STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION

APPLICATION OF FAE II OPERATING, LLC TO CONVERT PRODUCING WELLS TO INJECTION WELLS FOR WATERFLOOD OPERATIONS, LEA COUNTY, NEW MEXICO.

CASE NO. 22593

HEARING EXHIBITS

Exhibit A	**Self-Affirmed Statement of Stephen Lehrbass**
A-1	Application & Proposed Notice of Hearing
A-2	Plat of Tracts, Tract Ownership, Pooled Party, Unit Recapitulation
A-3	Area of Review Map
A-4	Application for Authorization to Inject (Form C-108)
A-5	Hearing Notice Letter and Return Receipts
A-6	Affidavit of Publication
Exhibit B	**Self-Affirmed Statement of Charles Hooper**
B-1	Curriculum Vitae
B-2	Type Log
B-3	Structure Map
B-4	Cross-Section
Exhibit C	**Self-Affirmed Statement of Vanessa Neal**
C-1	Curriculum Vitae
C-2	Production Curve
C-3	Incremental Production and Economic Summary

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION

APPLICATION OF FAE II OPERATING, LLC TO CONVERT PRODUCING WELLS TO INJECTION WELLS FOR WATERFLOOD OPERATIONS, LEA COUNTY, NEW MEXICO

CASE NO. 22953

SELF-AFFIRMED STATEMENT OF STEVEN LEHRBASS

1. I am over 18 years of age and am competent to provide this Self-Affirmed Statement. I have personal knowledge of the matters addressed herein. I am the Director of Land at FAE II Operating, LLC ("FAE"). I have previously testified before the New Mexico Oil Conservation Division ("Division") and my credentials as an expert witness in petroleum land matters was accepted and made a matter of record.

2. I am familiar with the application in this case and the land matters pertaining to this application. Copies of the application and proposed notice are attached as **Exhibit A-1**.

3. FAE did not receive notice of any objections to its application.

4. FAE's application seeks an order: (1) authorizing FAE to convert its C. E. LaMunyon Well Nos. 71Y, 73, 74, 75, 76, 77, 80, and 81 ("Wells") from producers to injectors within its C. E. LaMunyon Lease Waterflood Project ("Project") in the McKee zone of the Simpson formation located in Sections 22, 27 and 28, Township 23 South, Range 37 East, Lea County, New Mexico; and (2) authorizing FAE to convert additional wells within the Project from producers to injectors administratively.

5. On August 15, 1967, the Oil Conservation Commission ("Commission") entered Order No. R-3297 in Case No. 3631, approving a waterflood project on the C.E. LaMunyon Lease located in Section 22, Township 23 South, Range 37 East in Lea County. The order authorized the

FAE II OPERATING, LLC
Case No. 22593
Exhibit A

injection of water into the McKee zone of the Simpson formation through the C. E. LaMunyon Well No. 8, located in Unit N, and the C. E. LaMunyon Well No. 10, located in Unit L, both in Section 22, Township 23 South, Range 37 East.

6. On August 30, 1968, the Commission entered Administrative Order No. WFX-299, authorizing the expansion of the Project to include injection operations in the C. E. LaMunyon Well No. 9 in Unit D and the C. E. LaMunyon Well No. 13 in Unit F, both in Section 27, Township 23 South, Range 37 East, Lea County, New Mexico.

7. The approved Project Area is comprised of 320-acres of the following-described Federal lands located in Township 23 South, Range 37 East, Lea County, New Mexico:

Section 22: NW/4SW/4, S/2SW/4
Section 27: NW/4
Section 28: NE/4NE/4

8. FAE proposes to convert the following wells located within the Project Area from producers to injectors within the McKee zone of the Simpson formation:

Well Name (API)	Location within T23S-R36E	Injection interval
C. E. LaMunyon Well No. 71Y (API 30-025-35106)	2305 FNL and 1280 FWL (Unit E) S27-T23S-R37E	9236'-9441'
C. E. LaMunyon Well No. 73 (API 30-025-35059)	1510 FSL and 330 FWL (Unit L) S22-T23S-R37E	9302'-9502'
C. E. LaMunyon Well No. 74 (API 30-025-35060)	1310 FNL and 1515 FWL (Unit C) S27-T23S-R37E	9239'-9440'
C. E. LaMunyon Well No. 75 (API 30-025-35061)	10 FSL and 1505 FWL (Unit N) S22-T23S-R37E	9255'-9460'
C. E. LaMunyon Well No. 76 (API 30-025-35074)	2310 FNL and 2310 FWL (Unit F) S27-T23S-R37E	9185'-9382'
C. E. LaMunyon Well No. 77 (API 30-025-35057)	1330 FSL and 1650 FWL (Unit K) S22-T23S-R37E	9,282'-9,486'
C. E. LaMunyon Well No. 80 (API 30-025-35624)	1500 FNL and 150 FWL (Unit E) S27-T23S-R37E	9321'-9524'
C. E. LaMunyon Well No. 81 (API 30-025-35932)	230 FNL and 150 FWL (Unit D) S27-T23S-R37E	9283'-9484'

9. The "unitized interval" was defined by Order R-3297 as the Teague-Simpson pool, which has a depth of 8,942' MD to 9,475' TD as shown in the C. E. LaMunyon 10 (API:30-025-10830) well log.

10. The Wells were initially drilled as injectors within the McKee zone of the Simpson formation.

11. FAE acquired the Project in 2021 and has been designated operator of the Wells.

12. Production within the Project has been maintained.

13. FAE proposes to convert the Wells from producers to injectors for waterflood operations and plans to inject water through a closed system of perforations at depths of 9,185' to 9,524' within the McKee zone of the Simpson formation in the Teague-Simpson Pool (Code 58900). FAE acquired the Project in June 2021 and has been designated operator of the Wells.

14. **Exhibit A-2** contains a plat of the Unit that identifies the ownership interests by tract and includes applicable lease numbers.

15. **Exhibit A-3** is a map of the Project that depicts the injection wells and producing wells.

16. **Exhibit A-4** includes a copy of FAE's Application for Authorization to Inject (Form C-108). I am generally familiar with the content provided in the Form C-108.

17. Pages 31-38 of Form C-108 contain location maps depicting the proposed Wells and other wells that penetrate the proposed injection interval within each ½ mile area of review. Pages 40-47 of Form C-108 provide detailed information regarding the wells within the areas of review. Pages 49-83 of Form C-108 provide specifications and wellbore schematics for plugged wells within a ½ mile radius of each Well.

18. Page 109 of Form C-108 identifies the affected parties entitled to notice.

19. FAE conducted a diligent, good-faith effort to identify the correct addresses of persons entitled to notice and has complied with the Division's notice requirements.

20. Notice of the Division's hearing was provided to all affected parties, including the Bureau of Land Management, at least twenty (20) days prior to the hearing date. A sample of the hearing notice letter and the associated return receipts are attached as **Exhibit A-5**.

21. Notice of the hearing was also published more than ten (10) business days prior to the hearing date. The affidavit of publication is attached as **Exhibit A-6**.

22. The exhibits referenced above were either prepared by me or under my supervision or were compiled from company business records.

23. In my opinion, the granting of FAE's application would serve the interests of conservation, the prevention of waste, and the protection of correlative rights.

24. I understand this Self-Affirmed Statement will be used as written testimony in this case. I affirm that my testimony in paragraphs 1 through 23 above is true and correct and is made under penalty of perjury under the laws of the State of New Mexico. My testimony is made as of the date handwritten next to my signature below.

Steven Lehrbass

2-24-2022
Date

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION

APPLICATION OF FAE II OPERATING, LLC TO CONVERT PRODUCING WELLS TO INJECTION WELLS FOR WATERFLOOD OPERATIONS, LEA COUNTY, NEW MEXICO

Case No. 22593

APPLICATION

Pursuant to 19.15.26.8 NMAC and Oil Conservation Division ("Division") Order Nos. R-3297 and WFX-299, FAE II Operating, LLC ("FAE") (OGRID No. 329326) applies for an order: (1) authorizing FAE to convert its C. E. LaMunyon Well Nos. 71Y, 73, 74, 75, 76, 77, 80, and 81 ("Wells") from producers to injectors within its C. E. LaMunyon Lease Waterflood Project ("Project") in the McKee zone of the Simpson formation located in Sections 22, 27 and 28, Township 23 South, Range 37 East, Lea County, New Mexico; and (2) authorizing FAE to convert additional wells within the Project from producers to injectors administratively. In support of its Application, FAE states the following.

1. On August 15, 1967, the Oil Conservation Commission ("Commission") entered Order No. R-3297 in Case No. 3631, approving a waterflood project on the C.E. LaMunyon Lease located in Section 22, Township 23 South, Range 37 East in Lea County. The order authorized the injection of water into the McKee zone of the Simson formation through the C. E. LaMunyon Well No. 8, located in Unit N, and the C. E. LaMunyon Well No. 10, located in Unit L, both in Section 22, Township 23 South, Range 37 East.

2. On August 30, 1968, the Commission entered Administrative Order No. WFX-299, authorizing the expansion of the Project to include injection operations in the C. E. LaMunyon Well No. 9 in Unit D and the C. E. LaMunyon Well No. 13 in Unit F, both in Section 27, Township 23 South, Range 37 East, Lea County, New Mexico.

FAE II OPERATING, LLC
Case No. 22593
Exhibit A-1

3. The approved Project Area is comprised of 320-acres of the following-described Federal lands located in Township 23 South, Range 37 East, Lea County, New Mexico:

Section 22: NW/4SW/4, S/2SW/4
Section 27: NW/4
Section 28: NE/4NE/4

4. FAE proposes to convert the following wells located within the Project Area from producers to injectors within the McKee zone of the Simpson formation:

Well Name (API: 30-025-)	Location within T23S-R36E	Injection interval
C. E. LaMunyon Well No. 71Y (API 30-025-35106)	2305 FNL and 1280 FWL (Unit E) S27-T23S-R37E	9236'-9441'
C. E. LaMunyon Well No. 73 (API 30-025-35059)	1510 FSL and 330 FWL (Unit L) S22-T23S-R37E	9302'-9502'
C. E. LaMunyon Well No. 74 (API 30-025-35060)	1310 FNL and 1515 FWL (Unit C) S27-T23S-R37E	9239'-9440'
C. E. LaMunyon Well No. 75 (API 30-025-35061)	10 FSL and 1505 FWL (Unit N) S22-T23S-R37E	9255'-9460'
C. E. LaMunyon Well No. 76 (API 30-025-35074)	2310 FNL and 2310 FWL (Unit F) S27-T23S-R37E	9185'-9382'
C. E. LaMunyon Well No. 77 (API 30-025-35057)	1330 FSL and 1650 FWL (Unit K) S22-T23S-R37E	9,282'-9,486'
C. E. LaMunyon Well No. 80 (API 30-025-35624)	1500 FNL and 150 FWL (Unit E) S27-T23S-R37E	9321'-9524'
C. E. LaMunyon Well No. 81 (API 30-025-35932)	230 FNL and 150 FWL (Unit D) S27-T23S-R37E	9283'-9484'

5. The "unitized interval" was defined by Order R-3297 as the Teague-Simpson pool, which has a depth of 8,942' MD to 9,475' TD as shown in the C. E. LaMunyon 10 (API:30-025-10830) well log.

6. FAE acquired the Project in 2021 and has been designated operator of the Wells.

7. Production within the Project has been maintained.

8. FAE proposes to convert the Wells from producers to injectors for waterflood operations and plans to inject water through a closed system of perforations at depths of 9,185' to 9,524' within the McKee zone of the Simpson formation in the Teague-Simson Pool (Code 58900).

9. The proposed average injection pressure through the Wells is expected to be approximately 1400 psi. The expected maximum injection pressure will be calculated relative to the depth of the highest perforation, using a factor of 0.25 psi/ft. The proposed Wells will have perforation depths between approximately 9,185' and 9,524' (or 2,296 psi and 2,381 psi maximum injection pressure, respectively). Pending results of a step rate test, the maximum injection pressure could potentially be increased to a factor of 0.6 psi/ft (or 5,511 psi at 9,185' and 5,714 psi at 9,524').

10. The proposed average injection rate is expected to be approximately 600 barrels of water per day. The maximum daily injection rate will be 1,500 barrels of water per day or as permitted by the Division.

11. The source of the water to be injected will be produced water from other Simpson formation wells within the vicinity of the Project.

12. FAE's proposed injection operations can be conducted in a safe and responsible manner without causing waste, impairing correlative rights or endangering fresh water, public health or the environment.

13. FAE requests authorization to convert additional wells within the Project from producers to injectors administratively.

14. Granting FAE's application will protect correlative rights and prevent waste.

15. A copy of FAE's C-108 Application for Authorization to Inject is attached as **Exhibit A**.

WHEREFORE, Applicant requests this Application be set for hearing before a duly appointed examiner of the Oil Conservation Division on March 3, 2022, and that after notice and hearing, the Division enter an order authorizing FAE to convert its C. E. LaMunyon Well Nos. 71Y, 73, 74, 75, 76, 77, 80, and 81 from producers to injectors at the intervals, pressures, volumes, and rates indicated.

