Initial

Application Part I

Received: <u>08/22/2019</u>

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

Revised June 6, 2019

RECEIVED: 08/22/2019 REVIEWER:	TYPE: SWD	APP NO: pMAM1923829675
L		
	EXICO OIL CONSERVATIC logical & Engineering Bui	
	St. Francis Drive, Santa Fe	
1220 000110		, , , , , , , , , , , , , , , , , , , ,
	VISTRATIVE APPLICATION	
	FOR ALL ADMINISTRATIVE APPLICATIONS ICH REQUIRE PROCESSING AT THE DIVISIO	FOR EXCEPTIONS TO DIVISION RULES AND ON LEVEL IN SANTA FE
Applicant: Advance Energy Partn	ers Hat Mesa LLC	OGRID Number: <u>372417</u>
Well Name: Long Shot Unit SWD No	o. 1	API:
Pool: <u>Devonian - Silurian</u>		Pool Code: <u>97869</u>
SUBMIT ACCURATE AND COMPLET	E INFORMATION REQUIRED	TO PROCESS THE TYPE OF APPLICATION
1) TYPE OF APPLICATION: Check th		SWD-2256
A. Location – Spacing Unit – Si		
	SP(project area)	
B. Check one only for [1] or [11]	
[1] Commingling – Storage	-	
	PLC PC OLS	
	ressure Increase – Enhance	
WFX PMX	SWD IPI EOR	
2) NOTIFICATION REQUIRED TO: Ch	ock those which apply	<u>FOR OCD ONL</u>
A. Offset operators or lease		Notice Comple
	ty owners, revenue owners	Application
C. Application requires put	•	Content
D. Notification and/or cond		Complete
E. 🔲 Notification and/or cond	current approval by BLM	Complete
F. Surface owner		
approximation and a second s	of of notification or publicc	ition is attached, and/or,
H. 🔄 No notice required		
3) CERTIFICATION: I hereby certify the	hat the information submitt	ed with this application for
administrative approval is accur		
understand that no action will be	e taken on this application	until the required information and
notifications are submitted to the	e Division.	
Note: Statement must be co	mpleted by an individual with manag	gerial and/or supervisory capacity.
		/12/2019
David Harwell		ate
Print or Type Name	8	32-672-4604
$\hat{\rho}$	PI	hone Number
Namil Hamel		Hanvell@advancooncraveathors
vana some	DI	Harwell@advanceenergypartners.com

Signature

e-mail Address

State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

Receipt of Fee Application Payment

Long shot SWD



PO Number: CWTT7-190822-C-1080

Payment Date:	8/22/2019 3:26:17 PM
Payment Amount:	\$500.00
Payment Type:	Credit Card
Application Type:	Application for a fluid injection well permit.
Fee Amount:	\$500.00
Application Status:	Under OCD Review
OGRID:	372417
First Name:	Debbie
Last Name:	Moughon
Email:	dmoughon@advanceenergypartners.com

IMPORTANT: If you are mailing or delivering your application, you must print and include your receipt of payment as the first page on your application. All mailed and delivered applications must be sent to the following address: 1220 S. St. Francis Dr., Santa Fe, NM 87505. For inquiries, reference the PO Number listed above.

> Oil Conservation Division * 1220 South St. Francis Drive * Santa Fe, New Mexico 87505 (505) 476-3441 * ocd.fees@state.nm.us * www.emnrd.state.nm.us/OCD

III. WELL DATA

- 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

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.

APPLICATION FOR AUTHORIZATION TO INJECT

- Application qualifies for administrative approval? Yes No II. **OPERATOR: Advance Energy Partners Hat Mesa LLC** ADDRESS: 11490 Westheimer Rd. Suite 950, Houston, Texas 77077 **CONTACT PARTY: David Harwell** PHONE: 832-672-4604 (o) 281-235-3431 © WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. III. Additional sheets may be attached if necessary.
 - Is this an expansion of an existing project? **XXX** No (This is not an expansion of an existing project) IV. If yes, give the Division order number authorizing the project:
 - Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle V. drawn around each proposed injection well. This circle identifies the well's area of review.
 - VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
 - Attach data on the proposed operation, including: VII.
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;

Secondary Recovery

- 2. Whether the system is open or closed;
- 3. Proposed average and maximum injection pressure;
- 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
- 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any *XI. injection or disposal well showing location of wells and dates samples were taken.
- Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering XII. data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

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:

NAME: David H	arwell		1		
		1 11	/	11	
SIGNATURE:	Nam	1 -56	TIME	K/I	

E-MAIL ADDRESS: **DHarwell@advanceenergypartners.com**

TITLE: Vice President

_____ DATE: 8-12-19

Pressure Maintenance

Disposal

Storage

XXX

I.

PURPOSE:



11490 Westheimer Road, Suite 950, Houston, Texas 77077 • Phone 832-672-4700 • Fax 832-672-4609

8/13/2019

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

Attn: Ms. Heather Riley, Director

Re Application of Advance Energy Partners Hat Mesa LLC to permit for commercial salt water disposal the proposed Long Shot Unit SWD Well No.1 to be located in is 1490' FWL, 2100' FSL Section 2, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico.

Dear Ms. Riley,

Please find enclosed Form C-108 Application for Authority to Inject, supporting the abovereferenced request to permit for commercial disposal, the Long Shot SWD No. 1. The well is located **1490' FWL**, **2100' FSL Section 2, Township 22 South, Range 33 East.** Attached is plat defining the location of the Advance Energy Partners Hat Mesa LLC "Long Shot SWD No. 1".

