

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CONTACT RECEIVING  
OFFICE NUMBER  
OF COPIES REQUIRED  
(Other instructions on  
reverse side)

30-015-26272  
BLM Roswell District  
Modified Form No.  
NMD60-3160-2  
file

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

Charles B. Gillespie, Jr. ✓

3a. Area Code & Phone No.

915-683-1765

3. ADDRESS OF OPERATOR

P. O. Box 8 Midland, Texas 79702

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

At surface

660' FNL & 660' FWL

At proposed prod. zone

495'

660' FNL & 660' FWL

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

Approximately 17 miles east of Malaga, New Mexico

15. DISTANCE FROM PROPOSED\*

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

660'

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

1320'

16. NO. OF ACRES IN LEASE

1031.87

19. PROPOSED DEPTH

6150'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

3489.9' GR

22. APPROX. DATE WORK WILL START\*

As soon as possible

23.

PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	J-55	ST&CCIRCULATE	600'	See Exhibit F
7 7/8"	5 1/2"	17#	J-55	LT&C	6150'	" " "

Mud Program: See Exhibit G.

B.O.P. Program: Series 1500 B.O.P., installed at offset. See Exhibit E.

Gas not dedicated.

Prod ID-1  
6-28-91  
New Loc + API

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

William R. Crow

TITLE

Exploration Manager

DATE

4/18/91

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

6-13-91

APPROVAL SUBJECT TO:

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

ATTACHED

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

# OIL CONSERVATION DIVISION

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

## WELL LOCATION AND ACREAGE DEDICATION PLAT

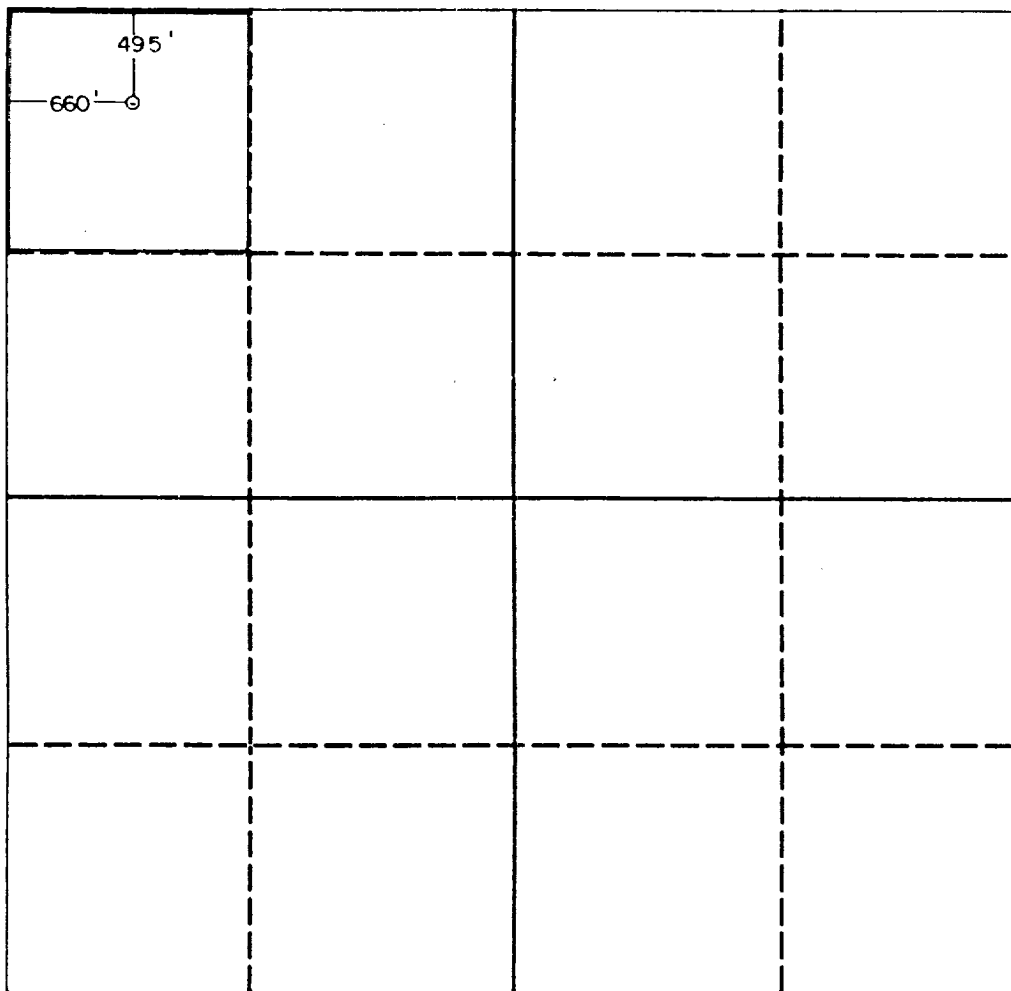
All Distances must be from the outer boundaries of the section

