

Drawer DD
Artesia, 88210SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)Form approved,
Budget Bureau No. 42 R1425.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
MARBOB ENERGY CORPORATION ✓ (Ph. 505-746-2222)

3. ADDRESS OF OPERATOR
P. O. Box 304, Artesia, New Mexico 88210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
330' FSL & 330' FEL of Sec. 34-18S-29E
At proposed prod. zone
same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
21 air miles east-southeast of Artesia, N. M.

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 330

16. NO. OF ACRES IN LEASE
812.67

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. 1980

19. PROPOSED DEPTH
3000'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3430 G. L.

22. APPROX. DATE WORK WILL START*
January 29, 1982

5. LEASE DESIGNATION AND SERIAL NO.
LC 062029

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
--

7. UNIT AGREEMENT NAME
--

8. FARM OR LEASE NAME
BRAINARD FEDERAL

9. WELL NO.
12

10. FIELD AND POOL, OR WILDCAT
Turkey Track (SR, Q, Gb)

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
Sec. 34-18S-29E

12. COUNTY OR PARISH
Eddy

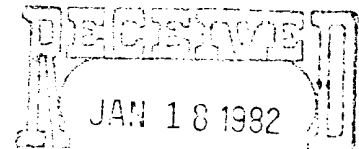
13. STATE
N. M.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	23.0#	300'	sufficient to circulate
7 7/8"	4 1/2"	9.5#	3000'	200 sacks

After setting and cementing production casing, pay interval will be perforated and stimulated as needed for production.

Attached are: 1. Well Location & Acreage Dedication Plat
2. Supplemental Drilling Data
3. Surface Use Plan

O. C. D.
U.S. GEOLOGICAL SURVEY
ROSWELE, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and propose 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 James A. Knaut TITLE Agent DATE January 11, 1982
(This space for Federal or State office use)

PERMIT NO. APPROVED

APPROVED BY JAMES A. GILLHAM
CONDITIONS OF APPROVAL, IF ANY: FEB 8 1982JAMES A. GILLHAM
DISTRICT SUPERVISORAPPROVAL DATE
APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

*See Instructions On Reverse Side

Posted ID-1
API + NL Book
2-19-82

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

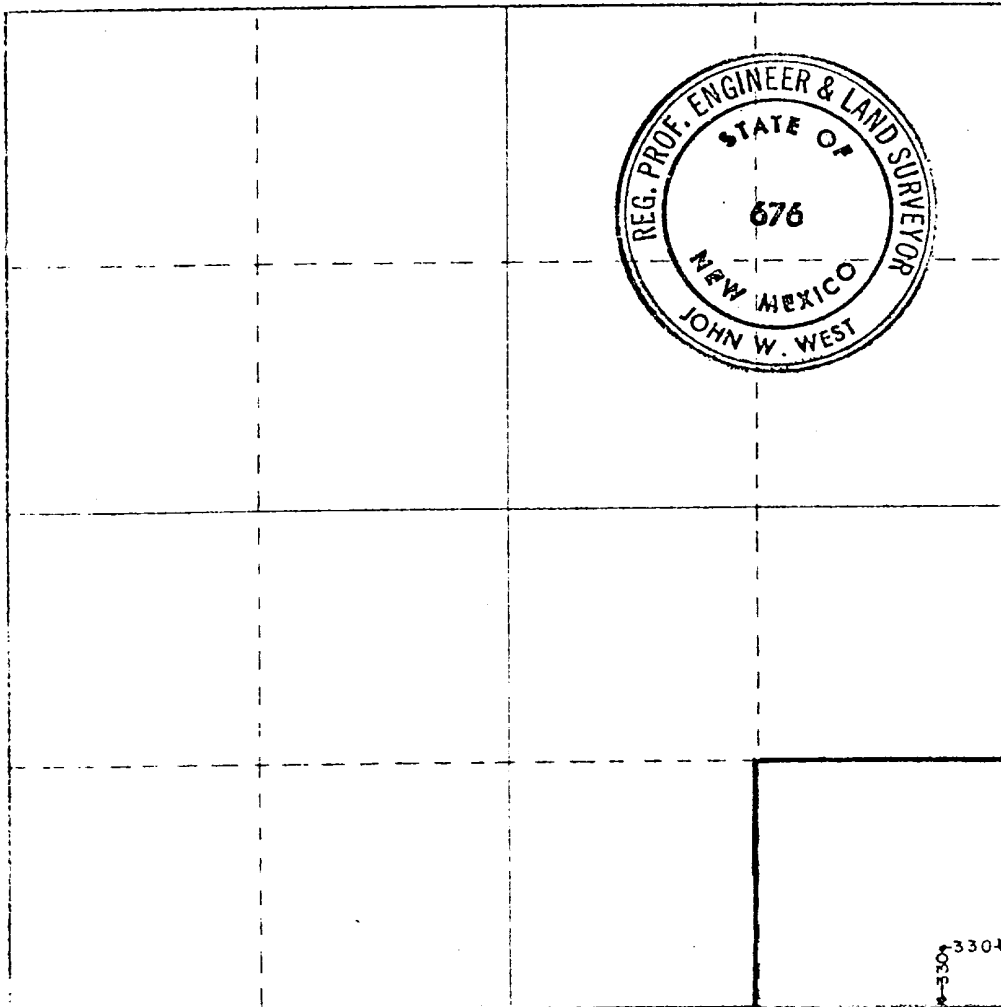
Owner MARBOB ENERGY CORP.			Lease BRAINARD FEDERAL		Well No. 12
Section P	Section 34	Township 18 SOUTH	Range 29 EAST	County EDDY	
Actual Portage Location of Well: 330 feet from the SOUTH line and 330 feet from the EAST line					
Surface Level Elev. 3430.0	Producing Formation Grayburg	Pool Turkey Track (SR, Q, Gb)		Dedicated Acreage 40 37.22 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.

