

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
 CONTINENTAL OIL COMPANY

3. ADDRESS OF OPERATOR
 P.O. Box 460 Hobbs, N.M. 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 1980 FNL & 1980 FEL OF SECTION 30
 At proposed prod. zone
 SAME

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

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

16. NO. OF ACRES IN LEASE
 2503.32

17. NO. OF ACRES ASSIGNED TO THIS WELL
 320

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

19. PROPOSED DEPTH
 15,900'

20. ROTARY OR CABLE TOOLS
 ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3699.9' GR

22. APPROX. DATE WORK WILL START*
 12-1-78

5. LEASE DESIGNATION AND SERIAL NO.
 LC 068848 NM 31224

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 BRINNSTOOL

9. WELL NO.
 1

10. FIELD AND POOL, OR WILDCAT
 MORROW GAS UNDESIGNATED

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 SEC. 30, T-23S, R-33E

12. COUNTY OR PARISH
 LEA

13. STATE
 N.M.

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|--------------------|---------------|--------------------|
| 20" | 16" | 65 ⁴ | 700' | 700 SY |
| 14 3/4" | 10 3/4" | 45.5 ⁴ | 5100' | 2600 SY |
| 9 1/2" | 7 5/8" | 33.70 ⁴ | 12,500' | 1200 SY |
| 6 1/2" | 5" | 18 ⁴ | 15,300' | 500 SY |

IT IS PROPOSED TO DRILL A STRAIGHT HOLE TO A TD OF 15,900' AND COMPLETE AS A MORROW GAS WELL.
 SEE ATTACHED FOR MUD AND B.O.P. PROGRAMS
 SEE ATTACHED PROPOSED WELL PLAN FOR FORMATION TOPS, LOGGING, ETC.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

"APPROVAL TO FLARE GRANTED
WHILE DRILLING AND TESTING."

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.

SIGNED Bruce A. Lee TITLE Administrative Supervisor DATE 9-26-78

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

USGS [6], FILE [2]

*See Instructions On Reverse Side

APPROVED
AS AMENDED
DATE
OCT 23 1978
James F. Sims
JAMES F. SIMS
DISTRICT ENGINEER

RECEIVED
OIL CONSERVATION COMM
JUL 24 1978
HOURS: 11 AM

ATTACHMENT TO FORM 9-331 C
APPLICATION FOR PERMIT TO DRILL

Continental Oil Company
Brinninstool No. 1
1980' FNL and 1980' FEL of Section 30, T-23S, R-33E
Lea County, New Mexico

1. The geologic name of the surface formation is Quaternary Sand.
2. The estimated tops of important geologic markers are shown on the attached Proposed Well Plan.
3. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations to be encountered are shown on attached Proposed Well Plan.
4. The proposed casing program is as follows:

Surface - New 16", 65#, H-40, ST&C, set at 700'
Intermediate - New 10 3/4", 45.5#, K-55, ST&C, set at 5100'
Production - New 7 5/8", 33.7#, N-80, BTRC, set at 1100'
 New 7 5/8", 33.7#, N-80, LT&C, set at 12,500'
Liner - New 5", 18#, N-80, Hydril, set at 15,900'
5. A drawing of an API Series 900 Blowout Preventer Specification is attached. Pipe rams and blinds will be checked to 1,000 PSI for 30 minutes when BOP is installed. BOP will be checked when casing string is set and operated daily for checks.
6. The proposed mud program is as follows:

0 - 1000' fresh water 8.5-9.0 pounds per gallon
1000 - 5000' salt water 9.0-10.0 pounds per gallon
5000 - 12,500' fresh water gel 8.5-9.0 pounds per gallon
12,500 - 15,900' non-dispersing 12.7-13.2 pounds per gallon
7. The auxiliary equipment to be used is:

(1) kelly cocks
(2) floats at the bit
8. It is proposed to run GR CAL CNL FDC PDC logs at selected intervals, as indicated on attached Proposed Well Plan.
9. No abnormal pressures or temperatures are expected to be encountered in this well.
10. The anticipated starting date for the well is December 1, 1978 with a duration date of approximately 100 days.

