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

RECEIVED: REVIEWER: APP NO: **SWD** pMAM1923548361 08/22/2019 ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Geological & Engineering Bureau -



1220 South St. Francis Drive, Sai	nta Fe, NM 87505
ADMINISTRATIVE APPLICA	TION CHECKLIST
THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPL REGULATIONS WHICH REQUIRE PROCESSING AT T Applicant: Advance Energy Partners Hat Mesa LLC _ Well Name: Quick Shot Unit SWD No. 1 Pool: <u>Devonian - Silurian</u>	ICATIONS FOR EXCEPTIONS TO DIVISION RULES AND THE DIVISION LEVEL IN SANTA FE OGRID Number: 372417
SUBMIT ACCURATE AND COMPLETE INFORMATION REQ	
1) TYPE OF APPLICATION: Check those which apply for A. Location – Spacing Unit – Simultaneous Dedicat NSL NSP(PROJECT AREA) B. Check one only for [1] or [1]	ion
[1] Commingling – Storage – Measurement DHC DTB PLC PC [11] Injection – Disposal – Pressure Increase – En	OLS OLM nanced Oil Recovery EOR PPR FOR OCD ONLY
 NOTIFICATION REQUIRED TO: Check those which appears of the control of th	Notice Complete Application Content Complete
3) CERTIFICATION: I hereby certify that the information so administrative approval is accurate and complete to understand that no action will be taken on this applic notifications are submitted to the Division.	the best of my knowledge. I also
Note: Statement must be completed by an individual wi	th managerial and/or supervisory capacity.
	6/6/2019
David Harwell	Date
Print or Type Name	832-672-4604
	Phone Number
Warrid Hannell	DHarwell@advanceenergypartners.com

e-mail Address

Signature

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

Receipt of Fee Application Payment





PO Number: V1I4D-190822-C-1080

Payment Date:

8/22/2019 3:31:57 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.

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 Quick Shot Unit SWD Well No.1 to be located in is 370' FEL & 2667' FNL Section 6, 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 above-referenced request to permit for **commercial disposal**, the Quick Shot Unit SWD No 1. The well (370' FEL & 2667' FNL Section 6,, Township 22 South, Range 33 East) is on a drill island. Attached is plat defining the drill island and the location of the Advance Energy Partners Hat Mesa LLC "Quick Shot Unit No. 1" within the island.

Advance Energy Partners seeks to optimize efficiency, both economically and operationally, of its operation in the 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 ran 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 will be forwarded when received. This application also includes a wellbore schematic, area of review maps, leaseholder plats and other required information for a complete Form C-108.

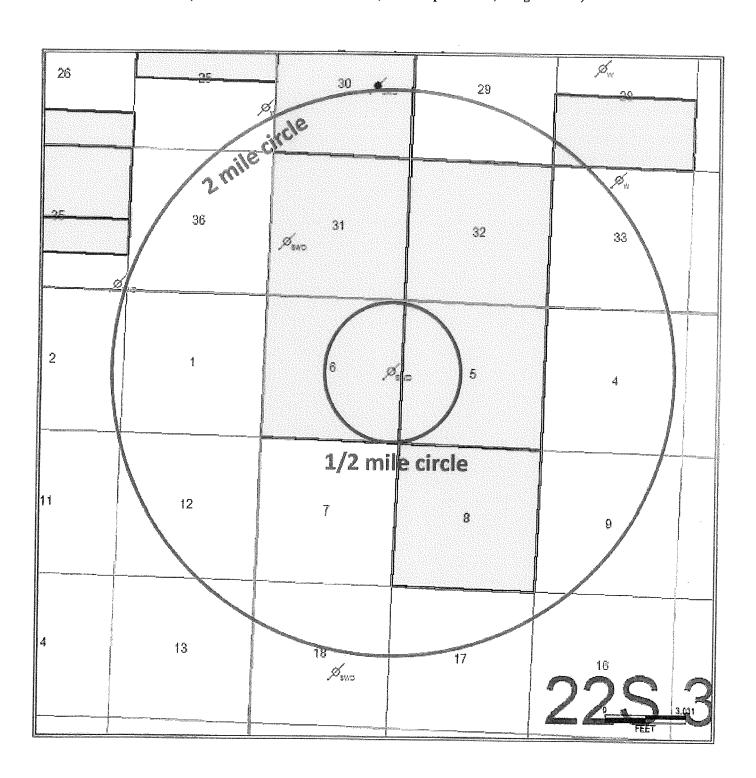
I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

