs, PRECAMBRIAN FAULT, S_{Hmax}

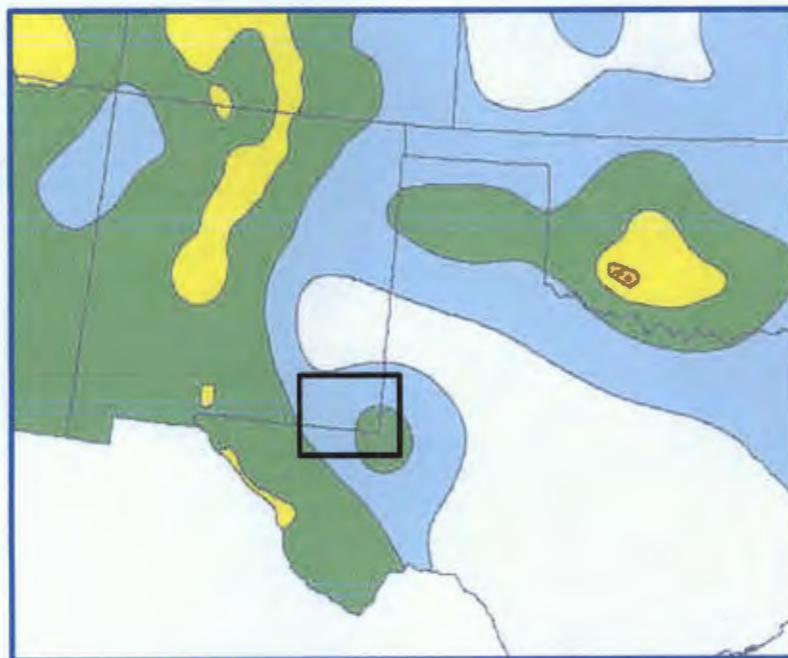
C-108 - Item VIII

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)



2014 map data: The USGS notes in its report that fracking may be to blame for a sizeable uptick in earthquakes in places like Oklahoma. "Some states have experienced increased seismicity in the past few years that may be associated with human activities such as the disposal of wastewater in deep wells," the report says. USGS hopes to use that data in future maps but it isn't included in this one. "Injection-induced earthquakes are challenging to incorporate into hazard models because they may not behave like natural earthquakes and their rates change based on man-made activities," the report says.

