AE Order Number Banner

Application Number: pMSG2315753839

SWD-2541

FAE II Operating LLC [329326]

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X (SWD-793) Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: FAE II Operating, LLC ADDRESS: 11757 Katy Freeway, Suite 725, Houston, TX 77079 CONTACT PARTY: Jessica LaMarro PHONE: (832) 706 0049
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	 Attach data on the proposed operation, including: Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
*	NAME: Jessica LaMarro SIGNATURE: DATE: 3/3//2012 E-MAIL ADDRESS Jessica@faenergyus.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.

ELL NAME & NU ELL LOCATION:	UMBER:					
	FOOTAGE LOCATION WELLBORE SCHEMATIC	UNIT	LETTER	SECTION WELL CONSTR		RANG
		Surface (Casing			
	Hole Size:		Casing Size:_			
	Cemented with:	SX.	or		ft ³	
	Top of Cement:		Method Deter	mined:		
		Intermediat	e Casing			
	Hole Size:		Casing Size:_			
	Cemented with:	SX.	or		ft ³	
	Top of Cement:		Method Deter	mined:		
		Production	n Casing			
	Hole Size:		Casing Size:_			
	Cemented with:				ft ³	
	Top of Cement:		Method Deter	rmined:		
	Total Depth:					
		Injection 1	<u>Interval</u>			
		feet	to			

INJECTION WELL DATA SHEET

ubir	ng Size:Lining Material:
Тур	e of Packer:
Pac	ker Setting Depth:
Oth	er Type of Tubing/Casing Seal (if applicable):
	Additional Data
1.	Is this a new well drilled for injection?YesNo
	If no, for what purpose was the well originally drilled?
2.	Name of the Injection Formation:
3.	Name of Field or Pool (if applicable):
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.
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Received by OCD: 6/6/200313table5412hison Federal #002 III. Well Data

Plantation ID Number: 22

Lease Type: Federal Range:

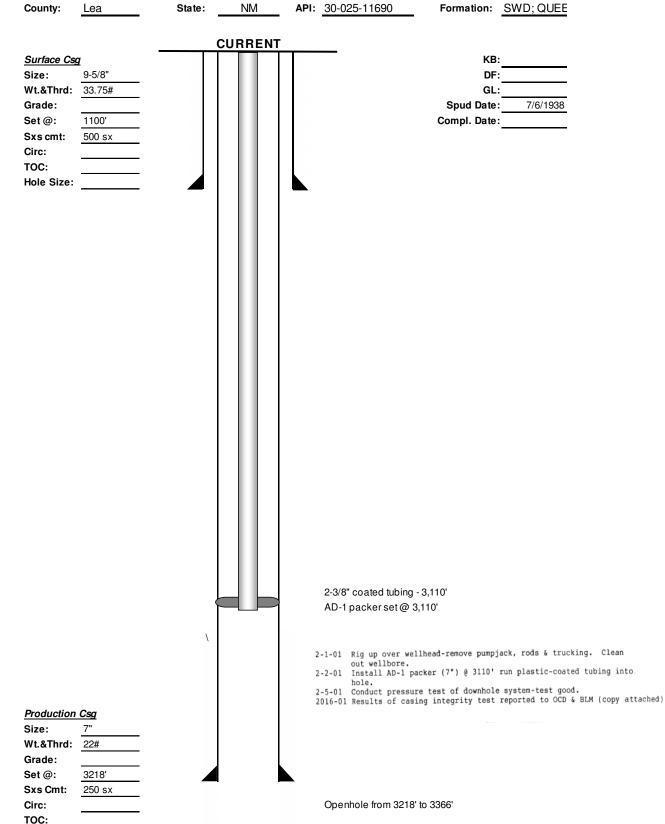
37E

Page 6 of 31

Location: 2310' FSL & 990' FEL County: State: Lea

Sec: NM Township: 25S

API: <u>30-025-11690</u>



TD 3366'

	bbl/ft	cf/ft	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID(in)	Drift (in)
3110' of 2-3/8" 4.6# J-55 coated	0.0039	0.0217	72000	7700	8100	1.995	

Hole Size:

Received by OCD: 6(6/2023 3: 49:54 PM Federal #002

Lea

County:

2310' FSL & 990' FEL Location:

State:

Plantation ID Number: 22 Township: 25S NM **API:** 30-025-11690

Federal Lease Type: 37E Range:

Formation: SWD; QUEE

PROPOSED Surface Csg KB: 9-5/8" Size: DF: Wt.&Thrd: 33.75# GL: Grade: Spud Date: 7/6/1938 Set @: 1100 Compl. Date: Sxs cmt: 500 sx Circ: TOC: Hole Size: 2-3/8" coated tubing - 3,110' AD-1 packer set @ 3,110' Production Csg Size: Wt.&Thrd: Grade: Set @: 3218' Sxs Cmt: Openhole from 3218' to 3366' Circ: TOC: Hole Size:

TD 3366'

<u> </u>	10(11)	Collapse (psi)	Burst (psi)	<u>I ensile (ibs)</u>	ct/ ft	bbl/ft	
	1.995	8100	7700	72000	0.0217	0.0039	110' of 2-3/8" 4.6# J-55 coated
	1.995	8100	7700	72000	0.0217	0.0039	110' of 2-3/8" 4.6# J-55 coated

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: <u>FAE II Operating, LLC</u> API NUMBER: <u>30-025-11690</u>

WELL NAME & NUMBER: Harrison Federal #2

WELL LOCATION: 2310 FSL 990 FEL I 22 25S 37E FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

