

N.M.O.C.D. COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other 1. ctions on
reve: side)Form approved.
Budget Bureau No. 42-R1425.

30-005-61056

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

BILL G. ISLER

RECEIVED

3. ADDRESS OF OPERATOR

607 Broken Arrow, Roswell, N.M. 88201

AUG 05 1981

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

At surface

660'/N 660'/W Sec.22-7S-26E

O. C. D.

At proposed prod. zone

Same

ARTESIA, OFFICE

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

25 Miles northeast of Roswell, N.M.

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

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

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

None

19. PROPOSED DEPTH

5000' ABO

20. ROTARY OR CABLE TOOLS

Rotary

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

3739 GL

22. APPROX. DATE WORK WILL START*

September 1, 1981

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48# H40	300'	300sx Class C (Circ.)
11"	8 5/8"	24# K55	1750'	400HLW+200 "C" (Circ.)
7 7/8"	4 1/2"	10.5# K55	5000'	500HLW+450 POZ

Gas is not dedicated to a pipeline.

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

Jerry H. Long

TITLE

Agent for:

BILL G. ISLER

DATE

July 24, 1981

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

APPROVED

TITLE

DATE

(Orig. Sgd.) GEORGE H. STEWART

AUG 4 1981

FOR

JAMES A. GILHAM
DISTRICT SUPERVISOR

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-81

All distances must be from the outer boundaries of the Section

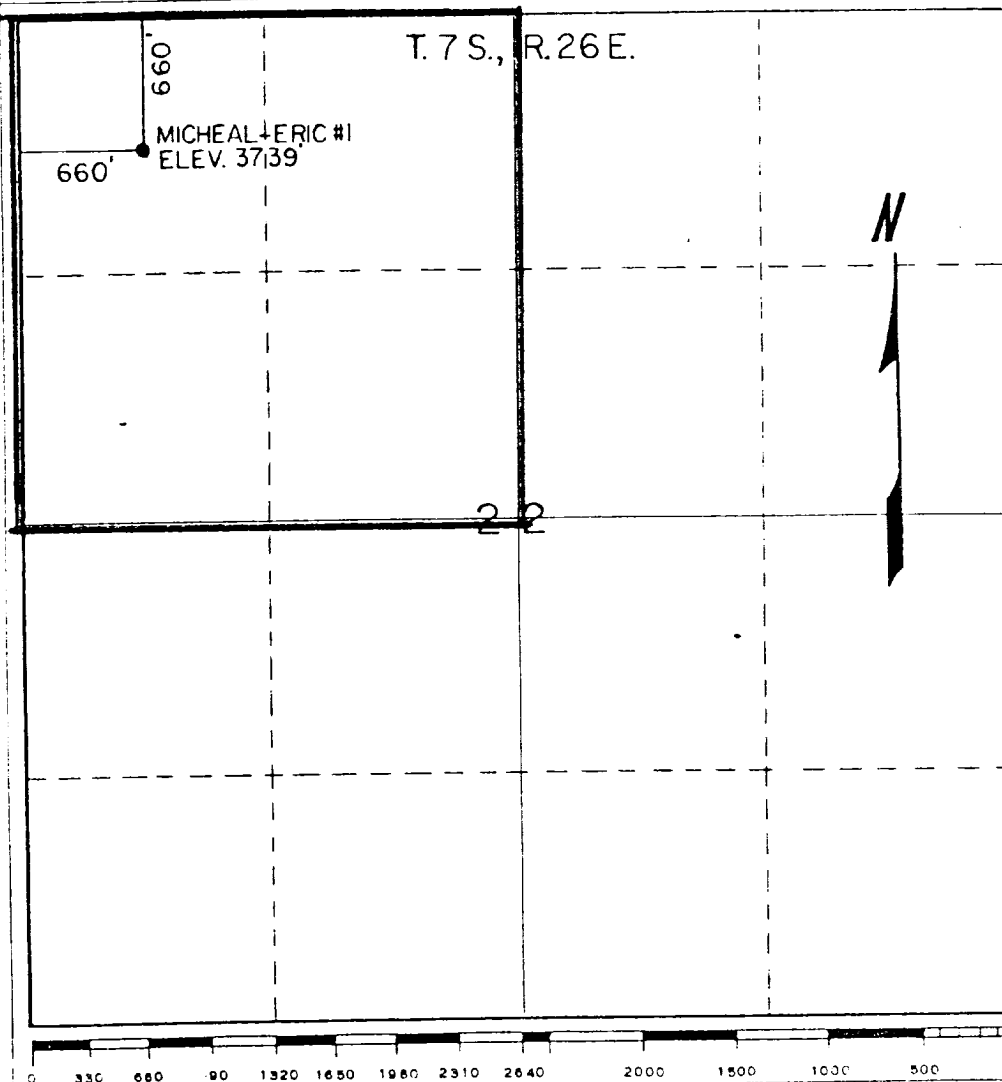
Owner Bill G. Isler			Operator Michael Eric		Well No. 1
Section Letter D	Section 22	Township 7-S	Range 26-E	County Chaves	
1. Portage Location of Well: 660 feet from the NORTH line 660 feet from the WEST line					
Ground Level Elev. 3739	Producing Formation ABO	Designation Undesignated		Dedicated Acreage 160 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.

