

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-005-61349

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## 5. LEASE DESIGNATION AND SERIAL NO.

LC 067811-A

## 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## 7. UNIT AGREEMENT NAME

## 8. FARM OR LEASE NAME

Dale Federal

## 9. WELL NO.

13

## 10. FIELD AND POOL, OR WILDCAT

Undesinated Abo

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

Sec. 27-7S-26E

## 12. COUNTY OR PARISH

Chaves

## 13. STATE

N.M.

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

BERGE EXPLORATION, INC.

## 3. ADDRESS OF OPERATOR

7100 North Broadway, Ste. 2-L, Denver, CO 80202

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

At surface

1980'/S 660'/W

Sec. 27-7S-26E

At proposed prod. zone

Same

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

24.5 miles northeast of Roswell, N.M.

O. C. D.

ARTESIA, OFFICE

## 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

600

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

2640'

## 19. PROPOSED DEPTH

4800' Abo

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

3748 GL

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14 3/4"	10 3/4"	40.5#	400'	Circulate Cement
7 7/8"	4 1/2"	11.6#	TD or PBTD	500 ± sx (Sufficient to isolate all oil, gas or water zones)

Propose to drill to about 4800' to test Abo and intermediate formations. Evaluate any favorable zones. Run casing thru deepest zone that appears commercial. Perform normal completion by selectively perforating, stimulating and testing.

See attached "Supplementary Drilling Data" and BOP information.

The gas is not dedicated.

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. Also give preventative program, if any.

24.

SIGNED

JERRY N. LONG

TITLE Agent

DATE December 28, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

JAN 6 1982

JAMES A. GILLHAM  
DISTRICT SUPERVISOR

\*See Instructions On Reverse Side

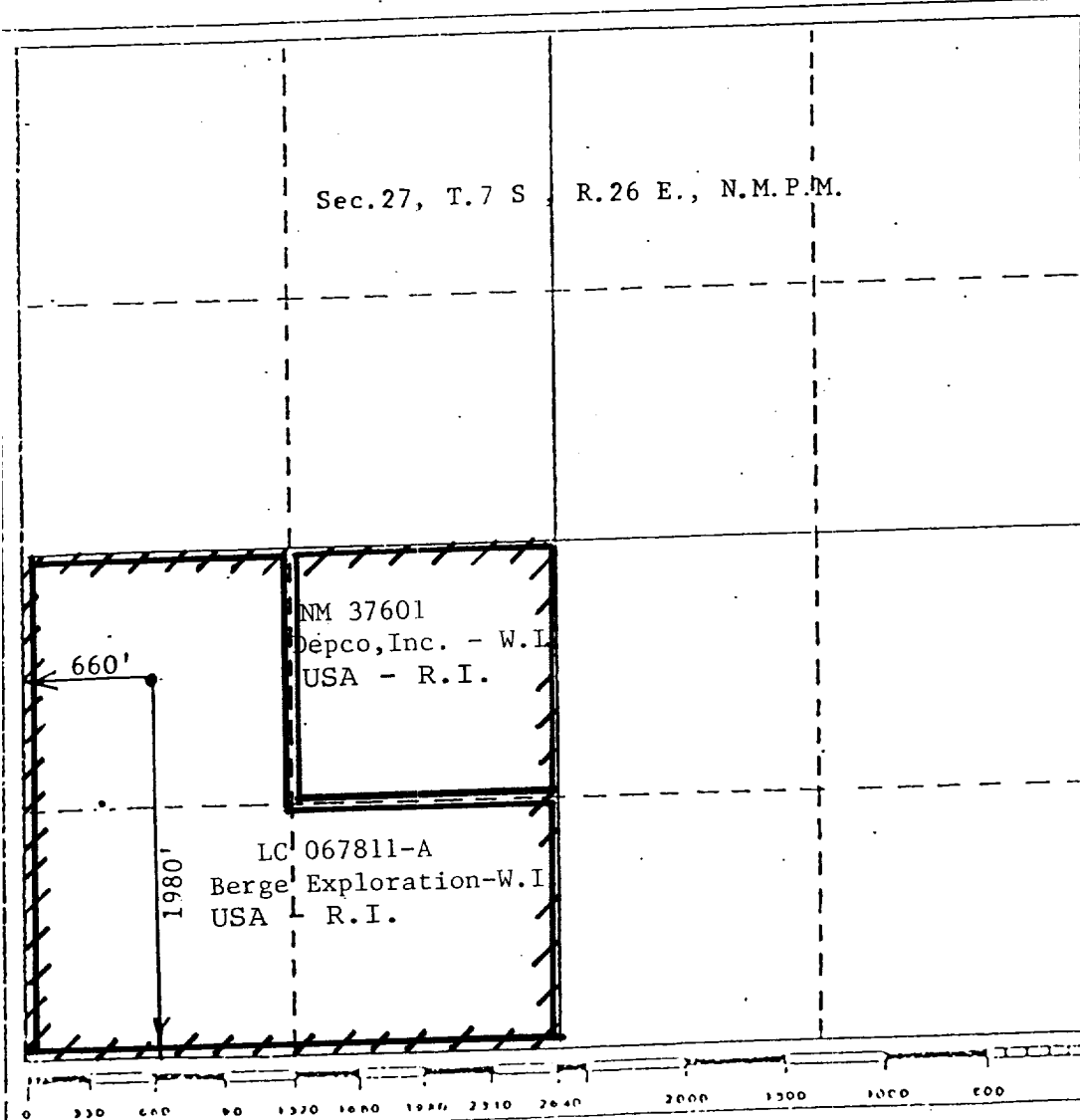
All distances must be from the outer boundaries of the Section.