Operator CHARLES B. GILLESPIE, JR.		Lease POKER LAKE UNIT		Well No. 76
Unit Letter D	Section 34	Township 24 SOUTH	Range 31 EAST NMPM	County EDDY
Actual Footage Location of Well: 495 feet from the NORTH line and 660 feet from the WEST line				
Ground level Elev. 3483.9	Producing Formation Delaware	Pool Poker Lake Delaware, South	Dedicated Acreage: 40 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 interest 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 interest, has been approved by the Division.



### OPERATOR CERTIFICATION

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

Signature  
David W. Hastings  
Printed Name  
David W. Hastings  
Position  
Production Manager  
Company  
Charles B. Gillespie, Jr.  
Date  
June 10, 1991

### SURVEYOR CERTIFICATION

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  
6-6-91  
Signature & Seal of Professional Surveyor  
JOHN W. WEST  
Certificate No. 676  
RONALD J. JOHNSON  
NEW MEXICO  
JOHN W. WEST  
676  
3239

APPLICATION FOR DRILLING

Charles B. Gillespie, Jr.  
Poker Lake Unit Well No. 76  
660' FNL and 660' FWL  
Section 34, T-24-S, R-31-E  
Eddy County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Charles B. Gillespie, Jr. submits the following nine items of pertinent information in accordance with USGS requirements.

1. The geologic surface formation is Quaternary.
2. The estimated tops of geologic markers are as follows:

Rustler	600'
Salado	975'
Lamar	4360'
Bell Canyon	4390'
Cherry Canyon	5290'

3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water: Approximately 200'  
Oil or Gas: Bell Canyon: Approx. 4390' to 5290'  
Cherry Canyon: Approx. 5290' to 6150'

4. Proposed Casing Program: See Form 3160-3 and Exhibit F.
5. Pressure Control Equipment: See Form 3160-3 and Exhibit E.
6. Mud Program: See Exhibit G.
7. Testing, Logging and Coring Programs:
  - Drill stem tests: None anticipated
  - Mudlogging: Two man unit from 4360' (top of the Lamar Lime) to TD
  - Electric Log Program:
    - Compensated Photodensity Compensated Neutron Log
    - Dual Laterolog Microlaterolog
  - Coring: None anticipated
8. No abnormal pressures or temperatures are anticipated.
9. Anticipated starting date: As soon as possible.

## MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Charles B. Gillespie, Jr.  
Poker Lake Unit Well No. 76  
660' FNL and 660' FWL  
Section 34, T-24-S, R-31-E  
Eddy County, New Mexico  
(Development Well)

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations so that a complete appraisal can be made of the environmental effects associated with the operations.

### 1. EXISTING ROADS.

- A. Exhibit A is the BLM Quad-Color map no. SE-29. Exhibit B is a portion of a USGS topographic map of the area on a scale of approximately 2.65 inches to the mile, showing the location of the proposed wellsite and roads in the vicinity. The proposed location is situated approximately 17 miles east of Malaga, New Mexico, via the access route shown in red.

#### DIRECTIONS:

1. Proceed east from Loving, New Mexico on Highway 128 for approximately 22 miles.
2. Turn right (southwest) and continue on caliche road CR 786 for 4.6 miles.
3. Turn left (south) on existing caliche road CR 791 and continue for 1.2 mile to the drillsite.