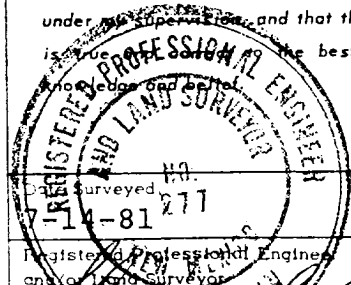


CERTIFICATION

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

Name
Jerry w. Long
Position
Agent for:
Company
Bill G. Isler
Date
July 24, 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 to the best of my knowledge and belief.



Registered Professional Engineer and Land Surveyor
THOMAS T. MANN
Certificate No.
Thomas T. Mann, P.E. & L.S.
N.M. License No. 277

SUPPLEMENT TO APPLICATION TO DRILL

BILL G. ISLER
No.1 Michael Eric
NW¼NW¼ Sec.22-7S-26E
Chaves County, N.M.

LEASE: NM 38343

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

1. SURFACE FORMATION: Permian System

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Artesia Group	- Surface	San andres	- 1100'
Salt	- 250'	Glorietta	- 2200'
Queen	- 650'	Tubb	- 3700'
Penrose	- 750'	Abo	- 4400'

3. ESTIMATED DEPTH TO WATER, OIL OR GAS:

Fresh water - In surface formations above 250'.
Salt water - In San Andres below 1100'.
Gas - In Abo formation below 4400'.

4. PRIMARY OBJECTIVE:

Gas from Abo formation.
No fresh water expected below 300'.

5. CASING AND CEMENTING PROGRAM:

Surface: 300' of 48#, 13 3/8", H40, ST&C casing cemented with 300 sx Class "C" + 2% CaCl mixed at 14.8 ppg. Cement will be circulated, using Redimix down the annulus, if necessary. Drill out cement inside the casing after WOC for about 8 hours.

Intermediate: 1750' of 8 5/8", 24#, K55, ST&C casing cemented with 400 sx HLW + 1/4# flocele + 2% CaCl mixed to 12.4 ppg. Tail in with 200 sx Class "C" + 2% CaCl mixed to 14.8 ppg.

Cement will be circulated to the surface. If necessary, cement will be circulated to the surface using 1" pipe down the annulus. If severe lost circulation has been encountered while drilling the 11" hole; the cementing job will be preceded with 200 sx thickset cement mixed to 14.8 ppg. Install 8 5/8 x 10" API 3000# casinghead. Nipple up 10" API 3000# WP double ram BOP to drill 7 7/8" hole to total depth. Choke, kill, and fill lines will be installed. The BOP system and casing will be tested to 1500 psi before drilling out the 8 5/8" casing. A full opening safety valve, to fit the drill pipe in use, will be kept available on the rig floor. Working condition of BOP rams will be checked at least daily. See Exhibit "D" for BOP diagram.

