Form 9-331C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-025-25364

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: 069300

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Federal 13

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 13, T9S, R36E

12. COUNTY OR PARISH: Lea

13. STATE: New Mexico

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: R. L. Burns Corp.

3. ADDRESS OF OPERATOR: 3990 First National Bank Building, Dallas, Texas 75202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 660' FEL, 1980' FSL, Sec. 13, T9S, R36E
At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 8 miles Northeast of Crossroads, New Mexico

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	17. NO. OF ACRES ASSIGNED TO THIS WELL
660'	80	40
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
---	12,700'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4022' Gr.

22. APPROX. DATE WORK WILL START*: 10/1/76

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	New 13-3/8"	48# H-40	400'	Cement to surface - 500 sx
12-1/4"	New 8-5/8"	32# K-55	4150'	Cement to surface -1450 sx
7-7/8"	New 5-1/2"	17#, 20# N-80	12700'	Cement back to 6500' - 800 sx

Propose to drill to 12,700' to test Devonian, top @ 12,100'. Will also evaluate San Andreas @ 4000', Abo @ 8800', Bough "C" @ 9700' and Atoko-Morrow @ 11,500', if warranted.

Double Gate Series 900 Schaeffer Blow-out Preventors will be used as standard drilling equipment.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Unless Drilling Operations have Commenced, this drilling approval Expires 1-6-77

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 Tony T. Smith TITLE Petroleum Engineer DATE September 16, 76

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED AS AMENDED
OCT 6 1976
BERNARD MOROZ
ACTING DISTRICT ENGINEER

*See Instructions On Reverse Side

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

Operator	Lease	Well No.
R. L. BURNS	Federal 13	1

Unit Letter	Section	Township	Range	County
I	13	9 South	36 East	Lea

Actual Footage Location of Well:
1980 feet from the south line and 660 feet from the east line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
4022.0	Devonian	Wildcat	40 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).

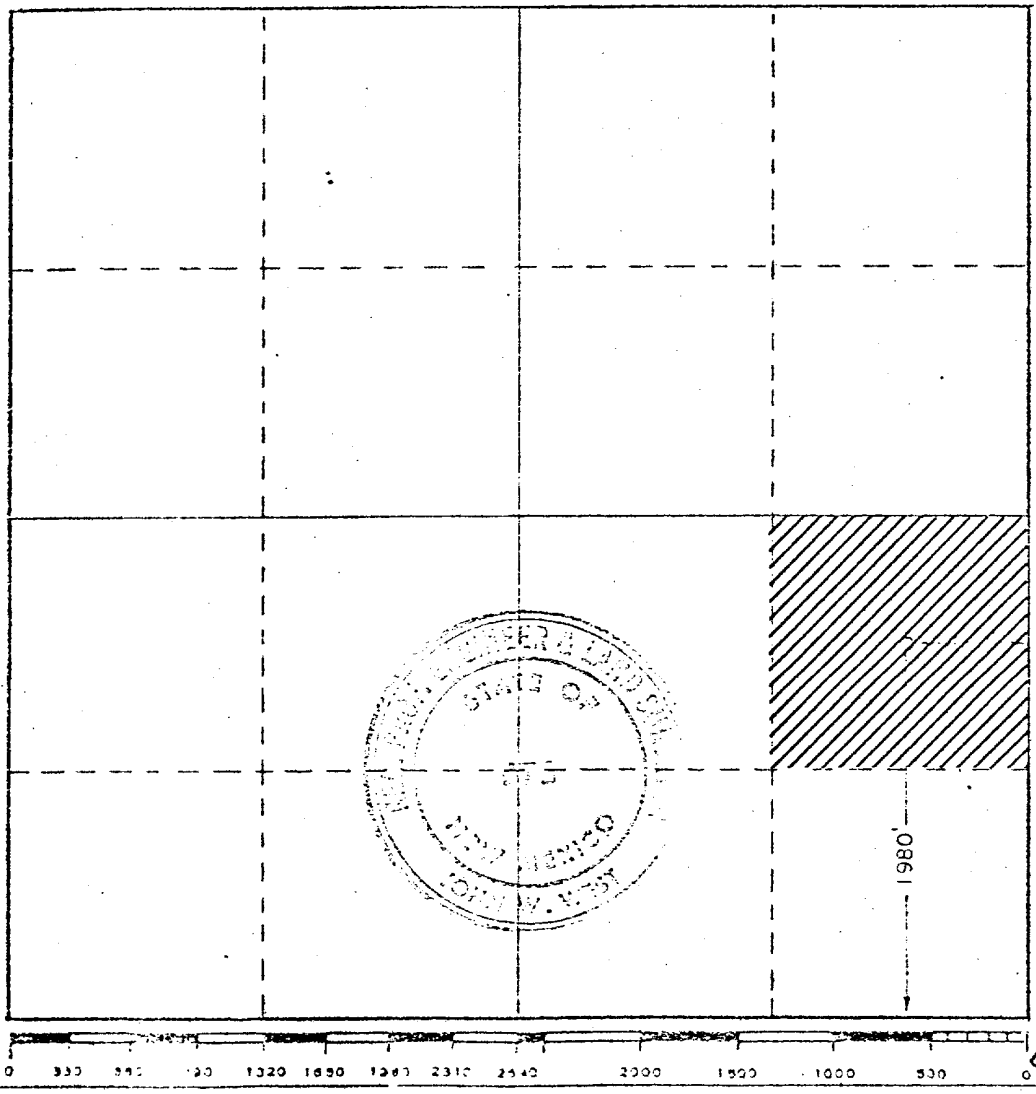
Only one lease involved.