### 2. PLANNED ACCESS ROAD.

- A. The proposed access is an existing caliche road CR 791 which is currently being used.
- B. A new road will be constructed from the Poker Lake Unit No. 73 well to the wellsite. The proposed new access will be approximately 900 feet in length from point of origin to the edge of the drilling pad. The road will lie in an east to west direction.
- C. The new road will be 12 feet in width (driving surface).
- D. The new road will be covered with the necessary depth of caliche. The surface will be crowned, with drainage on both side. No turnouts will be necessary.
- E. The center line of the new road has been staked and flagged and the route of the road is clearly visible.

3. LOCATION OF EXISTING WELLS.

- A. The well locations in the vicinity of the proposed well are shown in Exhibit C. There are seven wells within a one-mile radius, one of these is plugged and abandoned.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES.

- A. There are two producing wells on this lease at the present time, the Poker Lake Unit No. 73 and No. 75 (N/2 NE/4 of Section 33).
- B. In the event that the well is productive, the existing production facilities for the Poker Lake Unit No. 73 and No. 75 wells, which are located at the Poker Lake Unit No. 70 wellsite (SE/4 SE/4 of Section 28), will be used. If the well is productive of oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.

5. LOCATION AND TYPE OF WATER SUPPLY.

- A. It is planned to drill the proposed well with a fresh water and brine system. The water will be obtained from commercial sources and will be hauled to the location by truck over the existing roads shown in Exhibits A and B.

6. SOURCES OF CONSTRUCTION MATERIALS.

- A. Any caliche required for construction of the drilling pad and the new access road will be obtained from an existing pit on federally owned surface shown on Exhibit A.

7. METHODS OF HANDLING WASTE DISPOSAL.

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. Water produced during operations will be collected in tanks until hauled to an approved disposal system or a separate disposal application will be submitted to the USGS for appropriate approval.
- D. Oil produced during operations will be stored in tanks until sold.
- E. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- F. Trash, waste paper, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
- G. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES.

- A. None required.

9. WELLSITE LAYOUT.

- A. Exhibit D shows the dimensions of the well pad and reserve pits, and the location of major rig components.
- B. The ground surface at the drilling location is sloping down gently towards the southwest. Cutting will be required to level the pad area, which will be covered with at least six inches of compacted caliche.
- C. The reserve pits will be plastic lined.
- D. The pad and pit area has been staked and flagged.

10. PLANS FOR RESTORATION OF THE SURFACE.

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleared of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any, containing fluids will be fenced until they have been filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. TOPOGRAPHY.

- A. The wellsite and access route are located in a relatively flat area with some sand dunes.
- B. The top soil at the wellsite is sandy.
- C. The vegetation cover at the wellsite is moderately sparse with prairie grasses, mesquite, some yucca and miscellaneous weeds.
- D. No wildlife was observed but it is likely that rabbits, lizards, insects and rodents traverse the area. The area is used for cattle grazing.
- E. There are no ponds, lakes, streams or rivers within several miles of the wellsite.
- F. There is a stock tank located approximately 3/4 mile southwest of the proposed site.
- G. The wellsite is located on federal surface.

- H. There is no evidence of any archaeological, historical or cultural sites in the vicinity of the location.

12. OPERATOR'S REPRESENTATIVES.

- A. The field representatives responsible for assuring compliance with the approved surface use plan are:

David Hastings  
Production Manager  
Charles B. Gillespie, Jr.  
P. O. Box 8  
Midland, Texas 79702  
Phone: 915-683-1765 (office)  
915-697-9817 (home)