Production: 5000' of 4 1/2", 10.5#, K55, ST&C casing will be cemented with 500 sx HLW + 1.4% flocele + 10# salt mixed to 12.7 ppg. Tail in with 400 sx 50/50 POZ + 2% gel + 8# salt + 3/10% CFR-2 mixed to 14.1 ppg to raise cement to intermediate casing shoe.

6. CIRCULATING MEDIUM:

- 0' - 1750' Use fresh water spud mud with fresh water gel and soda ash or lime. Treat with lost circulation material as recommended by mud contractor. If total lost circulation occurs, mix 2 or 3 viscous slugs with LCM and attempt to regain circulation. If unsuccessful, will attempt drilling without returns to casing point and spot about 150 barrels viscous slug treated with LCM on bottom before running pipe.
- 1750'-3200' Drill out 8 5/8" casing with fresh water. Add caustic soda for pH 9.0-9.5 and chemicals for corrosion control. Add LCM as needed to control lost circulation or to sweep the hole.
- 3200'-TD Maintain mud weight less than 10 ppg with additions of fresh water while keeping chloride ion concentration of 40,000-50,000 ppm and KCL at 3%. At top of Abo mud up with starch and soda ash to control water loss to 20-25cc to TD. Salt Water Gel will be added to clean hole to log and run casing.

7. CORING TESTING AND LOGGING: No coring or testing is planned for this well. It is proposed to run a gamma ray log from TD to

surface, a Compensated Neutron-Density-Caliper log from the intermediate casing shoe to TD.

8. SUBSURFACE HAZARDS: Maximum bottom hole pressure is expected to be about 1500 psi. Mud weight required to offset this pressure would be 9.0 ppg. Bottom hole temperature should not exceed 120°F. No sour gas is expected.
9. ANTICIPATED STARTING DATE: Anticipated spud date is September 1, 1981. Drilling operations will be conducted for about 10 days. Completion operations, will follow the drilling operations as soon as a completion unit is available.

PERTINATE INFORMATION

For

BILL G. ISLER
No.1 Michael Eric *glt*
NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec.22-7S-26E
Chaves County, N.M.

NM 38343

<u>LOCATED:</u>	25 miles northeast of Roswell, N.M.
<u>FEDERAL LEASE:</u>	NM 38343
<u>LEASE ISSUED:</u>	February 1, 1980 10 Year Primary Term
<u>RECORD LESSEE:</u>	Sun Oil Company
<u>BOND COVERAGE:</u>	\$150,000 Nation-wide
<u>ACRES IN LEASE:</u>	640
<u>AUTHORITY TO OPERATE:</u>	Designation of Operator
<u>SURFACE OWNERSHIP:</u>	N $\frac{1}{2}$ Sec.22 is Public Surface Grazing Permittee is Marley Ranch
<u>POOL RULES:</u>	Undesignated Abo 160 Acre Gas Spacing
<u>EXHIBITS:</u>	A. Road Map B. Contour Map C. Rig Layout D. BOP Diagram E. Surface Ownership Map

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

BILL G. ISLER
No.1 Michael Eric
NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec.22-7S-26E
Chaves County, N.M.

LEASE: NM 38343

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 approximately 25 miles northeast of Roswell, N.M.
- 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 7 miles. Go 660 feet east on new access road to location.