Respectfully submitted,

HINKLE SHANOR LLP

/s/ Dana S. Hardy

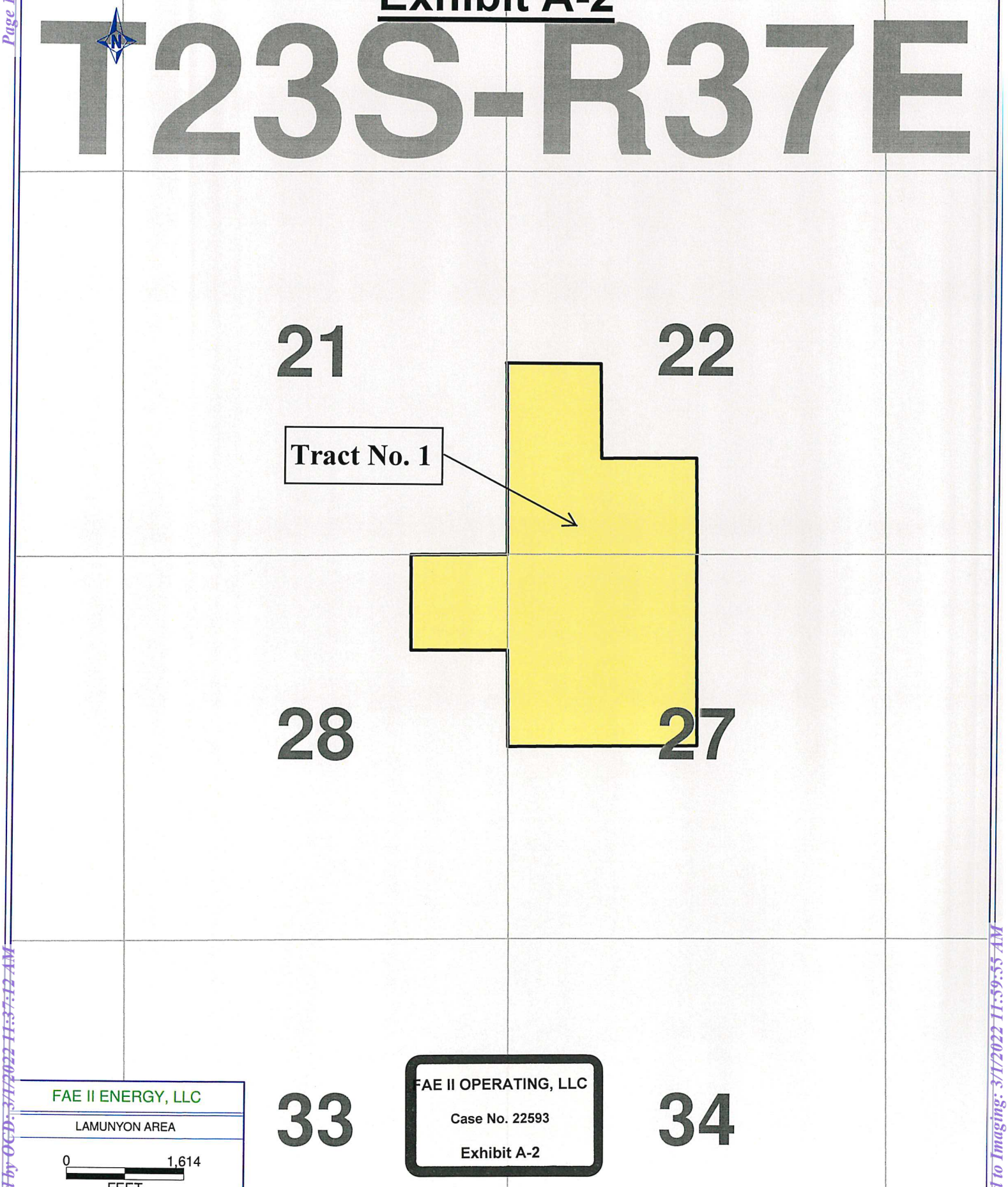
Dana S. Hardy
Michael Rodriguez
P.O. Box 2068
Santa Fe, NM 87504-2068
Phone: (505) 982-4554
Facsimile: (505) 982-8623
dhardy@hinklelawfirm.com
mrodriguez@hinklelawfirm.com
Counsel for FAE II Operating

Application of FAE II Operating, LLC for Authorization to Convert Producing Wells to Injection Wells for Waterflood Operations, Lea County, New Mexico. FAE II Operating, LLC ("FAE") seeks an order: (1) authorizing FAE to convert its C. E. LaMunyon Well Nos. 71Y, 73, 74, 75, 76, 77, 80, and 81 ("Wells") from producers to injectors within its C. E. LaMunyon Lease Waterflood Project ("Project") in the McKee zone of the Simpson formation located in Sections 22, 27 and 28, Township 23 South, Range 37 East, Lea County, New Mexico; and (2) authorizing FAE to convert additional wells within the Project from producers to injectors administratively. The approved Project Area consists of 320-acres of the following lands located in Township 23 South, Range 37 East in Lea County: NW/4SW/4 and S/2SW/4 of Section 22; NW/4 of Section 27; and NE/4NE/4 of Section 28. FAE proposes to convert the following wells located within the Project Area from producers to injectors within the McKee zone of the Simpson formation:

Well Name (API: 30-025-)	Location within T23S-R36E	Injection interval
C. E. LaMunyon Well No. 71Y (API 30-025-35106)	2305 FNL and 1280 FWL (Unit E) S27-T23S-R37E	9236'-9441'
C. E. LaMunyon Well No. 73 (API 30-025-35059)	1510 FSL and 330 FWL (Unit L) S22-T23S-R37E	9302'-9502'
C. E. LaMunyon Well No. 74 (API 30-025-35060)	1310 FNL and 1515 FWL (Unit C) S27-T23S-R37E	9239'-9440'
C. E. LaMunyon Well No. 75 (API 30-025-35061)	10 FSL and 1505 FWL (Unit N) S22-T23S-R37E	9255'-9460'
C. E. LaMunyon Well No. 76 (API 30-025-35074)	2310 FNL and 2310 FWL (Unit F) S27-T23S-R37E	9185'-9382'
C. E. LaMunyon Well No. 77 (API 30-025-35057)	1330 FSL and 1650 FWL (Unit K) S22-T23S-R37E	9,282'-9,486'
C. E. LaMunyon Well No. 80 (API 30-025-35624)	1500 FNL and 150 FWL (Unit E) S27-T23S-R37E	9321'-9524'
C. E. LaMunyon Well No. 81 (API 30-025-35932)	230 FNL and 150 FWL (Unit D) S27-T23S-R37E	9283'-9484'

FAE proposes to convert the Wells from producers to injectors for waterflood operations and plans to inject water through a closed system of perforations at depths of 9,185' to 9,524' within the McKee zone of the Simpson formation in the Teague-Simson Pool (Code 58900). The proposed average injection pressure through the Wells is expected to be approximately 1400 psi. The expected maximum injection pressure will be calculated relative to the depth of the highest perforation, using a factor of 0.25 psi/ft. The proposed Wells will have perforation depths between approximately 9,185' and 9,524' (or 2,296 psi and 2,381 psi maximum injection pressure, respectively). Pending results of a step rate test, the maximum injection pressure could potentially be increased to a factor of 0.6 psi/ft (or 5,511 psi at 9,185' and 5,714 psi at 9,524'). The proposed average injection rate is expected to be approximately 600 barrels of water per day. The maximum daily injection rate will be 1,500 barrels of water per day or as permitted by the Division. The Unit acreage is located approximately 20 miles south of Eunice, New Mexico.

Exhibit A-2



FAE II ENERGY, LLC

LAMUNYON AREA

0 1,614

FEET

February 22, 2022

FAE II OPERATING, LLC

Case No. 22593

Exhibit A-2

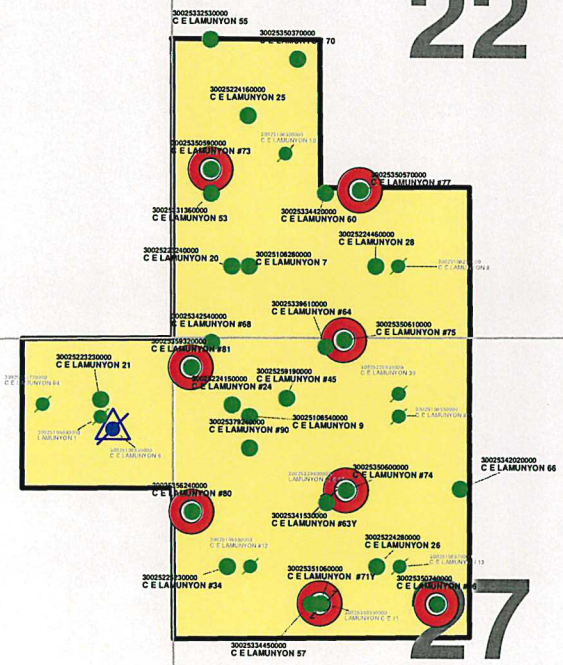
Exhibit A-2

(Continued)

Tract #	Owner Name	Subject Lease	Interest Type	Working Interest	Net Revenue Interest	Township	Range	County	State	Legal Description	Acreage	Depths
1	FAE II, LLC 11757 Katy Freeway, Ste 725 Houston, TX 77079	NMLC-030187	WI	1.00000000	0.85625000	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	United States Of America Bureau of Land Management 1474 Rodeo Rd. Santa Fe, NM 87505	NMLC-030187	RI	0.00000000	0.12500000	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	Elks National Foundation 2570 North Lakeview Avenue Chicago, IL 60614	NMLC-030187	ORRI	0.00000000	0.00112500	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	Shattuck School 1000 Shumway Avenue Fairbault, MN 55021	NMLC-030187	ORRI	0.00000000	0.00112500	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	Boys Clubs of America 771 First Avenue New York, NY 10017	NMLC-030187	ORRI	0.00000000	0.00112500	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	New Mexico Boys & Girls Ranch Foundation, Inc. 6209 Hendrix Road NE Albuquerque, NM 87110	NMLC-030187	ORRI	0.00000000	0.00112500	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	Regents of the University of New Mexico - MSC05 3200 1 University of New Mexico Albuquerque, NM 87131	NMLC-030187	ORRI	0.00000000	0.00112500	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	Guadalupe Land & Minerals, LLC PO Box 960489 El Paso, TX 79996	NMLC-030187	ORRI	0.00000000	0.00070313	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	Rocinante Energy, LLC PO Drawer 3488 Midland, TX 79702	NMLC-030187	ORRI	0.00000000	0.00070313	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	Billie S. De Voss, widow, s&s 15311 East La Salos Drive Whittier, CA 90603	NMLC-030187	ORRI	0.00000000	0.00140625	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	Apache Corporation 2000 Post Oak Boulevard, Ste 100 Houston, TX 77056	NMLC-030187	ORRI	0.00000000	0.00500000	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	Marshall & Winston, Inc. PO Box 50880 Midland, TX 79710	NMLC-030187	ORRI	0.00000000	0.00125000	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	PEC Minerals LP - 0.125000% 14860 Montfort Drive, Ste 209 Dallas, TX 75254	NMLC-030187	ORRI	0.00000000	0.00125000	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	Mustang Minerals, LLC 330 Marshall Street, Ste 1200 Shreveport, LA 71101	NMLC-030187	ORRI	0.00000000	0.00093750	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	Sudhakar Kanchi PO Box 1798 Midlothian, TX 76065	NMLC-030187	ORRI	0.00000000	0.00046875	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	Patricia L. Shoup, s&s c/o US Bank NA, Agent 155 - 1st Avenue, Southwest Rochester, MN 55902	NMLC-030187	ORRI	0.00000000	0.00046875	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
1	Arthur Richard Olson, s&s 45 University Avenue Minneapolis, MN 55414	NMLC-030187	ORRI	0.00000000	0.00093750	23S	27E	Lea	NM	Setion 22: NWSW, S2SW Section 27: NW Section 28: NENE	120.00 160.00 40.00	All Depths
				1.0000000	1.0000000						320.00	

Exhibit A-3

T23S-R37E



FAE II ENERGY, LLC

LAMUNYON AREA

0 1,614

FEET

POSTED WELL DATA

UWI
Well Label

ATTRIBUTE MAP

INJECTOR

February 22, 2022

FAE II OPERATING, LLC

Case No. 22593

Exhibit A-3

Page 1 of 1

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: ___X___ Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes ___X___ 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* _____ *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:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. 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 TITLE: Geologist
SIGNATURE: _____ DATE: 3/1/2022
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: _____

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

FAE II OPERATING, LLC
Case No. 22593
Exhibit A-4

Side 2

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.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: _____

WELL NAME & NUMBER: _____

WELL LOCATION: _____

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC | ***WELL CONSTRUCTION DATA***

Surface Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. ***or*** _____ ft^3

Top of Cement: _____ Method Determined: _____

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. ***or*** _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. ***or*** _____ ft^3

Top of Cement: _____ Method Determined: _____

Total Depth: _____

Injection Interval

_____ feet to _____

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: _____ Lining Material: _____

Type of Packer: _____

Packer Setting Depth: _____

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____Yes _____No

   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: _____

   _____

   _____

   _____

Part III.