OUTAGE EGGATION OWN LETTER SECTION

WELL CONSTRUCTION DATA

Surface Casing

Hole Size:	11"
Casing Size:	_ 9-5/8"_
Depth Set:	1100'
Top of Cement:	surface_
Cement with	_500 sx_
Method Determined:	circulated

Production Casing

Hole Size:	_ 8-7/8"
Casing Size:	7"
Depth Set:	3218'
Top of Cement:	
Cement with	<u>250 sx</u>
Method Determined:	

Proposed Injection Interval

Queen Formation

<u>~3218'</u> to <u>3366'</u>

Zone will be Open Hole

Tubing

2-3/8''
Cement_
AD-1_
~3110'

Additional Data

- 1. NOT a new well.
 - 1. Originally an oil well in the LANGLIE MATTIX;7 RVRS-Q-GRAYBURG Pool.
 - 2. Currently an SWD well.
- 2. Injection Formation: Queen Formation
- 3. Pool: [96117] SWD;QUEEN
- 4. Well has NOT been perforated within more than one zone.
- 5. Overlying & Underlying Zones:
 - 1. Overlying Oil/Gas Zone: Seven Rivers
 - 1. Depth of Zone: +/- 2833'
 - 2. Underlying Oil Zone: Grayburg
 - 1. Depth of Zone: +/- 3600'

Well Name: Harrison Federal #002

Objective: Re-establish as injector

Field: Jal

Surface Location: 2310' FSL & 990' FEL

Sec 22, Township 25 S, Range 37 E

County, State: Lea, NM

API: 30-025-11690

Engineer: Garret Johnson 918-697-8311 or 832-706-0056 garret@faenergyus.com

Well Information:

Casing:

Casing Size	Weight lb. ft.	Depth Set	Cement
9.625	33.75	1100	500 sx-circ
7.000	22	3218	250 sx-circ
Openhole		3366	

Perforations:

Тор	Bottom	SPF	Status
3218	3366	Openhole	Open

Safety:

Please be aware of your surroundings and follow safe work practices. It is your job to shut down the job in the event of an unsafe situation. Prior to any work, conduct a meeting addressing the safety concerns of the operations.

Procedure:

- 1. Please inspect lease roads to location to assure adequate access for work activities. Function test the wellhead valves to assure proper operation during the procedure. Locate and inspect rig anchors, test or replace anchors if necessary.
- 2. Conduct MIT test to ensure integrity of casing prior to injection. Pump fluid to capacity of backside and pressure to 500 psi. Monitor pressure with a chart recorder.

V. Exhibit A shows 14 unique well locations within a ½ mile radius of the Harrison Federal #2, and 354 unique well locations within a 2 mile radius of said well.