James A. Knauf
Name
James A. Knauf

Position
Agent

Company
MARBOB ENERGY CORP.

Date
December 30, 1981

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
12-30-81

Registered Professional Engineer
and/or Land Surveyor

John W. West
Certificate No. **JOHN W. WEST 876**
PATRICK A. ROMERO 0683
Ronald L. Edson 3239

0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000

SUPPLEMENTAL DRILLING DATA

MARBOB ENERGY CORPORATION
WELL #12 BRAINARD FEDERAL
330' FSL & 330' FEL SEC. 34-18S-29E

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Salt	320'	Queen	2100'
Base Salt	940'	Grayburg	2490'
Yates	1210'	San Andres	2900'
Seven Rivers	1550'		

3. ANTICIPATED POROSITY ZONES:

Water	Above 150'
Oil	2100 - 2130', 2380 - 2410, 2610 - 2650, 2850 - 2900'

4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>	<u>Condition</u>
8 5/8"	0 - 300'	23 #	X-42	STC	New
4 1/2"	0 - 3000'	9.5#	K-55	STC	New

5. PRESSURE CONTROL EQUIPMENT: Double Ram-Type Preventer (600 Series).

6. CIRCULATING MEDIUM:

0 - 300' Fresh water mud with gel or lime as needed for viscosity control.

300 - 3000' Salt water mud, conditioned as necessary for control of viscosity and water loss. At 100' above TD, sweep hole with salt water gel, conditioning mud to 36 viscosity.

7. AUXILIARY EQUIPMENT: Drill string safety valve.

8. TESTING, LOGGING AND CORING PROGRAMS: No coring or DST's are planned. Electric logs will include a CNL-FDC w/GR.

9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE GAS: None anticipated.

10. ANTICIPATED STARTING DATE:

A. Road and pad construction: January 29, 1982
B. Spudding well: February 1, 1982
C. Duration of drilling and completion operations should be 10-30 days.

ROAD LOG TO PROPOSED DRILLSITE

STARTING POINT is 13.9 miles east of Artesia, New Mexico at the intersection of State Highway NM-360 with Federal Highway US-82.