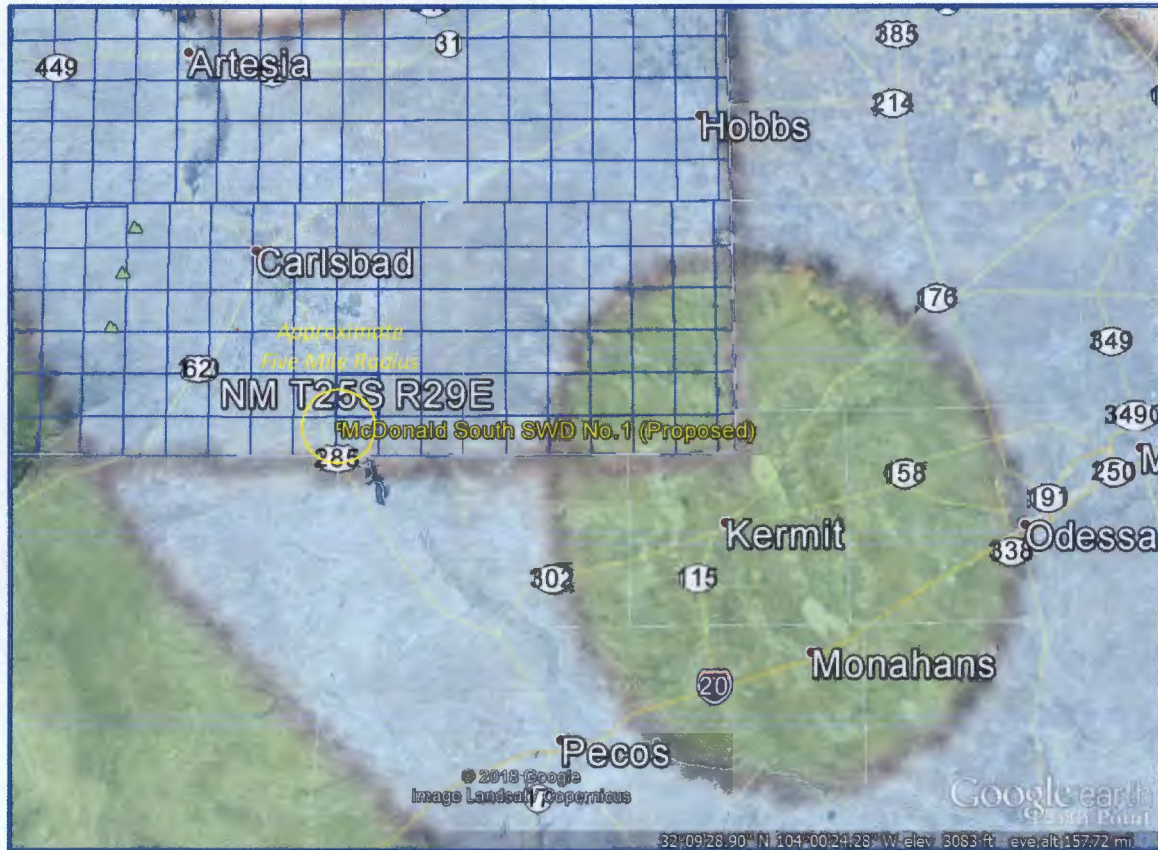


C-108 - Item VIII

Geological Data

EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

USGS 2014 MAP DATA OVERLAY IN GOOGLE EARTH



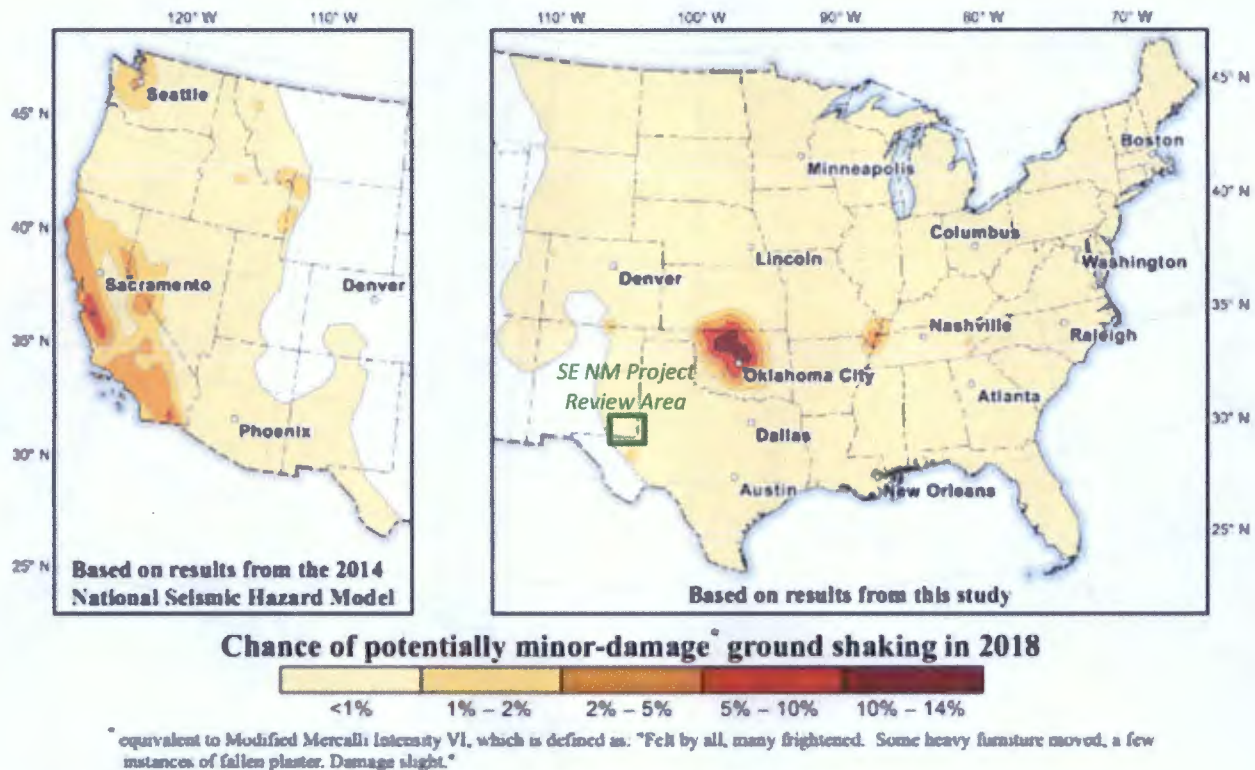
An updated USGS map for 2018 is on the next page. *(Made available after the start of this investigation.)* While methodology remained essentially the same according to USGS, the interpreted results and color-coding did have changes. However, the subject area in southeast New Mexico on both maps remains very low and on the 2018 map, the area is assigned a value of <1% of “potentially minor-damage ground shaking”.

