

ARTESIA, NM 882 UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐
SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
J.C. Williamson

3. ADDRESS OF OPERATOR
P.O. Box 16 Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements*)
At surface 2173' FNL & 467' FEL
At proposed prod. zone 2173' FNL & 467' FEL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
18 miles Southeast of Malaga, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
2173'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
467'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
2990 GR

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	12 3/4"	35#	350'	300 sx circulate
11"	8 5/8"	24# & 28#	3300'	150 sx tie back to base of salt
7 7/8"	4 1/2"	10.5#	6500'	1200 sx in two stages

5. LEASE DESIGNATION AND SERIAL NO.

NM 19642 19612

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Enfield Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Section 28
T-26-S, R-30-E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

November 15, 1983

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED J.C. Williamson TITLE Operator DATE 9/20/83

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY A.A. Popey TITLE _____ DATE 10/13/83

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

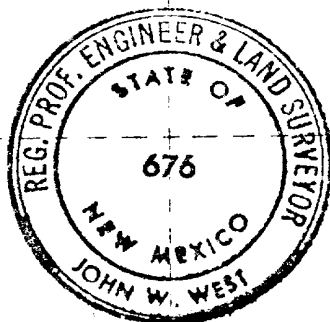
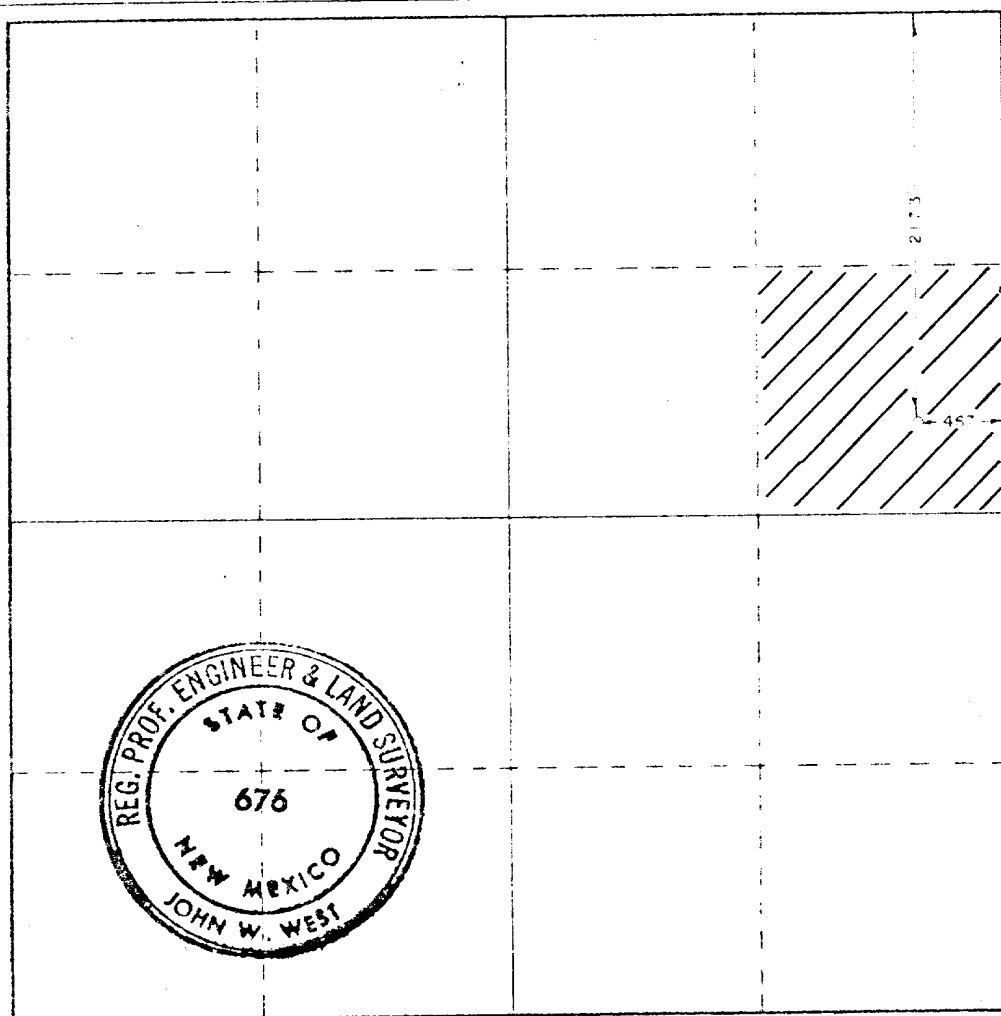
Operator J.C. WILLIAMSON		Lease ENFIELD FEDERAL		Well No. 1
Grid Letter H	Section 28	Township 26 SOUTH	Range 30 EAST	County EDDY
Actual Footage Location of Well:				
2173	feet from the NORTH	-line and 467	feet from the -EAST	• Line
Ground Level Elev. 2990.0	Producing Formation LOWER DELAWARE	Pool WILDCAT	Dedicated Acreage 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation N/A

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

J.C. Williamson
Name
J.C. WILLIAMSON

Position
OPERATOR

Company
INDEPENDENT

Date
9/22/83

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

SEPTEMBER 7, 1983

Registered Professional Engineer and/or Land Surveyor

Ronald J. Eidson
Certificate No. **JOHN W. WEST, 676**
RONALD J. EIDSON, 3239

330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

J.C. WILLIAMSON
WELL #1 ENFIELD FEDERAL

1. SURFACE FORMATION: Quaternary Alluvium

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Rustler Anhydrite	450'
Lamar	3300'
Ramsey Sand	3350'
Olds Sand	3400'
Top Cherry Canyon	4450'
Top Brushy Canyon	5500'

3. ANTICIPATED POSSIBLE WATER AND HYDROCARBON BEARING ZONES:

Fresh Water	above 300'
Delaware (Oil)	3300' - 3400'
Brushy Canyon (Oil)	5500' - 5800'

4. PROPOSED CASING AND CEMENTING PROGRAM:

Casing program is shown on Form 9-331 C.