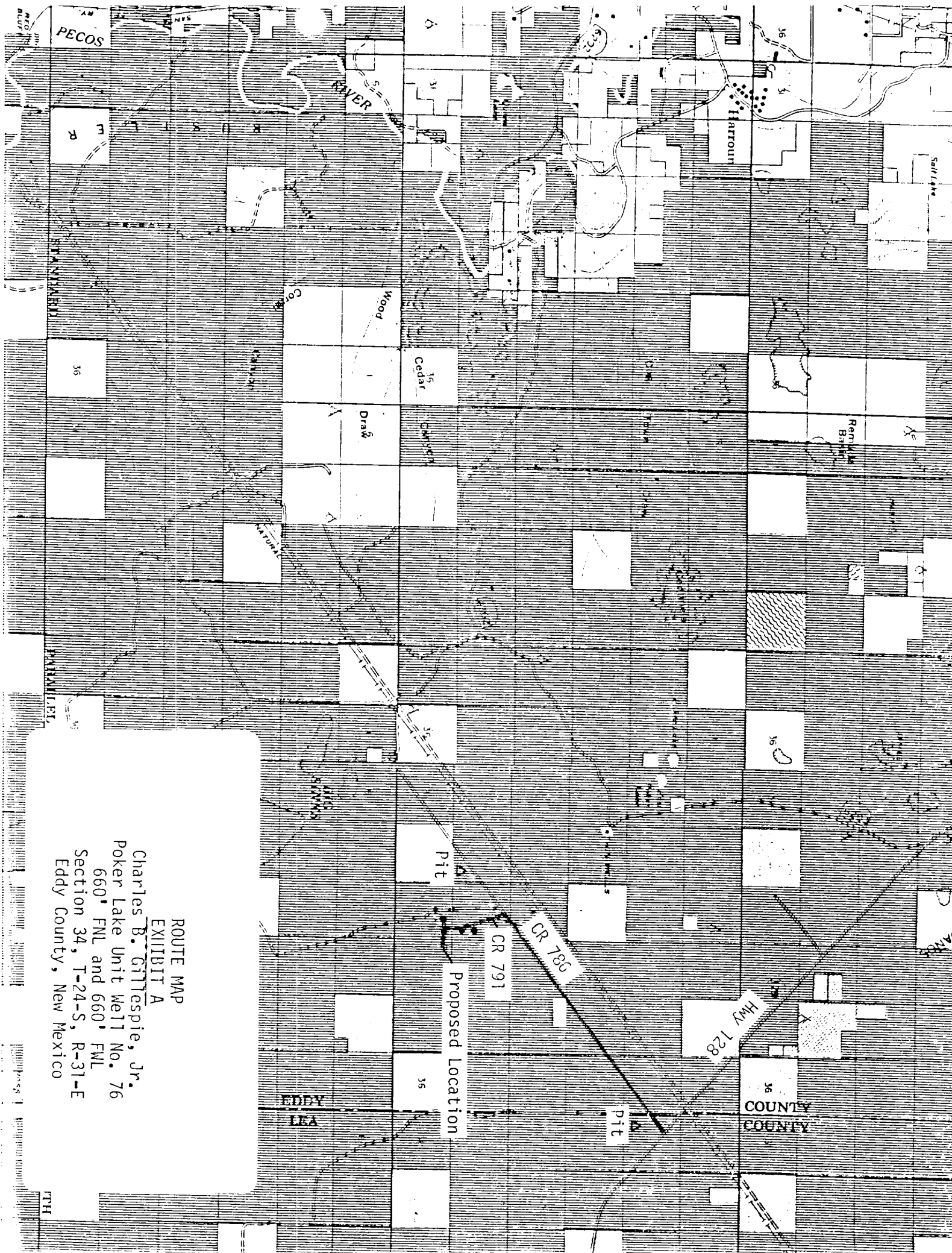
William R. Crow  
Exploration Manager  
Charles B. Gillespie, Jr.  
P. O. Box 8  
Midland, Texas 79702  
Phone: 915-683-1765 (office)  
915-697-4312 (home)

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 Charles B. Gillespie, Jr. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

April 19, 1991  
Date

William R. Crow  
Name



ROUTE MAP  
EXHIBIT A

Charles B. Gillespie, Jr.  
Poker Lake Unit Well No. 76  
660' FNL and 660' FNL  
Section 34, T-24-S, R-31-E  
Eddy County, New Mexico