David Harwell

Attachment

The Quick Shot Unit SWD Well No.1 in Sec 2 (370' FEL & 2667' FNL Section 6, Township 22 South, Range 33 East)



APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance XXX Disposal Storage 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 ©
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? XXX No (This is not an expansion of an existing project) If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: David Harwell TITLE: Vice President
,	SIGNATURE: Dan's Hannel DATE: 6-25-19
:	E-MAIL ADDRESS: DHarwell@advanceenergypartners.com If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

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.

INJECTION WELL DATA SHEET

OPERATOR: Advance Energy Partners Hat Mesa LLC

WELL NAME & NUMBER: Quick Shot Unit No. 1

WELL LOCATION: 370' FEL & 2667' FNL

FOOTAGE LOCATION

WELLBORE SCHEMATIC (Also Attached)

Quick Shot Unit SWD #1

SWD WELL

SK. 5cc.1722.638; 370 FLE.2307 PK.

RW. 5cc.6,722.638; 370 FLE.2307 PK.

RAD 85

ADVANICE IIII

4

UNIT LETTER

6 22S SECTION TOW

TOWNSHIP

RANGE

33正

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 30" & 24"

Casing Size: 26" & 20"

Cemented with: per vendor proposal

Coding must be set 25' ims
the Ruttler
MUD: Fresh weter only
Gre comment to surface is a
RIMOCD requirement.

Top of Lead: Surface 50% OH excess

30

Top of Tall 2880"

17 Bonsprings
1 John show track

DERINE TO SEE ORIGOLT NAW

3,530

DATOR S

3,500

Ore econometro surd NASOCO requira

Top of Level: Surface 50% Off excess

Top of Tall: 1520'

12 Bowsprings 1 joint thee track

1620

Buntler SURF CSG PT

1,650

OF

Method Determined: Designed

£3

Top of Cement: Surface & Surface

Intermediate Casing

Hole Size: 17.5" & 12.25"

Znd Stage
Top of Lead: Surface
50% excess (OH only)
Tail: 100 ale
no excess

DV Tool & Packer @ +/-3,700' 1 jaint aboe track

TO ANY 10.5 ppg DRIGHT IAW IAW

17 Bonspréng

BRIME

13-3/2"

Top of tend: Surface 50% enters (DH orly) Top of Lall., 47/05 20% enters

[i]

CLT

2-1/4"

12,035 Wodomp 12,035 12,135 TDP OF UNER 12,135 12,235 HITRM 3 CSG PT 12,235

Casing Size:13.625" & 9.875"

Top of Cement: Surface & Surface

Method Determined: Circulation

Production Casing

Hole Size: **8.75**"

Top of Tail: 12999 20% execus

25 Bowsprings

WEIGHTED GUT BRINE TO NIW

| 16,225 | FERN PACKER | 16,235 | 16,235 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,0

1 john shoetnedt OPEN HOLE

BA PPE

1 joint the track Drilling LINER 7-5/8"

Pare 11.5 ppg

PACKER FLUID

INIECTION STRING

17,004

52/4

5-1/2"

17,595

17,585 17,685

ħ

Casing Size: 7.625', 39# P-110 Csg.