PROPOSED WELL PLAN OUTLINE

WELL NAME: Brinninstool No. 1
 1980' FNL & 1980' FEL
 LOCATION: Sec. 30, T23S, R33E

COUNTY: Lea
 STATE: New Mexico
 EST. 3715 KB
 EST. 3690 GL

| DEPTH | FORMATION TOPS & TYPE | DRILLING PROBLEMS | TYPE OF FORMATION EVALUATION | HOLE SIZE (IN) | CASING | | FRACTURE GRADIENT | FORMATION PRESSURE GRADIENT | MUD | |
|-------|--------------------------|----------------------------|---------------------------------------|----------------------|--------------|---------------|----------------------|-----------------------------------|-------------|---------------|
| | | | | | SIZE (IN) | DEPTH (FT) | | | WEIGHT | TYPE |
| 0 | | Lost circ. in surface beds | Geolograph 0-TD | 20 | 16 | 700 | | | 8.5- 9.0 | Fres Water |
| 1330 | Rustler anhy 1330' | | | | | | | | | |
| 1470 | Salado salt 1470' | | | | | | | | | |
| 4910 | Base salt 4910' | | FDC-CNL-GR DLL 2" & 5" | | | | | | 9.0- | Salt |
| 5200 | Ramsey ss 5200' | | 12500' - 5100' | 14 3/4 | 10 3/4 | 5100 | | | 10.0 | Water |
| 8820 | Bone Spring ls 8820' | Possible lost circ. | | | | | | | | |
| 12250 | Wolfcamp ls 12250' | | DLL FDC-CNL-GR 12500' - 15,900' | 9 1/2 | 7 5/8 | 12,500 | | | | |
| 14050 | Strawn ls 14050' | Possible GC mud to TD | | | | | | | 8.5- | Fres |
| 14340 | Ivanovia ls 14340' | | | | LINER | | | | 9.0 | Water Gel |
| 15150 | 1st Morrow ss 15150' | | | | | | | | | |
| 15450 | 2nd Morrow ss 15450' | | | | | | | | | |
| 15630 | 3rd Morrow ss 15630' | | | | | | | | | |
| 15720 | 4th Morrow ss 15720' | | | | | | 15.5-12.5- | | 12.7- | Non- |
| 15900 | TD - 15900' | | | 6 1/2 | 5* | 15900 | 16.5 13.0 | | 13.2 | disp |

*liner from approximately 12200' to 15900'

NEW MEXICO OIL CONSERVATION COMMISSION
 WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 7-76
 Supersedes G-12H
 Effective 1-1-76