Proposed Location

CR 791

CR 786

Hwy 128

Pit

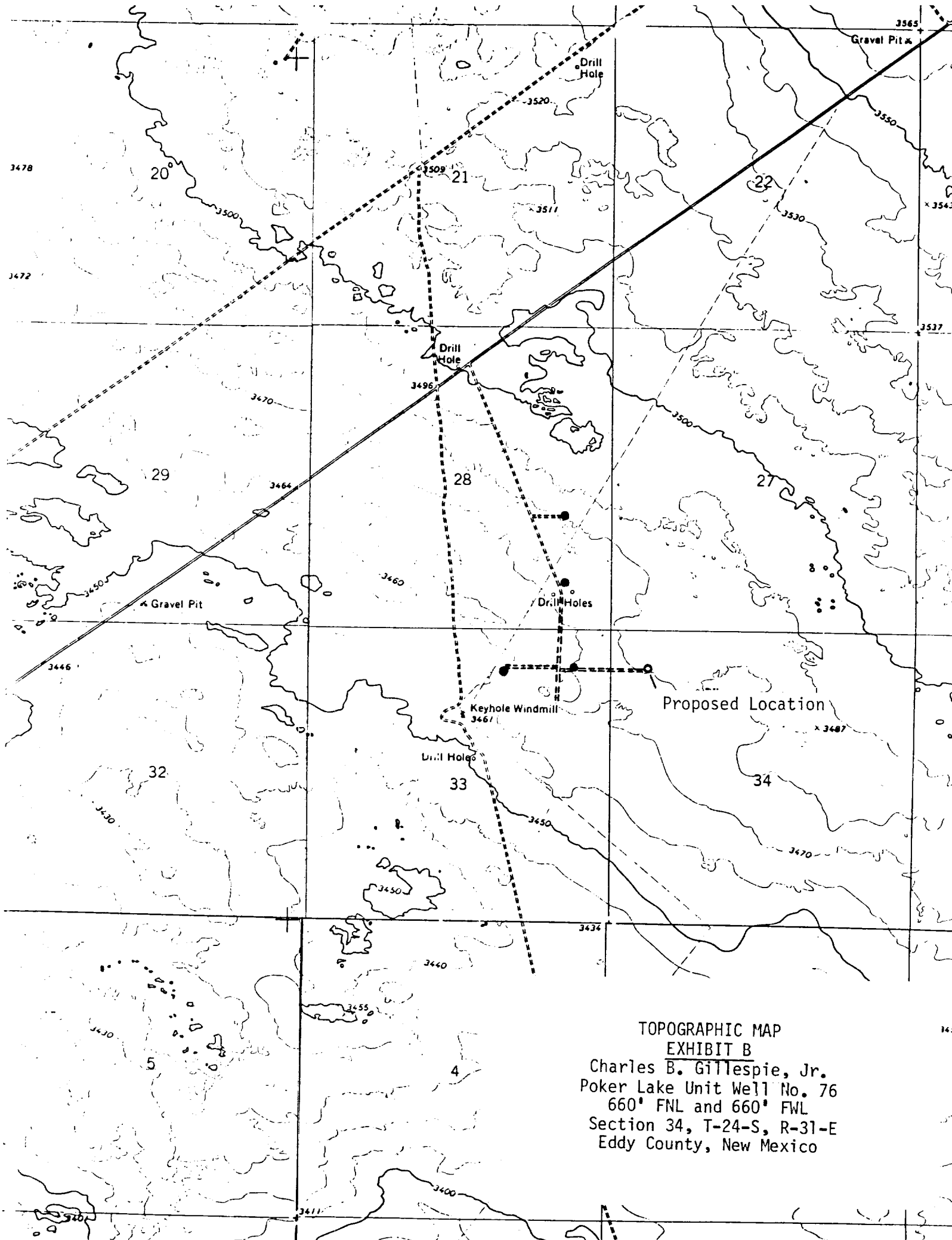
Pit

EDDY  
LEA

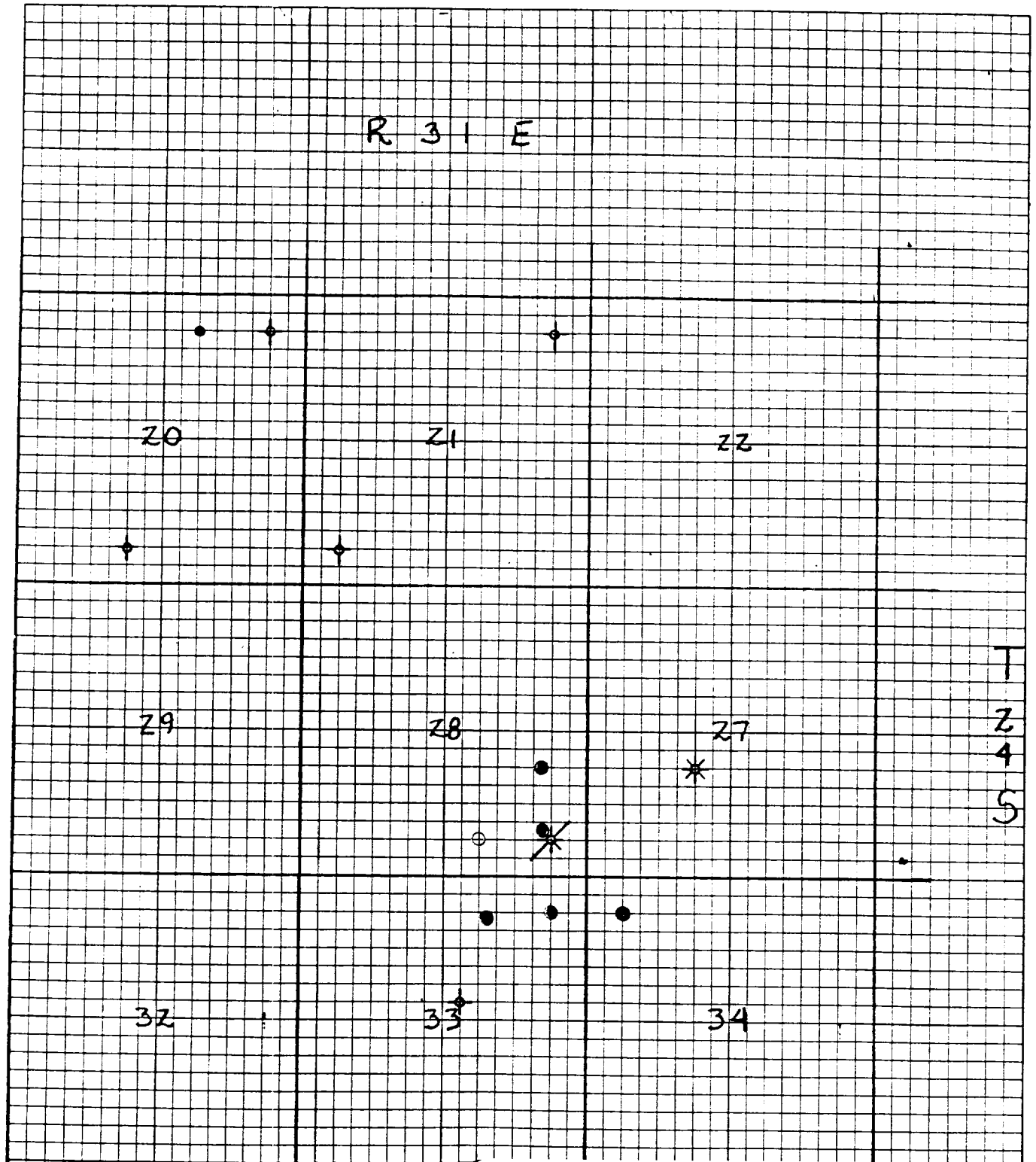
COUNTY  
COUNTY

DANCE





TOPOGRAPHIC MAP  
EXHIBIT B  
Charles B. Gillespie, Jr.  
Poker Lake Unit Well No. 76  
660' FNL and 660' FWL  
Section 34, T-24-S, R-31-E  
Eddy County, New Mexico