2. PLANNED ACCESS ROAD:

- A. Length and Width: Access from the County road will necessitate construction of 660 feet of new road. The new road will be bladed 12' wide with 2' shoulders.
- B. Surfacing Material: If surfacing proves to be necessary, caliche will be purchased from a commercial source.
- C. Maximum Grade: Essentially flat
- D. Turnouts: None necessary

- E. Drainage Design: The new road will be bladed with a 6" crown in the center.
 - F. Culverts: None necessary
 - G. Cuts and Fills: The pad and access road will require a maximum of 2' for cuts and fills. The mud pits will be 8'x24'x6' deep. The reserve pit will be 50'x75'x4'deep.
 - H. Gates, Cattle Guards: A cattle guard will be installed where the new access road leaves the County road.
3. LOCATION OF EXISTING WELLS:
- A. Existing wells in the general area are depicted on Exhibit "E".
4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
- A. There are no existing wells or facilities on this lease. If this well proves to be a producer appropriate production equipment will be located on the drill pad after the drilling equipment has been removed.
5. LOCATION AND TYPE OF WATER SUPPLY:
- A. Water for drilling will be obtained from a commercial source and trucked to the location.
6. SOURCE OF CONSTRUCTION MATERIALS:
- A. Any caliche necessary for the road or pad will be obtained from a commercial source.
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 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" shows the relative location and dimensions of the well pad, pits, and major rig components.

B. The reserve pit will not be plastic lined unless the drilling contractor decided it is necessary in order to contain the 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 not productive, all rehabilitation requirements of the appropriate Regulatory Agencies will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled as soon as they are dry enough.

11. OTHER INFORMATION:

A. Topography: The well is located on an alluvial plain above the Pecos River and about three miles west of the Caprock. The elevation is about 3740' above sea level.

- B. Soil: The soil is predominantly a sandy loam. Taxonomically it can be classified as a member of the camborthids-calciorthids association.
- C. Flora and Fauna: Density of vegetation in the area is about 60%, consisting primarily of mesquite, desert holly, four wing salt brush, plains yucca, rabbit brush, black grama and broom snakeweed. Fauna consists of typical desert animals such as coyotes, rodents, snakes and lizards.
- D. Ponds or Streams: The well is located about 2 miles east of the Pecos River and 2 miles north of Six Mile Draw.
- E. Residences and other Structures: The nearest residence is about one-half mile north.
- F. Archaeological, Historical and other Cultural Sites:

The Agency for Conservation Archaeology at Eastern New Mexico University has been contracted to conduct a survey of the pad and access road and furnish a report for review by the Bureau of Land Management. Any recommendations of the archaeologist regarding protection of cultural sites will be honored.
- G. Land Use: The land is used for grazing under BLM Grazing Allotment No.5025.
- H. Surface Ownership: The N½ Sec.22 is Public surface under allotment to Marley Ranch.

12. OPERATOR'S REPRESENTATIVE:

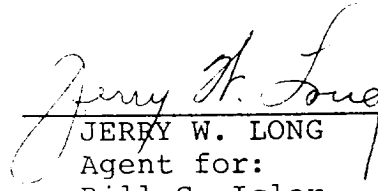
Representative responsible for assuring compliance with the approved Surface Use Plan:

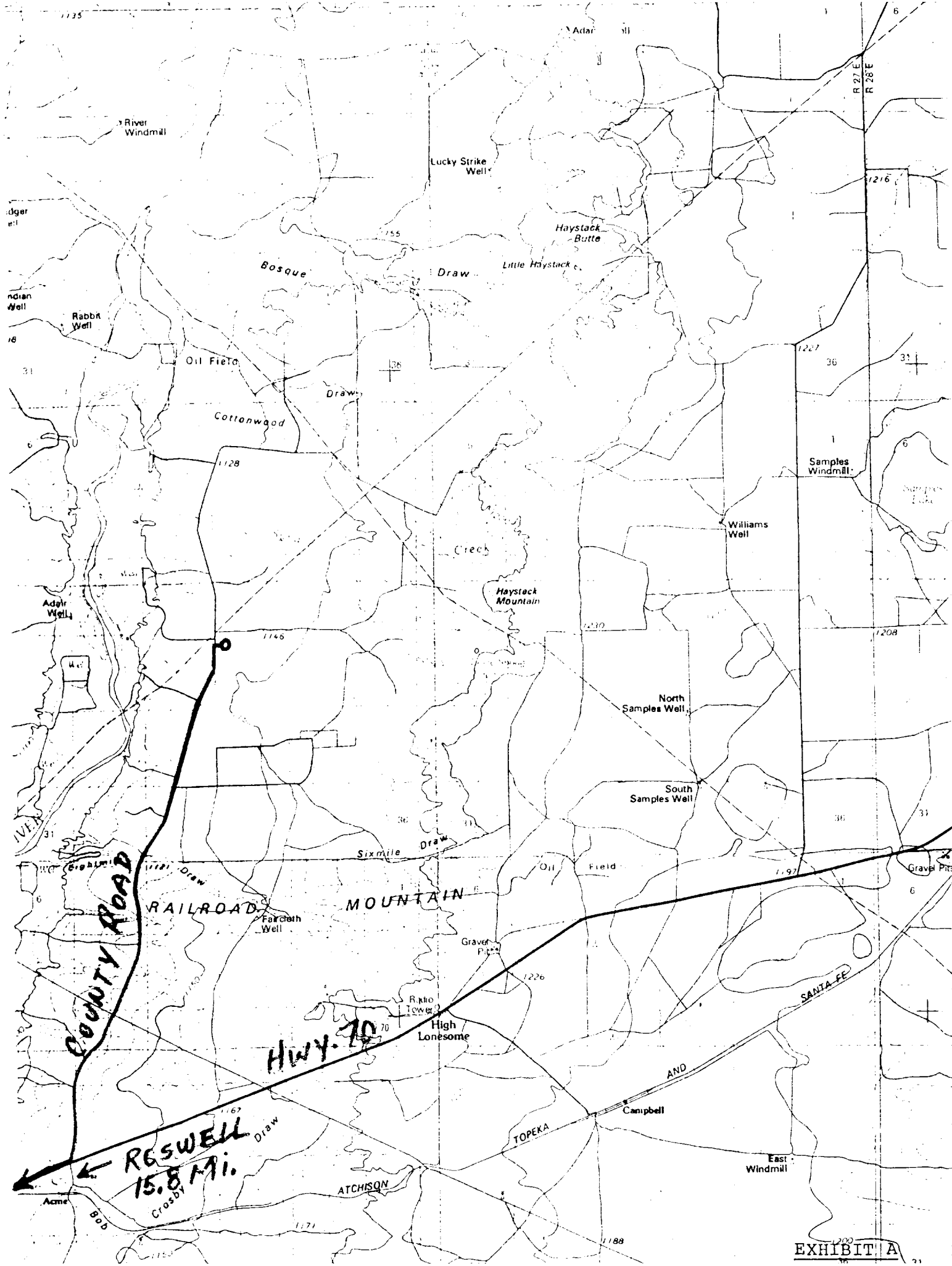
Bill G. Isler
607 Broken Arrow
Roswell, N.M. 88201
Ph. (505)623-6792