Cemented with: per vendor proposal

Top of Cement: Top of Liner

Method Determined: Circulation

or

F3

Total Depth: 17500

Date: 05/30/2019

Injection Interval

Open Hole 16502 feet To 17,500 feet (Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 5 1/2" HCP-110 x 5" HCP-110

Lining Material: Plastic Coated

Type of Packer: Nickel plated 10K double grip retrievable or 10K nickel plate permanent or Weatherford Arrow Set Injection Packer

+/-16225
Depth:
Setting
acker

N/A
Ž
Other Type of Tubing/Casing Seal (if applicable):

Additional Data

Is this a new well drilled for injection? XXX YesNo	If no, for what purpose was the well originally drilled?	
ij		

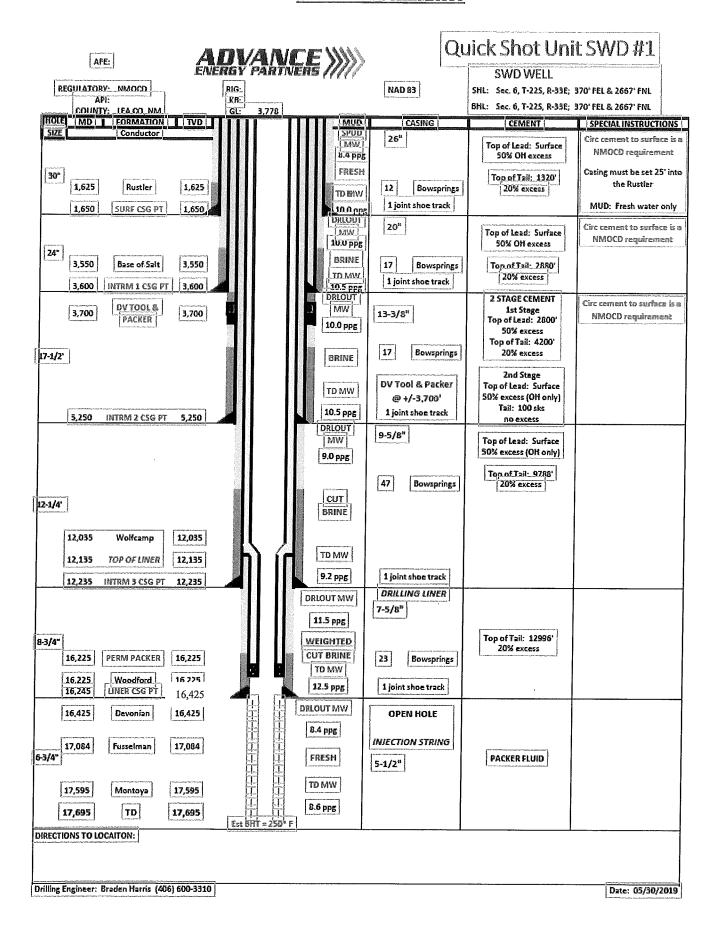
- 2. Name of the Injection Formation: **Devonian Silurian**
- 3. Name of Field or Pool (if applicable): No
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No 4;
- Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: 5

T / Brushy Canyon 8,450 – 8,500 T/ 2nd Bone Sand 10,400- 10,550 T / 3rd Bone Sand 11,600 – 11,700