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35057
WELL NAME & NUMBER: C E LAMUNYON #77
WELL LOCATION: **1330 FSL 1650 FWL** K 22 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

CURRENT WELLBORE SCHEMATIC

C E Lamunyon 77
API # 30-025-35057
Lea County, NM
T23S R37E Sec 22
1330' FSL 1650' FWL

Spud Mar-01
Initial Comp May-01

CURRENT

Pumping Unit - Lufkin
API Size: AM-640-365-168
Crank Hole: 1 (out of 4)
SL = 168" SPM = 8
Crank Rotation w/ well to right: CCW

WO History Highlights	
Perf	C, 60

Surface Casing:
OD = 13 3/8" ID = 12.715"
Wt = 48 lb/ft Grade = H-40
Burst = 1730 psi Collapse = 770 psi
Joint Yield = 322,000 lbs/ft
Depth = 1050' Hole = 17 1/2"
TOC @ Surface; 1200 sks (Returns to surface)

Tubing Properties:
OD = 2 7/8" ID = 2.441" ID
Wt = 6.4 lb/ft Grade = J-55
Burst = 7260 psi Collapse = 7680 psi
Joint Yield = 72,580 lbs/ft

Intermediate Casing:
OD = 9 5/8" ID = 8.835"
Wt = 40 lb/ft Grade = J-55
Burst = 3950 psi Collapse = 2570 psi
Joint Yield = 630,000 lbs/ft
Depth = 2515' Hole = 12 1/4"
TOC @ Surface; 820 sks (Returns to surface)

Joint 31.6

Tubing Details

Type	OD	Grade	Qty	Length	Depth
KB			1	13	0
Wellhead			1		0
Subs	2 7/8	J-55		15	15
Joints	2 7/8	J-55	295	9322	9337
TAC	5 1/2		1	3	3130
Joints	2 7/8	J-55	2	63.2	9400.2
SN			1	1	9401.2
Slotted Sub	2 7/8		1	4	9405.2
BPMA	2 7/8	J-55	1	31	9436.2
EOT					**9436.2**

FG 37.5 Rod 25

Rod Details

Type	OD	Grade	Qty	Lgth	Depth
KB			1	0	0
PR	1 1/2		1	0	0
Subs		FG	0	0	0
Steel	1	N97	105	2625	2625
Steel	7/8	N97	256	6400	9025
Steel	3/4	N97	0	0	9025
Sinker Bars	1 1/4	K API	14	350	9375
Pump	1 1/2	RHBC	1	24	9399
Gas Anchor			1	10	9409

McKee Perf Interval:
9402-9418'
-1500 gals 7.5% acid; frac w/ 101k# 20/40 SDC

Production Casing:
OD = 5 1/2" ID = 4.892"
Wt = 17 lb/ft Grade = J-55
Burst = 5320 psi Collapse = 4910 psi
Joint Yield = 247,000 lbs/ft
Depth = 9600' Hole = 7 7/8"
TOC @ 1908'; 825 sks (Vol Calc)

PBTD = 9547'
TD = 9600'

Date	Formation	Tops	Matrix		
	Silurian	8294			
	Montoya	8584			
	Simpson	8928			
	McKee	9239			

Engineer Name/Date: Trey Tomlin Jun2021

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35057
WELL NAME & NUMBER: C E LAMUNYON #77
WELL LOCATION: **1330 FSL 1650 FWL** K 22 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

PROPOSED WELLBORE SCHEMATIC

C E Lamunyon 77
API # 30-025-35057
Lea County, NM
T23S R37E Sec 22
1330' FSL 1650' FWL

Spud Mar-01
Initial Comp May-01

PROPOSED

Surface Casing:
OD = 13 3/8" ID = 12.715"
Wt = 48 lb/ft Grade = H-40
Burst = 1730 psi Collapse = 770 psi
Joint Yield = 322,000 lbs/ft
Depth = 1050' Hole = 17 1/2"
TOC @ Surface; 1200 sks (Returns to surface)

Tubing Properties:
OD = 2 7/8"
Cement Lined
Packer Depth = 9262'

Intermediate Casing:
OD = 9 5/8" ID = 8.835"
Wt = 40 lb/ft Grade = J-55
Burst = 3950 psi Collapse = 2570 psi
Joint Yield = 630,000 lbs/ft
Depth = 2515' Hole = 12 1/4"
TOC @ Surface; 820 sks (Returns to surface)

McKee Perf Interval A and B:
9282'-9300' (Zone A)
-36 holes
9332'-9374' (Zone B)
- 84 holes

McKee Perf Interval:
9402-9418'
-1500 gals 7.5% acid; frac w/ 101k# 20/40 SDC
Perf 9420'-9486' (Zone C) 2 SPF

Production Casing:
OD = 5 1/2" ID = 4.892"
Wt = 17 lb/ft Grade = J-55
Burst = 5320 psi Collapse = 4910 psi
Joint Yield = 247,000 lbs/ft
Depth = 9600' Hole = 7 7/8"
TOC @ 1908'; 825 sks (Vol Calc)

PBTD = 9547'
TD = 9600'

Engineer Name/Date: Adam Holcomb 1/12/22

WO History Highlights	
Perf	C, 60

Proposed Injection Interval
9282'-9486'

Joint 31.6

Tubing Details					
Type	OD	Grade	Qty	Length	Depth
KB			1	13	0
Wellhead			1		0
Joints	2 7/8	Cmt Lined	293	9259	9259
Packer	5 1/2	AS1-X	1	3	9262
EOT					0

FG 37.5 Rod 25

Rod Details					
Type	OD	Grade	Qty	Lgth	Depth

Date	Formation	Tops	Matrix		
	Silurian	8294			
	Montoya	8584			
	Simpson	8928			
	McKee	9239			

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35057
WELL NAME & NUMBER: C E LAMUNYON #77
WELL LOCATION: **1330 FSL 1650 FWL** K 22 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELL CONSTRUCTION DATA

Surface Casing

Hole Size:	17-1/2"
Casing Size:	13-3/8"
Depth Set:	1050'
Top of Cement:	surface
Cement with	1200 sx
Method Determined:	circulated

Intermediate Casing

Hole Size:	12-1/4"
Casing Size:	9-5/8"
Depth Set:	2515'
Top of Cement:	surface
Cement with	820 sx
Method Determined:	circulated

Production Casing

Hole Size:	7-7/8"
Casing Size:	5-1/2"
Depth Set:	9600'
Top of Cement:	1908'
Cement with	825 sx
Method Determined:	Volumetric Calc

Proposed Injection Interval

Mckee Sand member of the Simpson Fm
~9282' to 9486'
Zone will be Perforated

Tubing

Tubing Size:	2-7/8"
Lining Material:	Cement
Type of Packer:	AS1-X
Packer Depth Set:	~9262'

Additional Data

1. NOT a new well.
    1. Currently an oil well.
2. Injection Formation: Mckee Sand member of the Simpson Fm .
3. Pool: [58900] TEAGUE;SIMPSON
4. Well has NOT been perforated within more than one zone.
5. Overlying & Underlying Zones:
    1. Overlying Oil/Gas Zone: Devonian
        1. Depth of Zone: +/- 7,200'
    2. Underlying Oil Zone: Ellenburger
        1. Depth of Zone: +/- 9,700'

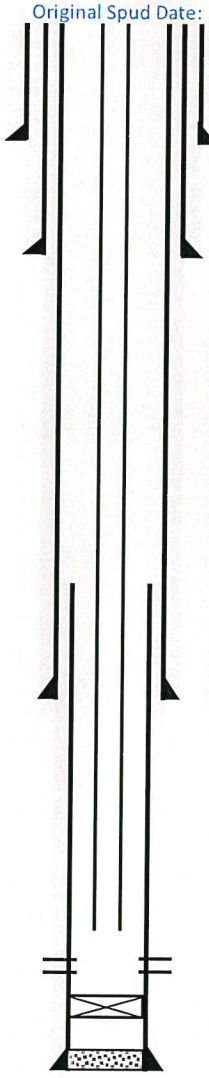
III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35059
WELL NAME & NUMBER: C E LAMUNYON #73
WELL LOCATION: **1510 FSL 330 FWL** L 22 23S 37E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

CURRENT WELLBORE SCHEMATIC

Surf Location: SEC 22 T23S R37E 1510 FSL, 330 FWL GL Elev: 3297' RKB: 3311'
Wellhead TVD: PBTD: 9640 TD: 9683
Original Spud Date: 5/29/2001 Completed Pool: McKee



	Set Depth	Csg Details	Hole Size
Surface	1070'	13 3/8" 48# H-40, 1200 sx, circulated	17.50 inch
Intermediate	2515'	9 5/8" 40# LS, 1050 sx, circulated	12.25 inch
Prod	7900'	7" 29# N-80, 1625 sx, circulated	8.50 inch
Liner	9678'	5" 18# N-80, TOP = 7654', 725 sx	

CIBP @ 9580'

PBTD = 9640

CURRENT

PERFORATIONS:

9/3/01: MCKEE 9418-36', 2 SPF
OH 9678-9756 Filled w/ cement

Tubing Details: Run Date:

Description	Qty	Length	Depth
2 7/8" 6.5# L-80	236	7,296.00	7,296
2 3/8" 4.7# L-80	50	1,569.00	8,865
TAC	1	3.00	8,868
2 3/8" 4.7# J-55	12	379.00	9,247
2 3/8" 4.7# J-55 COATED	1	32.00	9,279
SN	1	1.00	9,280
Perf Sub/MA w/ bull plug	2	67.00	9,347

Pump Details: Run Date:

Description	Size	Qty	Length	Depth
Pony Rods			0.00	0
1.25" Fiberglass Rods	1 1/4"	142	5,325.00	5,325
1" Rods	1"	72	1,800.00	7,125
7/8" Rods	7/8"	63	1,575.0	8,700
Sinker Bar 1 1/2" 30' x 1.5" RHBC	1.5"	13	325.00 30.00	9,025 9,055

Pump Description: 30' x 1.5" RHBC

Formation Tops

YATES	2524'	SAN ANDRES	3838'	TUBB	5994'
7 RIVERS	2784'	GLORIETA	4942'	DRINKARD	6244'
QUEEN	3268'	PADDOCK	5000'	ABO	6478'
PENROSE		BLINBRY	5320'	DEVONIAN	7199'

Completion History

5/29/2001	Spud
9/3/2001	Perf McKee 9418-36, 2 SPF, Acid 2000 gal 15%, frac w/ 107,000# 16/30 + 6500# 100 mesh

Pumping Unit	SPM	Stroke Length
Lufkin AM 640-305-144	7	long

Workover History

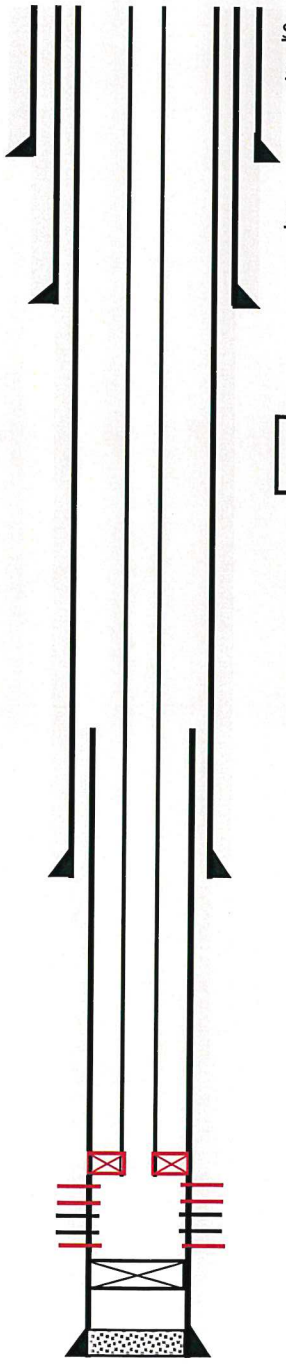
5/29/2001	Spud
9/3/2001	Perf McKee 9418-36, 2 SPF, Acid 2000 gal 15%, frac w/ 107,000# 16/30 + 6500# 100 mesh
1/22/2002	Pump change. Sand cut
3/14/2002	Pump stuck in tbg w/ sand. Replace bottom joint
6/13/2002	Pump stuck in tbg
8/26/2002	Pump change. Pump junked
10/14/2002	Pump change
3/11/2003	Tbg leak. 7 bad jts near bottom (pitting). Replace bottom 10 jts. Tag fill @ 9470'
4/1/2003	Pump 1000 gal 15% HCl
4/11/2003	Squeeze csg leak. Set RBP @ 7814' and found holes 7583-7615'. Set CICR @ 6995', cmt w/ 400 sx. Drill out cmt, retrieve RBP. Clean out fill f/ 9421' to 9467'. Acidize
4/25/2003	Pump stuck open. Swabbing lots of solids, possible drilling mud. Tag fill 9419', clean out to 9556'. Acidize w/ ball sealers. Swab fluid clean
9/7/2004	Pump stuck. Tag fill @ 9482' (46' rat hole). Change out bottom 5 jts tbg. Jt on top of SN is IPC. Shop pump

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35059
WELL NAME & NUMBER: C E LAMUNYON #73
WELL LOCATION: **1510 FSL 330 FWL** L 22 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

PROPOSED WELLBORE SCHEMATIC



	Set Depth	Csg Details	Hole Size
Surface	1070'	13 3/8" 48# H-40 1200 sx, circulated	17.50 inch
Intermediate	2515'	9 5/8" 40# LS 1050 sx, circulated	12.25 inch
Prod	7900'	7" 29# N-80 1625 sx, circulated	8.50 inch
Liner	9678'	5" 18# N-80, TOP = 7654' 725 sx	

CIBP @ 9580'

PBTD = 9640

PROPOSED

PERFORATIONS:

9/3/01: MCKEE 9418-36', 2 SPF

Perf 9438-9502 (Zone C) 2 SPF

McKee Perf Interval A and B:
9302'-9326' (Zone A)
-48 holes
9355'-9394' (Zone B)
- 78 holes

Tubing Details: Run Date:

Description	Qty	Length	Depth
2 7/8" 6.5# L-80 Cmt lined	290	9,280.00	9,280
AS1-X Packer	1	4.00	9,284

Proposed Injection interval
9302'-9502'

Formation Tops

YATES	2524'	SAN ANDRES	3838'	TUBB	5994'
7 RIVERS	2784'	GLORIETA	4942'	DRINKARD	6244'
QUEEN	3268'	PADDOCK	5000'	ABO	6478'
PENROSE		BLINBRY	5320'	DEVONIAN	7199'

Completion History

5/29/2001	Spud
9/3/2001	Perf McKee 9418-36, 2 SPF, Acid 2000 gal 15%, frac w/ 107,000# 16/30 + 6500# 100 mesh

Pumping Unit	SPM	Stroke Length

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35059
WELL NAME & NUMBER: C E LAMUNYON #73
WELL LOCATION: **1510 FSL 330 FWL** L 22 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELL CONSTRUCTION DATA

Surface Casing

Hole Size:	17-1/2"
Casing Size:	13-3/8"
Depth Set:	1070'
Top of Cement:	surface
Cement with	1200 sx
Method Determined:	circulated

Intermediate Casing

Hole Size:	12-1/4"
Casing Size:	9-5/8"
Depth Set:	2515'
Top of Cement:	surface
Cement with	1050 sx
Method Determined:	circulated

Production Casing

Hole Size:	8-1/2"
Casing Size:	7"
Depth Set:	7900'
Top of Cement:	surface
Cement with	1625 sx
Method Determined:	circulated

Production Liner

Hole Size:	6-1/8"
Liner Size:	5"
Bottom Depth Set:	9678'
Top Depth Set:	7654'
Cement with	725 sx