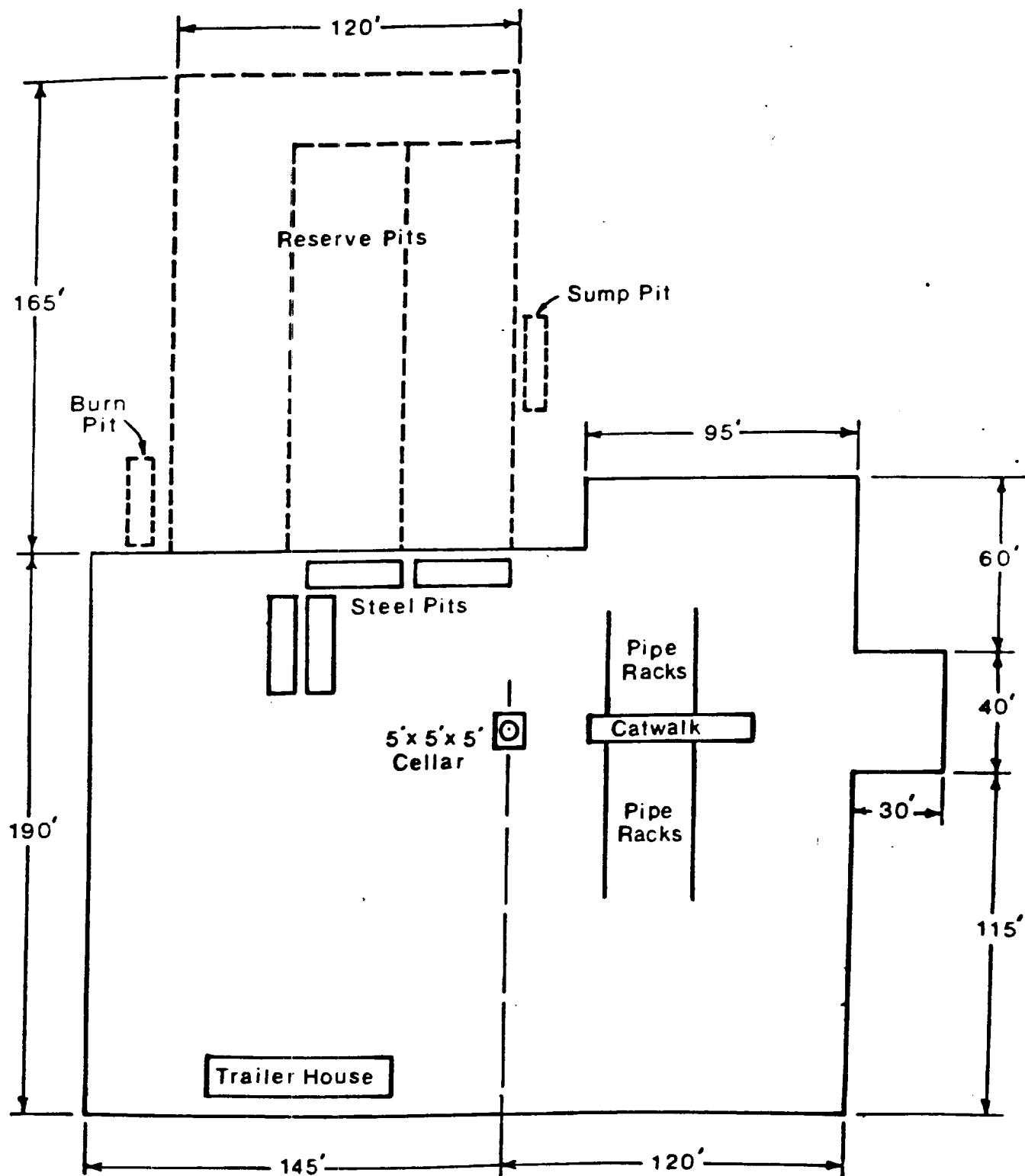


- PROPOSED LOCATION
- OIL WELL
- ☼ GAS WELL
- ★ DRY HOLE

WELL LOCATION MAP  
 EXHIBIT C  
 Charles B. Gillespie, Jr.  
 Poker Lake Unit Well No. 76  
 660' FNL and 660' FWL  
 Section 34, T-24-S, R-31-E  
 Eddy County, New Mexico

46 0540

K&S 8 X 8 TO THE INCH • 7 X 10 INCHES  
 KEUFFEL & ESSER CO. MADE IN U.S.A.