C-108 - Item VIII

Geological Data

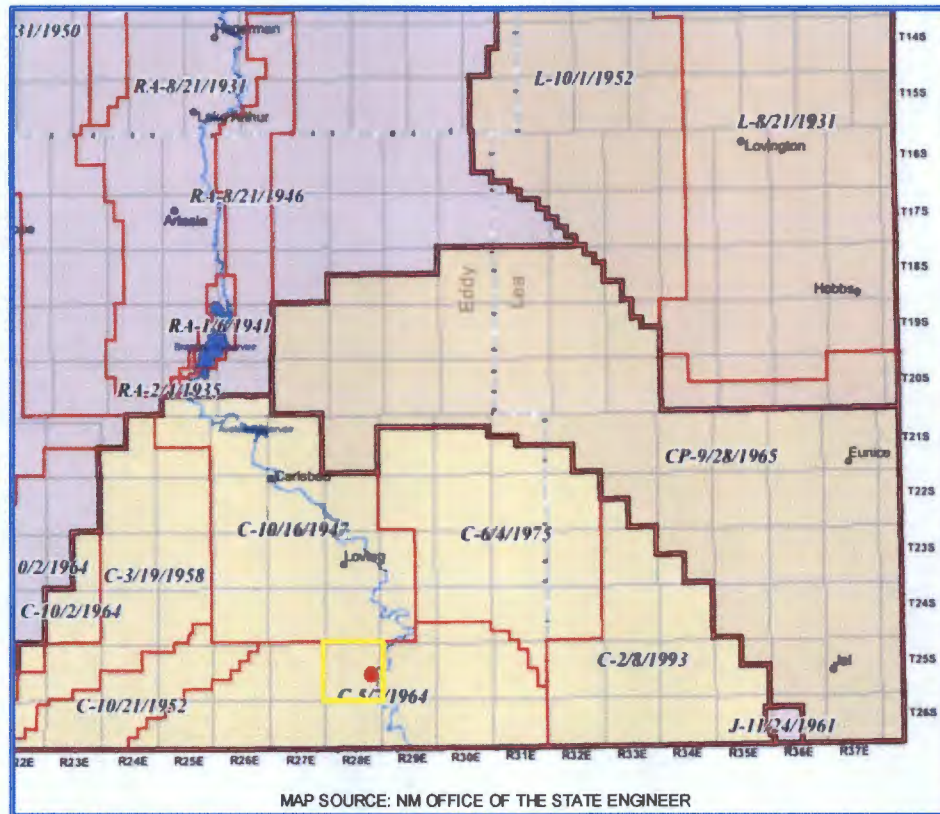
EARTHQUAKE / SEISMIC INFORMATION SUPPLEMENT (cont.)

USGS 2018 ONE-YEAR MODEL



C-108 - Item XI

Groundwater Basins - Water Column / Depth to Groundwater



The subject well is located within the Carlsbad Basin.

Fresh water in the area is generally available from valley and basin fill of the Carlsbad-Pecos segment of the lower Pecos Valley complex of Quaternary alluvial sand and gravel deposits. State Engineer's records show water wells in 26S-29E with an average depth to water at 51 feet.

There are six water wells and/or PODs located within one mile of the proposed SWD. Two are being sampled and a representative analysis is included with this application. They are from offsetting applications but are closely matched and represent the shallow fresh water available in the area.

C-108 Item XI

Water Wells Within One Mile

McDonald South SWD No.1 - Water Well Locator Map

There are 6 water wells/ PODs within a one-mile radius of the proposed SWD.

Representative Water Analyses are included – Analyses will be forwarded.



Data from NM Office of the State Engineer displayed in OSE-GIS System.