Operator Berge Exploration, Inc.		Lease Dale Federal		Well No. 13
Unit Letter L	Section 27	Township 7 South	Range 26 East	County Chaves
Actual Footage Location of Well: 660 feet from the West line and 1980 feet from the South line				
Ground Level Elev. 3748	Producing Formation Abo	Pool Undesignated	Dedicated Acreage: 160 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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.) Communitization is Pending  
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 Division.



CERTIFICATION

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

*Jerry W. Long*  
Name  
JERRY W. LONG

Position

Agent

Company

BERGE EXPLORATION, INC.

Date

December 28, 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

December 28, 1981

Registered Professional Engineer and/or Land Surveyor

*John D. Jaquess*  
John D. Jaquess, P.E. & L.S.

Certificate No.

6290

SUPPLEMENTAL DRILLING DATA

BERGE EXPLORATION, INC.  
No.13 Dale Federal  
1980'/S 660'/W Sec.27-7S-26E  
Chaves County, N.M.

LC 067811-A

The following items supplement Form 9-331C in accordance with instructions contained in NTL-6.

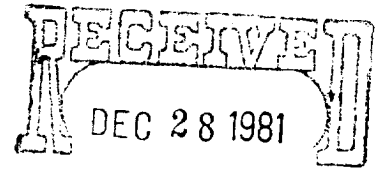
1. SURFACE FORMATION: Artesia Group of the Permian System
2. ESTIMATED TOPS OF GEOLOGIC MARKERS:  
San Andres 800'  
Glorieta 2000'  
Abo 4100'
3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATIONS:  
Fresh water - Surface to 250'  
Gas - 4100' in Abo
4. PROPOSED CASING PROGRAM: See Form 9-331C
5. PRESSURE CONTROL EQUIPMENT: Blowout preventer stack will consist of at least a double-ram blowout preventer rated to 3000#WP. A sketch of the BOP is attached.
6. CIRCULATING MEDIUM: Natural fresh water mud will be used as the circulating medium to about 4100'. Additives will be used as recommended by the Mud Engineer. The Abo portion of the hole will be drilled using a Salt/Oil system with mud weight of 10#/Gal.
7. AUXILIARY EQUIPMENT: Full-opening kelly cock, to fit the drill string in use, will be kept on the rig floor at all times.