PAD LAYOUT  
EXHIBIT D

Charles B. Gillespie, Jr.  
Poker Lake Unit Well No. 76  
660' FNL and 660' FWL  
Section 34, T-24-S, R-31-E  
Eddy County, New Mexico

# BLOW OUT PREVENTER

## EXHIBIT E

Charles B. Gillespie, Jr.  
Poker Lake Unit Well No. 76  
660' FNL and 660' FWL  
Section 34, T-24-S, R-31-E  
Eddy County, New Mexico

**BLOWOUT PREVENTERS**  
One Shafter LWS hydraulic double 4" x 5,000 p.s.i. One  
Hydriil 4" x 5,000 p.s.i. Choke manifold 4" x 5,000 p.s.i.  
flanged connections. Payne 4-valve accumulator closing  
unit.



Standard Blowout Preventer Stock

Charles B. Gillespie, Jr.

SUMMARY

DRILLING, CASING AND CEMENTING PROGRAM

1. Drill 12 1/4" hole to 600'±. Will be in the Rustler at this depth.
2. Cement 8-5/8", 32# J-55 casing with 400 sx. Class 'C' Premium Plus containing 2% CaCl<sub>2</sub>. Run Texas Pattern Guide Shoe with an insert float valve in top of shoe joint. Centralizers will be run on every other joint. Use plug to displace cement. Cement will be circulated to surface.
3. Release pressure, nipple up and install BOP's. Test casing to 1000 psi after 18 hours and drill out cement.
4. Drill 7-7/8" hole to TD at 6150'±. A brine mud system will be used. Pit levelers and flowline sensors will be utilized on the pits. A mudlogging unit will be on location at 4360' to assist in evaluating samples and shows. Run Compensated Photodensity Compensated Neutron Gamma Ray Log, Dual Laterolog Microlaterolog.
5. Run 5-1/2", 15.50# J-55 and 17# J-55 casing, use 12-15 centralizers to centralize all prospective pay zones. Cement volume will be adjusted according to calipered hole volume obtained from electric log, 2 Stage Job. First stage with DV tool set at 5500' with 250 sx Class 'C'. Cement volume to be actual annular volume plus 25% excess. Use guide shoe and float collar on first joint; drop bomb to activate DV tool, circulate off excess cement above 5500' to surface and circulate slowly 4 BPM for 6 hours; then cement with 500 sx 50/50 POZ Class 'C' cement.
6. Perforations, acid job and additional stimulation to be determined after completion.

EXHIBIT F

Charles B. Gillespie, Jr.  
Poker Lake Unit Well No. 76  
660' FNL and 660' FWL  
Section 34, T-24-S, R-31-E  
Eddy County, New Mexico

CEMENT PROGRAM (Also, See Exhibit G)

8 5/8" Casing: 400 sx. Class 'C' Premium Plus containing 2%  $\text{CaCl}_2$ .  
Cement circulated to surface.

5 1/2" Casing: First Stage - 250 sx. Class 'C' Premium Plus.  
Second Stage - 500 sx. 50/50 POZ Class 'C'.  
Top of cement will be to the base of the salt section  
at  $\pm$  4125'.

EXHIBIT F

Charles B. Gillespie, Jr.  
Poker Lake Unit Well No. 76  
660' FNL and 660' FWL  
Section 34, T-24-S, R-31-E  
Eddy County, New Mexico

SUGGESTED DRILLING FLUID PROGRAM

Surface: 600' of 8 5/8"

Spud with fresh water gel to which lime is added to a 36-40 vis. Paper can be added for seepage.

Production: 6150' of 5 1/2"

Drill out below surface with brine/starch, adding Zeogel (salt gel) for viscosity. Mud weight and viscosity may be altered as hole conditions dictate. This type of drilling fluid should be sufficient to drill, test or log to TD.

EXHIBIT G

Charles B. Gillespie, Jr.  
Poker Lake Unit Well No. 76  
660' FNL and 660' FWL  
Section 34, T-24-S, R-31-E  
Eddy County, New Mexico