Advance Energy Partners seeks to optimize efficiency, both economically and operationally, of its operation in southeast New Mexico. Advance Energy Partners respectfully requests administrative approval, without hearing, to dispose produced water into the Devonian – Silurian Formation. In support of this request please find the following documentation:

- Administrative Application Checklist
- Form C-108 with miscellaneous data attached
- An Injection Well Data Sheet with Wellbore Schematic
- Area of Review and Data Table of Surrounding Wells
- Publication
- Service List with Proof of Certified Mailing attached

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 will run on or about June 9, 2019 in the Hobbs News-Sun and all offset operators and other interested parties have been notified individually. The legal notice affidavit is included with this application. This application also includes a wellbore schematic, area of review maps, leaseholder plats and other required information for a complete Form C-108.

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,

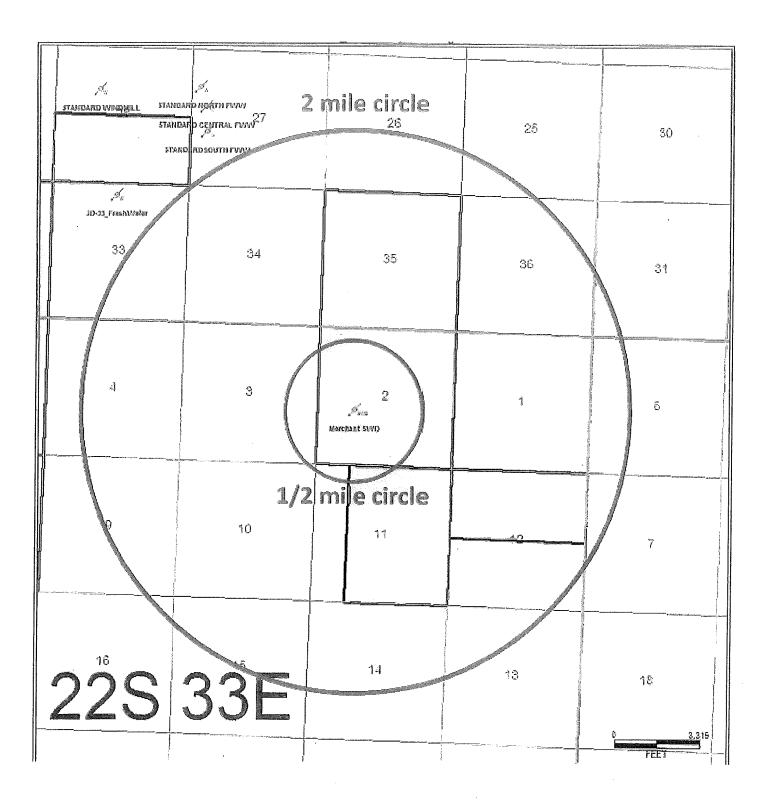
Jamid Harmell

David Harwell

Attachment

The Long Shot Unit SWD Well No.1 in Sec 2 (1490' FWL, 2100' FSL Section 2, Township 22 South, Range 33 East)

Advance Energy Partners Hat Mesa LL Acreage Position with respect to 2-mile radius



Side 1 INJEC	TION WELL DATA SHEET			
OPERATOR: Advance Energy Partners Hat Mesa LLC				
WELL NAME & NUMBER: Long Shot Unit No. 1				
WELL LOCATION: 1490' FWL & 2100' FSL	UNIT LETTER SEC		228	
FOOTAGE LOCATION	UNIT LETTER SEC	CTION	TOWNSHIP	RANGE
<u>WELLBORE SCHEMATIC (</u> Also Attached)	WELL	CONSTRUC	CTION DATA	
ADVANCE Store Unit SWD #1		Surface (Casing	
APIC INACC INAL D 83 Store 5 versus Store 5 versus APIC VMC VMC Store 5 versus Store 5 versus Store 5 versus APIC VMC VMC VMC Store 5 versus Store 5 versus APIC VMC VMC Store 5 versus Store 5 versus Store 5 versus APIC VMC Common 1 versus Store 5 versus Store 5 versus Store 5 versus APIC VMC Common 1 versus Store 5 versus Store 5 versus Store 5 versus Store 5 versus APIC VMC Common 1 versus Store 5 vers	Hole Size: 30" & 24"		Casing Size: 26" a	& 20"
Jar 1,625 FRE5H Top of Talk, 1320 Casing mutt be set 25 into the Rustler 12 Jowaprings 120% eccess 120% eccess Casing mutt be set 25 into the Rustler	Cemented with: per vendor pr	roposal	or	ft ³
I.650 SURF CG PT I.650 1/2 IIII appr Lipin: shee trade MUD: fract water only 1/4100/11 20° Top of lead: Surface Circ cament to surface is a SNM OCD requirement 1/4 30.550 Base of Sait 3.550 Base of Sait 3.550	Top of Cement: Surface & Sur	rface	Method Determine	ed: Designed
3,600 INTERNA CSG PT 3,600 International CSG PT 20% creation 0,000 0,000 0,000 0,000 1,000 1,000 0,000 0,000 0,000 1,000 1,000 1,000		Intermediat	te Casing	
127.4/2* 127 Bowgarings Sofie events ToperTails 4.2500 127.1/2* 127 Bowgarings ToperTails 4.2500 127.1/2* TD XMW DV Tool & Packer @ +/-3700* ToperTails 4.2500 5.250 INTEM 2 CSG PT 5.250 Sofie events 105.5ppg 15.15 mis the track Top Protect Top Tails 4.2500 105.6ppg 15.16 mis the track Top Protect Top Tails 4.2500 105.6ppg 15.07 mis the track Top Protect Top Protect 105.6ppg 19.5/0* Top Intel confract 105.6ppg 19.5/0* Top Intel confract 105.6ppg 19.5/0* Top Intel confract	Hole Size: 17.5" & 12.25"		Casing Size:13.62 & 9.875",	5"
EX.07 Exempting: Tapentral: exects EX.07 Exempting: Tapentral: exects	Top of Cement: Surface & Sur	rface	Method Determin	ed: Circulation
11.035 Weitramp 12,035 12,135 TDP. Or LINER 12,135 12,235 HITRM 3 C/C PT 12,235 12,235 HITRM 3 C/C PT 12,235		Production	<u>1 Casing</u>	
B3/4" IJJ P2: 15235 PEAN PACKIN 15,225 PEAN PACKIN 15,225 PEAN PACKIN 15,225 PEAN PACKIN 15,225 PEAN PACKIN	Hole Size: 8.75"		Casing Size: 7.62	5', 39# P-110 Csg.
16.225 Wiederich 15.225 [25 prg 1]bits shee made 16.425 [25 prg 1]bits shee 16.425 [25 prg 1]bits shee made 16.425 [25 prg 1]bits shee 16.425 [Cemented with: per vendor pr	roposal	<i>or</i>	ft ³
63/4" 17,004 Facadiman	Top of Cement: Top of Liner		Method Determin	ed: Circulation
17.593 Morroya 17.395 C C C C C C C C C C C C C C C C C C C	Total Depth: 17695	Injection	Interval	
Drilling Engineers Braden Harris (406) 660-3310 Date: 05/30/2019	_			
	*		t To 17,695 feet lole; indicate which)	