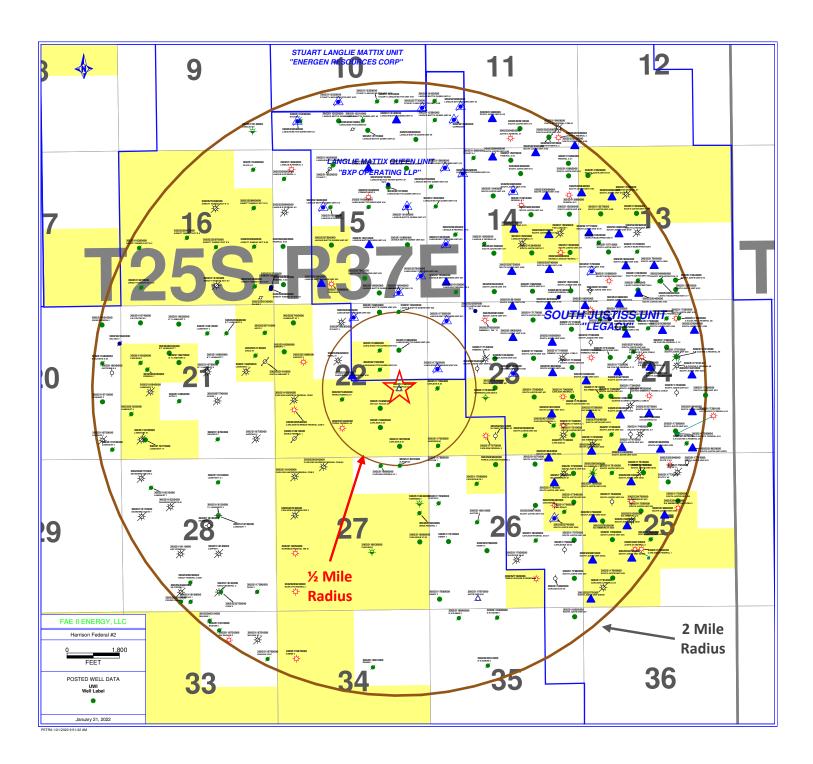


Exhibit A

<u>≤</u>

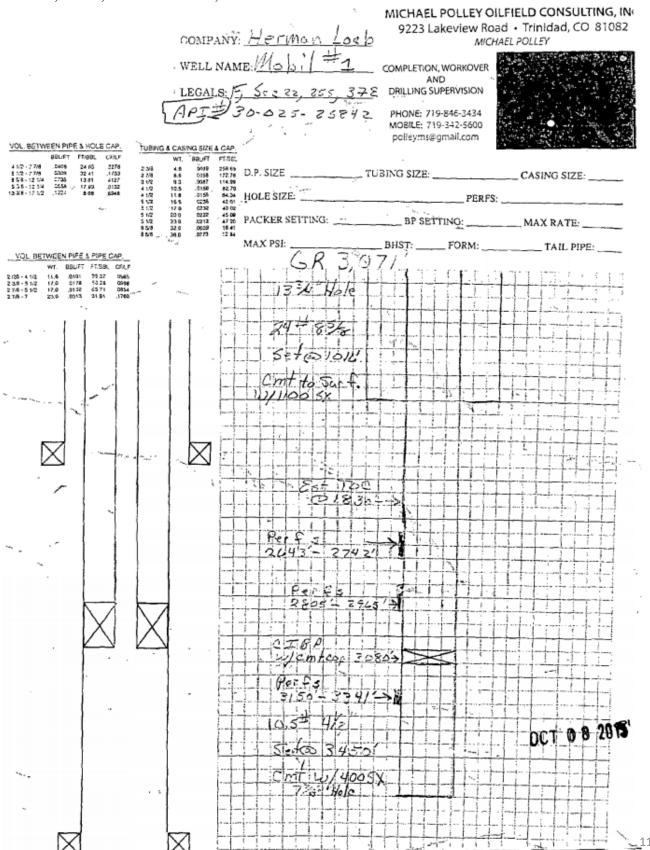
drilled, location, depth, and completion date of wells within a % mile radius are displayed in Exhibit B. The plugged well wellbore diagrams are displayed in Exhibit C1-C7. Following Exhibit A, the tabulation of the wells with each well's type, construction, date

Exhibit B

30025274490000	30025117020000	30025258420000	30025272450000	30025116970000	30025233000000	30025117050000	30025116960000	30025116880000	30025116890000	30025117090000	30025221550000	30025116990000	30025116900000	UWI/API	1/2 Mile Radius
ENDEAVOR ENERGY RESOURCES, LP	PERMIAN RESOURCES INC	HERMAN L. LOEB LLC	ENDEAVOR ENERGY RESOURCES, LP	FAE II Operating LLC	BXP Operating, LLC	LINN OPERATING, LLC.	FAE II Operating LLC	LINN OPERATING, LLC.	BXP Operating, LLC	SANTA FE ENERGY RESOURCES INCORPORATED	PRIZE OPERATING COMPANY	FAE II Operating LLC	FAE II Operating LLC	OPERATOR	
TERRA FEDERAL #2	HARRISON #1	MOBIL #1	TERRA FEDERAL #1	CARLSON A #1	LANGLIE MATTIX QUEEN UNIT #32 3620	LANGLIE MATTIX QUEEN UNIT #35 3360 PLUGINJ	CARLSON A #2	LANGLIE MATTIX QUEEN UNIT #40 3345 PLUGOIL	LANGLIE MATTIX QUEEN UNIT #34 3380	CARLSON A #3	LANGLIE MATTIX QUEEN UNIT #33 3344 PLUGOIL	Harrison Federal #3	Harrison Federal #2	WELL LABEL	
3470	3347	3450	3470	3327	3620	3360	3354	3345		3345	3344	3403	3366	TD V	
GAS	3347 PLUGOIL	3450 PLUGGAS	3470 PLUGOIL	OIL	INJECT	PLUGINJ	OIL	PLUGOIL	OIL	PLUGOIL	PLUGOIL	OIL	SWD	WELL TYPE	
[79240] JALMAT;TAN-YATES-7 RVRS (GAS)	Plugged	Plugged	Plugged	[37240] LANGLIE MATTIX;7 RVRS-Q-GRAYBURG	[37240] LANGLIE MATTIX;7 RVRS-Q-GRAYBURG	Plugged	[37240] LANGLIE MATTIX;7 RVRS-Q-GRAYBURG	Plugged	[37240] LANGLIE MATTIX;7 RVRS-Q-GRAYBURG	Plugged	Plugged	[37240] LANGLIE MATTIX;7 RVRS-Q-GRAYBURG	[37240] LANGLIE MATTIX;7 RVRS-Q-GRAYBURG ; [96117] SWD;QUEEN	CURRENT ZONE	
2379.9	2373.8	2319.7	1998.9	1979.2	1667.3	1484.8	1480.9	1480.0	1328.0	1322.2	935.0	934.6	0.0	Distance(FT) from Harrison Federal #2	
6/7/1981	2/2/1938	3/9/1978	2/13/1981	9/30/1938	10/10/1969	4/18/1939	10/2/1938	4/5/1938	2/16/1939	12/13/1938	6/15/1967	8/15/1938	7/6/1938	SPUD DATE	
4/6/1982	3/10/1938	5/3/1978	5/1/1981	11/2/1938	11/18/1969	5/9/1939	11/18/1938	5/3/1938	3/17/1939	1/15/1939	5/12/1968	9/11/1938	7/29/1938	SPUD_DATE COMP_DATE TOWNSHIP RANGE SECTION	
25S	258	258	258	258	255	255	258	258	258	258	258	258	258	TOWNSHIP	
37E	37E	37E	37E	37E	37E	37E	37E	37E	37E	37E	37E	37E	37E	RANGE	
22	23	22	22	22	22	23	22	22	22	23	22	22	22	SECTION	
2310 FWL 990 FSL	330 FWL 330 FSL	2180 FWL 1980 FNL	2310 FWL 1980 FSL	990 FEL 330 FSL	2600 FEL 2530 FNL	330 FWL 2310 FNL	1650 FEL 990 FSL	1650 FEL 1650 FNL	990 FEL 1650 FNL	330 FWL 2310 FSL	1650 FEL 2310 FNL	1650 FEL 1650 FSL	990 FEL 2310 FSL	FOOTAGE	