All distances must be from the outer boundaries of the Section

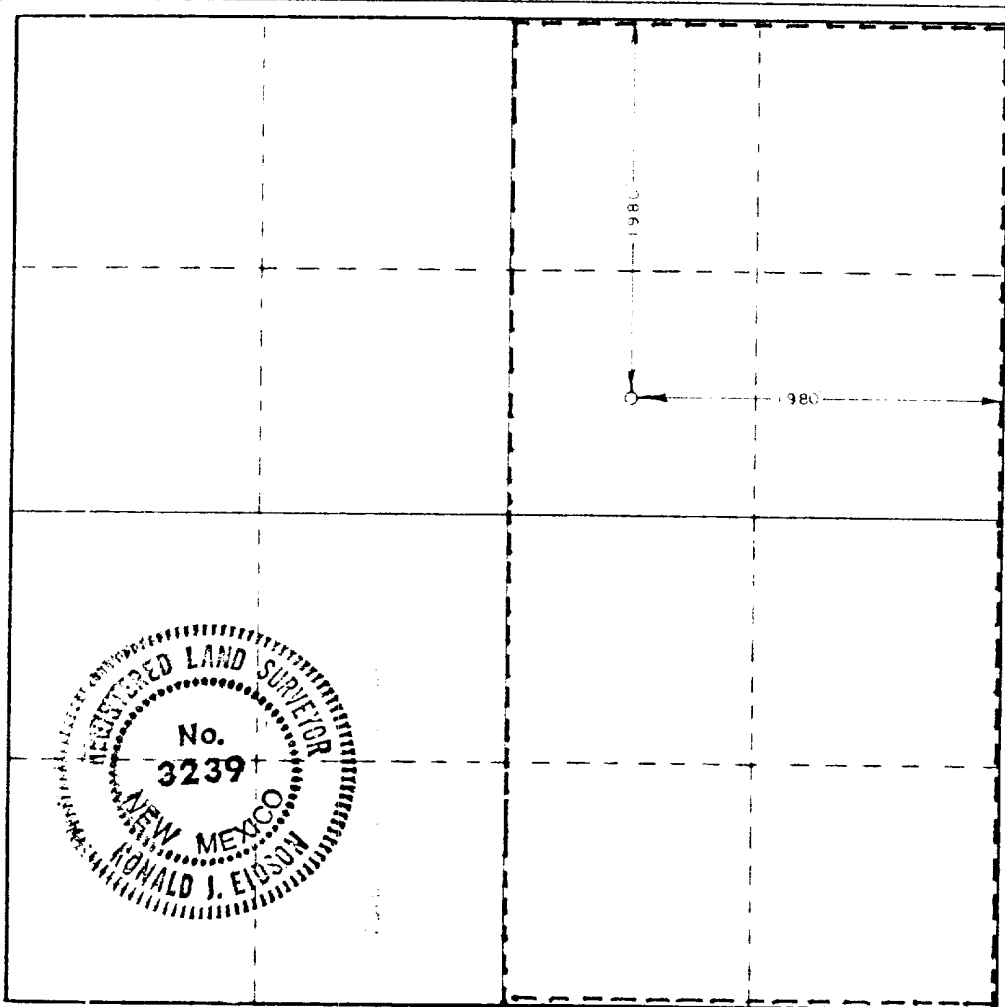
| | | | | |
|---|--------------------------------------|------------------------------|--|----------------------|
| Operator Continental Oil Co. | | Lease Brinninstool | | Well No. 1 |
| Section Letter G | Section 30 | Township 23 South | Range 33 East | County Lea |
| Approximate Location of Well: 1930 feet from the North line and 1980 feet from the East line | | | | |