an T	1 uoung Size: S 22 HCF-110 X S" HCF-110
Typ Inje	Type of Packer: Nickel plated 10K double grip retrievable or 10K nickel plate permanent or Weatherford Arrow Set Injection Packer
Pacl	Packer Setting Depth: +/-16490'
Of	Other Type of Tubing/Casing Seal (if applicable):N/AN/A
	- Additional Data
	Is this a new well drilled for injection? XXX YesNo
	If no, for what purpose was the well originally drilled?
5.	Name of the Injection Formation: Devonian - Silurian
ы.	Name of Field or Pool (if applicable): No
4	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: T / Brushy Canyon 8,450 – 8,500 T / 2 nd Bone Sand 10,400- 10,550 T / 3 nd Bone Sand 11,600 – 11,700 T / Wolfcamp: 11,900 – 12,950 T / Penn: 12,700 -12,900 T / Morrow 13,700 – 14,000

INJECTION WELL DATA SHEET

Tithing Size. 5 14" HCP-110 x 5" HCP-110

T initia

Side 2

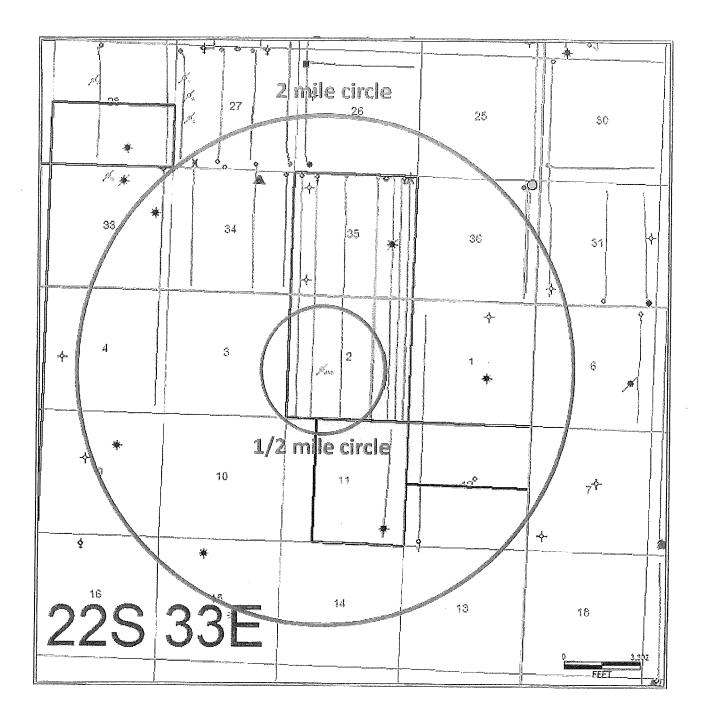
WELLBORE SCHEMATIC

			ENE	DVAA RGY PART	NERS /////		SWD WELL	
RE		Y: NMOCD		RIG:		NAD 83	SHL: Sec. 2, T-225, R-33E;	1490' FWL & 2100' FSL
	AP COUNT	'I: Y: LEA CO, NM		KB: GL: 3,778			BHL: Sec. 2, T-225, R-33E;	1490' FWL & 2100' FSL
HOLE	MD	FORMATION	TVD		MUD	CASING	CEMENT	SPECIAL INSTRUCTIONS
SIZE		Conductor			MW 8.4 ppg	26 ³	Top of Lead: Surface 50% OH excess	Circ cement to surface is MMOCD requirement
30"	1,625	Rustler	1,625		FRESH TD SW	12 Bowsprings	Top of Tail: 1320' 20% excess	Casing must be set 25' int the Rustler
	1,650	SURF CSG PT	1,650		10.0 ppg	1 joint shoæ track		MUD: Fresh water only
5.00					DRLOUT MW 10.0 pps	203	Top of Lead: Surface 50% OH excess	Cisc cement to surface is NMOCD requirement
24"	3,550	Base of Salt	3,550		BRINE TD MW	17 Bowsprings 1 joint shae track	Top of Tail: 2880' 20% excess	
	3,600	INTRM 1 CSG PT	3,600		10.5 ppg DRLOUT	-	2 STAGE CEMENT	Live coment to surface is :
	3,700	DV TOOL & PACKER	3,700		й MW 10.0 ррд	13-3/8 ³	1st Stage Top of Lead: 2800' 50% excess Top of Tail: 4200' 20% excess	facenseinen to renate to
7-1/2'					BRIME	17 Bowsprings	20% excess	
					TD MW	DV Tool & Packer @ +/-3,700'	2nd Stage Top of Lead: Surface 50% excess (OH only) Tail: 100 sks	
	5,250	INTRM 2 (SG PT	5,250		10.5 ppg	1 joint shoe track	no excess	
	۰.				DRLOUT MW 9.0 ppg	9-5/8"	Top of Lead: Surface 50% excess (OH only)	
						47 Bosssprings	Top of Tail: 9788' 20% excess	
2-1/4'					CUT BRINE			
	12,035	Wolfcamp	12,035	<u>Ц</u>	Л			
	12,135	TOP OF LINER	12,135	J) (TD MW 9.2 ppg	1 joint shae track		
	12,235	INTRM 3 CSG PT	12,235		DRLOUT MW	DRILLING LINER 7-5/8"		
					11.5 ppg	· · · ·		
1-3/4"					WEIGHTED		Top of Tail: 12996' 20% excess	
	16,225	PERM PACKER	16,225		CUT BRINE	23 Bowsprings		
	16,225 16,245	Woodford LINER CSG PT	16.225 16,425		TD MW 12.5 ppg	1 joint shoe track		
	16,425	Devonian	16,425	3	DRLOUT MW	OPEN HOLE		
-3/4°	17,084	fusselman	17,084		8.4 ppg FRESH	INJECTION STRING	PACKER FLUID	
., .						5-1/2".		
	17,595	Montoya	17,595	3 }	TO MW			
	17,695	TD	17,695	Est BHT = 25	8.6 ррд 3° F			

Drilling Engineer: Braden Harris (406) 600-3310

Date: 05/30/2019

Part V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.



VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

See Attachment A on the Advance Energy Partners Grama Ridge 35 State penetrated the Devonian by 65 feet. The well was plugged back and side tracked. The new name is the Merchant State #1.

Part VII. Operations Plan

- 1. Upon approval of all permits for SWD, operations would begin within 30 days. Completion of the well operations will take approximately 2 3 months. 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. The operator has negotiated a Surface Use Agreement for the facility and well site.
- 2. Prior to commencing any work, an NOI sundry 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.
- 3. The SWD facility will not be fenced so that trucks may access for load disposal 24/7.
- 4. 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.
- 5. The tanks will be equipped with telemetry devices and visual alarms to alert the operator and customers of full tanks or an overflow situation.
- 6. Proposed Maximum injection pressure = \sim 3285 psi (0.2 psi/ft. x 16,425')
- 7. Proposed average daily injection rate = 18,000 BWPD Proposed maximum daily injection rate = 25,000 BWPD
- 8. 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 bbl. 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.

VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

Formation	Depth
Rustler	1565'
Delaware	5335'
Bone Spring	8795'
Wolfcamp	12,035'
Strawn	13,425'
Mississippian Lime	15,630'
Woodford	16,225'
Devonian	16,425'
Silurian	16,869'

Long Shot Unit SWD No. 1 Estimated Tops:

The injection zone is the Devonian/Silurian/Upper Ordovician, a mixture of non-hydrocarbon bearing limestones and dolomites estimated from 16,425' to 18,150'. Any underground drinking water sources will be shallower than 1565', the estimated top of the Rustler Anhydrite.

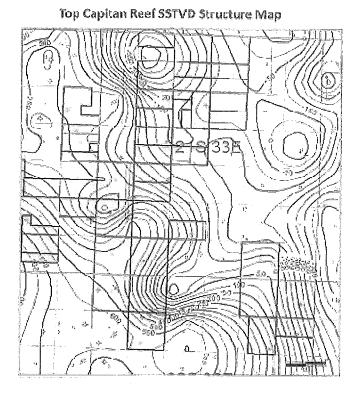
Geoscience Validation

 NAME: Donald E. Glover
 TITLE: President of MVG America LLC

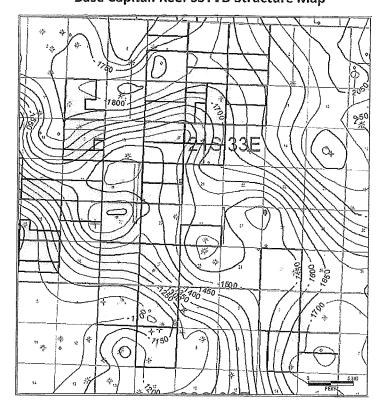
 SIGNATURE:
 Imail E. How

 DATE:
 8/13/2019

Capitan Reef Basement TOP and Bottom



Base Capitan Reef SSTVD Structure Map



20 to 40 Gallons per feet of 20% HCL acid. The estimated open hole footage is between $1000^{\circ} - 1500^{\circ}$.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

No Log Available Across Proposed Devonian/Silurian/Upper Ordovician Injection Interval. Well logs will be filed with the Division.