8. TESTING, LOGGING AND CORING PROGRAM:  
Samples: Run samples at 10' intervals from Surface to TD.  
DST's: Test zones as recommended by wellsite geologist.  
Logging: Dual Laterolog and Compensated Neutron/Density log with Gamma Ray and Caliper will be run from surface casing shoe to TD.  
Coring: None planned
9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE:  
None anticipated. Maximum bottom-hole pressure should not exceed 1500 psi.
10. ANTICIPATED STARTING DATE: Drilling will commence about December 29, 1981. Drilling should be completed within 21 days. Completion operations (perforations and stimulation) will follow drilling operations.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

BERGE EXPLORATION, INC.  
No.13 Dale Federal  
1980'/S 660'/W Sec.27-7S-26E  
Chaves County, N.M.

LC 067811-A



OIL & GAS  
U.S. GEOLOGICAL SURVEY  
ROSWELL, NEW MEXICO

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the 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 operation so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a road map showing the location of the proposed well as staked. The well is about 24.5 miles northeast of Roswell, New Mexico.
- B. Directions: Travel about 2 miles north from Roswell city limits on Hwy.285. Turn right on Hwy.70 and go 13.8 miles. Turn north on County road and go 5.2 miles. Go 3/4 mile east on existing road to the cattleguard for the new access road. Go 3/8 mile north on new access road to No.13 location.

2. PLANNED ACCESS ROAD:

- A. Length and Width: Access from existing road will necessitate 1800' of new road. This will also be the access road for the No.13 well. The road will be bladed 12' wide with 2' shoulders.
- B. Surfacing Materials: Portions of the pad and access road which expose gypsum rock will be surfaced with caliche or gravel.
- C. Maximum Grade: Less than 2%.
- D. Turnouts: None needed
- E. Drainage Design: The road will be bladed with a 6" crown in the center.

- F. Culverts: None necessary
  - G. Cuts and Fills: The access road and pad will require cuts and fills of less than 2'.
  - H. Gates, Cattle Guards: A cattleguard will be installed where the access road enters Sec.27.
3. LOCATION OF EXISTING WELLS:
- A. Existing wells are indicated on Exhibit "E".
4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
- A. None anticipated
5. LOCATION AND TYPE OF WATER SUPPLY:
- A. Water will be purchased from a water well located at the southeast corner of Sec.27 on private surface.
6. SOURCE OF CONSTRUCTION MATERIALS:
- A. Necessary gravel will be purchased from a pit in the SE $\frac{1}{4}$  Sec.3-8S-26E on private surface.
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 test will be disposed of in the drilling pits. Oil produced during tests will be stored in test tanks until sold.
  - D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
  - E. 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. Location of the trash pit is shown on Exhibit "C".
  - F. 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 necessary

9. WELL SITE LAYOUT:

- A. Exhibit "C" indicates the relative location and dimensions of the well pad, mud pits, reserve pit and major rig equipment.
- B. The location is sloping to the southwest requiring about 1' of cut on the northeast corner.
- C. The reserve pit will be lined with plastic to prevent loss of water and contain the drilling mud.

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 an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the well is non-productive the disturbed area will be rehabilitated to Federal Agency requirements and will be accomplished as expeditiously as possible.

11. OTHER INFORMATION:

- A. Topography: The well is located on an alluvial plain and is sloping toward the Pecos River, which is about 1.5 miles west. The elevation is 3748' above sea level.
- B. Soil: The soil is a sandy loam with outcroppings of gypsum rock.
- C. Flora and Fauna: The flora consists of typical desert vegetation, such as yucca, mesquite, cactus and various grasses. Vegetative cover is about 90%, being predominantly grama grass. Fauna consists of desert wildlife such as birds, coyotes, rodents and snakes.
- D. Ponds or Streams: The nearest body of water is the Pecos River, which is about 1.5 miles west.