| Ground Level Elev. 3699.9 | Producing Formation MORROW | Pool BRININSTOOL | Dedicated Acreage: 320 Acres | |

- Outline the acreage dedicated to the subject well by colored pencil or hachure 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.

Name
Ben A. Lee
 Position
ADMINISTRATIVE SUPERVISOR
 Company
CONTINENTAL OIL COMPANY
 Date
9-26-78

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
August 28, 1978

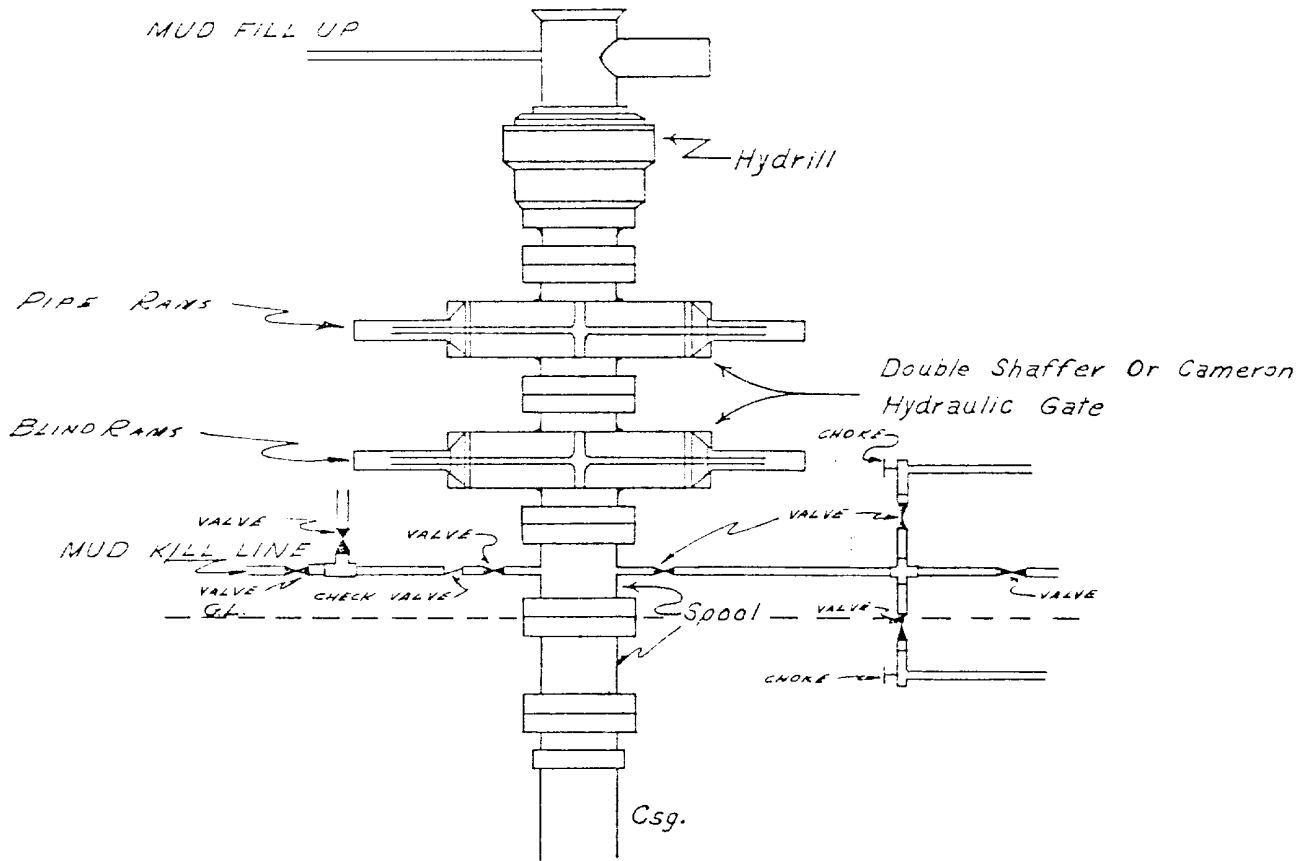
Registered Professional Engineer and/or Land Surveyor