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken

No Fresh water wells are with the 2 miles radius. Attached is potential disposed water samples:

SOURCE ZONE

WOLFCAMP

SOURCE ZONE

BONE SPRING Lab 10 4916 Sample ID APINO 3002502429 Sample No 005 Well Name LEA UNIT Location ULSTR 12 20 S 34 Ε Lat/Long 32.58504 -103,51106 1980 s 1980 E Lea County Operator (when sampled) Unit J Field LEA Sample Date Analysis Date Sample Sourc DST Depth (if known) Water Typ alkaInity_as_caco3_mgL ph ph_temp_F hardness_as_caco3_mgL specificgravity hardness_mgL resistivity_ohm_cm specificgravity_temp_F tds_mgL 202606 resistivity_ohm_cm_temp_ tds_mgL_180C conductivity chloride_mgL 118100 conductivity_temp_F carbonate_mgL sodium_mgL calcium_mgL blcarbonate_mgL 5196 iron_mgL sulfate_mgL 992 barium_mgL hydroxide_mgL magnesium_mgl.. h2s_mgL potassium_mgL co2_mgL strontium_mgL o2_mgL manganese_mgL anionremarks Remarks

SOURCE ZONE

DELAWARE

ELAW.	ARE										Lab 10			
		0000505	008								Sampk	(D		4347
APIN		3002508					007				Sample	No		
	Name	BELL LA					007							
	Location		01 360	<u>2</u> 4	S	33	e E		Lat / Long	32.25143		1,51924		
		C	000	N	Ģ	60	5				County	Lea		
	Operator	(when sa	-											
	_		Fiel	d	SN	D					Unit 1			
	San	ple Date						Anay	sis Date					
			San	nple S	ourc	UN	KNOWN			Depth (il	í known)			
			Wat	ter Typ	0									
	ph								alkaInity	_as_caco3_r	ngL			
	ph_tem	IP_F							hardnes	ട_കട_റ്റോട്	mgL			
	specific	cgravity							hardnes	s_mgL				
	specific	cgravity_t	emp_F	1					resistivil	y_ohm_cm				
	tds_mg	IL.					87686		resistivii	y_ahm_cm_f	emp_			
	tds_mg	L_180C							conduct	ivity				
	chloride	3_mgL					53920		conducti	vity_temp_F				
	sodium	_mgL					•		carbona	te_mgL				
	calcium	_mgL							bicarbor	vate_mgL			391	
	iron_m	ցԼ							sulfate_r	ngL			749	
	barium_	_mgL							hydroxid	e_mgL				
	magnes	sium_mgL							h2s_mgl	-				
	polassi	um_mgL							co2_mg	L				
	strontiu	m_mgL							o2_mgL					
	_	xese_mgL							anionren	narks				
Rema	nkş													

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DISPOSAL ZONE

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DEVONIAN											Lab iO		
API No.	300	2508	483								Sampk	D	5733
Well Nam			KE UI	NIT				006			Sample	No	
	ation UL:	STR	06	23	s	34	Е		Lat / Long	32.32821	-103	3,50663	
			60	s		980	E				County	Lea	
Onai	rator (whe	near	mbari	`							-		
ope.	ieros (iasta	.11 981	Field	-	BE	LL LA	KE	NORTH			Unit O		
·	Sample I	Date							sis Date				
				•		e HE/	ATE	RTREATER		Depth (i	if known)		
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XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Advance Energy Partners Hat Mesa LLC has examined available geologic and engineering data and find no obvious evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Affidavit of Publication

STATE OF NEW MEXICO COUNTY OF LEA

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

> Beginning with the issue dated June 09, 2019 and onding with the issue dated June 09, 2019.

Case 11

Publisher

Swom and subscribed to before me this 9th day of June 2019.

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My commission oxpires



Thisnewspaper, is duly qualified to publish legal polices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of foce for sald



Notice for Long Shot SWD .

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PAUL BURDICK ADVANCE ENERGY PARTNERS 11490 WESTHEIMER AD, STE 950 HOUSTON, TX 77077 XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. 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.