E. Residences and other Structures: There are no residences within a mile of the location. A water well is located in the southeast corner of Sec.27.

F. Archaeological, Historical and other Cultural Sites: Mr. Peter Eidenbach, of Human Systems Research, Inc. of Tularosa, New Mexico, conducted an archaeological survey of the access road and well pad. He will furnish a report and recommendation to U.S.G.S. and B.L.M.

G. Land Use: Grazing

H. Surface Ownership: The access road and well pad are located on Public Surface.

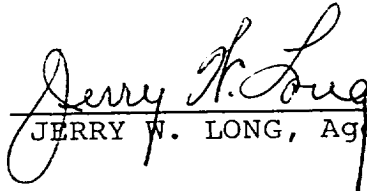
12. OPERATOR'S REPRESENTATIVE:

Mr. Verne Berry  
7100 North Broadway, Ste. 2-L  
Denver, CO 80221  
Ph.303-426-1086

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; that the work associated with the operations proposed herein will be performed by BERGE EXPLORATION, INC. and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

December 28, 1981  
Date:

  
JERRY W. LONG, Agent



LC 067811-A

T. 8 S.  
Revised

T. 9 S.

EXHIBIT A

BERGE EXPORT, INC.  
No. 13 Dale Federal  
NW 1/4 SW 1/4 Sec. 27-7S-26E  
Chaves County, N.M.  
LC 067811-A

