

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY30-025-2705-8
5. LEASE DESIGNATION AND SERIAL NO.

NM38473

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal 7

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wentz (ABO DRINKARD)

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

7-21S-38E

12. COUNTY OR PARISH 13. STATE

Lea N. Mex.

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

Laguna Petroleum Company

3. ADDRESS OF OPERATOR

One Marienfeld Place Suite 370 Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

660' ENL & 990' FWL D, 7, 21S, 38E
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

5 miles north east of Eunice New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

400

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

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

19. PROPOSED DEPTH

7700'

20. ROTARY OR CABLE TOOLS

Rotary

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

3534.8' Gr.

22. APPROX. DATE WORK WILL START*

Nov. 1, 1980

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	85/8"	24	900	455 Sks. Circulate
77/8"	4 1/2"	10.5	7700	1795 Sks. Circulate

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"RECEIVED
AUG 29 1980U. S. GEOLOGICAL SURVEY
HOBBS, NEW MEXICO

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

Wayne Edge

TITLE

Drlg. Supt.

DATE 8-28-80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY (Orig. Sgd.) PETER W. CHESTER

TITLE ACTING DISTRICT ENGINEER

DATE SEP 16 1980

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-101
Supersedes O-128
Effective 1-1-85

All distances must be from the outer boundaries of the Section

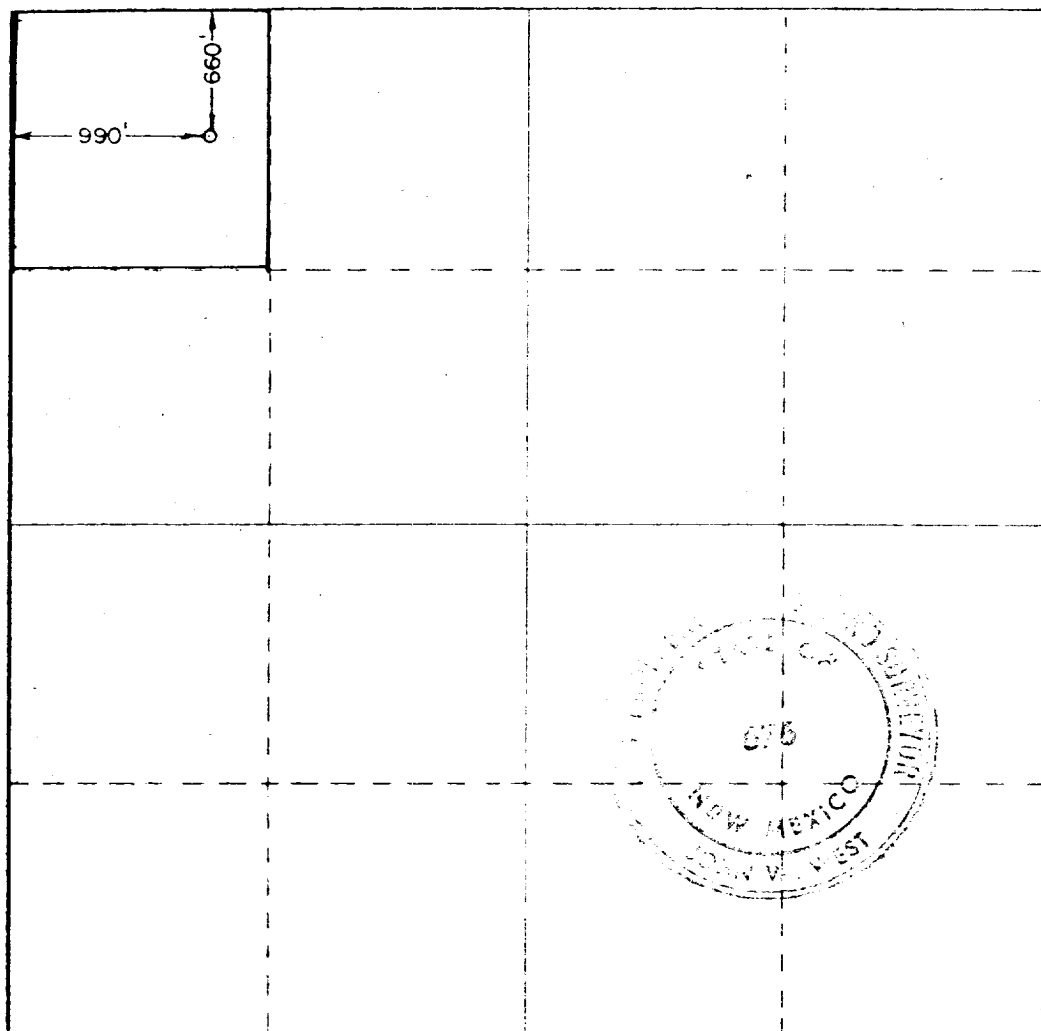
Operator Laguna Petroleum Co.			Lease Federal 7		Well No. 1
Unit Letter D	Section 7	Township 21 South	Range 38 East	County Lea	
Actual Well Location of Well: 660 feet from the North line and 990 feet from the West line					
Ground Level Elev. 3534.8	Producing Formation DRINKARD		Foot Drinkard	Dedicated 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 _____