DownHole SAT Water Analysis Report



PERFORMANCE
Chemical Company

SYSTEM IDENTIFICATION

Mewbourne
Fresh Water Tank

Fresh Water Well
POD 01411

Sample ID#: 0
ID:

Sample Date: 01-30-2018 at 1626
Report Date: 01-31-2018

WATER CHEMISTRY

CATIONS

Calcium(as Ca)	656.36
Magnesium(as Mg)	70.02
Barium(as Ba)	0.00
Strontium(as Sr)	8.42
Sodium(as Na)	38.52
Potassium(as K)	12.72
Iron(as Fe)	0.0440

ANIONS

Chloride(as Cl)	400.44
Sulfate(as SO ₄)	1261
Dissolved CO ₂ (as CO ₂)	0.00
Bicarbonate(as HCO ₃)	170.80
H ₂ S (as H ₂ S)	0.00

PARAMETERS

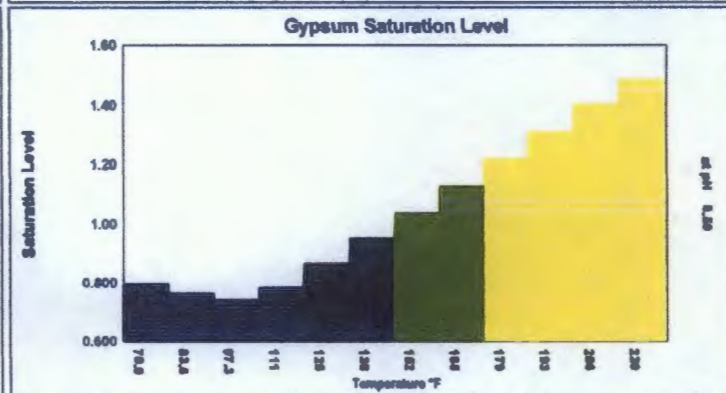
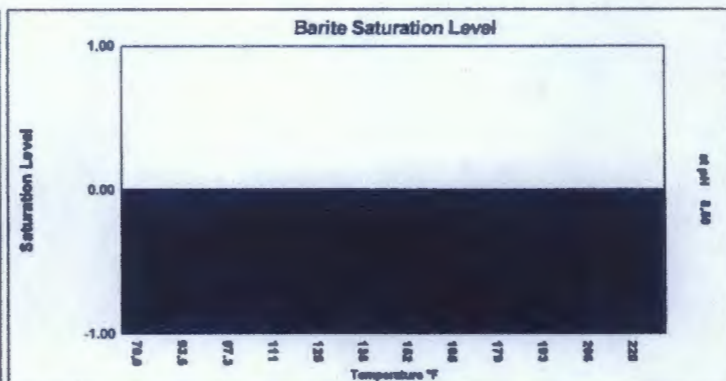
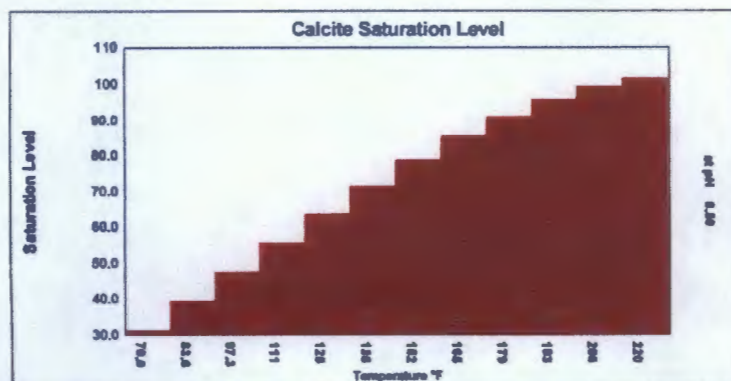
Temperature(°F)	61.00
Sample pH	8.50
Conductivity	2270
T.D.S.	2618
Resistivity	440.57
Sp.Gr.(g/mL)	1.01