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.

Terry T. Smith

Name: Petroleum Engineer

Position: R. L. Burns Corp.

Company: September 16, 1976

Date

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: Sept. 9, 1976

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. 676

Additional Information with "Application for Permit to Drill"

R. L. Burns Corp. - Federal 13 #1, Sec 13, T9S, R36E, Lea Co., N.M.

1. Geologic name of surface formation - Ogallalla-Pliocene.

2. Estimated tops of important geologic markers - On Form 9-331C.

3. Estimated depths of anticipated hydrocarbon-bearing formations - same as above.

4. Proposed casing program - On Form 9-331C.

5. Proposed pressure control equipment - 12" Shaeffer type 49 Double Blow-out Preventor, 6000# test, hydraulically actuated. Required drilling procedure calls for daily BOP ram tests, and tests on blind rams on bit changes. Schematic of BOP stack are enclosed.

6. Proposed Mud Program - (well to be rotary drilled with Water-Mud to T.D.)
   0' - 4,150': Native mud with vis. 35-40 sec., 9.6-9.8#/gal.
   4,150' - 7,500': Clear water.
   7,500' - 12,700': Saltwater mud, with 4-6% oil, 35-40 vis., 9.5-10#/gal.

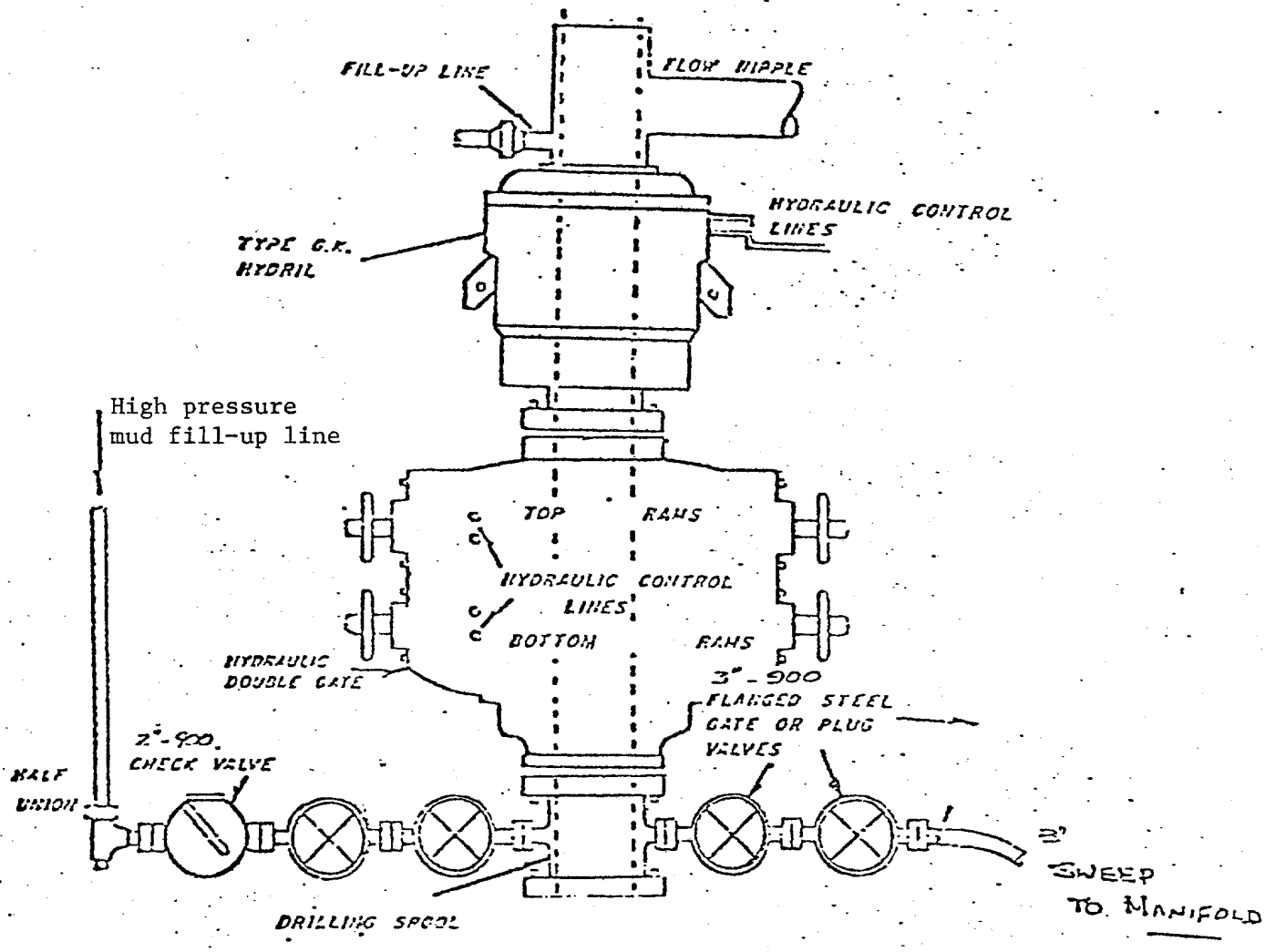
7. Auxiliary equipment to be used: Kelly Cock, Drill Pipe Float Valve, Mud Pit Level Indicator and Drill Pipe Safety Valve.