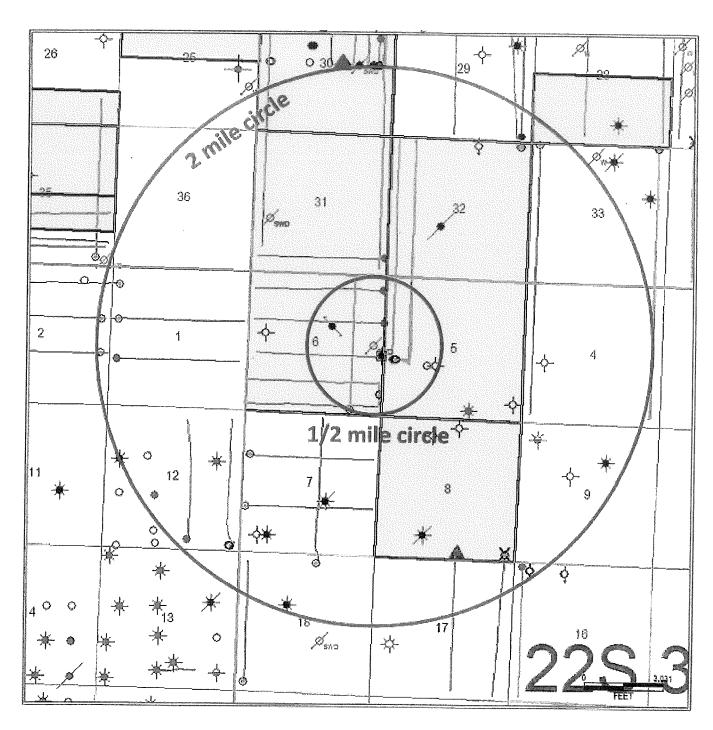
T Wolfcamp: 11,900 – 12,950 T / Penn: 12,700 –12,900

1 / Penn: 12,700 -12,900 T / Morrow 13,700 — 14,000

WELLBORE SCHEMATIC



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.

No wells penetrate the proposed disposal interval within a half or 1mile area of review

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(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.
- 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.

Quick Shot Unit SWD No. 1 Estimated Tops:

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'

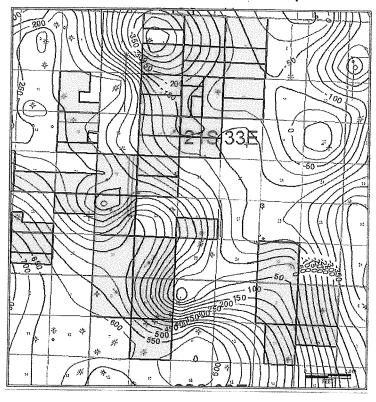
The injection zone is the Devonian/Silurian/Upper Ordovician, a mixture of non-hydrocarbon bearing limestones and dolomites estimated from 16,425' to 18,150'. Any underground drinking water sources will be shallower than 1565', the estimated top of the Rustler Anhydrite.

Geoscience Validation

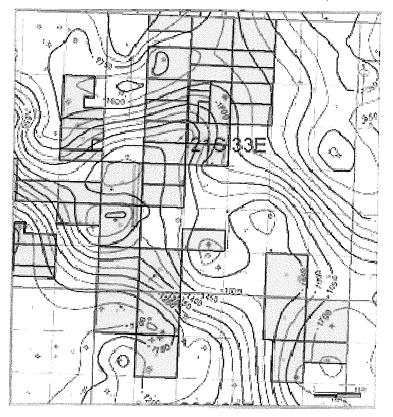
NAME: Donald E. Glover	TITLE: President of MVG America LLC
SIGNATURE: May ()	DATE: <u>6/25-//9</u>

Capitan Reef Basement

Top Capitan Reef SSTVD Structure Map



Base Capitan Reef SSTVD Structure Map



20 to 40 Gallons per feet of 20% HCL acid. The estimated open hole footage is between 1000' – 1500'.

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

Lab®

SOURCE ZONE

IE SPRING										Lab ID		
API No	300250	2429								Sampl	e ID	4916
Well Name	LEA U	TIV					005			Sample	No	
Location	ULSTR	12	20	s	34	E		Lat / Long	32.58504	-10	3.51106	
		1980	S	19	980	E				County	Lea	
Operator	when s	ampled)									
		Fiel	d	LEA	À					Unit J		
San	ple Date)						Analysis Date				
		San	nple S	oura	DST				Depth (i	if known)		
		Wat	er Ty	р					•	·		
ph								alkainity	_as_caco3_i	mg <u>L</u>		
ph_tem	p_F							hardnes	s_as_caco3_	mgL		
specific	gravity							hardnes	s_mgL			
specific	gravity_t	temp_F						resistivit	y_ohm_cm			
tds_mg	Ļ				2	20260	6	resistivit	y_ohm_cm_t	emp_		
tds_mg	180C							conducti	vity			
chloride	_mgL				1	1810	0	conducti	vity_temp_F			
sodium	_mgL							carbonat	e_mgL			
calcium	_mgL							blearbon	ate_mgL		5196	
lron_mg	L							sulfate_n	ngL.		992	
barium_	mgL							hydroxida	_mgL			
magnes	um_mgL	-						h2s_mgL				
potassiu	m_mgL							co2_mgL				
strontium	_mgL							o2_mgL				
mangan	se_mgL	-						anionrem	arks			