Ronald J. Eidson

Certificate No. **John W. West 676**
Ronald J. Eidson 3239

RECEIVED
OCT 24 1978
CAL CONSERVATION COMM
ROBERT B. M.

CONTINENTAL OIL COMPANY
 Blow-out Preventer Specifications
 BRINNINSTOOL NO. 1



NOTE:

API SERIES 900

Manual and Hydraulic controls with closing unit no less than 75' from well head.
 Remote controls on rig floor.

DUE TO SUBSTRUCTURE CLEARANCE,
 HYDRILL MAY OR MAY NOT BE USED.

SURFACE USE PLAN
Continental Oil Company, Brinninstool No. 1
1980' FNL and 1980' FEL of Section 30, T-23S, R-33E
Lea County, New Mexico

The plan is to accompany "Application for Permit to Drill" the subject well. The following is a discussion of pertinent information concerning possible effect which the proposed drilling of the well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and sub-contractors will be aware of all items of this plan.

1. Existing Roads

- A. The proposed well site is 1980' FNL and 1980' FEL of Section 30, T-23S, R-33E, Lea County, New Mexico.
- B. Exhibit "A" is a portion of a New Mexico road map showing existing black top roads. Directions to the location (outlined in red on map) are as follows: From the Conoco service station in Eunice, travel south 2.5 miles on Loop 18, then turn on the Delaware Basin road for 28 miles. Turn west on wide county road, go 6 miles and turn south for 1 mile. At this point, turn east .5 mile and .5 mile south to the location.
- C,D,E. Access roads are shown on Exhibits "B" and "C".
- F. No improvements or maintenance are anticipated for the existing roads.

2. Planned Access Roads

- A. Width and Length: New road required will be 12' wide and 2640' long. This new road is labeled and color coded on Exhibits "B" and "C". (staked)
- B. Turnouts: Two turnouts located every 1200'.
- C. Drainage Design: New road will have a drop of 6" from center line on each side.
- D. Culverts, Cuts and Fills: None required.
- E. Surfacing Material: Six inches of caliche, bladed, watered, and compacted.
- F. Gates, Cattleguards, Fences: Existing - Fence and cattleguard 3/4 mile N.W. and a fence and cattleguard 1.5 mile north of location. See Exhibit "C". New - None required.
- G. The proposed road is staked.

3. Location of Existing Wells

See Exhibit "C"

4. Location of Existing and/or Proposed Facilities

- A. Tank Batteries: An existing tank battery lies .75 mile northwest of the proposed well in SW/4 of Section 19 and located on Exhibit "C".
- B. Producing Facilities: No producing facilities required.
- C. Oil Gathering Lines: None required.
- D. Other Lines: El Paso's gas gathering line is 1.5 miles northeast of location. A water line will lay (not buried) alongside the road from the location to the waterwell. (See Exhibit "C")
- E. Rehabilitation: Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location. Rehabilitation of the surface is planned to be completed within 45 days from commencement.