8. Testing, Logging and Coring Programs:
   a. Run Dual Induction and Porosity Log to immediate casing depth (4150').
   b. Drill to T.D. (12,700') with OHDST's being taken in any intervals with drilling breaks and/or mud logger shows.
   c. Run Compensated Neutron-Formation Density with Gamma Ray and Dual Induction Logs from T.D. to 4150'.
   d. Possible OHDST's in additional zones as indicated by logs.
   e. No coring anticipated.

9. No abnormal pressure or temperature and no hazardous sour gas conditions are known to exist in this area.

10. Anticipated starting date is October 1, 1976. Drilling operations should require approximately fifty-one (51) days.

BLOWOUT PREVENTOR STACK



CHOKE MANIFOLD

(1) 2" S.E. 3000 Cameron

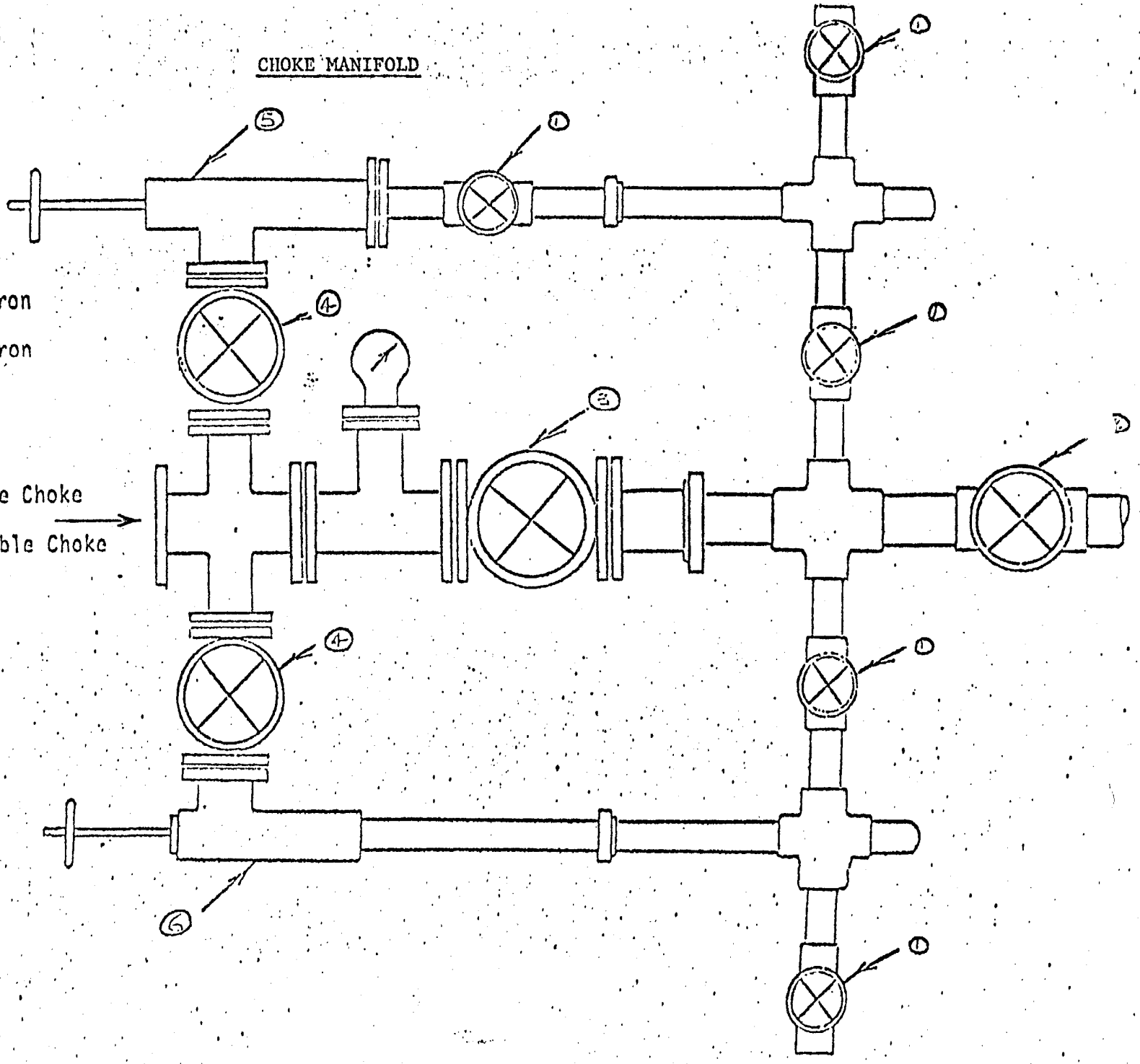
(2) 3" S.E. 3000 Cameron

(3) 3" F.E. 3000 NKM

(4) 2" F.E. 3000 NKM

(5) 2" F.E. Adjustable Choke

(6) 2" FEX SE Adjustable Choke



U. S. GEOLOGICAL SURVEY
P. O. Box 1157
Hobbs, New Mexico 88240

HOBBS DISTRICT

R. L. Burns Corp.
No. 1 Federal 13
NE¼SE¼ sec. 13-9S-36E
Lea County, N. M.

Above Data Required on Well Sign

CONDITIONS OF APPROVAL

1. Drilling operations authorized are subject to the attached sheet for general requirements for drilling and producing operations.

2. Notify this office (telephone (505) 393-3612) when the well is spudded and in sufficient time for a representative to witness cementing operations.

3. Immediate notice is required of all blowouts, fires, spills, and accidents involving life-threatening injuries or loss of life.

4. Secure prior approval before changing the approved drilling program or commencing plugging operations, plug-back work, casing repair work, or corrective cementing operations.

5. Blowout prevention equipment is to be installed, tested, and in working order before drilling below the surface casing and shall be maintained ready for use until drilling operations are completed.

6. A kill-line is to be properly installed and is not to be used as a fill-up line.

7. Blowout preventers are to have proper casing rams when running casing.

8. Drill string safety valve(s) to fit all pipe in the drill string to be maintained on the rig floor while drilling operations are in progress.

9. Blowout prevention drills are to be conducted as necessary to assure that equipment is operational and that each crew is properly trained to carry out emergency duties. All BOP tests and drills are to be recorded on the driller's log.

10. Before drilling below the 8-5/8" casing, the blowout preventer assembly will consist of a minimum of one annular type and two ram type preventers.

11. Operations must be in compliance with the provisions of the landowner agreement concerning surface disturbance and surface restoration.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

R. L. BURNS CORP.
WELL NO. 13 #1 FEDERAL
660' FEL, 1980' FSL, Sec. 13, T9S, R36E