- 0.00 Turn south and proceed on NM-360 in a southerly and southeasterly direction for a distance of 7.88 miles to MF-11.52. There are about a dozen oilfield signs at this crossroad.
- 7.88 Turn right (south) on caliche oilfield road and proceed in a southerly and southeasterly direction for a distance of 2.09 miles.
- 9.97 Turn left (east) on old lease road and proceed in an easterly direction for a distance of 0.35 mile.
- 10.32 New road starts at this point. Turn right (south) and proceed in a southeasterly direction for a distance of 0.08 mile to the west edge of the proposed drillsite.
- 10.40 PROPOSED DRILLSITE. (Well #12 Brainard Federal).

THIRTEEN POINT PROGRAM

- 1. EXISTING ROADS: Existing roads, which lead to the proposed drillsite, are shown on Exhibits "A" & "C". It is planned to upgrade 0.35 mile of old lease road from mileage-9.97 to mileage-10.32 on the road log.
- 2. PROPOSED NEW ROAD: Proposed new access road will be 0.08 mile in length. Exhibit "C" shows proposed route which will originate at mileage-10.32 on the road log and will terminate at the west edge of the proposed drill pad. The center of the proposed new road has been staked and flagged.
 - A. Width: 16 feet with 24-foot R-O-W.
 - B. Surfacing Material: The new road will be surfaced with caliche.
 - C. Maximum Grade: Less than one percent.
 - D. Turnouts: None necessary.
 - E. Road Design: New road will be constructed by blading and leveling the roadway and surfacing the driving area with caliche.
 - F. Culverts: None necessary.
 - G. Gates, Cattleguards: None necessary.

3. LOCATION OF EXISTING WELLS: Existing wells in the vicinity of the proposed drillsite are shown on Exhibit "C".
4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
 - A. Although Marbob has existing production facilities on the leasehold, separate production and storage facilities for this well will be constructed on the well pad.
 - B. An electric line will be laid from the existing powerline along the south side of Sec. 34 to the west side of the well pad.
5. LOCATION AND TYPE OF WATER SUPPLY: It is not planned to drill a water supply well. Water for leasehold operations will be trucked to the location.
6. SOURCE OF CONSTRUCTION MATERIALS: Material for construction of the proposed new road and well pad will be obtained from an existing Federal pit in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 34-18S-29E.
7. METHODS OF HANDLING WASTE DISPOSAL:
 - A. Drill cuttings will be disposed of in the drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
 - C. Water produced during tests will be disposed of in the drilling pits.
 - D. Oil produced during tests will be produced into temporary test tanks.
 - E. Trash, waste paper, garbage, and junk will be buried in a trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of the trash pit is shown on Exhibit "D".
 - F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing each drilling and/or completion operation.
8. ANCILLARY FACILITIES: None anticipated.

9. WELLSITE LAYOUT:

- A. The wellsite has been surveyed and a 400' x 400' area has been staked and flagged.
- B. The dimensions and relative location of the drill pad, mud pit, and trash pit with respect to the well bore are shown on Exhibit "D".
- C. The location is relatively level except for small (0-6') sand dunes which will need leveling.
- D. The well pad will be surfaced with caliche.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. After abandonment, all equipment, trash and junk will be removed and the location cleaned. Any special rehabilitation and/or special revegetation requirements of the BLM will be complied with and accomplished as expeditiously as possible.

11. OTHER INFORMATION:

- A. Topography: The undisturbed wellsite is at an elevation of 3430 feet and the surface surrounding the location is relatively level except for small sand dunes. Regional slope is to the southwest toward the Pecos River.
- B. Soil: Top soil at the wellsite is sand.
- C. Land Type & Use: The vicinity surrounding the drillsite is semi-arid rangeland and its primary use is for grazing.
- D. Flora: Vegetative cover is sparse. Flora consists primarily of broomweed, mesquite, sage, shinnery and yucca.
- E. Fauna: No wildlife was observed, however fauna for this type of habitat consists of rabbits, rodents, coyotes, skunks, lizards, snakes, quail, dove, and other small birds.