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.

Name
Wayne Edge
Position
Drig. Supt.

Company
Laguna Petroleum Company

Date
August 28, 1980

I hereby certify that the well location shown on this plat was plotted from field notes or 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
July 17, 1980

Registered Professional Engineer
and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST 676**
PATRICK A. ROMERO 6868
Ronald J. Eidson 3239

0 800 1000 1500 2000 2500 2640 2810 3080 3350 3620 3890 4160 4430 4700 4970 5240 5510 5780 6050 6320 6590 6860 7130 7400 7670 7940 8210 8480 8750 9020 9290 9560 9830 10100 10370 10640 10910 11180 11450 11720 11990 12260 12530 12800 13070 13340 13610 13880 14150 14420 14690 14960 15230 15500 15770 16040 16310 16580 16850 17120 17390 17660 17930 18200 18470 18740 19010 19280 19550 19820 20090 20360 20630 20900 21170 21440 21710 21980 22250 22520 22790 23060 23330 23600 23870 24140 24410 24680 24950 25220 25490 25760 26030 26300 26570 26840 27110 27380 27650 27920 28190 28460 28730 29000 29270 29540 29810 30080 30350 30620 30890 31160 31430 31700 31970 32240 32510 32780 33050 33320 33590 33860 34130 34400 34670 34940 35210 35480 35750 36020 36290 36560 36830 37100 37370 37640 37910 38180 38450 38720 38990 39260 39530 39800 40070 40340 40610 40880 41150 41420 41690 41960 42230 42500 42770 43040 43310 43580 43850 44120 44390 44660 44930 45200 45470 45740 46010 46280 46550 46820 47090 47360 47630 47900 48170 48440 48710 48980 49250 49520 49790 50060 50330 50600 50870 51140 51410 51680 51950 52220 52490 52760 53030 53300 53570 53840 54110 54380 54650 54920 55190 55460 55730 56000 56270 56540 56810 57080 57350 57620 57890 58160 58430 58700 58970 59240 59510 59780 60050 60320 60590 60860 61130 61400 61670 61940 62210 62480 62750 63020 63290 63560 63830 64100 64370 64640 64910 65180 65450 65720 65990 66260 66530 66800 67070 67340 67610 67880 68150 68420 68690 68960 69230 69500 69770 70040 70310 70580 70850 71120 71390 71660 71930 72200 72470 72740 73010 73280 73550 73820 74090 74360 74630 74900 75170 75440 75710 75980 76250 76520 76790 77060 77330 77600 77870 78140 78410 78680 78950 79220 79490 79760 80030 80300 80570 80840 81110 81380 81650 81920 82190 82460 82730 83000 83270 83540 83810 84080 84350 84620 84890 85160 85430 85700 85970 86240 86510 86780 87050 87320 87590 87860 88130 88400 88670 88940 89210 89480 89750 90020 90290 90560 90830 91100 91370 91640 91910 92180 92450 92720 92990 93260 93530 93800 94070 94340 94610 94880 95150 95420 95690 95960 96230 96500 96770 97040 97310 97580 97850 98120 98390 98660 98930 99200 99470 99740 100010 100280 100550 100820 101090 101360 101630 101900 102170 102440 102710 102980 103250 103520 103790 104060 104330 104600 104870 105140 105410 105680 105950 106220 106490 106760 107030 107300 107570 107840 108110 108380 108650 108920 109190 109460 109730 110000 110270 110540 110810 111080 111350 111620 111890 112160 112430 112700 112970 113240 113510 113780 114050 114320 114590 114860 115130 115400 115670 115940 116210 116480 116750 117020 117290 117560 117830 118100 118370 118640 118910 119180 119450 119720 120000