Proposed Injection Interval

Mckee Sand member of the Simpson Fm
~9302' to 9502'
Zone will be Perforated

Tubing

Tubing Size:	2-7/8"
Lining Material:	Cement
Type of Packer:	AS1-X
Packer Depth Set:	~9284'

Additional Data

1. NOT a new well.
    1. Currently an oil well.
2. Injection Formation: Mckee Sand member of the Simpson Fm .
3. Pool: [58900] TEAGUE;SIMPSON
4. Well has NOT been perforated within more than one zone.
5. Overlying & Underlying Zones:
    1. Overlying Oil/Gas Zone: Devonian
        1. Depth of Zone: +/- 7,300'
    2. Underlying Oil Zone: Ellenburger
        1. Depth of Zone: +/- 9,800'

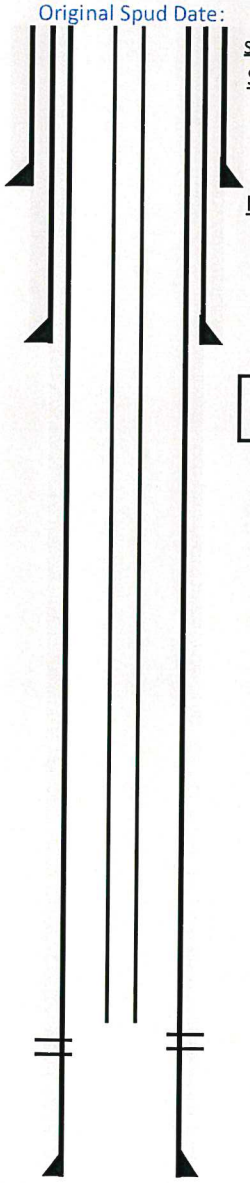
III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35060
WELL NAME & NUMBER: C E LAMUNYON #74
WELL LOCATION: **1310 FNL 1515 FWL** C 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

CURRENT WELLBORE SCHEMATIC

Surf Location: SEC 27 23S 37E 510 FNL, 660 FEL GL Elev: 3285' RKB:
Wellhead TVD: PBTD: 9505 TD: 9550
Original Spud Date: 10/21/2000 Completed Pool: Teague; Simpson



	Set Depth	Csg Details	Hole Size
Surface	1070'	13 3/8" 48#, 61#, 54.5# 1200 sx, circ to surface	17.50 inch
Intermediate	3015'	9 5/8" 47#, 43.5#, P110, N80 1205 sx, circ to surface	12.50 inch
Prod	9550'	5.5" 17#, 20#, L80, K55 3090 sx, TOC = 610' PBTD = 9505	8.50 inch

CURRENT

PERFORATIONS:

12/8/00: MCKEE: 9340-62', 2 SPF

Tubing Details: Run Date: 12/30/2004

Description	Qty	Length	Depth
KB			0
2 7/8" 6.5# L-80	293	8,968.00	8,968
TAC	1	3.00	8,971
2 7/8" 6.5# L-80	6	181.00	9,152
SN	1	1.00	9,153
Perf Sub	1	4.00	9,157
Mud Anchor	1	61.00	9,218

Pump Details: Run Date: 12/30/2004

Description	Size	Qty	Length	Depth
1" Steel Rods	1"	0	0.00	0
1.25" Fiberglass Rods	1.25"	141	5,287.50	5,288
1" Steel Rods	1"	74	1,850.0	7,138
7/8" Rods	7/8"	64	1,600.0	8,738
Sinker Bar 1 1/2"	1.5"	16	400.00	9,138

Pump Description
30' x 1.5" RHBC. Space 66" off bottom

Formation Tops

YATES	2543'	SAN ANDRES	3790'	TUBB	5910'
7 RIVERS	2772'	GLORIETA	4944'	DRINKAR	6218'
QUEEN	3252'	PADDOCK	4998'	ABO	6446'
GRAYBUR	3544'	BLINBRY	5299'	MCKEE	9186'

Completion History

10/21/2000	Spud
11/28/2000	Perf McKee 9340-9362'. Acidize w/ 1000 gal 15%. Frac w/ 15,000# 16/30 sand

Pumping Unit	SPM	Stroke Length
American 640-305-144	7	Long hole

Workover History

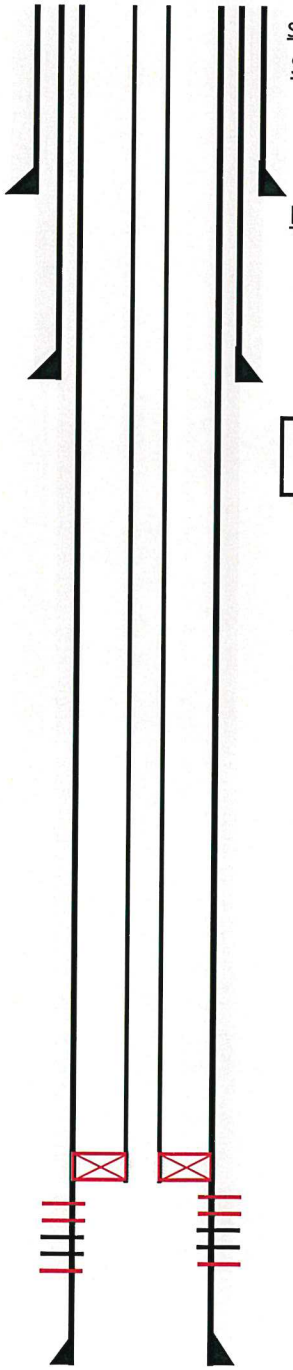
10/21/2000	Spud
11/28/2000	Perf McKee 9340-9362'. Acidize w/ 1000 gal 15%. Frac w/ 15,000# 16/30 sand
3/18/2002	Strip tbg, rods. Pump stuck w/ formation sand. Pump materials grooved/scored
6/17/2002	Fluid level = 1175'. Increased run time f/ 50% to 60%
6/12/2003	Pump change. Pump junked, tubing good
12/23/2004	Tag fill @ 9461'. TAC stuck. Chem cut, jarred TAC loose. SN plugged w/ sand. Raise SN 250' above perfs

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35060
WELL NAME & NUMBER: C E LAMUNYON #74
WELL LOCATION: **1310 FNL 1515 FWL** C 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

PROPOSED WELLBORE SCHEMATIC



	Set Depth	Csg Details	Hole Size
Surface	1070'	13 3/8" 48#, 61#, 54.5# 1200 sx, circ to surface	17.50 inch
Intermediate	3015'	9 5/8" 47#, 43.5#, P110, N80 1205 sx, circ to surface	12.50 inch
Prod	9550'	5.5" 17#, 20#, L80, K55 3090 sx, TOC = 610' (CBL) PBTD = 9505	8.50 inch

PROPOSED

PERFORATIONS:

McKee Perf Interval A and B:
9239'-9257' (Zone A), 2SPF
-36 holes
9280'-9319' (Zone B), 2SPF
- 78 holes

12/8/00: MCKEE: 9340-62', 2 SPF
Perf 9364-9440' (Zone C), 2 SPF

Tubing Details: Run Date: 12/30/2004

Description	Qty	Length	Depth
2 7/8" 6.5# L-80 Cmt Coated	288	9,220.00	9,220
AS1-X Packer	1	4.00	9,224

Proposed Injection interval
9239'-9440'

Formation Tops

YATES	2543'	SAN ANDRES	3790'	TUBB	5910'
7 RIVERS	2772'	GLORIETA	4944'	DRINKAR	6218'
QUEEN	3252'	PADDOCK	4998'	ABO	6446'
GRAYBUR	3544'	BLINBRY	5299'	MCKEE	9186'

Completion History

10/21/2000	Spud
11/28/2000	Perf McKee 9340-9362'. Acidize w/ 1000 gal 15%. Frac w/ 15,000# 16/30 sand

Pumping Unit	SPM	Stroke Length
American 640-305-144	7	Long hole

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35060
WELL NAME & NUMBER: C E LAMUNYON #74
WELL LOCATION: **1310 FNL 1515 FWL** C 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELL CONSTRUCTION DATA

Surface Casing

Hole Size:	17-1/2"
Casing Size:	13-3/8"
Depth Set:	1070'
Top of Cement:	surface
Cement with	1205 sx
Method Determined:	circulated

Intermediate Casing

Hole Size:	12-1/2"
Casing Size:	9-5/8"
Depth Set:	3015'
Top of Cement:	surface
Cement with	1205 sx
Method Determined:	circulated

Production Casing

Hole Size:	8-1/2"
Casing Size:	5-1/2"
Depth Set:	9550'
Top of Cement:	610'
Cement with	3090 sx
Method Determined:	Volumetric Calc

Proposed Injection Interval

Mckee Sand member of the Simpson Fm
~9239' to 9440'
Zone will be Perforated

Tubing

Tubing Size:	2-7/8"
Lining Material:	Cement
Type of Packer:	AS1-X
Packer Depth Set:	~9224'

Additional Data

1. NOT a new well.
    1. Currently an oil well.
2. Injection Formation: Mckee Sand member of the Simpson Fm .
3. Pool: [58900] TEAGUE;SIMPSON
4. Well has NOT been perforated within more than one zone.
5. Overlying & Underlying Zones:
    1. Overlying Oil/Gas Zone: Devonian
        1. Depth of Zone: +/- 7,300'
    2. Underlying Oil Zone: Ellenburger
        1. Depth of Zone: +/- 9,800'

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35061
WELL NAME & NUMBER: C E LAMUNYON #75
WELL LOCATION: **10 FSL 1505 FWL** N 22 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

CURRENT WELLBORE SCHEMATIC

C E Lamunyon #75
API # 30-025-35061
Lea County, NM
T23S R37E Sec 22
10' FSL 1505' FWL

Spud Feb-01
Initial Comp Mar-01

CURRENT

Surface Casing:
OD = 13 3/8"
Wt = 48 lb/ft
Depth = 1055' Hole = 17 1/2"
Cmt w/ 1200 sks - 230 sks (Returns to surface)

Tubing Properties:
OD = 2 7/8" ID = 2.441" ID
Depth at 9424'

Intermediate Casing:
OD = 9 5/8" ID = 8.835"
Wt = 40 lb/ft Joint Yield = 630,000 lbs/ft
Depth = 3000' Hole = 12 1/4"
Cmt w/ 1300 sks - circ 105 sks

McKee Perf Interval:
9365-85
-Acidize 1000 gals 15% acid.
Frac w/ 6620# 100 mesh sand + 119660# super sand

Production Casing:
OD = 5-1/2"
Wt = 17 lb/ft
Depth = 9572' Hole = 8 3/4"
TOC @ 3040'; 2400 sks (Vol Calc)

PBTD = 9533'
TD = 9572'

WO History Highlights	
Perf	c
10/14/1957-11/27/19	Cleaned out, acidized, and fracture treated. Spot 500 gals acid on perfs 9295-9375'. Fracture treated w/ 20000 gals gelled lease oil w/ 1# sand per gallon
Nov-49	Casing Leak from 4894'-4898'

Joint 31.6

Tubing Details

Type	OD	Grade	Qty	Length	Depth
KB			1	13	0
Wellhead			1		0
Subs					
Joints	2 7/8	J-55	292	9227	9227
TAC	2 7/8		1	3	9230
Joints	2 7/8	J-55	5	158	9388
SN	2 7/8		1	1	9389
Slotted Sub			1	3	9392
BPMA			1	32	9424
EOT					9424

FG 37.5 Rod 25

Rod Details

Type	OD	Grade	Qty	Lgth	Depth
KB					
PR					
FG	1 1/4"		146	5475	5475
Steel	1"		73	1825	7300
Steel	7/8"		70	1750	9050
Steel					
Sinker Bar	1 1/2"		10	250	9300
Pump			1	30	9330

Date	Formation	Tops	Matrix		
	Simpson	9600			
	McKee	9775			

Engineer Name/Date: Jun Hin Loi Aug2021

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35061
WELL NAME & NUMBER: C E LAMUNYON #75
WELL LOCATION: **10 FSL 1505 FWL** N 22 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

PROPOSED WELLBORE SCHEMATIC

C E Lamunyon #75
API # 30-025-35061
Lea County, NM
T23S R37E Sec 22
10' FSL 1505' FWL

Spud Feb-01
Initial Comp Mar-01

PROPOSED

Surface Casing:
OD = 13 3/8"
Wt = 48 lb/ft
Depth = 1055' Hole = 17 1/2"
Cmt w/ 1200 sks - 230 sks (Returns to surface)

Tubing Properties:
OD = 2 7/8" ID = 2.441" ID
Depth at 9263'
Cement Lined

Intermediate Casing:
OD = 9 5/8" ID = 8.835"
Wt = 40 lb/ft Joint Yield = 630,000 lbs/ft
Depth = 3000' Hole = 12 1/4"
Cmt w/ 1300 sks - circ 105 sks

McKee Perf Interval A and B:
9255'-9300' (Zone A)
-90 holes
9332'-9374' (Zone B)
- 84 holes

McKee Perf Interval:
9365-85
-Acidize 1000 gals 15% acid.
Frac w/ 6620# 100 mesh sand + 119660# super sand

Perf 9387-9460' (Zone C) 2 SPF

Production Casing:
OD = 5-1/2"
Wt = 17 lb/ft
Depth = 9572' Hole = 8 3/4"
TOC @ 3040'; 2400 sks (Vol Calc)

PBTD = 9533'
TD = 9572'

WO History Highlights	
Perf	c
10/14/1957-11/27/195	Cleaned out, acidized, and fracture treated. Spot 500 gals acid on perfs 9295-9375'. Fracture treated w/ 20000 gals gelled lease oil w/ 1# sand per gallon
Nov-49	Casing Leak from 4894'-4898'

Proposed Injection Interval
9255'-9460'

Joint 31.63

Tubing Details

Type	OD	Grade	Qty	Length	Depth
KB			1	13	0
Wellhead			1		0
Joints	2 7/8	Cmt Lined	292	9236	9236
Packer	2 7/8 x 5 1/2"	AS1-X	1	4	9240
EOT					9240