AEP's Long Shot Unit SWD#1

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Address List

Oil and Gas Operators:

Chevron U.S.A. Inc. 6301 Deauville Blvd. Midland, Texas 79706

Devon Energy Production Company LP 333 W. Sheridan Avenue Oklahoma City, Oklahoma 73102

COG Operating LLC One Concho Center 600 W. Illinois Ave. Midland, Texas 79701

New-Tex Oil Company P. O. Box 297 Hobbs, New Mexico 88240

Interstate Bank of Arizona Trustee of the John H. and Mary C. Burton Trust P. O. Box 1546 Mesa, Arizona 85201

Occidental Permian Ltd. 5 Greenway Plaza Houston, Texas 77046

EOG Resources 5509 Champions Drive Midland, Texas 79706

Marathon Oil/Permian, LLC 5555 San Felipe St Houston, Texas 77056

Marshall & Winston Inc 6 Desta Dr. #3100 Midland, Texas 79705

Surface Owners

Merchant Livestock Co., Inc P. O. Box 1105 Eunice, New Mexico 88231

State of New Mexico State Land Office 310 Old Santa Fe Trail Santa Fe, New Mexico 87504

Bureau of Land Management Carlsbad Field office Certified Mail: 7019 0160 0000 0273 2013

Certified Mail: 7019 0160 0000 0273 2020

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Certified Mail

Certified Mail: 7019 0160 0000 0273 5021

Certified Mail: 7019 0160 0000 0273 5038

Certified Mail:

620 East Greene Street Carlsbad, New Mexico 88220

Richardson Mineral and Royalty, LLC Michael S. Richardson, Managing Member P.O. Box 2423 Roswell, NM 88202

Tara La Marr, widow, as her SSP 2055 Forebay Road Pollock Pines, CA 95726

Peggy Menlove, a married woman, as her SSP Certified Mail P.O. Box 674 Paulden, AZ 86334

Barton Bros Land and Royalty Company Box 978 Hobbs, NM 88240

Jake Barron P.O. Box 1711 Denison, TX 75021

Walter Lewis Sipple, Jr. 508 S Fozzard St. Marion, IL 62959

Oak Valley Mineral and Land, LP Michael E. Black, Manager P.O. Box 50820 Midland, Texas 79710

Gracie Frances Sipple Hager 240 Falcon Creek Drive Suwanee, GA 30024-2543

Larry Dean Baker 784 Frank Maes Ave. Las Cruces, NM 88005

CeDil A. Howell (2006) 1829 Sentate St. Unit 11-E Columbia, SC 29201

Charles Barron 6356 Amherst Ave. #PO-493 Columbia, MD 21046

Robert C. Barron 1840 Barron Way Sevierville, TN 37876 Certified Mail

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Thomas L. Barron P.O. Box 2283 Colorado City, AZ 86201

John L. Barron P.O. Box 3045 Colorado City, AZ 86201

Donna Jean Barron P.O. Box 610 Buckeye, AZ 85326

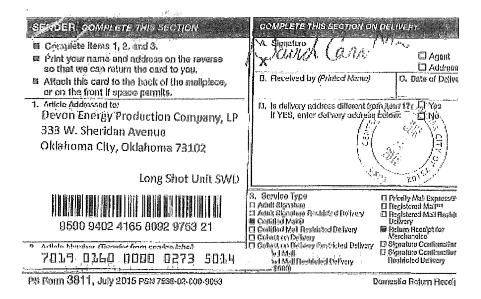
CeCe Barron 612 Bear Canyon Lane NE Albuquerque, NM 87113

Michelle J. McKenna P.O. Box 1975 Jacksonville, Or 97530

Crown Oil Partners V, LP P.O. Box 50820 Midland, TX 79710

Crump Energy Partners II, LLC P.O. Box 50820 Midland, TX 79710 Certified Mail

Roy G.Barton, Sr. & Opal Barton Revocable Trust Certified Mail Rpy G. Barton, Jr., Trustee Hobbs, NM 88240