- F. Ponds & Streams: None.
- G. Water Wells: There are no water wells within a mile of this location.
- H. Residences & Other Structures: There are no occupied dwellings within 2 miles of this location.
- I. Archaeological, Historical & Cultural Sites: Agency for Conservation Archaeology of Portales, New Mexico has made a survey of the proposed drillsite and new road areas and has recommended that the proposed construction work be approved.
12. OPERATOR'S REPRESENTATIVE: Representative responsible for assuring compliance with the approved Surface Use Plan:

Mack Chase
P. O. Box 304
Artesia, New Mexico 88210
Office 746-2422
Home 746-4877

13. CERTIFICATION:

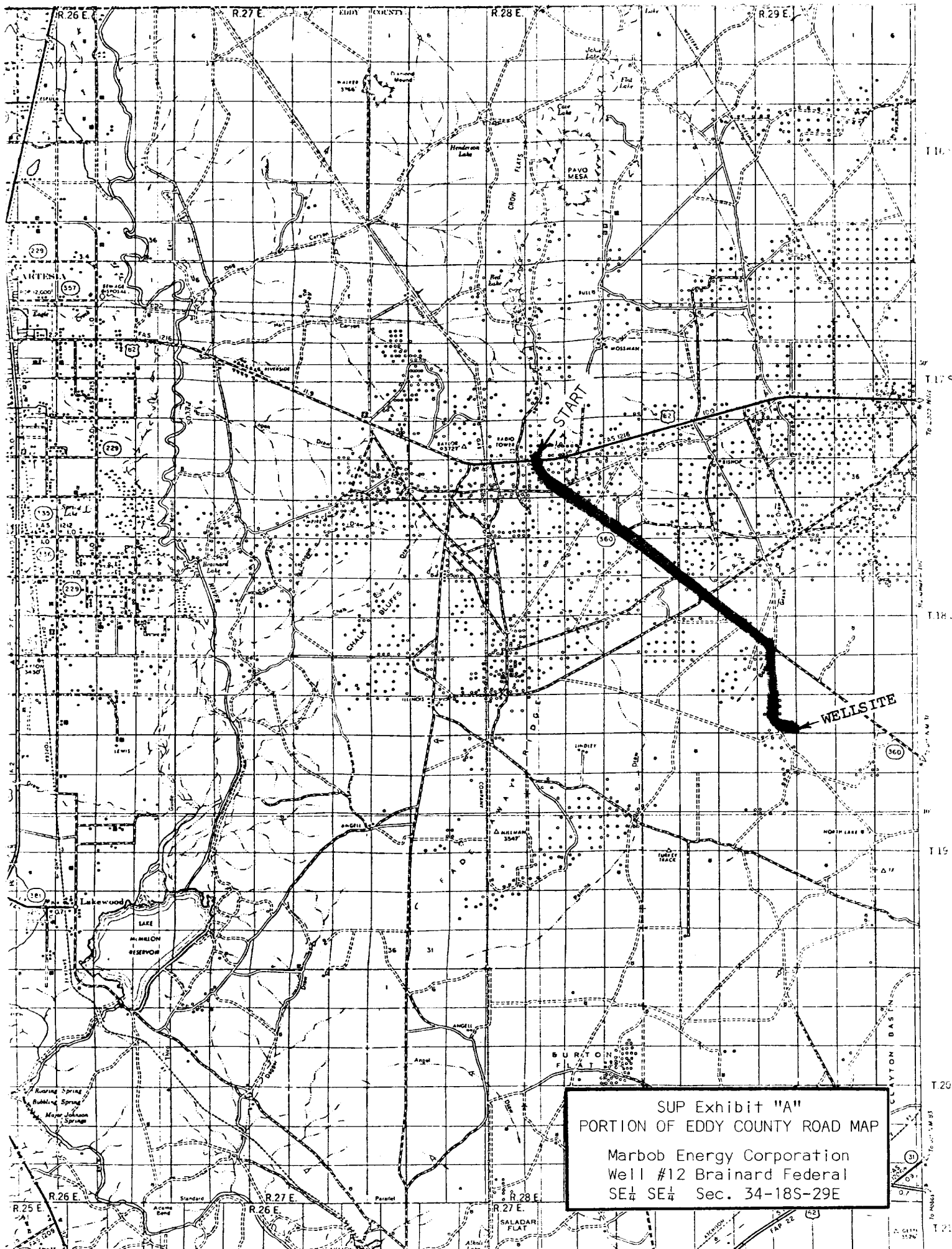
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will be performed by MARBOB ENERGY CORPORATION and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