5. Water Supply

The source of water will be a water well located approximately 1 mile northwest of the proposed well.

6. Source of Construction Materials

- A. Caliche for surfacing the new road and well pad will be obtained from an existing pit in the SW/4 SW/4 Section 18, T-23S, R-33E as shown on Exhibit "C".
- B. The caliche will be hauled from the pit. From the pit, travel 1.2 miles south, 0.5 mile east and 0.5 mile south to the location.

7. Methods for Handling Waste Disposal

Waste Disposal: Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" dirt. See Exhibit "D" for location of pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. Any produced water will be collected in tanks until hauled to an approved disposal system, or separate disposal applications will be submitted to survey for appropriate approval.

8. Ancillary Facilities

None

9. Well Site Layout

Exhibit "D" shows the relative location and dimensions of the well pad, mud pit, reserve pit, etc. The reserve pit will be lined with plastic. The pad and pits are staked.

10. Plans for Restoration of Surface

Pits will be backfilled and leveled as soon as practical to original condition. Commencement of rehabilitation operations will immediately follow removal of drilling and completion equipment from location and rehabilitation of the surface is planned to be completed within 45 days from commencement.

11. Other Information

- A. Terrain: Flat sandy land. See Exhibit "B", topographic map of the area.
- B. Soil: Sandy
- C. Vegetation: Grass and shinnery, sparse.
- D. Surface Use: Grazing
- E. Ponds and Streams: None within one mile.
- F. Water Wells: .75 mile northwest of location.
- G. Residences and Buildings: None within one mile.
- H. Arroyos, Canyons, Etc.: There are no significant surface features, See attached Exhibit "B".
- I. Well Sign: Sign identifying and locating well will be maintained at drill site with the spudding of the well.
- J. Open Pits: All pits containing mud or other liquids will be fenced.
- K. Archaeological Resources: None observed.

12. Operator's Representative

Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

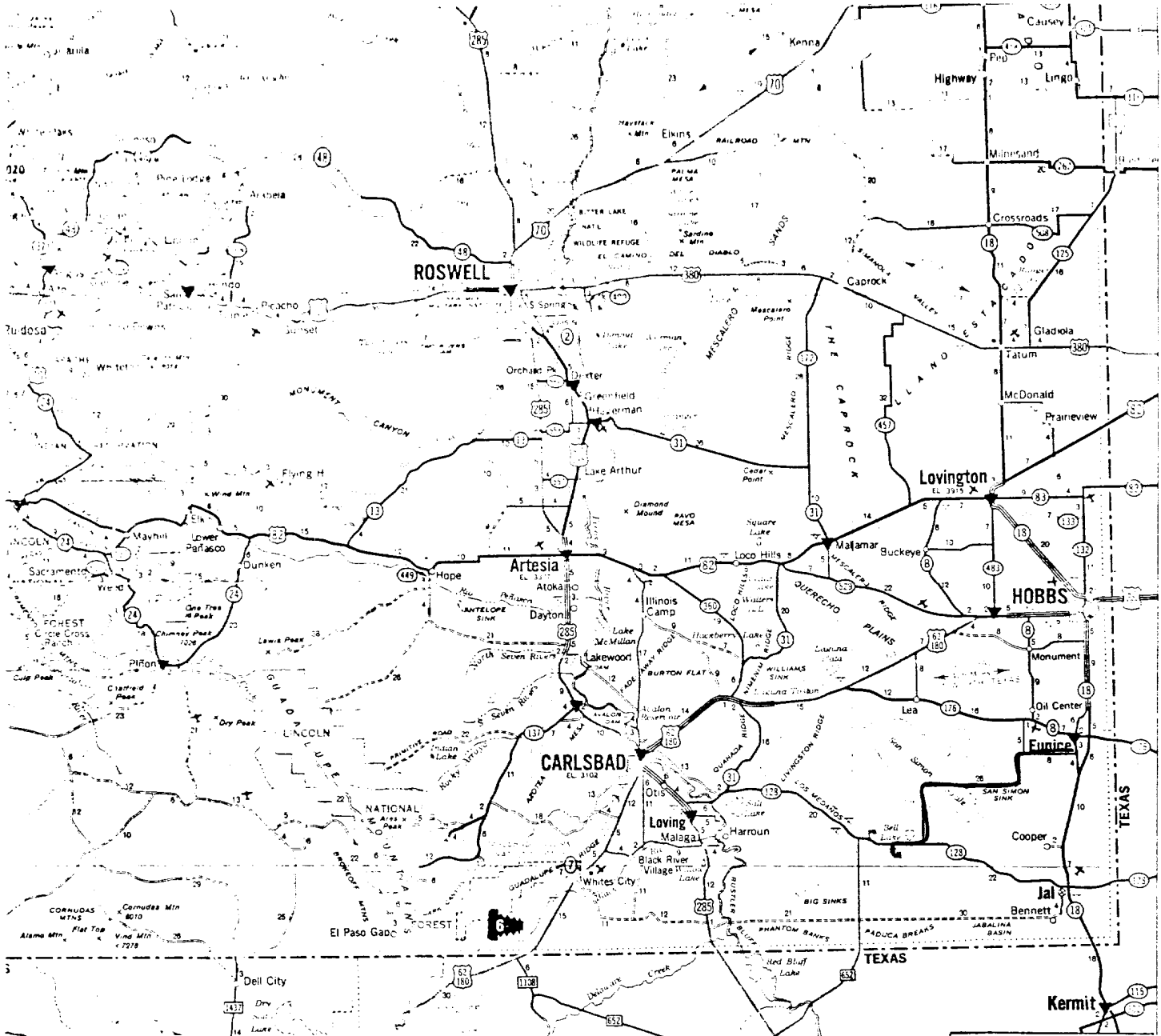
Production and Drilling
C. R. Paschal or H. C. Pokrandt
1001 North Turner
Hobbs, New Mexico 88240
Phone 393-4141