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
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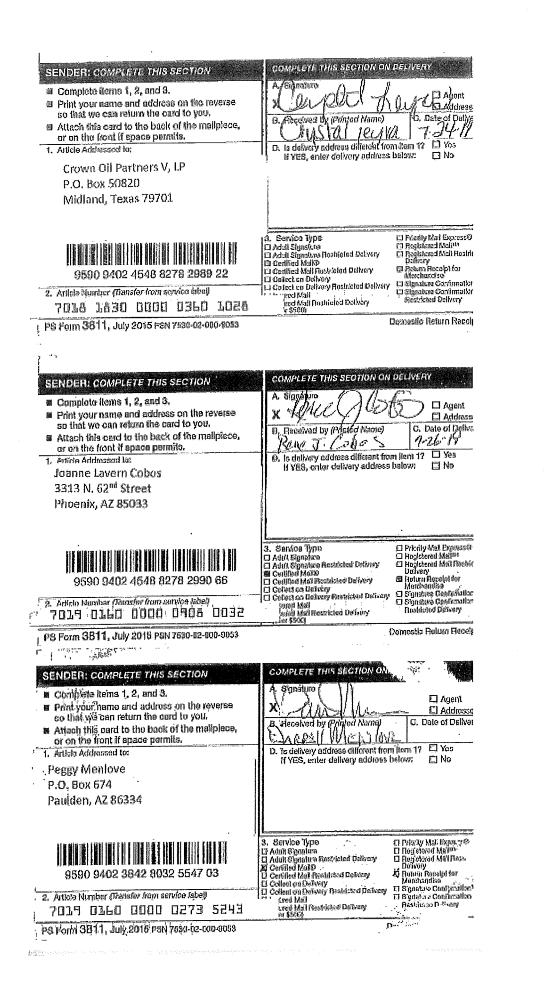
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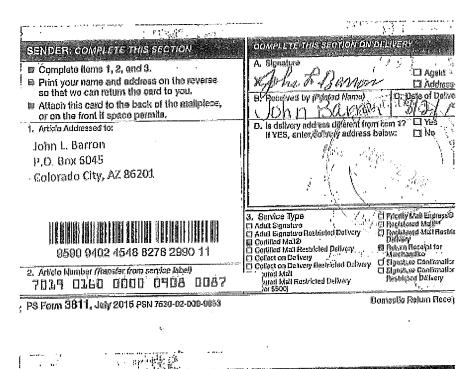
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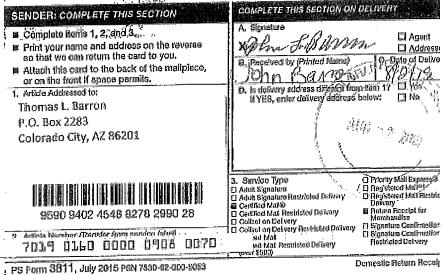
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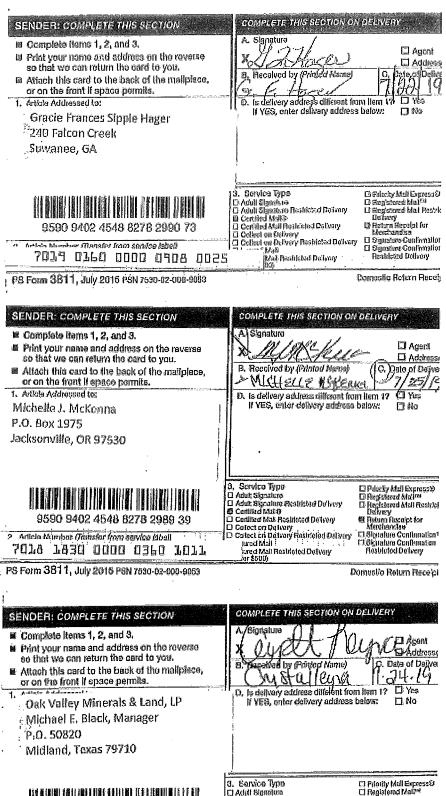
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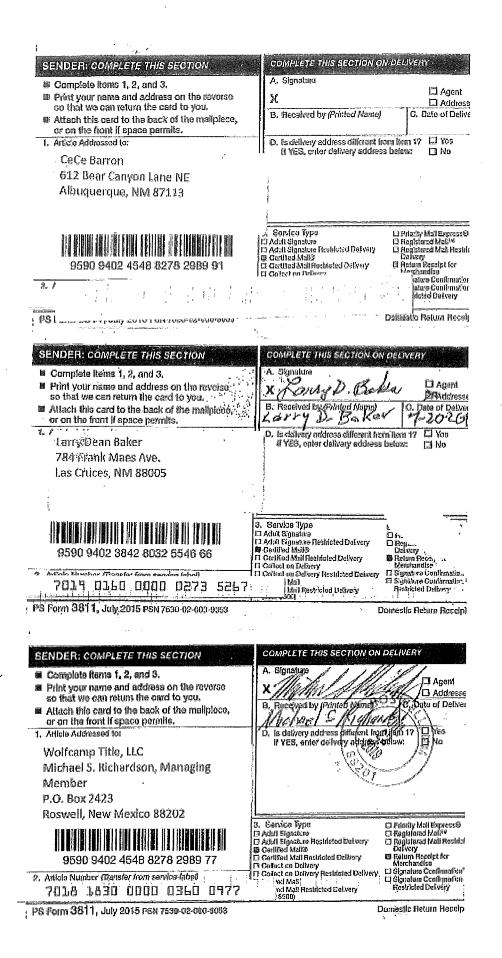