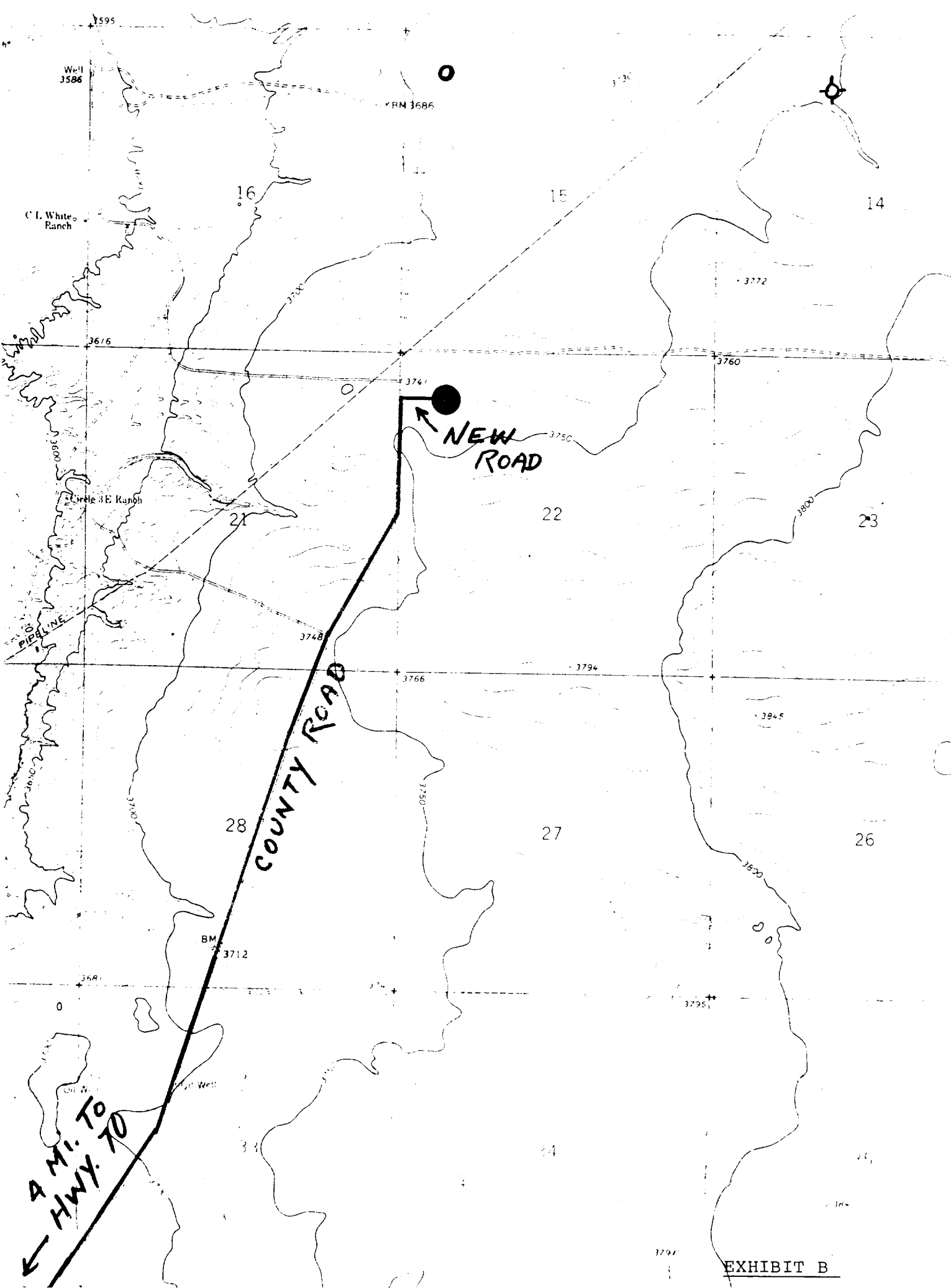
13. CERTIFICATION:

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 Bill G. Isler and his sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