MOBIL #1

API# 30-025-25842 2180 FWL 1980 FNL, Sec 22, T25S, R37E Lea Co., NM



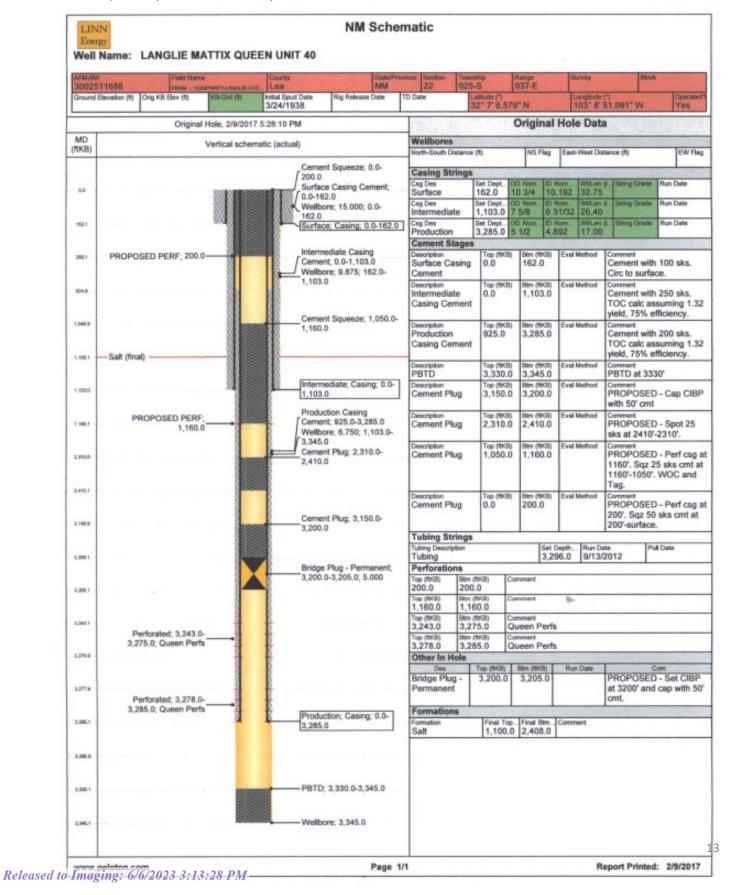
LANGLIE MATTIX QUEEN UNIT #35

API# 30-025-11705 330 FWL 2310 FNL, Sec 23, T25S, R37E Lea Co., NM

Wellbore Diagram Lease & Well No. Langlie Mattix Queen Unit #35 Pormer Name Lea County, New Mexico Field Name Langlie Mattix County & State 30-025-11705 Location 2,310' FNL & 4,950' FEL; T: 25S R: 37E Sec: 22 API No. K.B. Elevation D.F. Elevation Ground Level 3,076 Current Completion Tubing Detail: Surface Casing Size (QD) 8 5/8* 32.0# Weight Depth 1,097 <u>Grade</u> Sx. Cmt 600 sx TOC @ Surface Intermediate Casing 8-5/8" Set @ 1,097 Size (OD) Weight Depth Grade Sx. Cmt. TOC @ Perf & sqz cmt to surf Production Casing Size (OD) Weight 15.0# 3.240 Depth Grade Sx. Cmt. 200 sx TOC@ 1,785 Calc TOC @ 1,758' P&A Procedure: POOH w/ injection tbg and pkr. RIH & set CIBP at 3058' & cap w/ 35 sxs cmt. WOC & tag top of CIBP no lower than 3008'. Circ the hole with mud laden fluid. RIH & set a 25 sx cmt plug at 2310'. WOC & tag no lower than 2210'. 25 sx cmt plug at 2310' Perf the 6" csg at 1170' & sqz cmt in/out of csg to surface Set the dry hole marker & clean up location. Formation Record Depth Top of Salt 1,120 CIBP @ 3058' capped w/ 35 sxs cmt Base of Salt 2,260 2,470 Yates Current Perforations: 7 Rivers 2,730' Top Bot. Ft. Queen 3,110 3108 3239 131 Penrose 3,256 OН 3240' 3417 5-1/2" Set @ 3,240' Open Hole f/ 3,240 - 3,460' Plug Back Depth Total Depth 3,460

LANGLIE MATTIX QUEEN UNIT #40

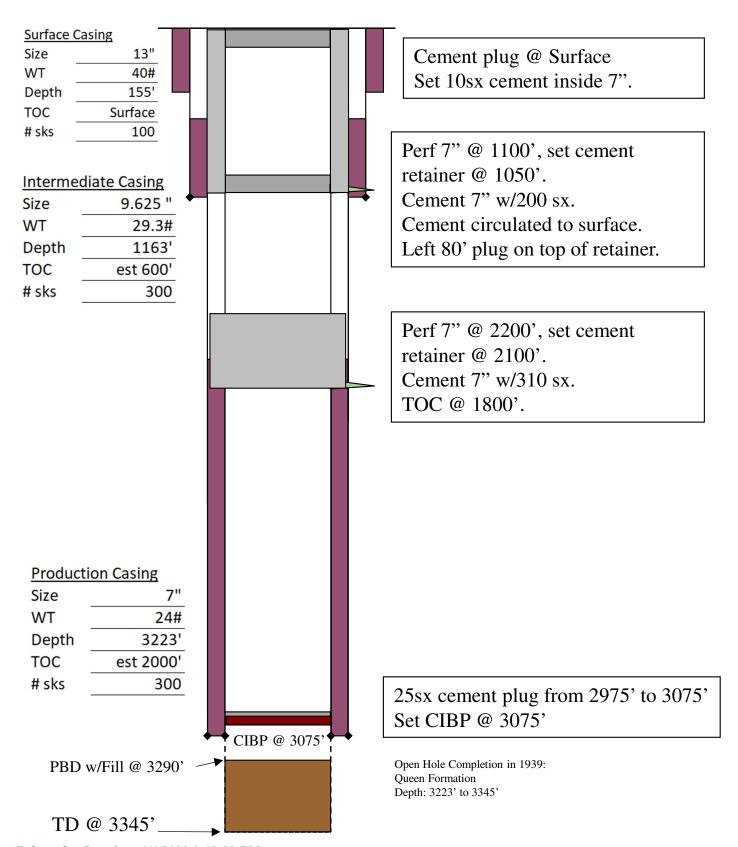
API# 30-025-11688 1650 FEL 1650 FNL, Sec 22, T25S, R37E Lea Co., NM