Lea County, 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 Lea County map showing the location of the proposed well as staked. From the town of Crossroads, New Mexico, located at the intersection of State Highways 18 and 508; in so far north-eastern section of Lea County, go three (3) miles east on State Highway 508, turn north-east on a Caliche County Road and procede approximately five (5) miles north-easterly and then in a eastward direction. Turn due south on a Caliche Ranch Road which follows the north-south mid-section line of Section 13. Go approximately 3300 feet, where the proposed lease road will procede in a easterly direction approximately 2000 feet to the location.

   B. Exhibit "B" is a plat showing all existing roads within a two mile radius of the well site and the planned access road. The lease and ranch roads colored in blue on Exhibit "B" are generally Caliche Roads. However, the road indicated on the northeast side of Section 13 is only a sandy trail.

2. PLANNED ACCESS ROADS:

   A. Length and Width: The new road required will be 10-12 feet wide and approximately 2000 feet long. This road is label and color-coded with red dashes on Exhibits A, B, and C. The center line of the proposed new road from the Caliche Ranch Road to the new location has been staked and flagged.

   B. Surfacing Material: The access road will consist of six (6) inches of caliche, compacted and graded.

   C. Maximum Grade: 1 percent.

   D. Turnouts: None required.

E. Drainage Design: The new access road will have a drop of approximately four (4) inches from the center line to each side.

F. Culverts: None required.

G. Cuts and Fills: None required.

H. Gates, Cattleguards: One cattleguard will be installed on the Caliche Ranch Road at a point approximately in the center of Section 13. Location is shown on Exhibit "B".

3. LOCATION OF EXISTING WELLS:

A. All wells drilled within a two to three mile radius are shown on Exhibit "A" and "B".

4. LOCATION OF PROPOSED FACILITIES:

A. There are no well facilities of any type in Section 13.

B. If the proposed well is a producer, the Battery will be located in the southeast portion of the well pad as shown on Exhibit "C".

5. LOCATION AND TYPE OF WATER SUPPLY:

A. Water for drilling purposes will be purchased at an off-lease location, probably Crossroads, and hauled to the location by the drilling contractor. Hauling of water will be over the existing and proposed road as indicated in Exhibits A, B, and C.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surface constructing the access road and the well pad will be purchased and obtained from an off-site location and hauled to the work area by the road contractor. The caliche will be hauled over the roads as shown on Exhibits A, B, and C.

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. Oil produced during tests will be stored in test tanks until sold.

D. Current laws and regulations pertaining to human wastes will be complied with.

E. Trash, waste paper, garbage and junk will be collected and buried to a depth of at least twenty-four (24) inches in a separate trash pit. Waste matter will be contained to prevent scattering by the wind. The location of the trash pit is shown on Exhibit "D".

F. All trash and debris will be buried or removed from the well site within thirty (30) days after operations are completed.