SOURCE ZONE

007

Ε

DELAWARE

Lab ID

API No

3002508367

Sample ID

Well Name

BELL LAKE UNIT

Sample No

Location ULSTR 01

Lat/Long 32.25143

-103.51924 Lea

4347

660

S 33 Ν 660 E

County

Operator (when sampled)

Field

24

SWD

Unit 1

Sample Date

Analysis Date

Sample Sourc UNKNOWN

Depth (if known)

Water Typ

ph

alkafnity_as_caco3_mgL

ph_temp_F

hardness_as_caco3_mgL

specificgravity

hardness_mgL

specificgravity_temp_F

resistivity_ohm_cm

tds_mgL

87686

53920

resistivity_ohm_cm_temp_

tds_mgL_180C

conductivity

chloride_mgL

conductivity_temp_F

sodium_mgL

calcium_mgL

carbonate_mgL

blcarbonate_mgL

391

iron_mgL

sulfate_mgL

749

barium_mgL

hydroxide_mgL

magneslum_mgL

h2s_mgL

potassium_mgL

co2_mgL

strontium_mgL

o2_mgL

manganese_mgL

anionremarks

Remarks

DISPOSAL ZONE

DEVONIAN

Lab (D

API No.

3002508483

Sample ID

5733

Well Name

BELL LAKE UNIT

006

Sample No

Location ULSTR 06

S 34 E

Lat / Long 32.32821

-103.50663

660 \$ 1980 E

23

County Lea

Operator (when sampled)

Field

BELL LAKE NORTH

Unit O

Sample Date

Analysis Date

Sample Source HEATER/TREATER

Depth (if known)

Water Type

ph

7

71078

42200

ph_temp_F

alkalinity_as_caco3_mgL hardness_as_caco3_mgL

specificgravity

hardness_mgL

specificgravity_temp_F

resistivity_ohm_cm

tds_mgL

resistivity_ohm_cm_temp_

tds_mgL_180C

conductivity

chloride_mgL

conductivity_temp_F

_ _

,_

sodium_mgL

carbonate_mgL

500 1000

calcium_mgl. lron_mgl. bicarbonate_mgL

sulfate_mgL

barium_mgL

hydroxide_mgL

magnesium_mgL

h2s_mgL

potassium_mgL

co2_mgL

strontium_mgL

o2_mgL

manganese_mgL

anionremarks

Remarks

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.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

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 09, 2019 and ending with the issue dated June 09, 2019.

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

Business Manager

My commission expires

January 29, 2023

official seal gussie black Notary Public

My Commission Expirer

This newspaper is duly qualified to publish and notices or advertisements within the fight 3. Chapter 167, Laws meaning of Section 3, Chapter 167, Laws of LEGALS

LEGAL NOTICE JUNE 9, 2019

Notice for Quick Shot SWD

Notice for Quick Shot SWD

Advance Energy Partners
Hat Mesa LLC, 1490
Westhelmer RD, STE 950
Houston, TX, 77077, is Illing
Form C-108 (Application for
Authority to Inject) with the
N e w M exico O III
Conservation Division
seeking administrative.
approval for a salt water
disposal well. The proposed
well, the Quick Shot SWD
No. 1 will be located 370'
FEL & 2667' FNL, Section 6,
Township 22 South, Range
33 East, Lea County, New
Mexico. Produced water
from the area production will
be commercially disposed
into the Devonian, Silurian,
and Upper Ordovicion
formation at a depth of +/16,000' to 17,500' at a
maximum surface pressure
of 3285 psi and rate limited
only by pressure.