HARRISON #1	
	COMPANY PERMIAN RESOURCES INC
API# 30-025-11702	1/ 1/ 2/ - 1/
330 FWL 330 FSL ,	WELL HARRISON -1
Sec 23, T25S, R37E Lea Co., NM	FIELD LANGLIE MATTIX (QUAN)
	LOCATION 330 FSL \$330 FHL (M)
	SECTION 23, 7255, R37E
	COUNTY
1/1-12:	STATEN M
(· · · · · · · · · · · · · · · · · · ·	ELEVATIONS: KB
	DF 3 b 4 7
	Gt
ASTRUMED N/R	COMPLETION RECORD
	7/2/20
	SPUD DATE 2/3/38 COMP. DATE 3/3/38
	CASING RECORD
3654 0 95/6 OD Set @ 1/96 w/	9 5/8, 86 /FT @ 1/96 CMT'S N/ 500 SX
Set @ 1196' w/	7", 22 "/FF 032 40' CMFO N/ 400 SY
SOL HOLES TOC STREFACE	PERFORATING RECORD
E 1246') STAGE TOOL Q 1275'	PERT 3215-3236'
\	7200 0113-3235
(STIMULATION
· (DH 3240-3347 120 OF MITLE
1993' 83/4" Hole Size	PENET 3268.3735 160 gts HIPLD
1/1::11	/
365X Toc 65Te	IP .
7200' - to: ZISO'	GOR GR
· · · · · · · · · · · · · · · · · · ·	TP CP
\. _s }	CHCKE TUBING ®
· {	REMARKS
/• •\	8/2/61 Sof 3295-3339' OH \$ 3213-3235' PERF W
/. 10	20,000 gel Ref on +
)	30,000 + 20/40 SAND
)° ' -	2 1-1-2
\frac{1}{1} \]	SI 2/27/87
35'C4T	
C15 P P 219.35	hicing.
)•	Ponts QC:
GR API SEMILESS Set @ 3240' w/	
Toc sx	
6/4" Hole	
Size) Clustoc 1150	
7 10579 1605X	
TD 33A1	
j-	