8. AUXILIARY FACILITIES:

A. None required.

9. WELLSITE LAYOUT:

A. Exhibit "D" shows the relative location and dimensions of the well pad, mud pits and major rig components.

B. Only minor leveling of the well site will be required. No significant cuts and fills will be necessary.

C. The reserve pit will be fenced.

D. The pad and reserve pit outline has been staked and flagged.

10. PLANS FOR RESTORATION OF THE SURFACE:

A. After completion of well operations, all equipment and materials that will not be needed will be removed. Pits will be filled and location cleared of all trash and junk, to leave the well site in as close to original conditions as possible.

B. The reserve pit will remain fenced until filled.

C. After abandonment of the well, surface restoration will be in accordance with the surface owner, Mr. Fred Baldridge, Star Route, Clovis, New Mexico, 88101 (a copy of our agreement with Mr. Baldridge is enclosed). Pits will be filled and location will be cleaned. The pit area and all well pad and access road area not needed will be ripped to promote revegetation. Surface rehabilitation should be accomplished ninety (90) days after abandonment.

11. OTHER INFORMATION:

A. Topography: Land surface is gently rolling and duny. From an elevation of 4022 feet at the well site, the land surface slopes gently towards the southeast at about twenty-five (25) feet per mile. See Exhibit "B", a topographic base map.

B. Soil: The soil is a deep, fine sand of 12-24 inches thickness underlain by caliche.

C. Flora and Fauna: The vegetative cover is generally sparse and consists of a few widely scattered scrub oaks and a little native grass. Wildlife in the area is typical of semi-arid desert land.

D. Ponds and Streams: There are no rivers, lakes or ponds in the area.

E. Residences and Other Structures: The nearest dwelling is a very old ranch house located one half mile to the west of the location. It is uninhabited.

F. ARCHEOLOGICAL, HISTORICAL AND CULTURAL SITES: None observed in the area.

G. Land Use: Grazing and hunting in season. The northwest quarter of Section 13 is under wheat cultivation.

H. Surface Ownership: The proposed well site, pad and access road is under private surface ownership. The surface owner is Mr. Fred Baldridge, Star Route, Clovis, New Mexico, 88101. A copy of the agreement between R. L. Burns Corp. and Mr. Baldridge concerning land use and restoration is enclosed.

12. OPERATOR'S REPRESENTATIVE:

The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

William T. (Tommy) Thomas
1316 N. Belmont
Odessa, Texas 79763
Office phone: (915) 682-6381
Home phone: (915) 332-4854

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 R. L. Burns Corp. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