FG 37.5 Rod 25

Rod Details

Type	OD	Grade	Qty	Lgth	Depth
KB					
PR					
Subs					
Steel					
Steel					
Steel					
Sinker Bars					
Pump					
Gas Anchor			1	10	10

Date	Formation	Tops	Matrix		
	Simpson	9600			
	McKee	9775			

Engineer Name/Date: Adam Holcomb 1/12/22

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35061
WELL NAME & NUMBER: C E LAMUNYON #75
WELL LOCATION: **10 FSL 1505 FWL** N 22 23S 37E

FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELL CONSTRUCTION DATA

Surface Casing

Hole Size:	17-1/2"
Casing Size:	13-3/8"
Depth Set:	1055'
Top of Cement:	surface
Cement with	1200 sx
Method Determined:	circulated

Intermediate Casing

Hole Size:	12-1/4"
Casing Size:	9-5/8"
Depth Set:	3000'
Top of Cement:	surface
Cement with	1300 sx
Method Determined:	circulated

Production Casing

Hole Size:	8-3/4"
Casing Size:	5-1/2"
Depth Set:	9572'
Top of Cement:	3040'
Cement with	2400 sx
Method Determined:	Volumetric Calc

Proposed Injection Interval

Mckee Sand member of the Simpson Fm
~9255' to 9460'
Zone will be Perforated

Tubing

Tubing Size:	2-7/8"
Lining Material:	Cement
Type of Packer:	AS1-X
Packer Depth Set:	~9263'

Additional Data

1. NOT a new well.
    1. Currently an oil well.
2. Injection Formation: Mckee Sand member of the Simpson Fm .
3. Pool: [58900] TEAGUE;SIMPSON
4. Well has NOT been perforated within more than one zone.
5. Overlying & Underlying Zones:
    1. Overlying Oil/Gas Zone: Devonian
        1. Depth of Zone: +/- 7,300'
    2. Underlying Oil Zone: Ellenburger
        1. Depth of Zone: +/- 9,800'

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35074
WELL NAME & NUMBER: C E LAMUNYON #76
WELL LOCATION: **2310 FNL 2310 FWL** F 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

CURRENT WELLBORE SCHEMATIC

C E Lamunyon 76
API # 30-025-35074
Lea County, NM
T23S R37E Sec 27
2310' FNL 2310' FWL

Spud Sep-00
Initial Comp Nov-00

CURRENT

Surface Casing:
OD = 13 3/8" Grade: H-40
Wt = 48, 54.5, 61, 68 lb/ft
Depth = 1067' Hole = 17 1/2"
1200 sks - circ 98 sks

Tubing Properties:
OD = 2 7/8" ID = 2.441" ID
Length: 9424'

Intermediate Casing:
OD = 9 5/8"
Wt = 43.5 lb/ft
Depth = 3017' Hole = 11"
1205 sks circ 115 sks

McKee Perf Interval:
9320-40', 2SPF
-Acidize w/ 1000 gals 15% acid.
Frac w/ 150000# 16/30 sand
9652'-80', 2 SPF
- Acidize w/ 1000 gals 15% acid
9717-30', 2SPF
- Acifize w/ 500 gals 15% acid

PBTD = 9505'
TD = 9800'

Production Casing:
OD = 5-1/2"
Wt = 17 lb/ft
Depth = 9800' Hole = 8 1/2"
TOC @ 990' (CBL); 3150 sks

Engineer Name/Date: Jun Hin Loi Aug2021

WO History Highlights	
Perf	C, 54

Joint 31.6

Tubing Details

Type	OD	Grade	Qty	Length	Depth
KB			1	13	0
Wellhead			1		0
Subs					
Joints	2 7/8	J-55	292	9227	9227
TAC	2 7/8		1	3	9230
Joints	2 7/8	J-55	5	158	9388
SN	2 7/8		1	1	9389
Slotted Sub			1	3	9392
BPMA			1	32	9424
EOT					9424

FG 37.5 Rod 25

Rod Details

Type	OD	Grade	Qty	Lgth	Depth
KB					
PR					
Subs	1 1/4"		146	5475	5475
Steel	1"		73	1825	7300
Steel	7/8"		70	1750	9050
Steel					
Sinker Bars	1 1/2"		10	250	9300
Pump			1	30	9330
Gas Anchor					

Date	Formation	Tops	Matrix		
	Simpson	8806			
	McKee	9135			

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35074
WELL NAME & NUMBER: C E LAMUNYON #76
WELL LOCATION: **2310 FNL 2310 FWL** F 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

PROPOSED WELLBORE SCHEMATIC

C E Lamunyon 76
API # 30-025-35074
Lea County, NM
T23S R37E Sec 27
2310' FNL 2310' FWL

Spud Sep-00
Initial Comp Nov-00

PROPOSED

Surface Casing:
OD = 13 3/8" Grade: H-40
Wt = 48, 54.5, 61, 68 lb/ft
Depth = 1067' Hole = 17 1/2"
1200 sks - circ 98 sks

Tubing Properties:
OD = 2 7/8" ID = 2.441" ID
Length: 9168' Cement Coated

Intermediate Casing:
OD = 9 5/8"
Wt = 43.5 lb/ft
Depth = 3017' Hole = 11"
1205 sks circ 115 sks

McKee Perf Interval:
9320-40', 2SPF
-Acidize w/ 1000 gals 15% acid.
Frac w/ 150000# 16/30 sand
Perf 9342-9382' (Zone C), 2 SPF

9652'-80', 2 SPF **[BELOW BP]**
- Acidize w/ 1000 gals 15% acid
9717-30', 2SPF **[BELOW BP]**
- Acifize w/ 500 gals 15% acid

McKee Perf Interval A and B:
9185'-9208' (Zone A), 2SPF
-46 holes
9230'-9273' (Zone B), 2SPF
- 86 holes

PBTD = 9505'
TD = 9550

Production Casing:
OD = 5-1/2"
Wt = 17 lb/ft
Depth = 9800' Hole = 8 1/2"
TOC @ 990' (CBL); 3150 sks

WO History Highlights	
Perf	C, 54
Perf	in zone A and B

Proposed Injection Interval
9185'-9382'

Joint 31.6

Tubing Details					
Type	OD	Grade	Qty	Length	Depth
Joints	2 7/8"	Cmt Lined	290	9164	9164
Packer	2 7/8"x5 1/2"	AS1-X	1	4	9168
EOT					9168

FG 37.5 Rod 25

Rod Details					
Type	OD	Grade	Qty	Lgth	Depth
KB					
PR					
Subs					
Steel					
Steel					
Steel					
Sinker Bars					
Pump					
Gas Anchor					

Date	Formation	Tops	Matrix		
	Simpson	8806			
	McKee	9135			

Engineer Name/Date: Adam Holcomb 1/12/22

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35074
WELL NAME & NUMBER: C E LAMUNYON #76
WELL LOCATION: **2310 FNL 2310 FWL** F 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELL CONSTRUCTION DATA

Surface Casing

Hole Size:	17-1/2"
Casing Size:	13-3/8"
Depth Set:	1067'
Top of Cement:	surface
Cement with	1200 sx
Method Determined:	circulated

Intermediate Casing

Hole Size:	11"
Casing Size:	9-5/8"
Depth Set:	3017'
Top of Cement:	surface
Cement with	1205 sx
Method Determined:	circulated

Production Casing

Hole Size:	8-1/2"
Casing Size:	5-1/2"
Depth Set:	9800'
Top of Cement:	990'
Cement with	3150 sx
Method Determined:	CBL

Proposed Injection Interval

Mckee Sand member of the Simpson Fm
~9185' to 9382'
Zone will be Perforated

Tubing

Tubing Size:	2-7/8"
Lining Material:	Cement
Type of Packer:	AS1-X
Packer Depth Set:	~9168'

Additional Data

1. NOT a new well.
    1. Currently an oil well.
2. Injection Formation: Mckee Sand member of the Simpson Fm .
3. Pool: [58900] TEAGUE;SIMPSON
4. Well has NOT been perforated within more than one zone.
5. Overlying & Underlying Zones:
    1. Overlying Oil/Gas Zone: Devonian
        1. Depth of Zone: +/- 7,300'
    2. Underlying Oil Zone: Ellenburger
        1. Depth of Zone: +/- 9,652'

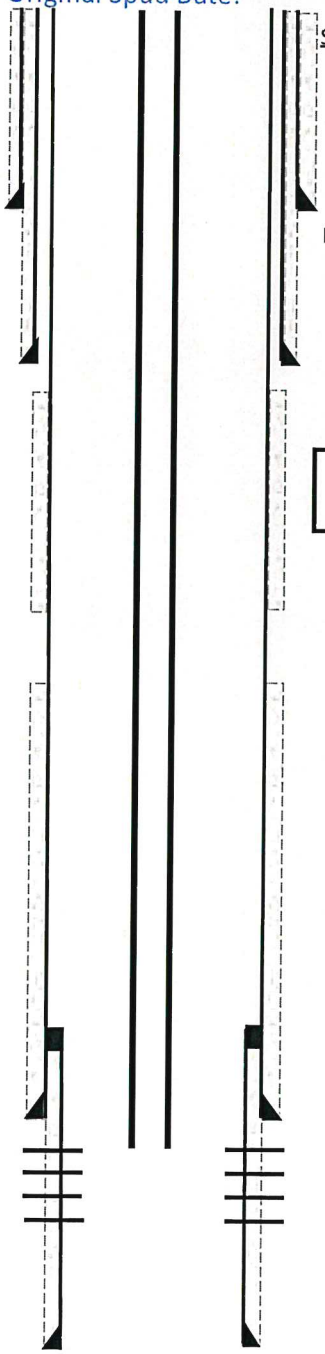
III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35106
WELL NAME & NUMBER: C E LAMUNYON #71Y
WELL LOCATION: **2305 FNL 1280 FWL** E 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

CURRENT WELLBORE SCHEMATIC

Surf Location: 27 23T 37R 2305 FNL 1280 FWL GL Elev: 3288 RKB: 3288'
Wellhead TVD: PBTD: 9521 MD: 9560
Original Spud Date: 7/19/2000 Completed Pool: TEAGUE / SIMPSON



Set Depth	Csg Details	Hole Size
1060'	13 3/8" 68# K-55 BUTT 1200 sxs circ 290 sxs	17 1/2"
Intermediate		
3000'	9 5/8" 53.5# & 47# N-80 LTC 1050 sxs circ 244 sx	12 1/4"

CURRENT

CASING ISSUES (9/27/2000)
Csg Leak @ 5028-62'
4 Sqz holes @ 5,450'
New CMT top @ 3400'

PERFORATIONS:
MCKEE: 9356-76' 2 SPF

PROD		
7930'	7" 29# N-80 LTC 1000 sx DV tool @ 6990' TOC @ 7406'	8 1/2"
LINER		
9560'	5" 18# N-80 450 sxs TOC @ 7396' TOL @ 7705'	6 1/8"

Tubing Details: Run Date: PROPOSED

Description	Qty	Length	Depth
2 7/8" 6.5#	242	7,623.00	7,623
TAC	1	4.00	7,627
2 7/8" 6.5#	45	1,417.50	9,045
SN	1	1.00	9,046
Mud Anchor	1	65.00	9,111

Pump Details: Run Date: PROPOSED

Description	Size	Qty	Length	Depth
Pony Rods	1	0	0	0
1" Rods	1	86	2,150	2,150
7/8" Rods	7/8"	94	2,350	4,500
3/4" rods	3/4"	174	4,350	8,850
Sinker Bar 1"	1.0	8.0	200	9,050

Pump Description
25-125-RHBM- 24-4-0-0, monel grooved plunger, TIT/TC valves/seats, crow strainer

Formation Tops
YATES - 2487 7 RIVERS - 2753 QUEEN - 3268 SAN ANDRES - 3792 PADDOCK - 5004 BLINBRY - 5300 TUBB - 5947 DRINKARD - 6250 SIMPSON - 8858 MCKEE - 9186

Completion Details
2000: acidized w/ 4000 gals 15% HCL, FRAC w/ 150,000# 16/30 sand

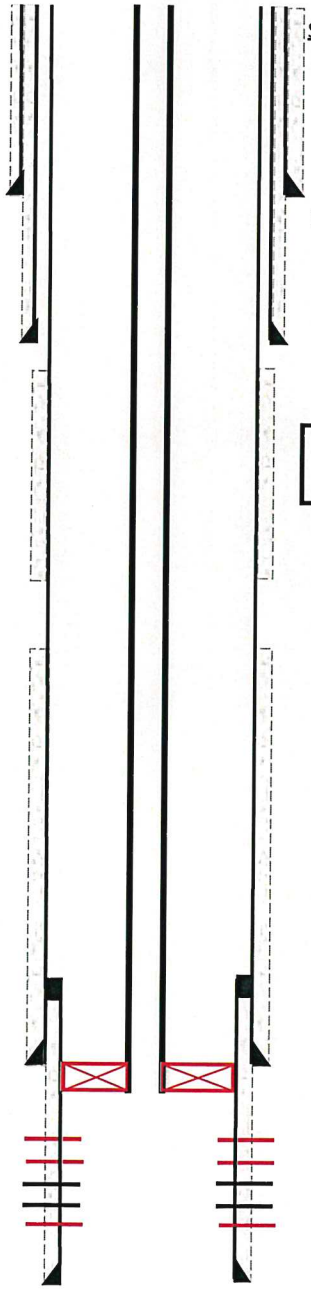
Pumping Unit
640-365-144

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35106
WELL NAME & NUMBER: C E LAMUNYON #71Y
WELL LOCATION: **2305 FNL 1280 FWL** E 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

PROPOSED WELLBORE SCHEMATIC



Set Depth	Csg Details	Hole Size
1060'	13 3/8" 68# K-55 BUTT 1200 sxs circ 290 sx	17 1/2"
Intermediate		
3000'	9 5/8" 53.5# & 47# N-80 LTC 1050 sxs circ 244 sx	12 1/4"

PROPOSED

CASING ISSUES (9/27/2000)
Csg Leak @ 5028-62'
4 Sqz holes @ 5,450'
New CMT top @ 3400'

PERFORATIONS:

MCKEE: 9356-76' 2 SPF
Perf 9378-9441' (Zone C) 2 SPF
Perf McKee Interval A and B:
9236'-9257' (Zone A)
-42 holes, 2SPF
9285'-9314' (Zone B)
- 58 holes, 2SPF

PROD		
7930'	7" 29# N-80 LTC 1000 sx DV tool @ 6990' TOC @ 7406' temp survey	8 1/2"
LINER		
9560'	5" 18# N-80, Top = 7705' 450 sx, TOC @ 7396' temp survey	6 1/8"

Tubing Details: Run Date: PROPOSED

Description	Qty	Length	Depth
2 7/8" 6.5# Cmt lined	292	9,216.00	9,216
AS1-X Packer	1	4.00	9,220

Proposed Injection Interval
9236'-9441'

Formation Tops
YATES - 2487 7 RIVERS - 2753 QUEEN - 3268 SAN ANDRES - 3792 PADDOCK - 5004 BLINBRY - 5300 TUBB - 5947 DRINKARD - 6250 SIMPSON - 8858 MCKEE - 9186

Completion Details
2000: acidized w/ 4000 gals 15% HCL, FRAC w/ 150,000# 16/30 sand

Pumping Unit

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35106
WELL NAME & NUMBER: C E LAMUNYON #71Y
WELL LOCATION: **2305 FNL 1280 FWL** E 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELL CONSTRUCTION DATA

Surface Casing

Hole Size:	17-1/2"
Casing Size:	13-3/8"
Depth Set:	1060'
Top of Cement:	surface
Cement with	1200 sx
Method Determined:	circulated

Intermediate Casing

Hole Size:	12-1/4"
Casing Size:	9-5/8"
Depth Set:	3000'
Top of Cement:	surface
Cement with	1050 sx
Method Determined:	circulated

Production Casing

Hole Size:	8-1/2"
Casing Size:	7"
Depth Set:	7930'
Top of Cement:	7406'
Cement with	1000 sx
Method Determined:	CBL

Production Liner

Hole Size:	6-1/8"
Liner Size:	5"
Bottom Depth Set:	9560'
Top Depth Set:	7705'
Cement with	450 sx

Proposed Injection Interval

Mckee Sand member of the Simpson Fm
~9236' to 9441'
Zone will be Perforated

Tubing

Tubing Size:	2-7/8"
Lining Material:	Cement
Type of Packer:	AS1-X
Packer Depth Set:	~9220'

Additional Data

1. NOT a new well.
    1. Currently an oil well.
2. Injection Formation: Mckee Sand member of the Simpson Fm .
3. Pool: [58900] TEAGUE;SIMPSON
4. Well has NOT been perforated within more than one zone.
5. Overlying & Underlying Zones:
    1. Overlying Oil/Gas Zone: Devonian
        1. Depth of Zone: +/- 7,300'
    2. Underlying Oil Zone: Ellenburger
        1. Depth of Zone: +/- 9,800'

III. Well Data

INJECTION WELL DATA SHEET

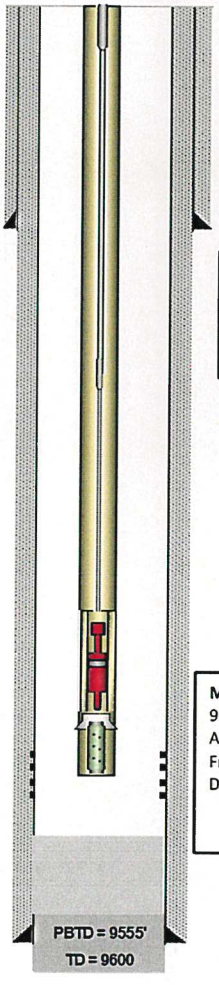
OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35624
WELL NAME & NUMBER: C E LAMUNYON #80
WELL LOCATION: **1500 FNL 150 FWL** E 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

CURRENT WELLBORE SCHEMATIC

C E Lamunyon 80
API # 30-025-35624
Lea County, NM
T23S R37E Sec 27
1500' FNL 150' FWL

Spud	Apr-03
Initial Comp	Jun-03

CURRENT



Surface Casing: (4/16/03)
OD = 13 3/8" Grade: H-40
Wt = 48 lb/ft
Depth = 1115' Hole = 17 1/2"
1000 sks TOC = circulated

Production Casing: (4/16/03)
OD = 5-1/2"
Wt = 17 lb/ft
Depth = 9600' Hole = 8 1/2"
3925 sks TOC = circulated

Tubing Properties:
OD = 2 7/8" ID = 2.441" ID
Depth: 9251'

McKee Perf Interval:
9442-62' (2 SPF)
Acdz w/ 1000 gals 15% acid.
Frac w/ 93975#16/30 super DC + 4000# 100 mesh

PBTD = 9555'
TD = 9600

WO History Highlights	
Perf	C, 54

Joint 31.6

Tubing Details

Type	OD	Grade	Qty	Length	Depth
KB			1		
Wellhead			1		
Subs					
Joints					
TAC					
Joints					
SN					
Slotted Sub					
BPMA					
EOT					0

FG 37.5 Rod 25

Rod Details

Type	OD	Grade	Qty	Lgth	Depth
KB					
PR					
Subs					
Steel					
Steel					
Steel					
Sinker Bars					
Pump					
Gas Anchor					

Date	Formation	Tops	Matrix		
	Simpson	8959'			
	McKee	9275'			

Engineer Name/Date: Jun Hin Loi Aug2021

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35624
WELL NAME & NUMBER: C E LAMUNYON #80
WELL LOCATION: **1500 FNL 150 FWL** E 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

PROPOSED WELLBORE SCHEMATIC

C E Lamunyon 80
API # 30-025-35624
Lea County, NM
T23S R37E Sec 27
1500' FNL 150' FWL

Spud Apr-03
Initial Comp Jun-03

PROPOSED

Tubing Properties:
OD = 2 7/8" Cement Lined
Depth: 9294'

Surface Casing: (4/16/03)
OD = 13 3/8" Grade: H-40
Wt = 48 lb/ft
Depth = 1115' Hole = 17 1/2"
1000 sks TOC = circulated

Production Casing: (4/16/03)
OD = 5-1/2"
Wt = 17 lb/ft
Depth = 9600' Hole = 8 1/2"
3925 sks TOC = circulated

McKee Perf Interval A and B:
9321'-9342' (Zone A), 2SPF
-42 holes
9375'-9409' (Zone B), 2SPF
- 68 holes

McKee Perf Interval:
9442-62' (2 SPF)
Acdz w/ 1000 gals 15% acid.
Frac w/ 93975# 16/30 super DC + 4000# 100 mesh
Perf 9464-9524' (Zone C) 2 SPF

PBTD = 9555'
TD = 9600

WO History Highlights	
Perf	C, 54
Perf	in zone A and B

Proposed Injection Interval
9321'-9524'

Joint 31.63

Tubing Details

Type	OD	Grade	Qty	Length	Depth
Joints	2 7/8"	Cmt Lined	294	9299	9299
Packer		AS1-X	1	4	9303

FG 37.5 Rod 25

Rod Details

Type	OD	Grade	Qty	Lgth	Depth
KB					
PR					
Subs					
Steel					
Steel					
Steel					
Sinker Bars					
Pump					
Gas Anchor					

Date	Formation	Tops	Matrix		
	Simpson	8959'			
	McKee	9275'			

Engineer Name/Date: Jun Hin Loi Aug2021

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35624
WELL NAME & NUMBER: C E LAMUNYON #80
WELL LOCATION: **1500 FNL 150 FWL** E 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELL CONSTRUCTION DATA

Surface Casing

Hole Size:	17-1/2"
Casing Size:	13-3/8"
Depth Set:	1115'
Top of Cement:	surface
Cement with	1000 sx
Method Determined:	circulated

Production Casing

Hole Size:	8-1/2"
Casing Size:	5-1/2"
Depth Set:	9600'
Top of Cement:	surface
Cement with	3925 sx
Method Determined:	circulated

Proposed Injection Interval

Mckee Sand member of the Simpson Fm
~9321' to 9524'
Zone will be Perforated

Tubing

Tubing Size:	2-3/8"
Lining Material:	Cement
Type of Packer:	AS1-X
Packer Depth Set:	~9294'

Additional Data

1. NOT a new well.
    1. Currently an oil well.
2. Injection Formation: Mckee Sand member of the Simpson Fm .
3. Pool: [58900] TEAGUE;SIMPSON
4. Well has NOT been perforated within more than one zone.
5. Overlying & Underlying Zones:
    1. Overlying Oil/Gas Zone: Devonian
        1. Depth of Zone: +/- 7,300'
    2. Underlying Oil Zone: Ellenburger
        1. Depth of Zone: +/- 9,800'

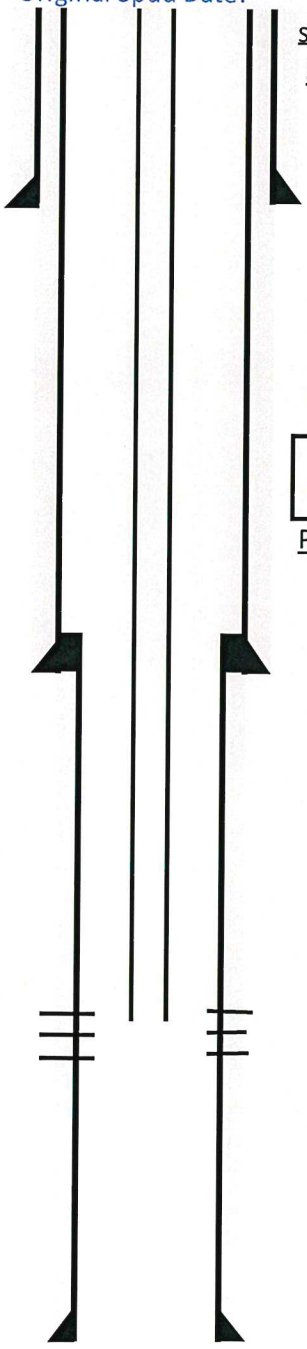
III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35932
WELL NAME & NUMBER: C E LAMUNYON #81
WELL LOCATION: **230 FNL 150 FWL** D 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

CURRENT WELLBORE SCHEMATIC

Surf Location: Sec 27 T23S R37E GL Elev: 3289' RKB: 3306'
Wellhead TVD: PBTD: 9496 TD: 9550
Original Spud Date: 3/4/2003 Completed Pool: McKee



	Set Depth	Csg Details	Hole Size
Surface	1119'	13 3/8" H-40 48# 1200 sks, TOC = circulated	17.50 inch
Production	7698'	7" 26# N-80 475 sks, TOC = 4230' (CBL)	8.50 inch
Liner	9550'	5" 18# N-80 600 sks, TOC = circulated TOL @ 7496'	6.13 inch

CURRENT

PERFORATIONS:

2003: 9400-20' 2 SPF (0.38" holes)

Tubing Details: Run Date: 6/24/2021

Description	JTS	Length	KB Depth
KB	1	17.0	17
Wellhead	1		17
2 7/8" 6.5#	216	6,984.36	7,001
2 3/8" 4.7#	12	400.00	7,401
4' Marker	1	4.00	7,405
2 3/8" x 7 TAC	1	3.50	7,409
2 3/8" 4.7#	54	1,736.00	9,145
2" x 1.78" SN	1	1.10	9,146
XO	1	0.60	9,147
4' Screen Sub w/ dip tube	1	4.00	9,151
2 3/8" Odessa Desander	1	26.00	9,177
2 3/8" Mud jts w/ bull plug	8	256.00	9,433

Pump Details: Run Date: 6/24/2021

Description	Size	Qty	Length	Depth
Pony Rods	1.00	4	35	35
1.25" FG Rods	1.25	110	4,125	4,160
1" Rods	1.00	62	1,550	5,710
7/8" Rods	7/8"	124	3,100	8,810
Sinker Bar 1 1/2"	1.50	14	350	9,160
Shear Tool	??	1	4	9,164
Sinker Bar 1 1/2"	1.50	1	25	9,189

Pump Description
20-15--RHBM-30-5 , 5' **Plunger w/ PA rings**, double valve SV.

Formation Tops

YATES	2,560	SAN ANDRES	3,774	Drink	6112
7 RIVERS	2,828	GLORIETA	4,928	ABO	6450
QUEEN	3,234	BLINBRY	5,278	Devon	7246
GRAYBU	3,492	TUBB	5,979	MCKEE	9234

Completion Details
2003: acid w Frac w 36,500 gal Spectra Gel 108,840 20/40 sd (31 BPM)
6/2021: LAST WORKOVER - Sounded perfs 20', Scanned tubing, mud jts were full of sand. 1- red, 34 green, rest blue/yellow, no comment on jts laid down.