Manganese(as Mn) 0.00

SCALE AND CORROSION POTENTIAL

Temp. (°F)	Press. (psig)	Calcite CaCO ₃	Anhydrite CaSO ₄	Gypsum CaSO ₄ *2H ₂ O	Barite BaSO ₄	Celestite SrSO ₄	Siderite FeCO ₃	Mackawenite FeS	CO ₂ (mpy)	pCO ₂ (atm)
70.00	0.00	31.02 5.39	0.464 -628.11	0.794 -185.50	0.00 -0.0125	0.703 -7.34	0.313 -0.0133	0.00 -0.0878	0.00374	< 0.001
83.64	0.00	39.15 6.12	0.476 -590.91	0.761 -217.37	0.00 -0.0170	0.712 -7.04	0.454 -0.00754	0.00 -0.0880	0.00505	< 0.001
97.27	0.00	47.45 6.70	0.508 -519.62	0.741 -236.12	0.00 -0.0221	0.737 -6.19	0.621 -0.00390	0.00 -0.0882	0.00636	< 0.001
110.91	0.00	55.48 7.12	0.562 -422.71	0.780 -189.68	0.00 -0.0277	0.773 -5.10	0.818 -0.00145	0.00 -0.0885	0.00663	< 0.001
124.55	0.00	63.49 7.45	0.642 -308.59	0.863 -107.68	0.00 -0.0343	0.809 -4.11	1.05 < 0.001	0.00 -0.0887	0.00556	< 0.001
138.18	0.00	71.30 7.70	0.754 -184.84	0.948 -37.24	0.00 -0.0421	0.844 -3.23	1.31 0.00158	0.00 -0.0891	0.00376	< 0.001
151.82	0.00	78.62 7.86	0.910 -57.91	1.04 23.55	0.00 -0.0514	0.877 -2.45	1.58 0.00247	0.00 -0.0895	0.00300	< 0.001
165.45	0.00	85.20 7.93	1.12 66.97	1.13 76.20	0.00 -0.0622	0.909 -1.75	1.83 0.00301	0.00 -0.0899	0.00238	< 0.001
179.09	0.00	90.90 7.91	1.42 186.14	1.22 122.21	0.00 -0.0747	0.939 -1.13	2.02 0.00319	0.00 -0.0904	0.00163	< 0.001
192.73	0.00	95.60 7.83	1.83 296.88	1.31 162.62	0.00 -0.0892	0.968 -0.577	2.08 0.00296	0.00 -0.0910	< 0.001	< 0.001
206.36	0.00	99.22 7.68	2.41 397.55	1.40 198.30	0.00 -0.106	0.995 -0.0927	1.93 0.00230	0.00 -0.0918	< 0.001	< 0.001
220.00	2.51	101.50 7.56	3.19 487.69	1.49 227.33	0.00 -0.127	1.01 0.142	1.70 0.00157	0.00 -0.0931	0.00161	< 0.001
		xSAT mg/L	xSAT mg/L	xSAT mg/L	xSAT mg/L	xSAT mg/L	xSAT mg/L	xSAT mg/L		

Saturation Levels (xSAT) are the ratio of ion activity to solubility, e.g. (Ca)-(CO₃)/K_{sp}. pCO₂ (atm) is the partial pressure of CO₂ in the gas phase.
mg/L scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.



Analytical Report

Lab Order 1609364

Date Reported: 9/20/2016

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Permits West**Client Sample ID:** US 285 SWD #1**Project:** Solaris US 285 SWD**Collection Date:** 9/1/2016 1:35:00 PM**Lab ID:** 1609364-001**Matrix:** AQUEOUS**Received Date:** 9/7/2016 1:55:00 PM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 1664A							Analyst: tnc
N-Hexane Extractable Material	ND	10		mg/L	1	9/12/2016 10:45:00 AM	27440
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	350	10	*	mg/L	20	9/9/2016 4:38:51 AM	A37081
SM2540C MOD: TOTAL DISSOLVED SOLIDS							Analyst: SRM
Total Dissolved Solids	2620	20.0	*	mg/L	1	9/9/2016 5:12:00 PM	27408

EXHIBIT H

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

C-108 ITEM XI – WATER WELLS IN AOR

Depth to Ground Water



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 01354 X-3	CUB	ED		2	1	3	23	26S	29E	598323	3543837	170		
C 02038	C	ED		3	2	4	26	26S	29E	599204	3541992*	200		
C 03507 POD1	C	ED		1	3	3	05	26S	29E	593064	3548313	140	78	62
C 03508 POD1	C	ED		1	3	3	05	26S	29E	593063	3548361	140	75	65
C 03605 POD1	CUB	ED		4	2	3	27	26S	29E	596990	3541983	45	0	45

Average Depth to Water: 51 feet

Minimum Depth: 0 feet

Maximum Depth: 78 feet

Record Count: 5

PLSS Search:

Township: 26S

Range: 29E

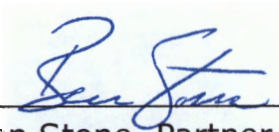
*UTM location was derived from PLSS - see Help