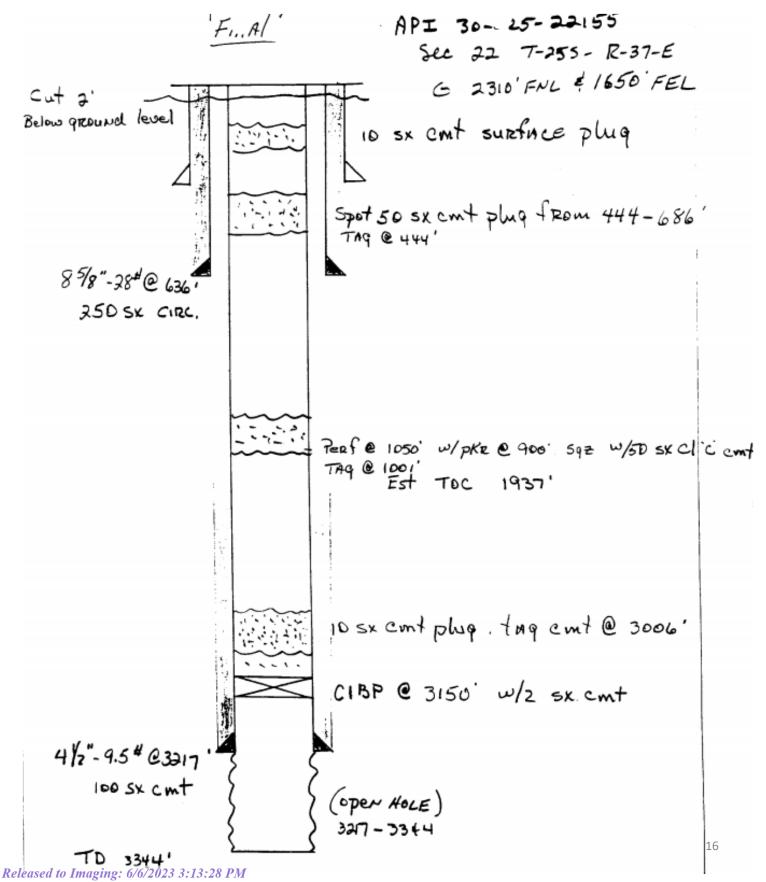
CARLSON A #3

API# 30-025-11709 330 FWL 2310 FSL, Sec 23, T25S, R37E Lea Co., NM



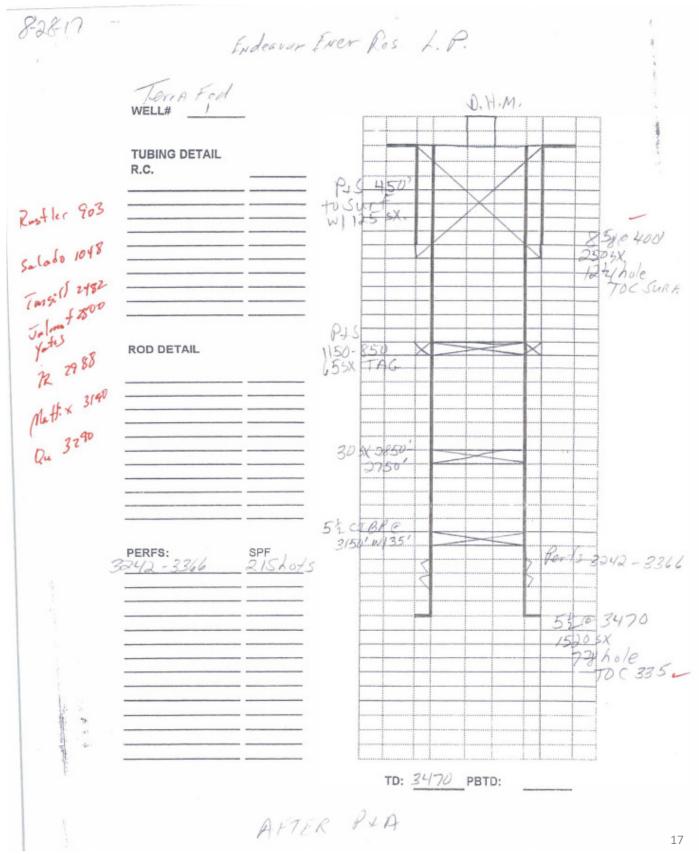
LANGLIE MATTIX QUEEN UNIT #33

API# 30-025-22155 1650 FEL 2310 FNL, Sec 22, T25S, R37E Lea Co., NM



TERRA FEDERAL #1

API# 30-025-27245 2310 FWL 1980 FSL, Sec 22, T25S, R37E Lea Co., NM



VII. Proposed Injection Operation

- 1. Average daily volume of fluids: 350 barrels of water per day. Maximum: 600 barrels of water per day.
- 2. The system will be a closed system: On-lease water and water only from offset company lease.
- 1. Average injection pressure will be ~1200 psi. Maximum: 2000 psi.
- 2. The water source will be produced water from within the lease and offset company lease.
- 3. Injection will be into the Queen formation.

VIII. Geologic Data

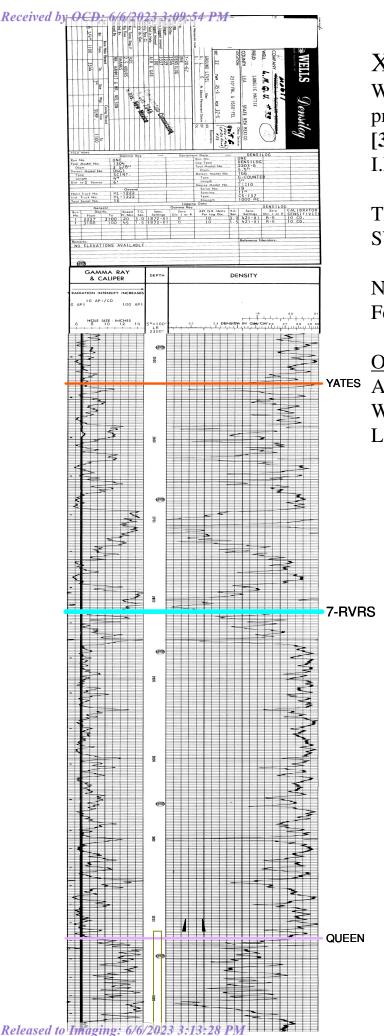
The SWD will be disposing into the SWD; QUEEN [96117]. The portion that will be injected consists mainly of sandstones and dolomitic sandstones.

Formation Tops Are:

Formation	Offset Top (LANGLIE MATTIX QUEEN UNIT #33) 30-025-22155	Contents
Alluvium	GL	Fresh Water
Rustler	909	Anhydrite
Salado (top of salt)	1101	Salt
Tansil (base of salt)	2388	Gas, Oil, & Water
Yates	2530	Gas, Oil, & Water
Seven Rivers	2816	Gas, Oil, & Water
Queen	3226	Gas, Oil, & Water
SWD Interval	3200-3344	Gas, Oil, & Water
Total Depth	3344	

IX. Proposed Stimulation Program

The well will be acidized with 3,000 gal 15% HCl



X. Logging and Test Data

Well originally completed as an oil well producing from the Langlie Mattix Pool [37240] in 1938. Open Hole (3218'-3366') I.P.F 28 BOPH 8/9/1938.

The Harrison Federal #2 was converted to an SWD; QUEEN [96117] well in 2001.

No wireline log is available for the Harrison Federal #2, but a close offset is provided.