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site 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 Continenal Oil Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

9/27/75
Date

H. C. Pokrandt
H. C. Pokrandt
Production Superintendent



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

LOCATIONS WHERE CONOCO PRODUCTS ARE SOLD

- Locations on Interstate Highways, toll roads, and major state routes
- Other CONOCO station locations
- Locations of COVERED Travel Shoppes

CONOCO

TRAILER DISPOSAL

EXHIBITS

TOUR DE ATTRACTIONS

- HISTORICAL
- SCENIC
- GENERAL

NEW MEXICO

SCALE OF MILES: 0 5 10 20 30 40
ONE INCH EQUALS APPROXIMATELY 21.6 MILES

HIGHWAY MARKERS
 INTERSTATE UNITED STATES STATE TEXAS FARM OR RANCH

ROAD CLASSIFICATIONS
 CONTROLLED ACCESS DIVIDED HIGHWAYS: Divided, Undivided
 OTHER DIVIDED HIGHWAYS: Paved, Gravel
 PRINCIPAL THROUGH HIGHWAYS: Paved
 OTHER THROUGH HIGHWAYS: Paved, Gravel
 CONNECTING HIGHWAYS: Paved, Gravel, Dirt

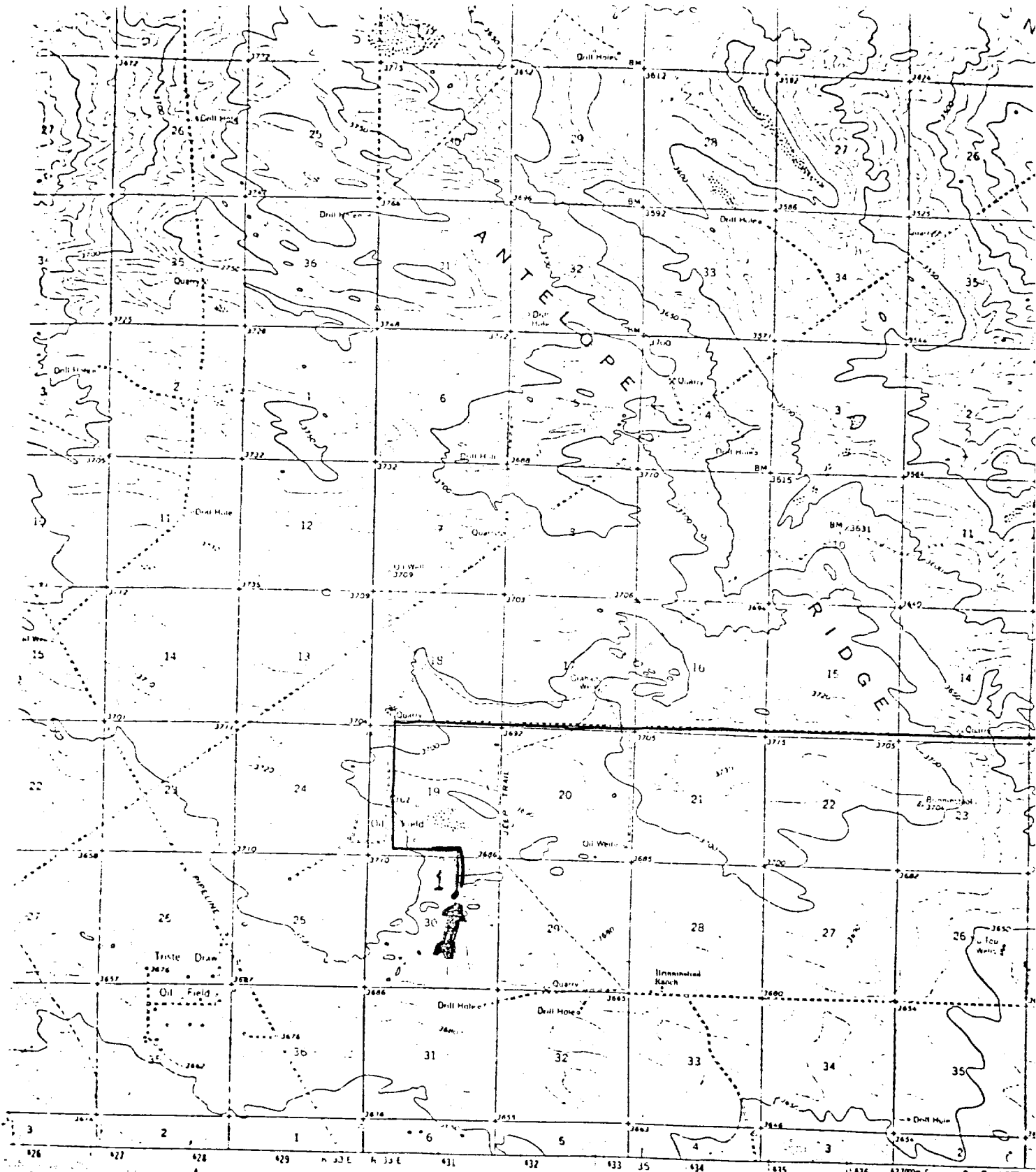
MILEAGES
 MILEAGE BETWEEN TOWNS AND JUNCTIONS:
 MILEAGE BETWEEN DOTS:

SPECIAL FEATURES
 STATE PARKS: With Campsites, Without Campsites
 RECREATION AREAS: With Campsites, Without Campsites
 PORTS OF ENTRY: Open 24 Hours, Inquire Locally
 POINTS OF INTEREST

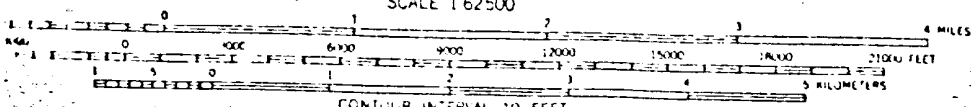
POPULATION SYMBOLS
 State Capital, 2,500 to 5,000, 5,000 to 10,000, 10,000 to 25,000, 25,000 to 50,000, 50,000 to 100,000, 100,000 and over

TOUR DE ATTRACTIONS
 SCHEDULED AIRLINE STOPS, MILITARY AIRPORTS, OTHER AIRPORTS, TOURIST INFORMATION, SKI AREAS, SELECTED REST AREAS, BOAT MARINAS, TIME ZONE BOUNDARY