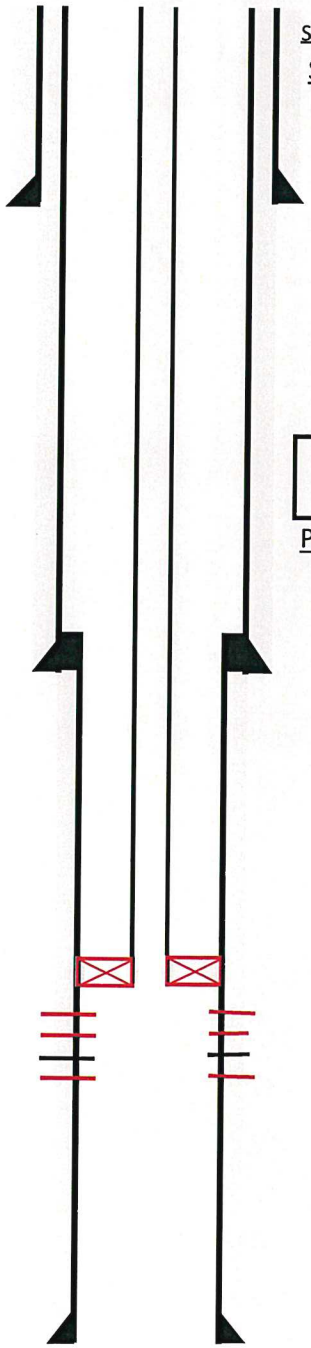
Pumping Unit	SPM	Stroke Length
LUFKIN C640D-256-120	9	120

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35932
WELL NAME & NUMBER: C E LAMUNYON #81
WELL LOCATION: **230 FNL 150 FWL** D 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

PROPOSED WELLBORE SCHEMATIC



Set Depth	Csg Details	Hole Size
Surface		
1119'	13 3/8" H-40 48#	17.50 inch
	1200 sks, TOC = circulated	

PROPOSED

Production		
7698'	7" 26# N-80	8.50 inch
	475 sks, TOC = 4230' (CBL)	

PERFORATIONS:

2003: 9400-20' 2 SPF (0.38" holes)
Perf 9422-9484' (Zone C) 2 SPF

McKee Perf Interval A and B:
9285'-9300' (Zone A)
-30 holes
9335'-9375' (Zone B)
- 80 holes

Liner		
9550'	5" 18# N-80	6.13 inch
	600 sks, TOC = circulated	
	TOL @ 7496'	

Tubing Details: **Run Date:** 6/24/2021

Description	JTS	Length	KB Depth
KB	1	17.0	17
Wellhead	1		17
2 7/8" 6.5# Cement Lined	1	9,270.00	9,270
AS1-X Packer	1	4.00	9,274

Proposed Injection Interval
9283'-9484'

Formation Tops

YATES	2,560	SAN ANDRES	3,774	Drink	6112
7 RIVERS	2,828	GLORIETA	4,928	ABO	6450
QUEEN	3,234	BLINBRY	5,278	Devon	7246
GRAYBU	3,492	TUBB	5,979	MCKEE	9234

Completion Details

2003: acid w Frac w 36,500 gal Spectra Gel 108,840 20/40 sd (31 BPM)
6/2021: LAST WORKOVER - Sounded perfs 20', Scanned tubing, mud jts were full of sand. 1- red, 34 green, rest blue/yellow, no comment on jts laid down.

Pumping Unit	SPM	Stroke Length

III. Well Data

INJECTION WELL DATA SHEET

OPERATOR: FAE II Operating, LLC
API NUMBER: 30-025-35932
WELL NAME & NUMBER: C E LAMUNYON #81
WELL LOCATION: **230 FNL 150 FWL** D 27 23S 37E
FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELL CONSTRUCTION DATA

Surface Casing

Hole Size:	17-1/2"
Casing Size:	13-3/8"
Depth Set:	1119'
Top of Cement:	surface
Cement with	1200 sx
Method Determined:	circulated

Production Casing

Hole Size:	8-1/2"
Casing Size:	7"
Depth Set:	7698'
Top of Cement:	4230'
Cement with	475 sx
Method Determined:	CBL

Production Liner

Hole Size:	6-1/8"
Liner Size:	5"
Bottom Depth Set:	9550'
Top Depth Set:	7496'
Cement with	600 sx

Proposed Injection Interval

Mckee Sand member of the Simpson Fm
~9283' to 9484'
Zone will be Perforated

Tubing

Tubing Size:	2-7/8"
Lining Material:	Cement
Type of Packer:	AS1-X
Packer Depth Set:	~9274'

Additional Data

1. NOT a new well.
    1. Currently an oil well.
2. Injection Formation: Mckee Sand member of the Simpson Fm .
3. Pool: [58900] TEAGUE;SIMPSON
4. Well has NOT been perforated within more than one zone.
5. Overlying & Underlying Zones:
    1. Overlying Oil/Gas Zone: Devonian
        1. Depth of Zone: +/- 7,300'
    2. Underlying Oil Zone: Ellenburger
        1. Depth of Zone: +/- 9,800'

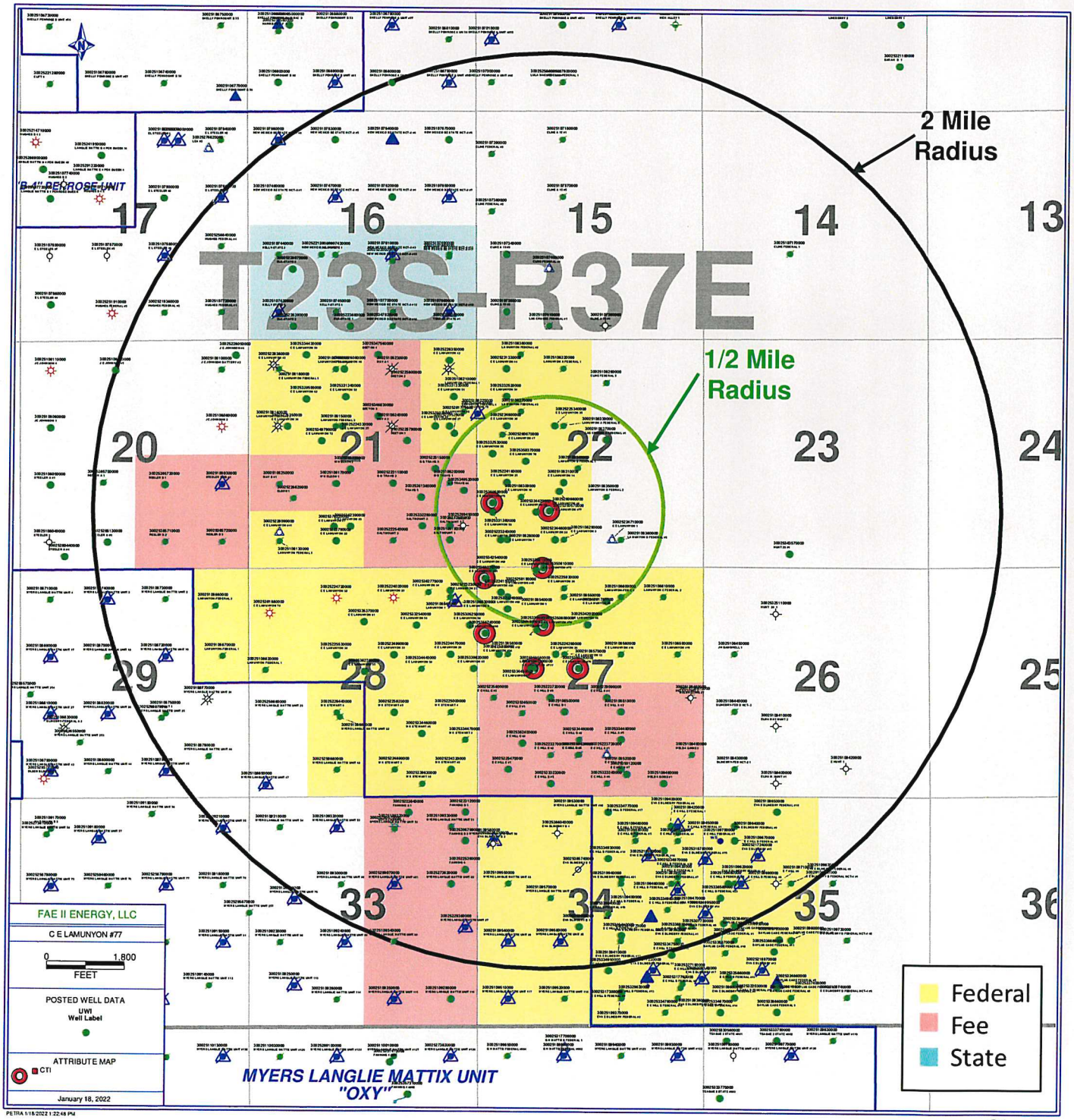
Part V.

V.

Exhibit A1 shows 41 unique well locations within a ½ mile radius of the proposed new drill injector location, and 283 unique well locations within a 2 mile radius.

C E LAMUNYON #77

API: 30-025-35057

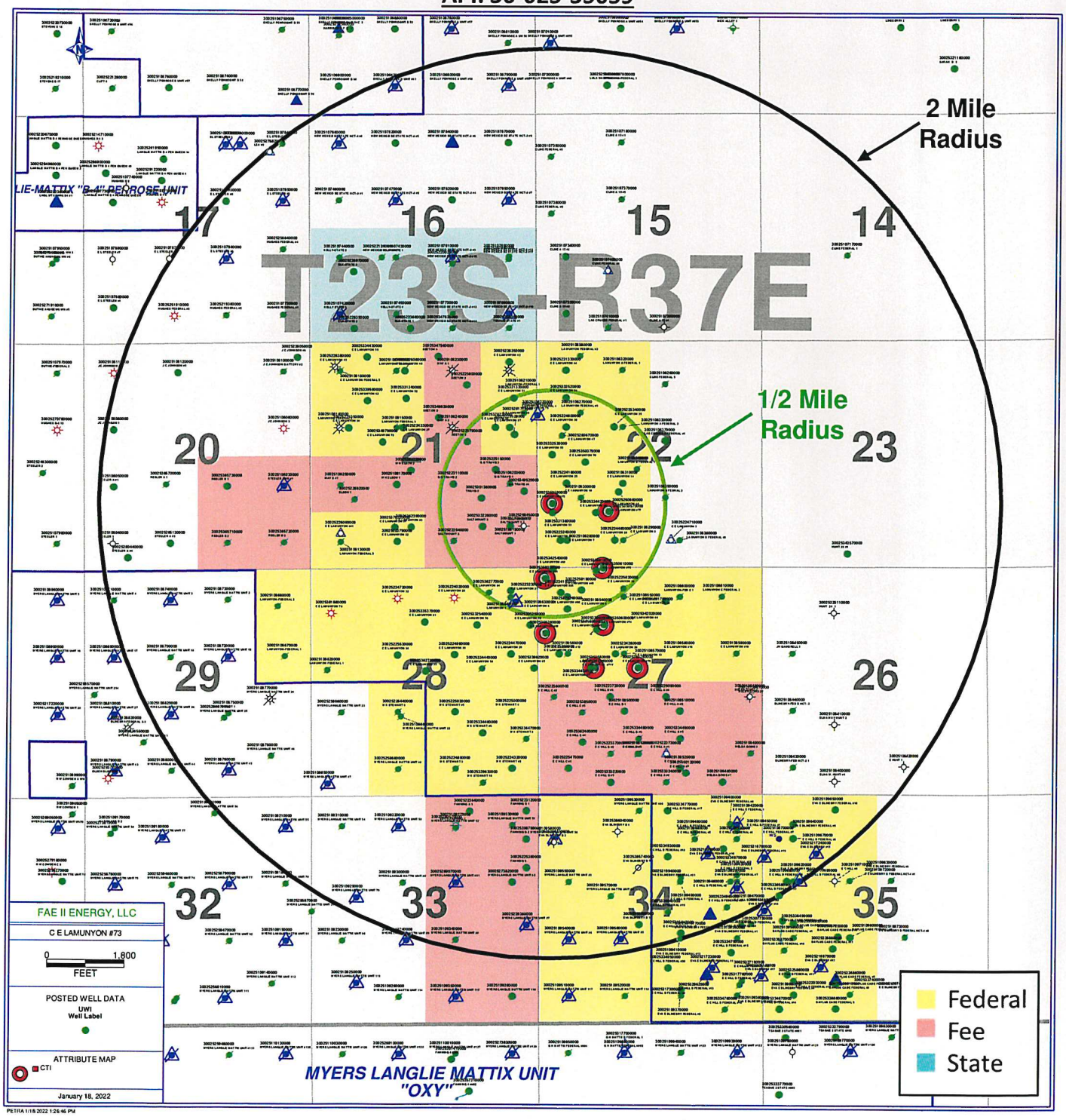


V.

Exhibit A2 shows 51 unique well locations within a ½ mile radius of the proposed new drill injector location, and 293 unique well locations within a 2 mile radius.

C E LAMUNYON #73

API: 30-025-35059

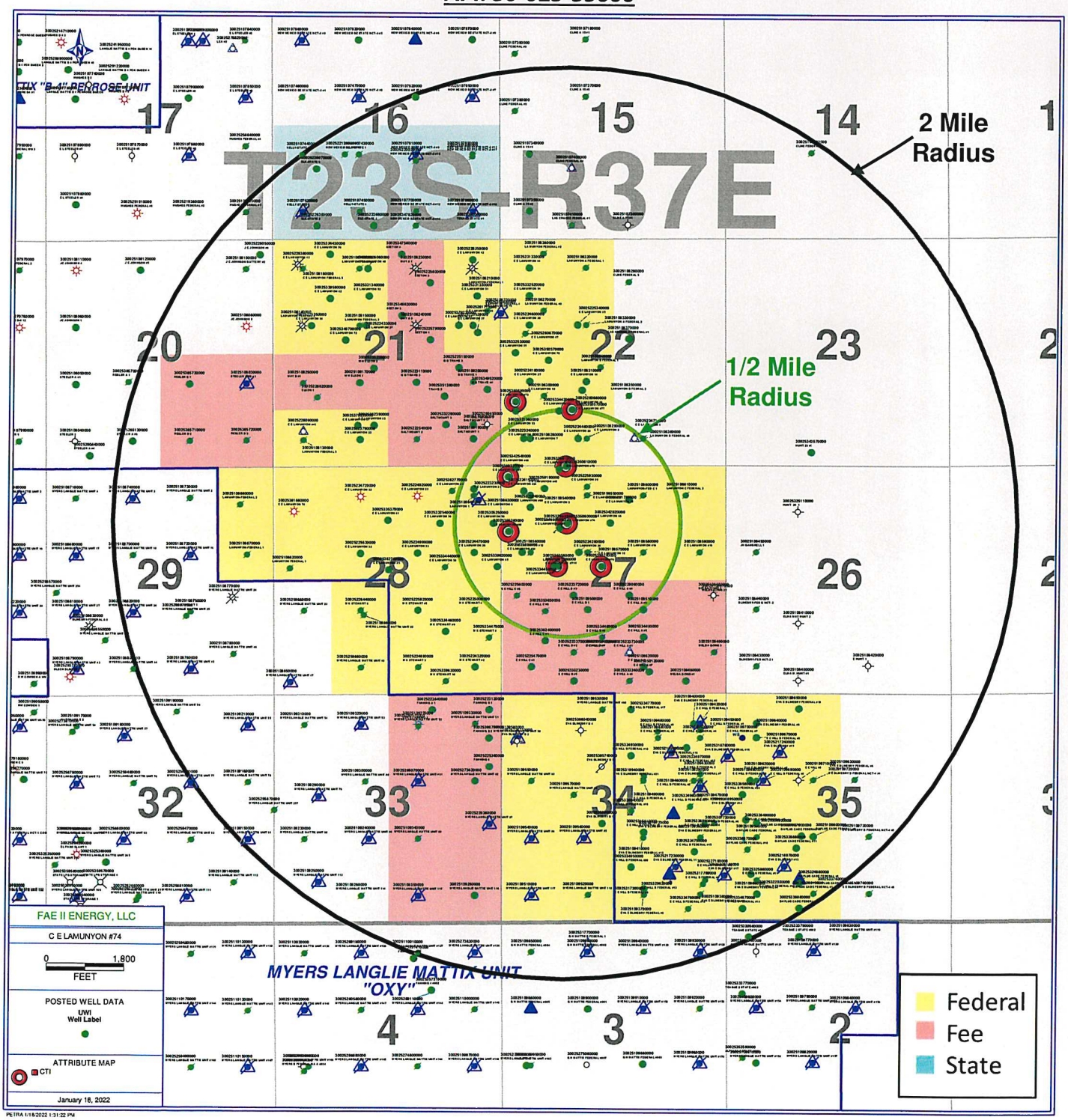


V.