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: Probitry SWD, LLC
 McDonald South SWD No.1
 Reviewed 12/18/2018

C-108 ITEM XIII – PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

Exhibits for Section

Affected Parties Map

List of Interested Parties

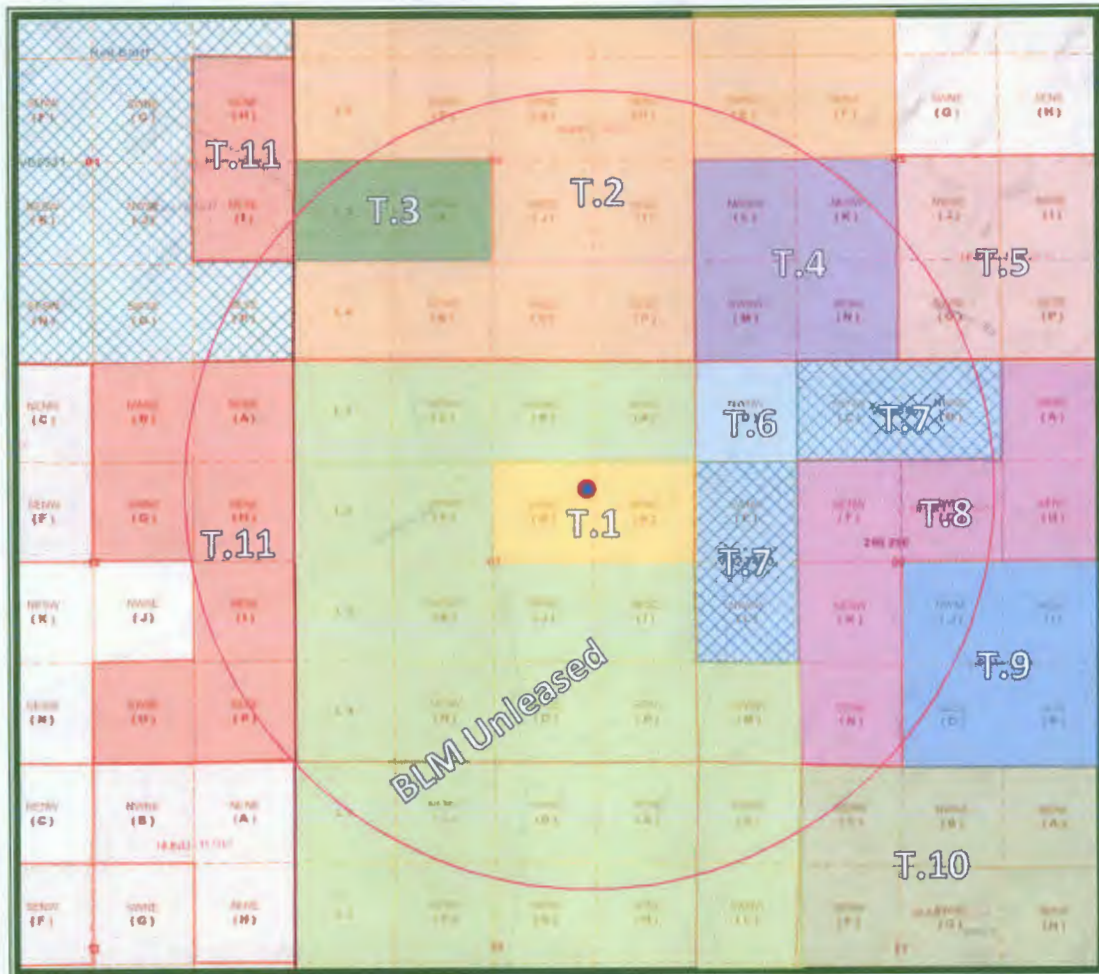
Notification Letter to Interested Parties

Proof of Certified Mailing

Published Legal Notice

McDonald South SWD Well No.1 – Affected Parties Plat

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



Probitly
SWD, LLC

LEGEND

T.1 – Private – Henry McDonald	T.7 – VB-2345 –MRC Permian Company
T.2 – NMNM-118113 – Vanguard; COG Operating	T.8 – NMNM-123925 – COG Operating, LLC
T.3 – NMNM-057261 – Regeneration Energy	T.9 – NMNM-057261 – Regeneration Energy
T.4 – Private – Brad Bennett, LP	T.10 – NMNM-122616 – COG Operating, LLC
T.5 – NMNM-124655 – The Allar Company	T.11 – NMNM-012559 – Oxy USA, Inc.
T.6 – Split: COG Surface/ State Minerals	BLM Unleased