September 21, 1976 — Date

Terry T. Smith — Name and Title

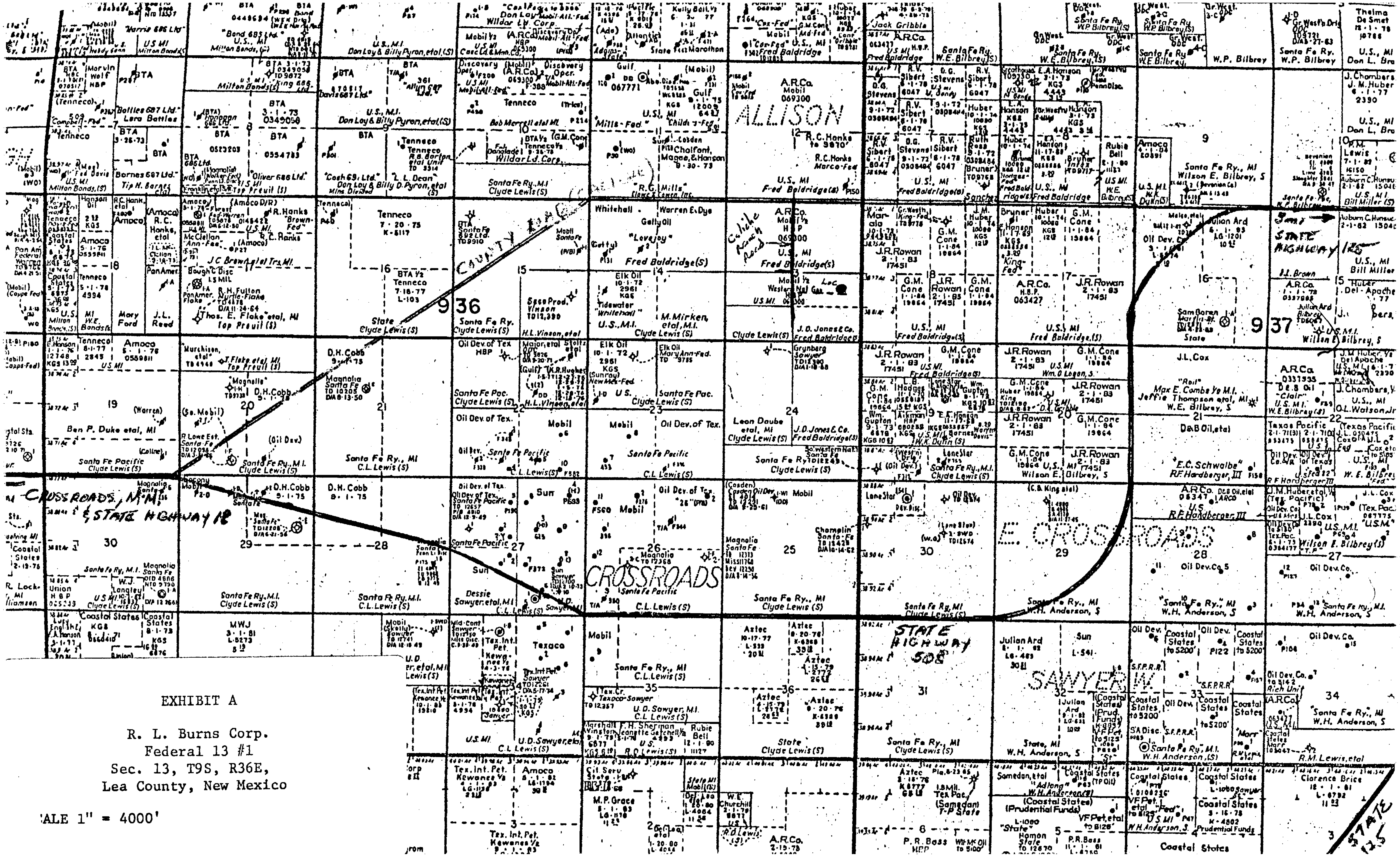


EXHIBIT A

R. L. Burns Corp.
Federal 13 #1
Sec. 13, T9S, R36E,
Lea County, New Mexico

'ALE 1" = 4000'

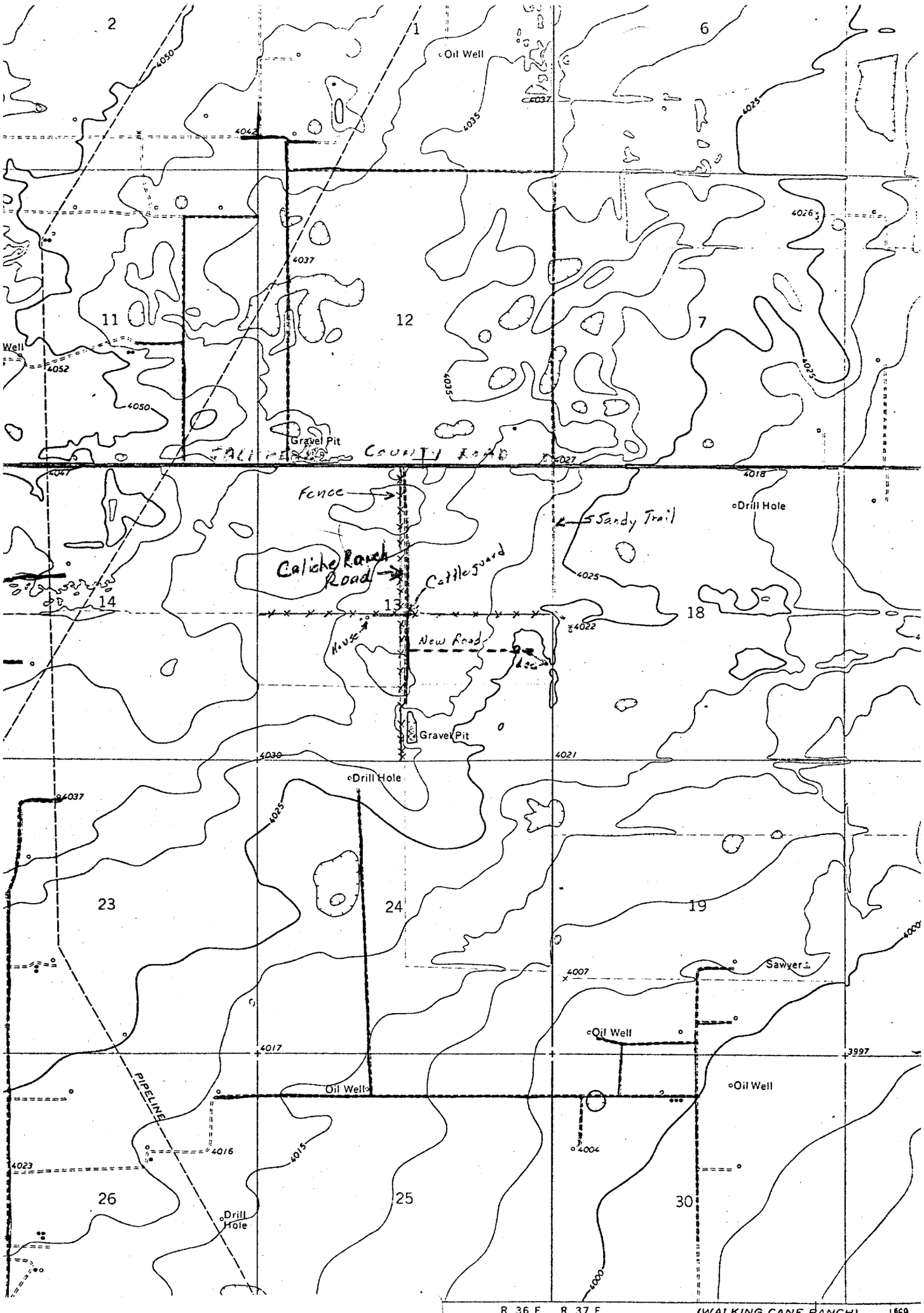


EXHIBIT B
R. L. Burns Corp.
Federal 13 #1
Sec 13, T9S, R36E,
Lea Co., N.M.