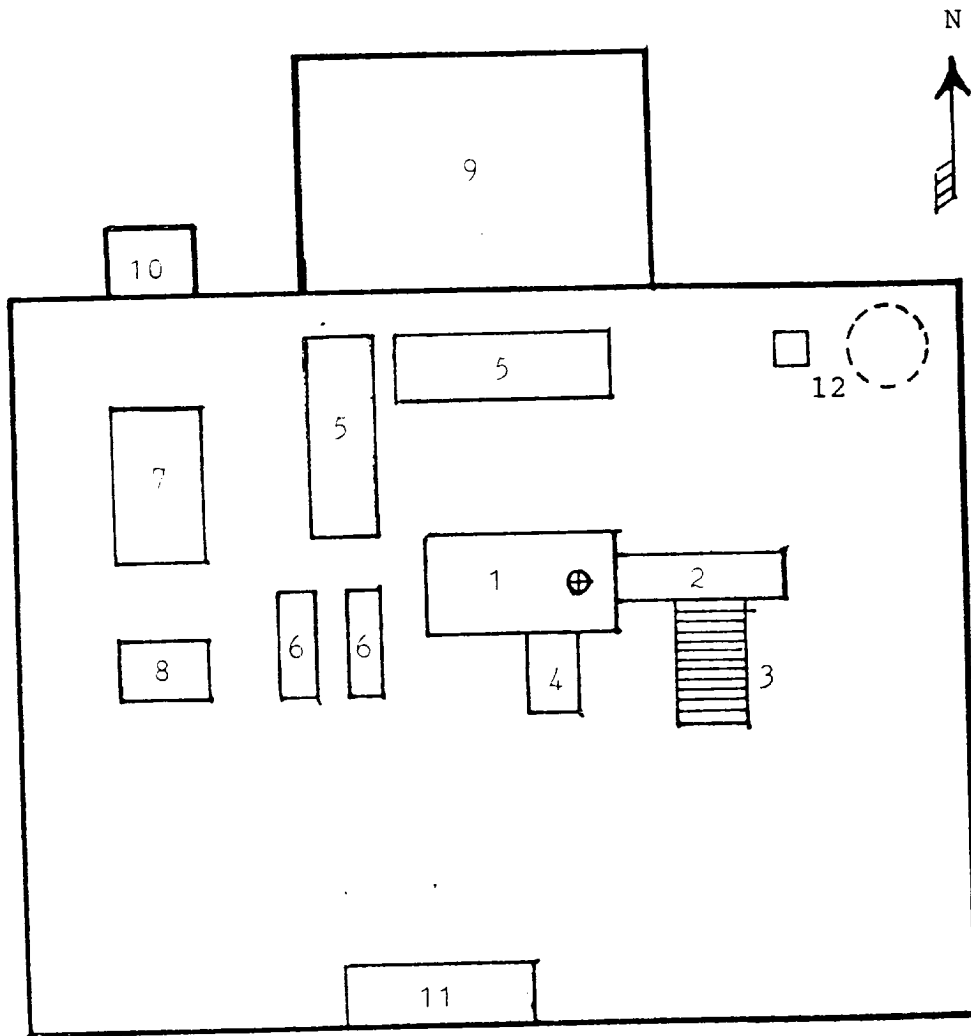
July 16, 1981
Date:


JERRY W. LONG
Agent for:
Bill G. Isler





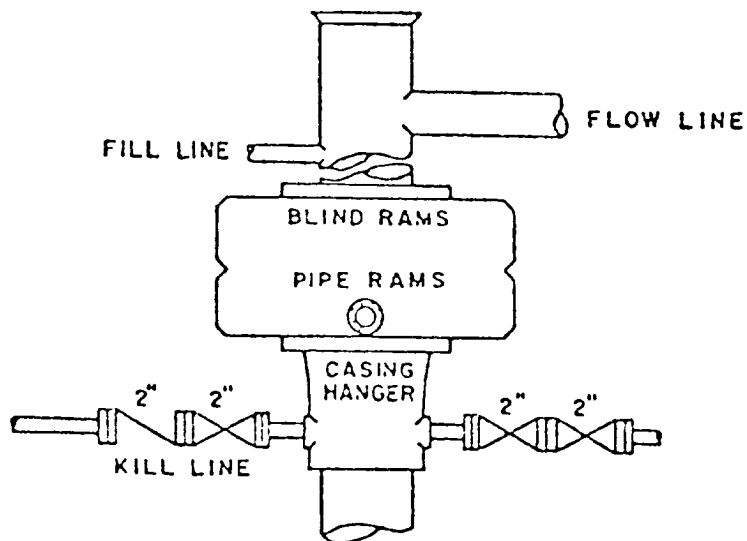
RIG LAYOUT



1. Substructure
2. Catwalk
3. Pipe Rack
4. Doghouse
5. Mud Pits
6. Mud Pumps

7. Water Tank
8. Light Plant
9. Reserve Pit
10. Trash Pit
11. Trailer House
12. Production Facilities

BILL G. ISLER
No.1 Michael Eric
NW¼NW¼ Sec.22-7S-26E
Chaves County, N.M.