G THE H. M. GOUGH COMPANY
 1001 N. 22nd St., El Paso, Texas 79901



SCALE 1:62,500



CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

*Continental Oil Co
Brinnm stool No. 1*

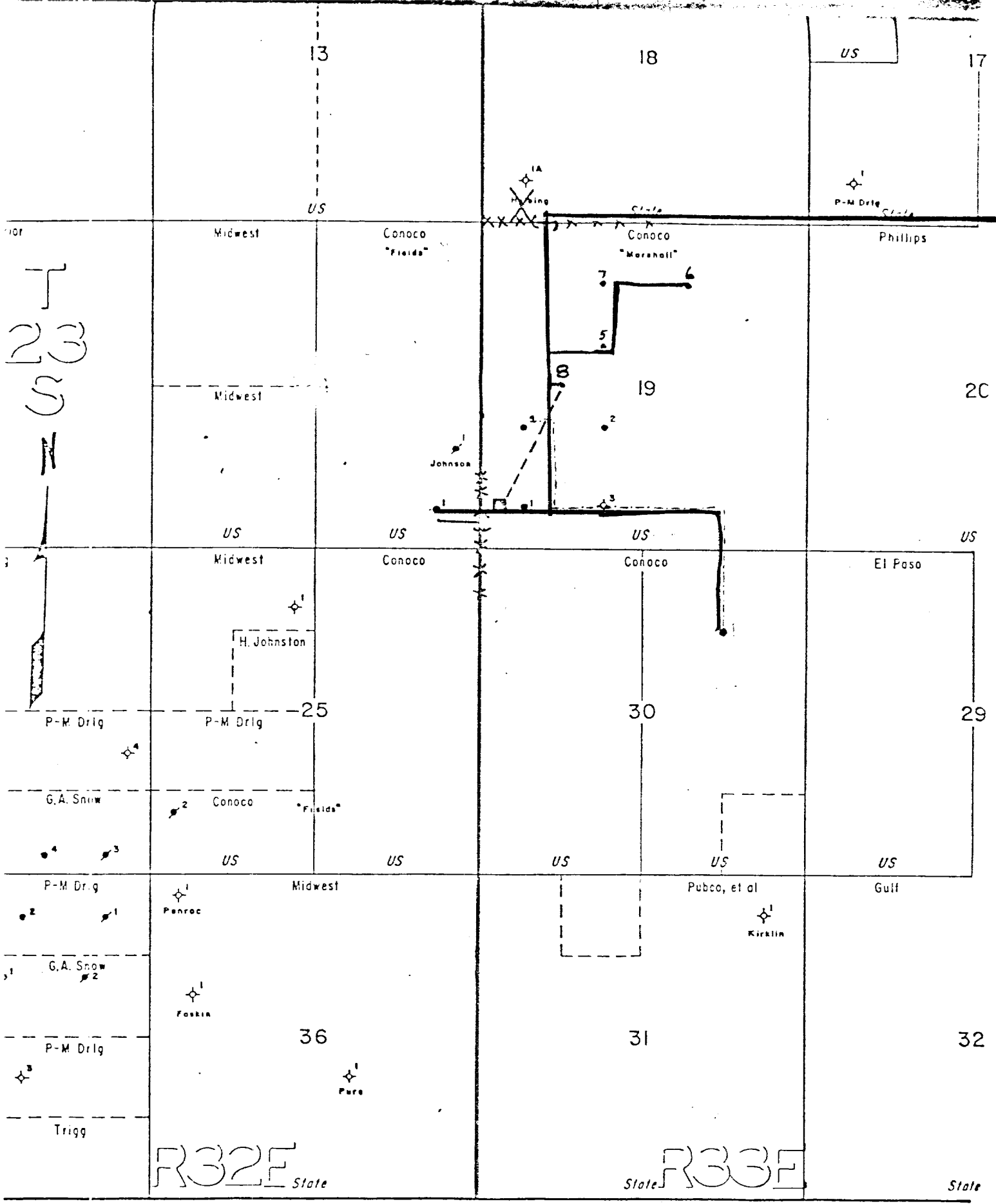
NEW ROAD 2640' x 12'
EXISTING ROAD



QUADRANGLE LOCATION

THIS MAP COMPLES WITH NATIONAL MAP ACTUAL STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY DENVER 25, COLORADO OR WASHINGTON 25, D.C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

EXHIBIT B



- Existing Roads
- New Road
- X Caliche Pit
- Existing Battery
- New Flowline
- ⊕ Cattle guard
- xxx Fence
- (unlabeled)

CONOCO
BRINNINSTOOL NO. 1
EXHIBIT "C"