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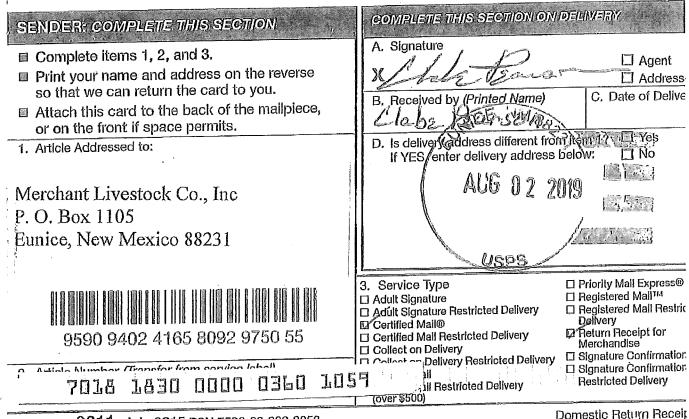
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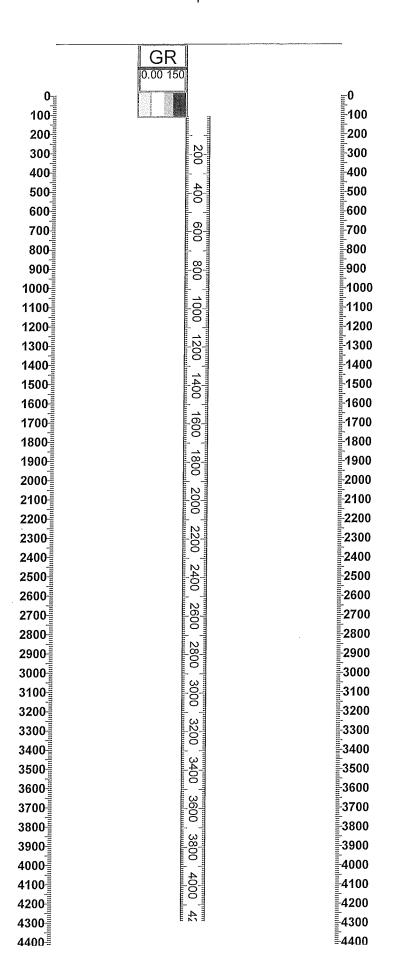
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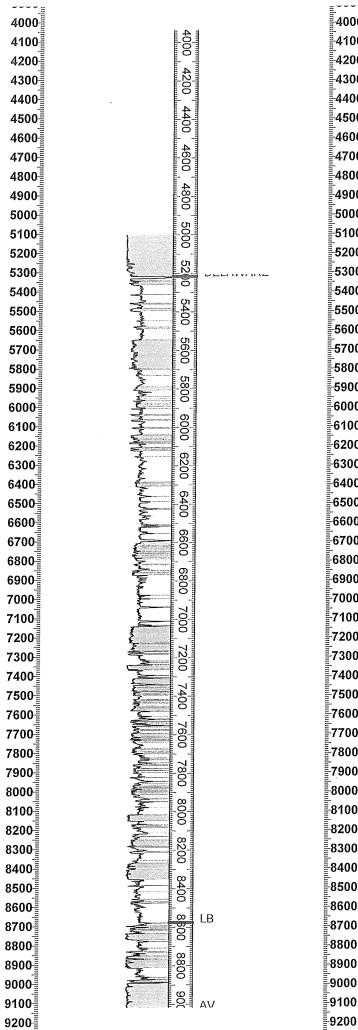
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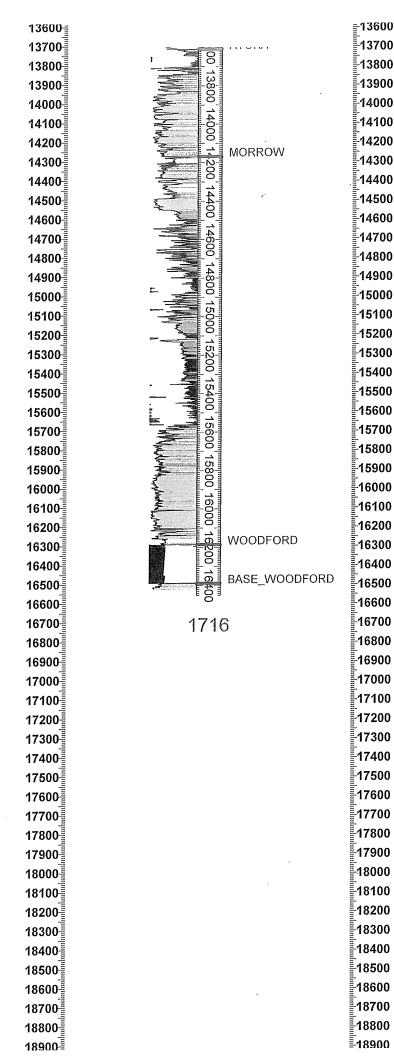
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11490 Westheimer Road, Suite 950, Houston, Texas 77077 • Phone 832-672-4700 • Fax 832-672-4609