Interested parties wishing to

Interested parties wishing to object to the proposed application must file with the N e w M e x i c o 0 i 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 Advance Energy Partners Vide President of Engineering 832-672-4700 its 134269

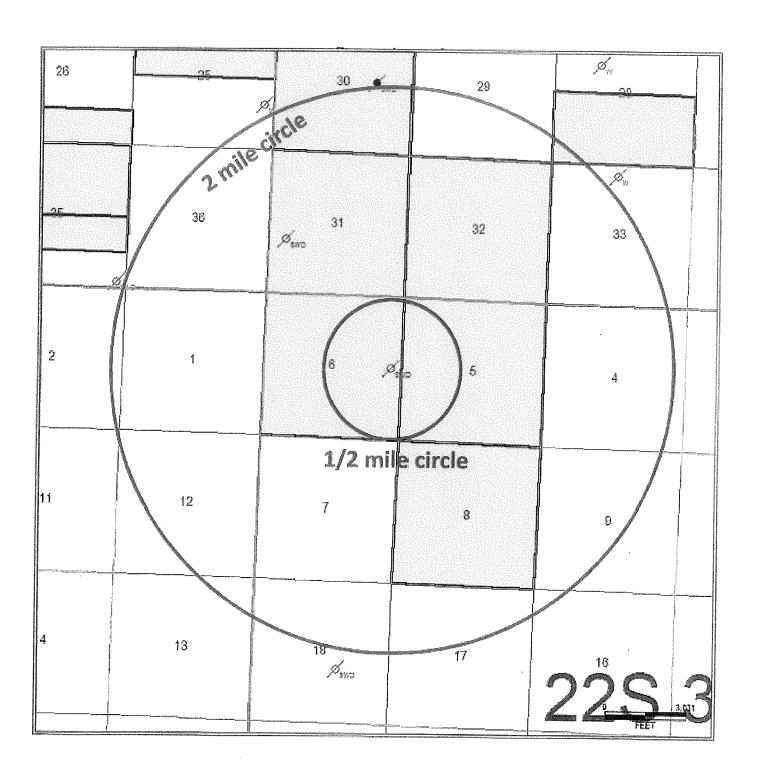
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PAUL BURDICK ADVANCE ENERGY PARTNERS 11490 WESTHEIMER RD, STE 950 HOUSTON, TX 77077

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ Complete Items 1, 2, and 3.	A. Signature
Print your name and address on the reverse so that we can return the card to you.	-X ☐ Agent ☐ Addressee
Attach this card to the back of the mailpiece,	B. Received by (R) inted Name) C. Date of Delivery
or on the front if space permits,	Clarista Cabezurale le livilia
Article Addressed to:	D. Is delivery address different from Item 1? Yes
Bureau of Land Management Carlsbad Field Office	If YES, enter delivery address below:
620 East Greene Street	
Carlsbad, NM 88220	
Quick Shot SWD	
	3. Service Type ☐ Priority Mail Burg: ● ☐ Adult Signature ☐ Registered Mail ♥
	☐ Adult Signature Restricted Delivery. ☐ Registered Mall Restricted
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PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return Receipt
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or on the front if space permits.	5400 ho 29
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Occidental Permian Ltd.	If YES, enter delivery address below: □ No
5 Greenway Plaza	
Houston, Texas 77046	
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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.



	DELAWA	ARE BASIN - West Te	xas Permian	
1,400,000 FT	27	26	25	30
0.0	Marathon	Advance Energy	Marshall & Winston	
33	34	35	36	31
	Wolfcamp Title et al	Merchant Livestock	State of NM	
4	3	Advance Energy	cog	6
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