Exhibit A3 shows 44unique well locations within a ½ mile radius of the proposed new drill injector location, and 319 unique well locations within a 2 mile radius.

C E LAMUNYON #74

API: 30-025-35060

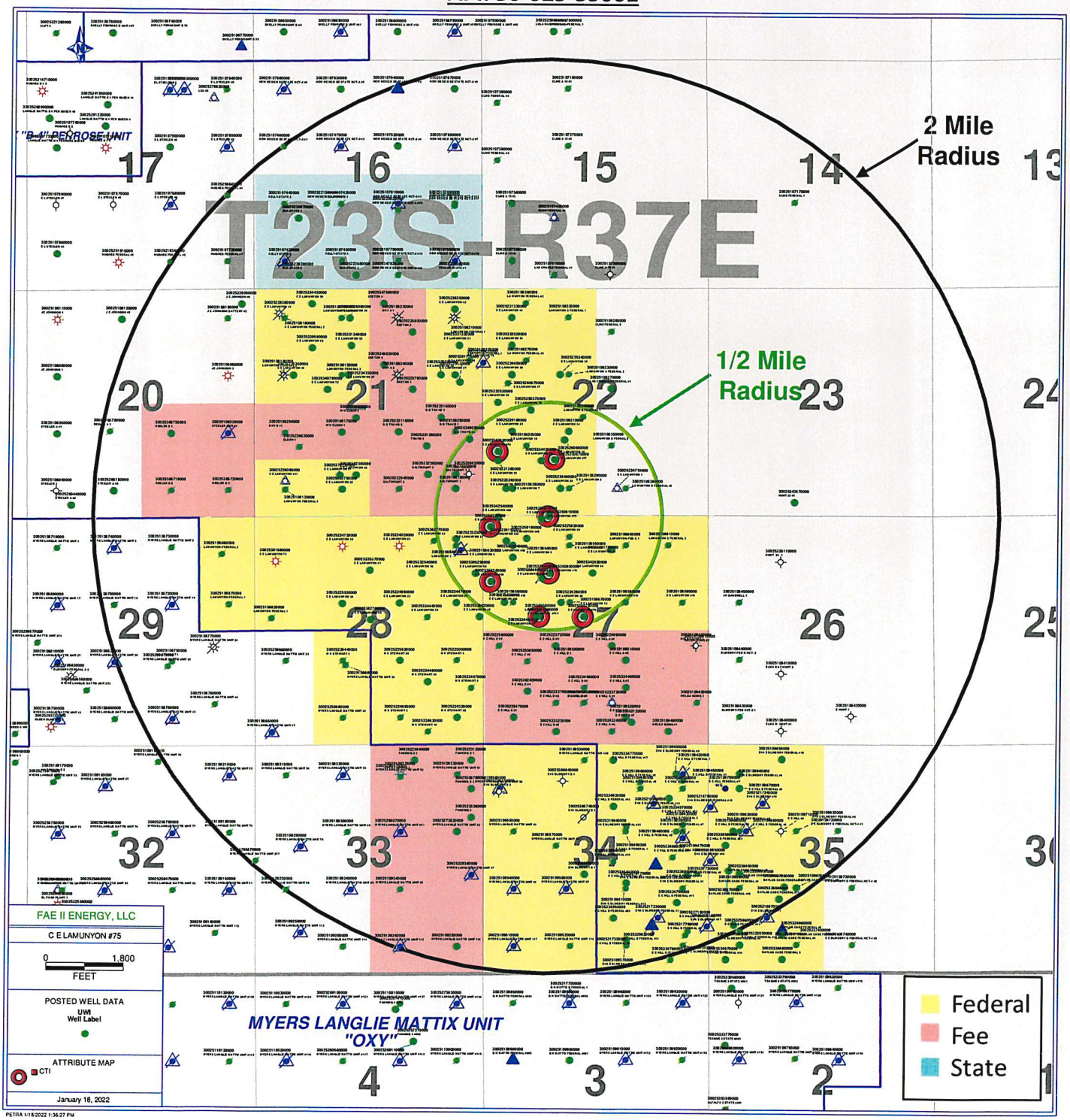


V.

Exhibit A4 shows 50 unique well locations within a ½ mile radius of the proposed new drill injector location, and 304 unique well locations within a 2 mile radius.

C E LAMUNYON #75

API: 30-025-35061

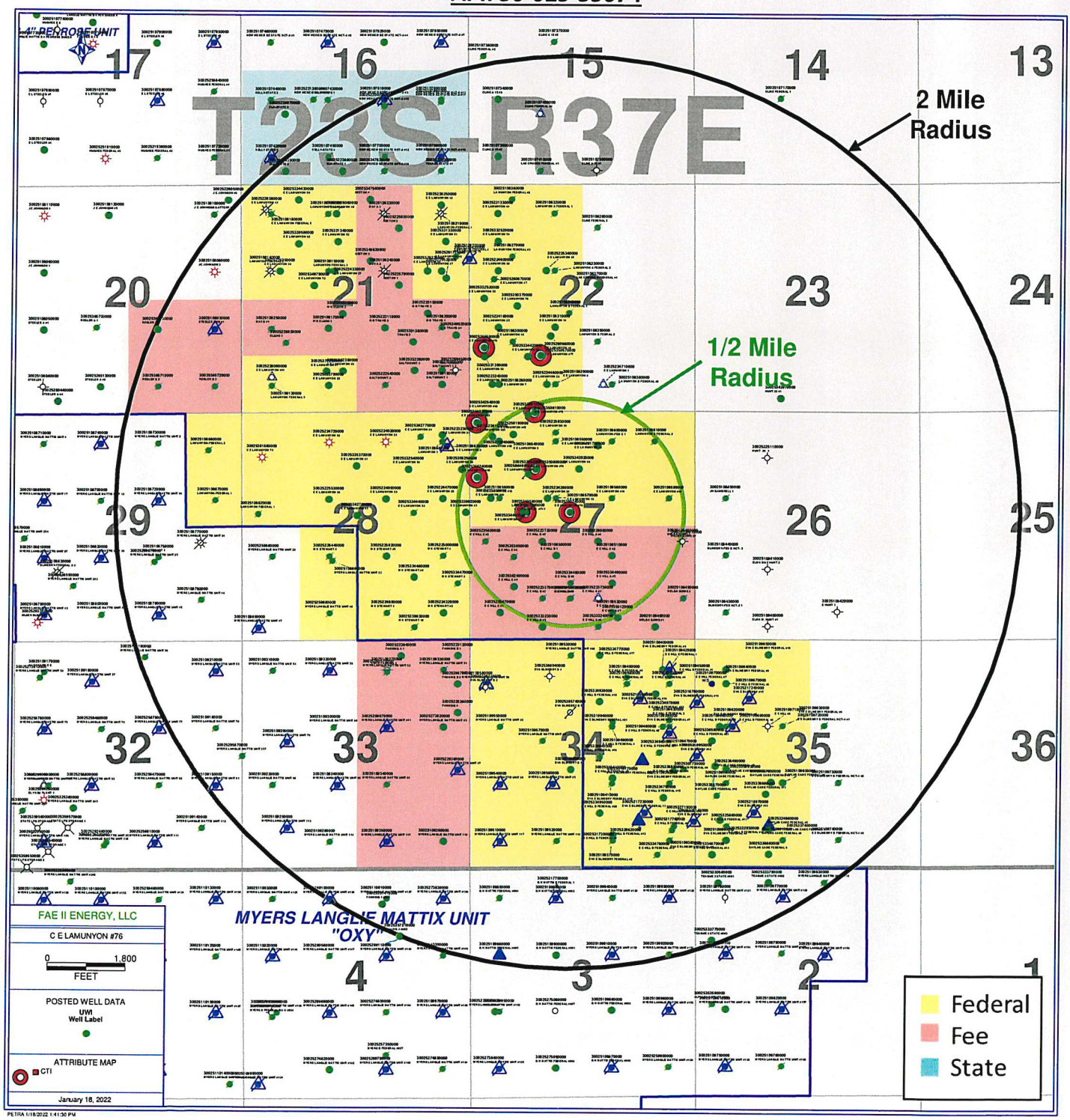


V.

Exhibit A5 shows 41 unique well locations within a ½ mile radius of the proposed new drill injector location, and 315 unique well locations within a 2 mile radius.

C E LAMUNYON #76

API: 30-025-35074

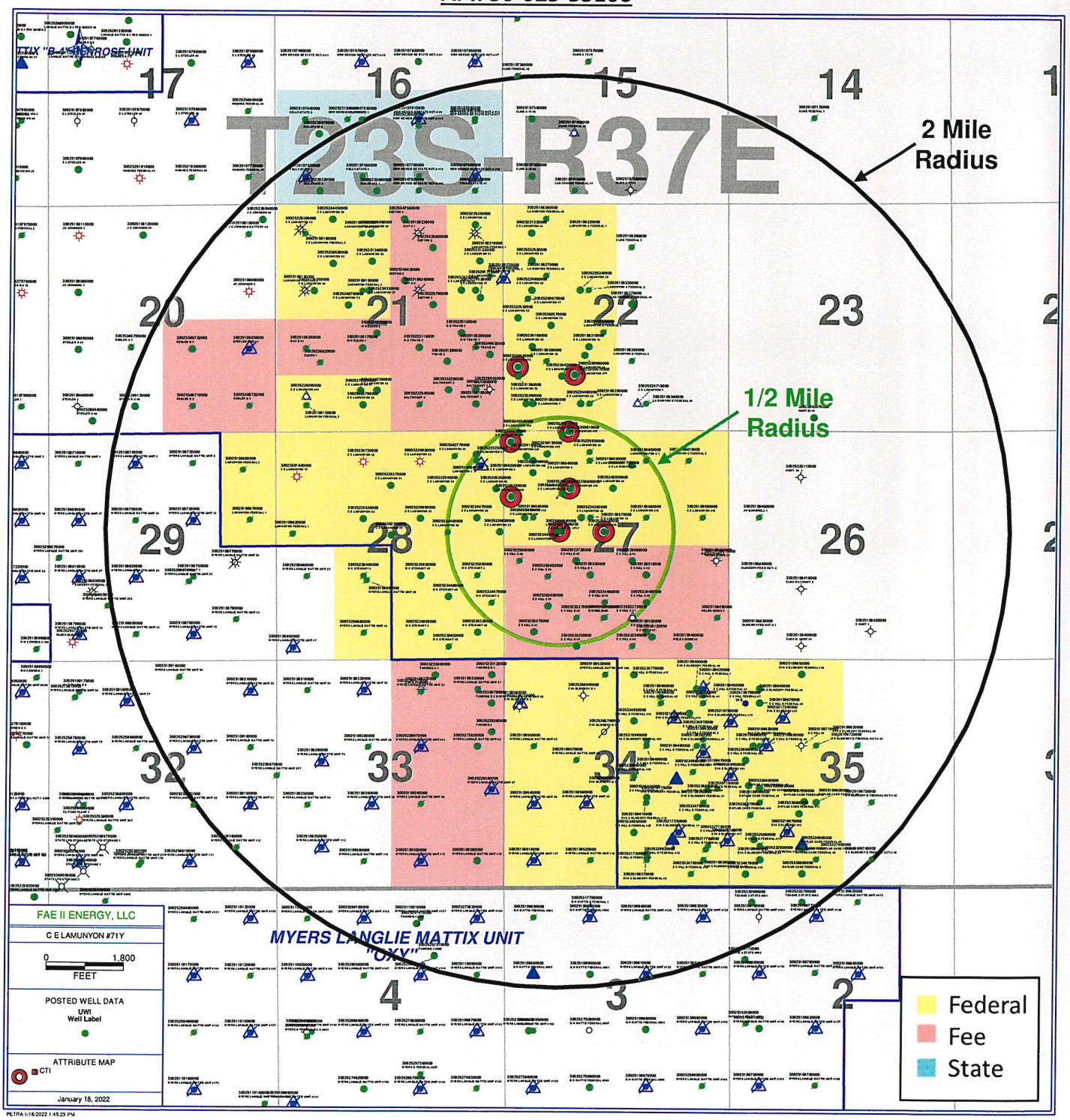


V.

Exhibit A6 shows 48 unique well locations within a ½ mile radius of the proposed new drill injector location, and 323 unique well locations within a 2 mile radius.

C E LAMUNYON #71Y

API: 30-025-35106



V.

Exhibit A7 shows 45 unique well locations within a ½ mile radius of the proposed new drill injector location, and 331 unique well locations within a 2 mile radius.

C E LAMUNYON #80

API: 30-025-35624