Offset Well:

API: 30-025-22155 Well Name & Number: LANGLIE MATTIX QUEEN UNIT #33

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XI. Chemical Analysis of Fresh Water Wells

According to the New Mexico Office of the State Engineer, there are 2 active water wells within 1 mile of the HARRISON FEDERAL #2 (Exhibit D1a & b). There are no active water wells within a ½ mile radius. The closer of the two, CP 00784, is a 4500' deep well drilled as a secondary recovery water supply well. Water was sourced from the Grayburg and San Andres formations. This water supply well, also known as the South Justiss Unit WSW #3 (30-025-32264), is Temporarily Abandoned and no sample was taken. The second water well, CP 00216, was drilled to 84' MD. It is considered a "shallow water" fresh water well for "Domestic and Livestock use". FAE II Operating, LLC was unable to get a sample of this well.

FAE II Operating, LLC was able to get 2 fresh water samples from residential well locations. A map showing their locations relative to HARRISON FEDERAL #2 can be seen in Exhibit E1. The first sample was taken from 31 Buckle Ln (Lat: 32.137172, Long: -103.147540) and is about 1.53 Miles North from the HARRISON FEDERAL #2. The second sample was taken from 303 S. Willis Rd (Lat:32.072644, Long: -103.140920) and is about 2.96 Miles South from the HARRISON FEDERAL #2. Their analyses can be seen in Exhibits E2 and E3 respectively. A produced water sample of similar water that will be injected was also taken from the Carlson A Battery (Lat: 32.110152, Long: -103.143242°), and its analysis can be seen in Exhibit E4.

XII. Based on the available geologic and engineering data, it has been determined that there is no evidence of open faults or any other hydrologic connection between the injection zone and shallow fresh water sources.

XIII. FAE II OPERATING, LLC, BXP Operating, LLC, ENDEAVOR ENERGY RESOURCES, LP, & LEGACY RESERVES OPERATING, LP, and the BLM are the offset operators. Surface owners are the Willis Family Trust.

XI. Exhibit D1a

Well: Harrison Federal #2

Location: Twn 25S Rge 37E Sec 22

Footages: 990 FEL 2310 FSL

County: Lea

Location For Office of the State Engineer:

NAD 1983 UTM Zone 13

Easting (X): **674974.850** mtrs Northing (Y): **3554672.356** mtrs

Water Wells Within 1 Mile Radius ** 2 ACTIVE **



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 Sub-		Q	Q	Q								Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	thWellDepth	Water Column
<u>CP 00784 POD1</u>		CP	LE	3	4	1	23	25S	37E	675771	3554889*	825	4500	
CP 00216 POD1		CP	LE	2	2	1	22	25S	37E	674353	3555464*	1006	84	

Average Depth to Water:

Minimum Depth: -Maximum Depth: --

Record Count: 2

Basin/County Search:

Basin: Capitan County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 674974.85 Northing (Y): 3554672.356 Radius: 1609.3

*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.

1/31/22 9:10 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Well: Harrison Federal #2

XI. Exhibit D1b

Location: Twn 25S Rge 37E Sec 22

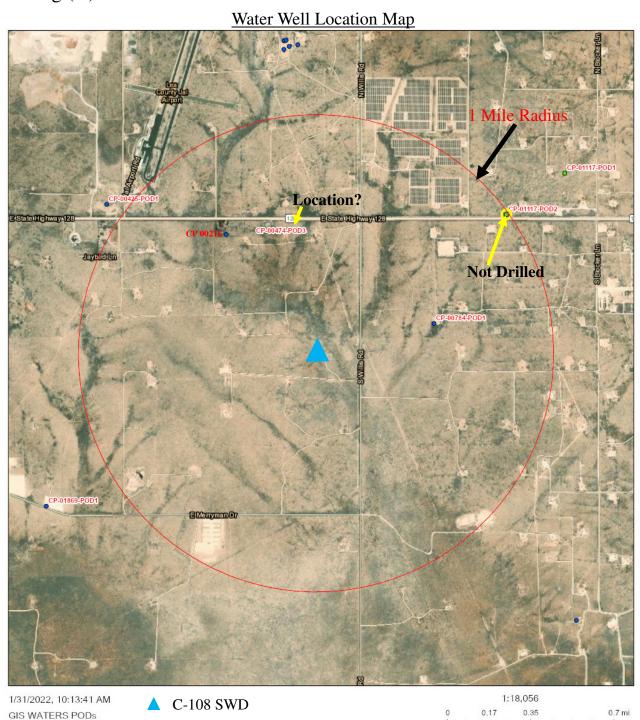
Footages: 990 FEL 2310 FSL

County: Lea

Location For Office of the State Engineer:

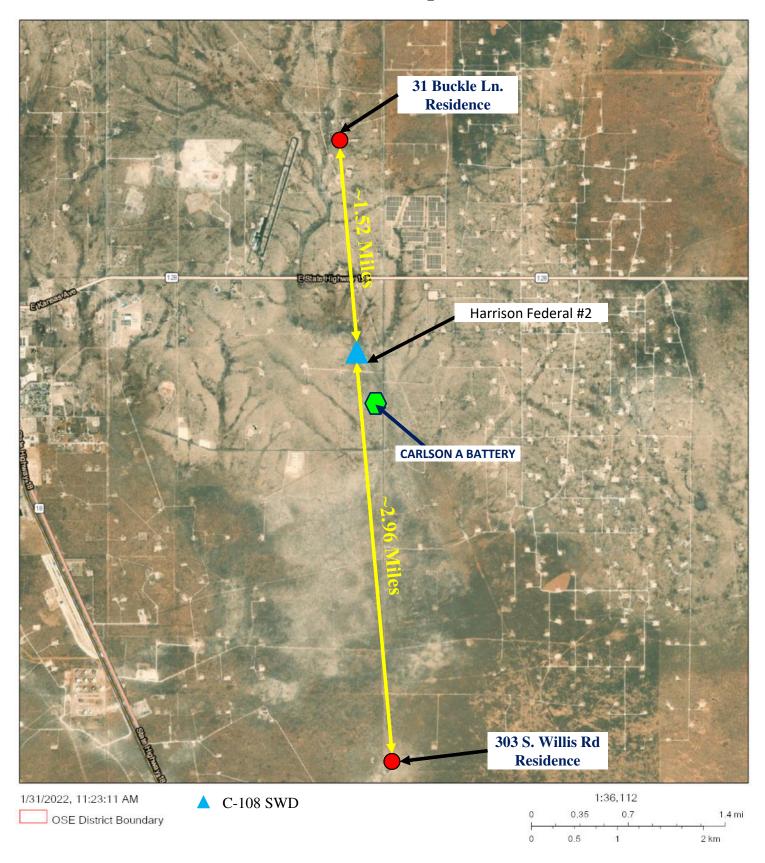
NAD 1983 UTM Zone 13

Easting (X): **674974.850** mtrs Northing (Y): **3554672.356** mtrs



1.1 km

Fresh Water Well Sample Locations





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

FORTY ACRES ENERGY 11777 KATY FREEWAY STE. 305 B HOUSTON TX, 77079 Project: EAST OF JAL
Project Number: NONE GIVEN
Project Manager: JAMES MARTINEZ

Reported: 05-Oct-21 14:17

Fax To:

31 BUCKLE LN RESIDENCE- 32.137172-103.147540 H212702-01 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride*	600		4.00	mg/L	1	1092909	AC	29-Sep-21	4500-Cl-B	
TDS*	2660		5.00	mg/L	1	1092310	AC	30-Sep-21	160.1	

31 BUCKLE LANE: Residential Water Supply Well

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

Reported:

05-Oct-21 14:17



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Analytical Results For:

FORTY ACRES ENERGY 11777 KATY FREEWAY STE. 305 B

HOUSTON TX, 77079

Project: EAST OF JAL
Project Number: NONE GIVEN

Project Manager: JAMES MARTINEZ

Fax To:

303 S. WILLIS RD- MARTIN 32.072644-103.140920

H212702-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride*	92.0		4.00	mg/L	1	1092909	AC	29-Sep-21	4500-Cl-B	
TDS*	684		5.00	mg/L	1	1092310	AC	30-Sep-21	160.1	

303 S. WILLIS RD: Residential Water Supply Well

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Celey D. Keene



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Analytical Results For:

FORTY ACRES ENERGY 11777 KATY FREEWAY STE. 305 B HOUSTON TX, 77079 Project: EAST OF JAL
Project Number: NONE GIVEN
Project Manager: JAMES MARTINEZ

Reported: 05-Oct-21 14:17

Fax To:

CARLSON A BAT - PRODUCED

H212702-04 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride*	15600		4.00	mg/L	1	1092909	AC	29-Sep-21	4500-Cl-B	
TDS*	35800		5.00	mg/L	1	1092907	AC	30-Sep-21	160.1	

CARLSON A BATTERY: 32.110152°, -103.143242° Produced Water Sample

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

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1	State of New Mexico	'n	11757 Katy Fwy, Ste 475
F	301 Dinosaur Trail	H	Houston, TX 77079
]	Santa Fe, NM 87508		
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1	Midland, TX 79705		
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Restricted Delivery	Restricted Delivery	Article Number (Transfer from service label)
Priority Mail Express® Registered Mail™ Registered Mail Restricted New Mail Restricted Specific Confirmation Stonature Confirmation	3. Service Type Adult Signature Certified Mail® Certified Mail® Certified Mail® Certified Mail® Certified Mail®	9590 9402 6453 0346 3976 02
	MAR 2 1 2022	Santa Fe, NM 87508
MOI		State of New Mexico 301 Dinosaur Trail
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☐ Agent☐ Addressee	A. Signature	Complete items 1, 2, and 3. Arint your name and address on the reverse that we can return the card to you.
LIVERY	COMPLETE THIS SECTION ON DELIVERY	DER: COMPLETE THIS SECTION

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 March 13, 2022 and ending with the issue dated March 13, 2022.

Publisher

Sworn and subscribed to before me this 13th day of March 2022.

Black

Business Manager

My commission expires January 29, 2023

GUSSIE BLACK Notary Public - State of New Mexico Commission # 1087526 My Comm. Expires Jan 29, 2023

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

FAE Song, 11757 Katy Freeway, Suite Division (NMOCD) or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa comments Maximum injection pressure The coordinate system for the locations in the table is WGS -tarrison Federal #2 Vell Name NM 87505, well in the table II Operating, about this application, contact within 15 days Queen SWD Reactivation Proposed Injection Zone LLC for an Authorization to Inject for the injection well in the table below. S in the Queen formation at approximately 3,200' total vertical depth announces and rates will be 2310 FSL 990 FEL Legal Description its intent to apply to Houston, TX 77079. Phone 832-706-0057. Objections the operator at FAE II Operating, LLC Attn.: Huxley 2000 psi Township Range Section 84 the New Mexico 37E 2 bpd. 32 1148541 For questions or 0 Conservatio 103,1453650 The

67115951

00264580

MARITZA SANTANA FORTY ACRES ENERGY 11757 KATY FREEWAY, STE 725 HOUSTON, TX 77079

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 224661

CONDITIONS

Operator:	OGRID:
FAE II Operating LLC	329326
11757 Katy Freeway, Suite 725	Action Number:
Houston, TX 77079	224661
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
mgebremichae	None None	6/6/2023