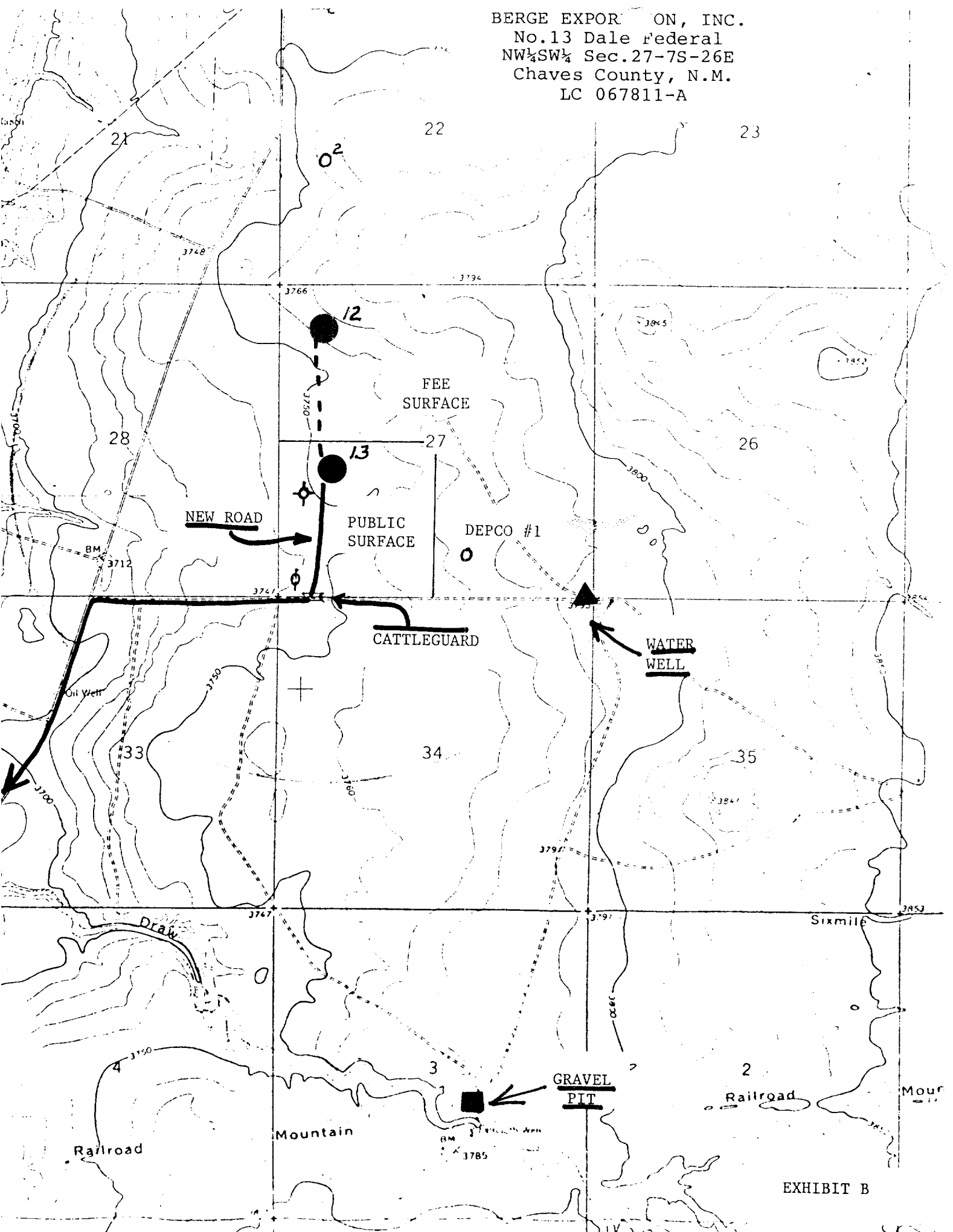
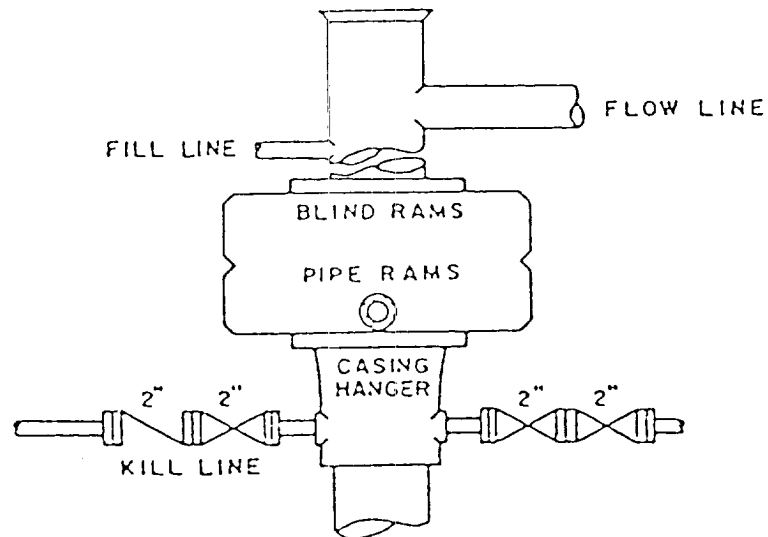


EXHIBIT B

BERGE EXPLORATION, INC.  
No.13 Dale Federal  
NW¼SW¼ Sec.27-7S-26E  
Chaves County, N.M.



BOP STACK

3000 PSI WORKING PRESSURE

TEST RAMS DAILY

	NM 1 8489	NM 1 8489	NM 19421-A	NM 29
RS	SANDERS ①	SANDERS 02	STARUS ① 1465	①

15 14 13

NM 27634 NM 27634 NM 29621

1 2005

22 23 24

SANDERS 2

U.S.

NM 38343 NM 19421-A

MO22584 27

NM 37601 LC067811-A

DEPOO

1-B LC067811-A NM 37601

NM 37601 NM 43714 NM 43714 NM 37601 NM 27635

1310

1677 DUNN

1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700

N.M. 21493 34

35 N.M. 18962

PET DE J.

36

NM 33271 NM 18962 NM 33271 STATE

3 2

EXHIBIT E

R26E

R26E