BOP STACK

3000 PSI WORKING PRESSURE

T75 - R26E

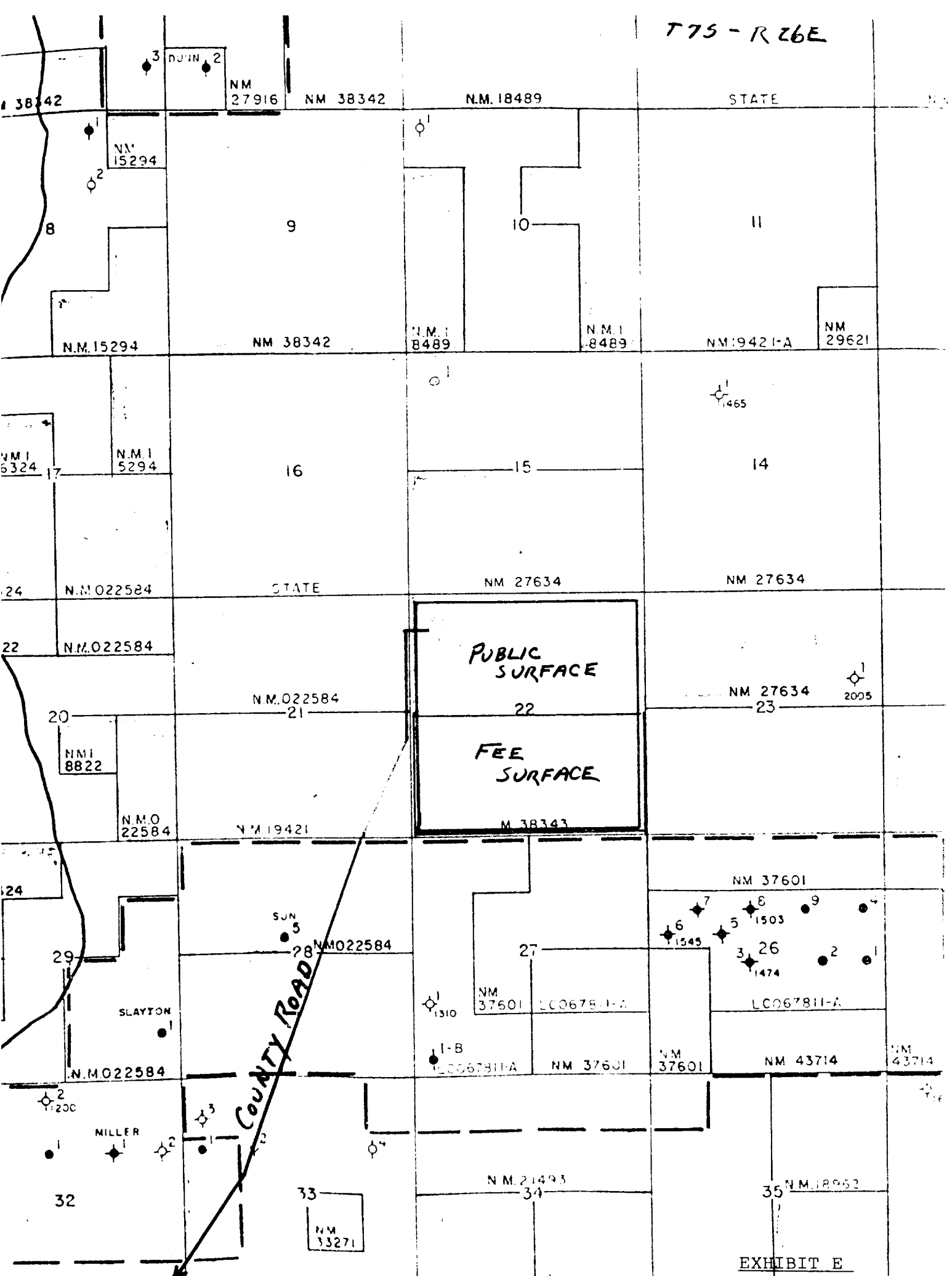


EXHIBIT E