December 18, 2018

NOTIFICATION TO INTERESTED PARTIES
via U.S. Certified Mail – Return Receipt Requested

To Whom It May Concern:

Probity SWD, LLC, Midland, Texas, has made application to the New Mexico Oil Conservation Division to drill and complete for salt water disposal the McDonald South SWD Well No.1. 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 7, Township 26 South, Range 29 East in Eddy County, New Mexico.

The published notice states that the interval will be from 15,100 feet to 15,700 feet into the Devonian (Silurian) and Fusselman formations.

Following is the notice published in the Artesia Daily Press, Artesia, New Mexico on or about December 18, 2018.

LEGAL NOTICE

Probity SWD, LLC, P.O. Box 7307, Midland, TX 79708, 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 McDonald South SWD No.1, will be located 1750' FNL and 1400' FEL, Section 7, Township 26 South, Range 29 East, Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Devonian (Silurian) and Fusselman formations at a depth of 15,100' to 15,700' at a maximum surface pressure of 3020 psi and a rate limited only by such pressure. The proposed SWD well is located approximately 11.7 miles south/ southeast of Malaga, NM.

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 lessee or operator.

You are entitled to a full copy of the application. A full copy in PDF format is posted on the SOS Consulting **ShareFile** site and is available for immediate download.

Use the URL link: <https://sosconsulting.sharefile.com/d-sdee2aff215440e6a>

(Please Note: The ShareFile service is powered by Citrix Systems and is completely secure.*)

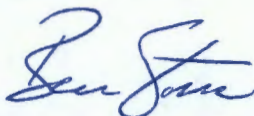
The link to this file will be active for 30 days from the date of this letter. Your company can access and download the file a maximum of five (5) times. (One copy may be downloaded and shared as needed amongst your company.)

If preferred, you may call SOS Consulting, LLC at 903-488-9850, or email info@sosconsulting.us, and the same PDF file copy will be expedited to you via email.

Please use a subject like, **"McDonald South SWD Dec2018 PDF Copy Request"**.

Thank you for your attention in this matter.

Best regards,



Ben Stone, SOS Consulting, LLC
Agent for Probity SWD, LLC

Cc: Application File

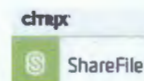
SOS Consulting is committed to providing superior quality work using technology to assist clients and interested parties in obtaining the documentation required. SOS will continue to utilize methods for reducing papers copies and are less energy and resource intensive.

We hope you'll partner with us and appreciate these efforts.

* You will be asked for your name and email.

This will not be used for anything except to track the file downloads.

You will not be solicited by SOS or anyone else. Data is stored on Citrix Systems servers only.



C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

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Henry McDonald
P.O. Box 597
Loving, NM 88256-0597

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

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REGENERATION ENERGY CORP.
P.O. Box 210
Artesia, New Mexico 88211-0210

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VANGUARD OPERATING, INC.
5847 San Felipe, Ste.3000
Houston, TX 77057

7018 0360 0001 8569 5890

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XTO ENERGY, INC.
P.O. Box 6501
Englewood, CO 80155

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

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

Postage
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Total Postage and Fees 6.70

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City, State

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DEC 18 2018

THE ALLAR COMPANY
735 Elm Street
Graham, TX 76450

C-108 - Item XIV

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Affidavit of Publication

No. 24945

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 circulation, published in English at Artesia, said county and state, and that the hereto attached

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was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for

1 Consecutive weeks/day on the same

day as follows:

First Publication December 18, 2018

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Sixth Publication

Seventh Publication

Subscribed and sworn before me this

18th day of December 2018



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NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2018

Latisha Romine

Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

Probity SWD, LLC, P.O. Box 7307, Midland, TX 79708, 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 McDonald South SWD No.1, will be located 1750' FNL and 1400' FEL, Section 7, Township 26 South, Range 29 East, Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Devonian (Silurian) and Fusselman formations at a depth of 15,100' to 15,700' at a maximum surface pressure of 3020 psi and a rate limited only by such pressure. The proposed SWD well is located approximately 11.7 miles south/ southeast of Malaga, NM.

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.

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