January 11, 1982

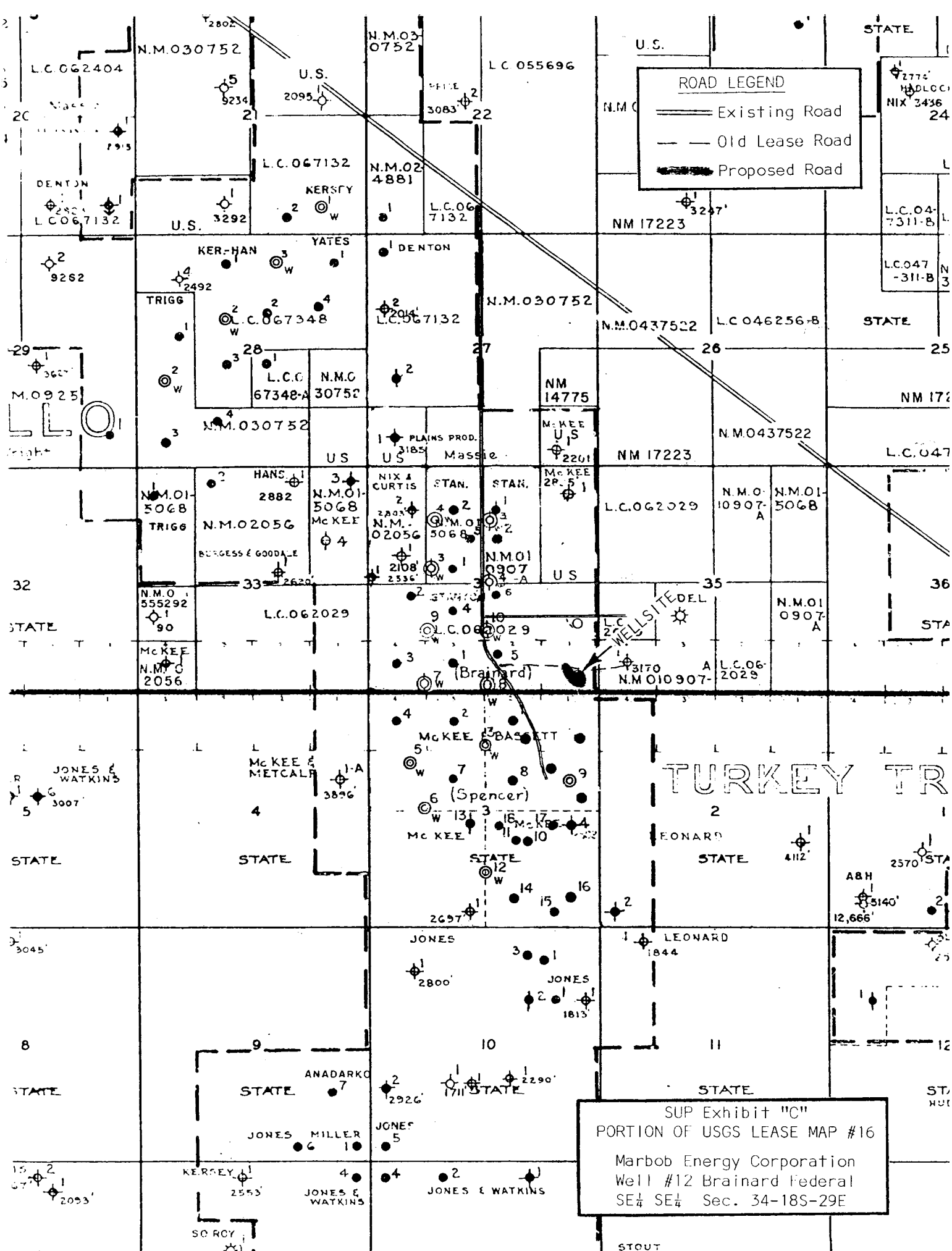
Date

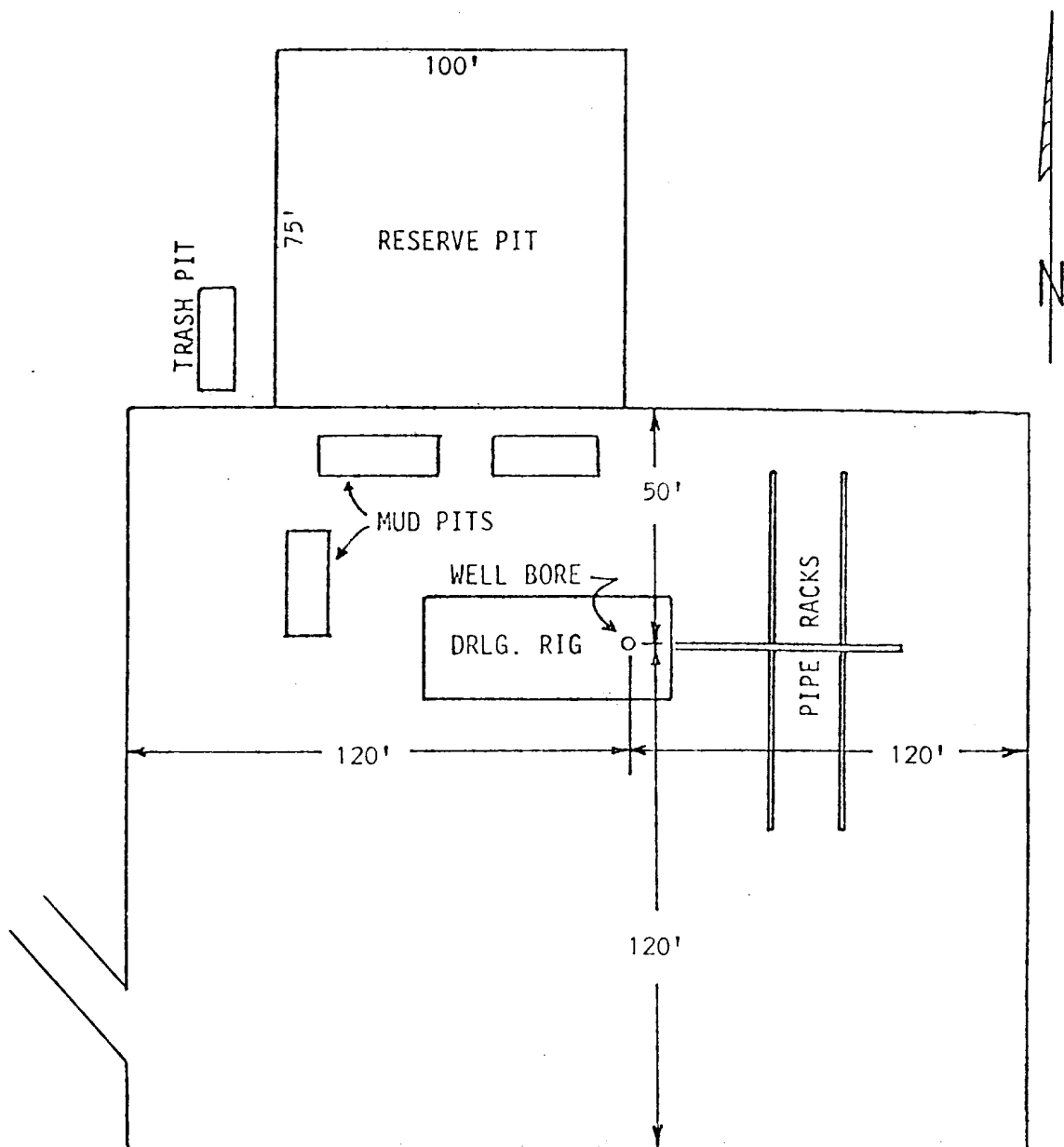


James A. Knauf, Agent
MARBOB ENERGY CORPORATION



SUP Exhibit "A"
PORTION OF EDDY COUNTY ROAD MAP
Marbob Energy Corporation
Well #12 Brainerd Federal
SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 34-18S-29E





SUP Exhibit "D"
SKETCH OF WELL PAD

Marbob Energy Corporation
Well #12 Brainard Federal
SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 34-18S-29E

30-015-24087

DBRID 36990

PROP 22464

POOL 61020

4-22-82

GRN

1300-2982