Hole for surface casing will be drilled to a depth below fresh water zones. Surface casing will then be run to bottom and cemented to the surface to protect fresh water zones. 12 3/4" pipe will be run and cemented at 350 feet.

8 5/8" pipe will be run and cemented at 3300 feet, prior to entering Delaware section.

12 3/4" surface casing will be cemented to the surface with 300 sacks of Class "C" cement.

8 5/8" protection casing will be cemented with 150 sacks of Class "C" cement at 3300 feet, tying back into the base of the salt.

4 1/2" in production casing will be cemented at total depth or shallower if significant shows are encountered in the Brushy Canyon formation.

5. PRESSURE CONTROL EQUIPMENT:

Pressure control equipment will consist of a dual ram hydraulically controlled blow out preventer.

6. CIRCULATING MEDIUM:

The circulating medium will be fresh water down to 350 feet and brine water in the rest of the hole.

7. AUXILIARY EQUIPMENT:

Not applicable.

8. TESTING, LOGGING AND CORING PROGRAM:

Formation test will be made by conventional drill stem test. None are anticipated.

It is planned that a compensated neutron-density gamma ray and dual laterolog will be run when total depth is reached.

No coring is planned.

9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE GAS:

None anticipated.

10. ANTICIPATED STARTING DATE:

It is planned that operating will commence on November 15, 1982, or as soon as this application is approved.

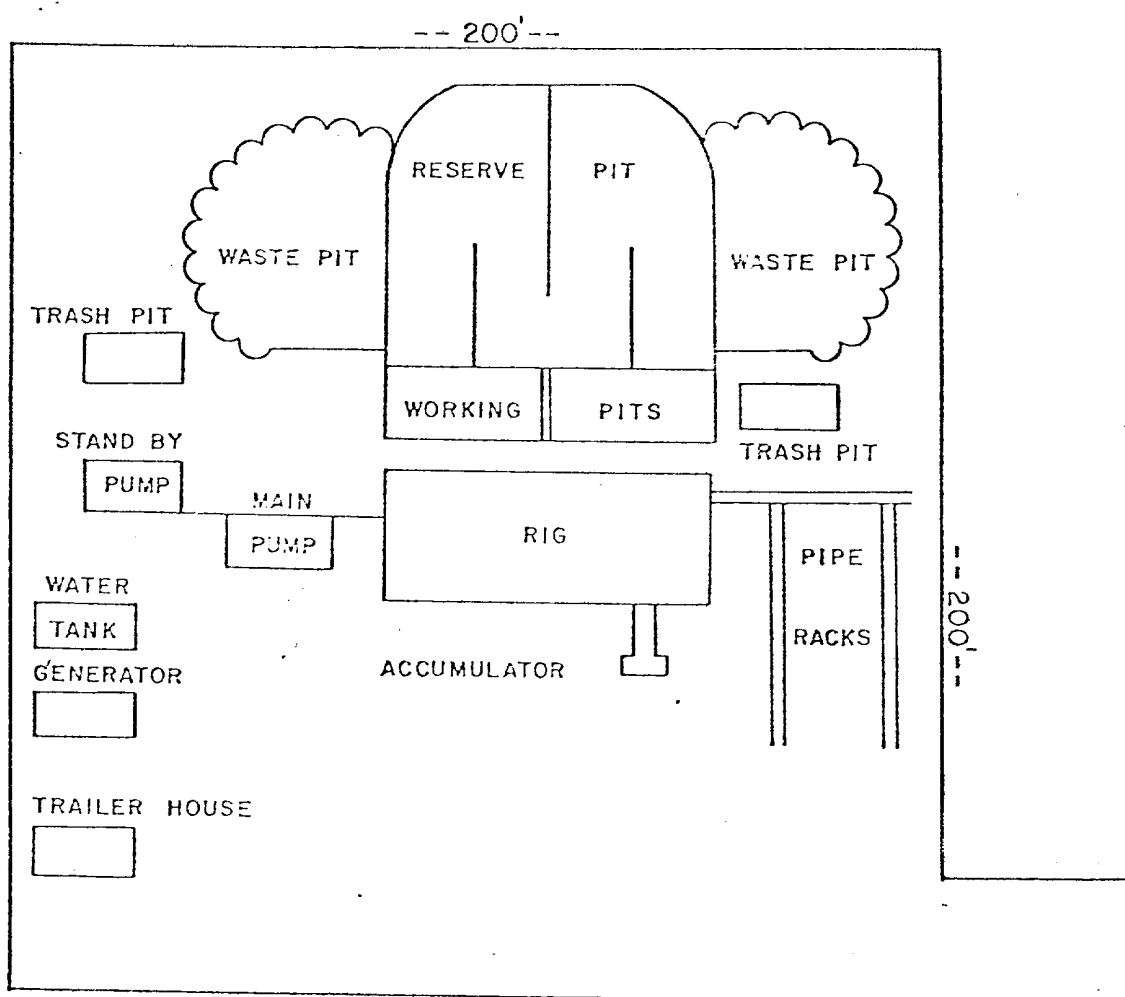
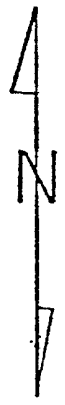


EXHIBIT "D"

J. C. Williamson
#1 Enfield Federal