8/23/2019

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

Attn: Ms. Heather Riley, Director

Re Application of Advance Energy Partners Hat Mesa LLC to permit for salt water disposal the proposed Long Shot Unit SWD Well No.1 to be located in is 1490' FWL, 2100' FSL Section 2, Township 22 South, Range 33 East, NMPM, Lea County, New Mexico.

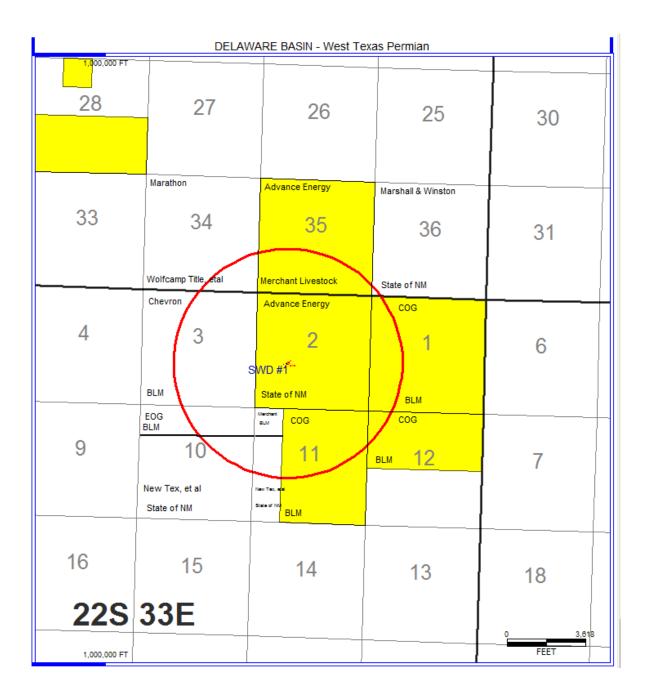
The injection zone is the Devonian/Silurian/Upper Ordovician, a mixture of non-hydrocarbon bearing limestones and dolomites estimated from 16,425' to 18,150'. Any underground drinking water sources will be shallower than 1565', the estimated top of the Rustler Anhydrite.

There is no connection between injection interval and underground sources of drinking water.

Geoscience Validation

NAME: Donald E. Glover Minald [Iloven_____ DATE: _____ 8/23/19 SIGNATURE_____

TITLE: President of MVG America LLC





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