Supplemental Drilling Data

LAGUNA PETROLEUM COMPANY

Federal 7 Well #1

I. Surface formation: Aeolian Material, Typic Torripsamment soils.

II. Estimated Tops of Geologic Markers:

Anhydrite	1,580'
Salt	1,670'
B/Salt	2,700'
Yates	2,870'
Seven-Rivers	3,120'
Queen	3,680'
Grayburg	3,850'
San Andres	4,260'
Glorietta	5,530'
Blbry	5,970'
Tubb	6,490'
Drinkard	6,650'
Abo	7,100'

III. Anticipated possible water and hydrocarbon zones:

Fresh water	Above 600'
Oil or Gas	Yates - 2,870'
	Grayburg - 3,850'
	Drinkard - 6,650'
	Abo - 7,100'

IV. Proposed Casing and Cementing Program:

Casing Program is shown on Form 9-331C 8 5/8" surface casing will be cemented with sufficient class "C" cement to circulate. If 4 1/2" casing is run, we will use a DV Tool just below the salt section. Cement with sufficient cement to circulate to surface.

V. Pressure Control Equipment:

Blowout preventer stack will be a 3000 PSI working pressure stack with blank & pipe rams. The pipe rams are to be checked daily and blind rams check on trips. Sketch of BOPS Stack included.

VI. Circulating Medium:

<u>Surface to 900':</u>	Spud with fresh water gel/lime spud mud, control native viscosity 32-34 sec/1000 cc with additions of fresh water.
<u>900' to 7000':</u>	Drill this interval with fresh water cut with Brine water, use lime for control of Ph, Paper for Seepage, Make periodic hole sweeps, if needed, for hole cleaning

VI. Circulating Medium: (Cont.)

7000' to 7500':

Mud up with salt water gel and starch for protection through producing interval, maintain drilling fluid properties as hole conditions dictate.

VII. Auxiliary Equipment:

A Drill String Safety valve will be maintained on the rig floor in the open position while drilling operations are in progress.

An unmanned Gas Logging Unit will be at the well while drilling below 900'.

VIII. Testing, Logging and Coring Program:

Drill Stem Test will be made when samples, drilling rate and gas logging data are sufficient to indicate a possible pay zone.

It is planned that electric logs will include Comp. Density, Neu. w/ Caliper, 7500' to 900', GR to Surface and DILL GR logs in lower portion of hole.

No cores are planned at this time.

IX. Abnormal Pressures, Temperatures or Hydrogen Sulphide Gas:

No abnormal pressures, temperatures, or hydrogen sulphide gas are expected in this area.

X. Anticipated Starting Date:

As soon as rig is available (Approx. November 1st, 1980).

Drilling & Completion should last about 60 days.

SEP 22 1980

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