SCALE 1" = 2000' Approx.

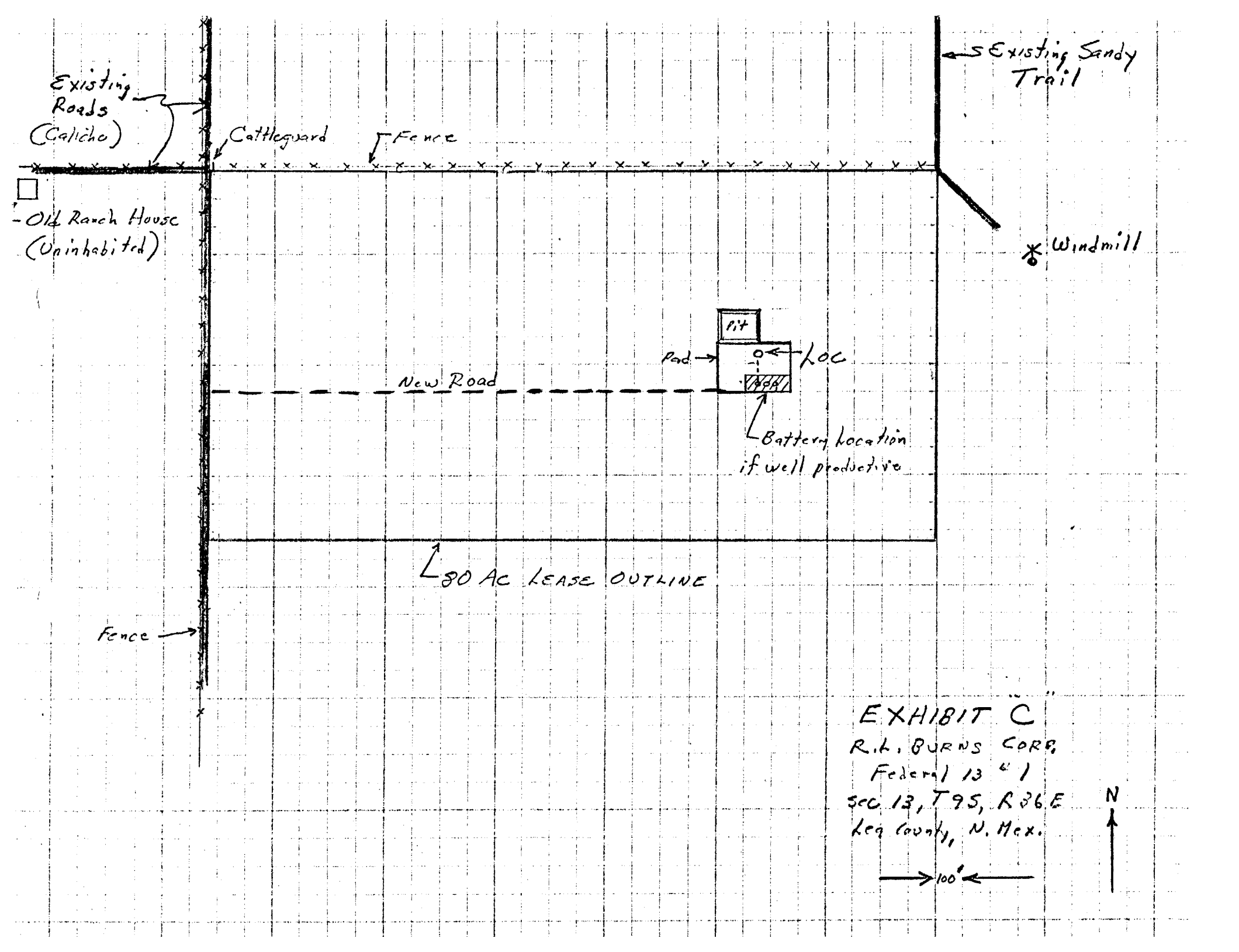
- - Proposed road
— County road
— Lease and/or private roads
Lease outline

R. 36 E. R. 37 E. (WALKING CANE RANCH) 1969
5350 I NW

SCALE 1:24000

1 0 1/2
FT 1000 0 1000 2000 3000 4000 5000
1 .5 0

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929


Existing Roads (Caliche)
Cattleguard
Fence
Existing Sandy Trail
Old Ranch House (Uninhabited)
Windmill
Pit
Pad
LOC
New Road
Battery location if well productive
80 AC LEASE OUTLINE
Fence
EXHIBIT "C"
R.L. BURNS CORP.
Federal 13 #1
Sec 13, T 9S, R 36 E
Lea County, N. Mex.
100'
N

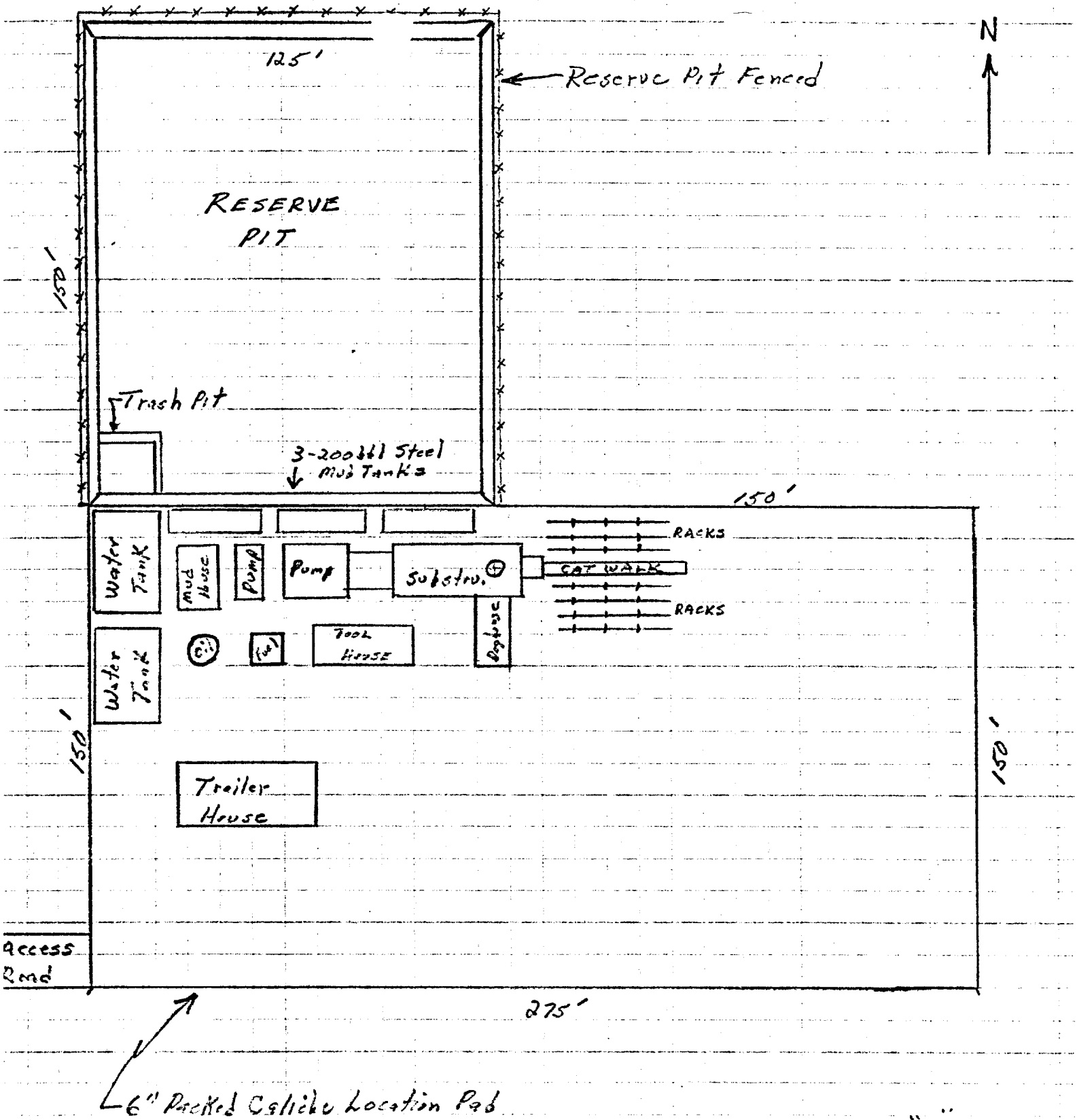


EXHIBIT "D"
RIG LAYOUT
R.L. BURNS CORP
Federal 13 #1
Sec 13, T9S, R36E
Lea County, N. Mex

→10'←

(915) 682-6381

R. L. BURNS CORP. THE VAUGHN BLDG. · SUITE 516 · MIDLAND, TEXAS 79701

FRANK L. SCHATZ
WESTERN REGIONAL EXPLORATION MANAGER

September 16, 1976

SUBJECT: Federal 13-1, Sec. 13
T-9-S, R-36-E
1980' FSL & 660' FEL
Lea County, New Mexico

Agreement between Mr. Fred Baldridge, surface owner of said section, and R. L. Burns Corp.:

Mr. Fred Baldridge was contacted on September 16, 1976. An agreement was made to build road and pad to said location for $1500.00 R. L. Burns Corp. agrees to: fence pits, install one cattle guard and to leave said cattle guard if dry hole, to restore location to its original state as possible without removing the caliche road and caliche pad, to fill and level pits, to pick up all trash, and to remove all drilling equipment.

R. L. Burns Corp. agrees to pay surface owner $1500.00 before drilling rig moves in.

Signed this 9-18 day of September, 1976.

BY: Fred Baldridge
Mr. Fred Baldridge

BY: William T. Thomas
Mr. William T. Thomas,
Representative for R. L. Burns Corp.

ATTACHED IS PLAT SHOWING WELL LOCATION.

WTT:bh

R. L. Burns Corp.

Fed 13-1

Sec 13. Township 9 South - Range 36 East.
Lea County. New Mexico
1980' FSL. 660' FEL.

N