

DEPARTMENT  
BUREAU

APPLICATION FOR

IN TRIPLICATE\*

Instructions on  
reverse side)

FORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL  
WELL ☐

GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

PENWELL ENERGY, INC. (BILL PIERCE) 915-683-2534

3. ADDRESS AND TELEPHONE NO.

600 NORTH MARIENFELD SUITE 1100 MIDLAND, TEXAS 79701

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

At surface

1980' FNL & 1980' FWL SEC. 6 T25S-R33E LEA CO. NM

At proposed prod. zone SAME

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

Approximately 25 miles West of Jal New Mexico

15. DISTANCE FROM PROPOSED\*

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

1980'

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

NA

16. NO. OF ACRES IN LEASE

599

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

19. PROPOSED DEPTH

16,000'

20. ROTARY OR CABLE TOOLS

ROTARY

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

3494' GR.

22. APPROX. DATE WORK WILL START\*

WHEN APPROVED

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	X-56 20"	94	600'	600 Sx. Circulate to surface
17½"	L-80 13 3/8"	72	4700'	2000 Sx. Circulate to surface
12½"	P-110 9 5/8"	53.5	12,500'	1400 Sx. TC 4500'
8½"	P-110 7"	29	15000'-12250'	275 Sx. Overlap liner 250'
6½"	P-110 4½"	13.5	16000-14750'	175 Sx. Overlap liner 250'

1. Drill 26" hole to 600'. Run and set 600' of 20" X-56 94# ST&C casing. Cement with 600 Sx. of Class "C" Cement + 2% CaCl, circulate cement to surface.
2. Drill 17½" hole to 4700'. Run and set 4700' of 13 3/8" L-80 72# butress thread casing. Cement with 1500 Sx. of Class "C" Halco Light, tail in with 500 Sx. of Class "C" + 2% CaCl, circulate cement to surface.
3. Drill 12½" hole to 12500'. Run and set 12500' of 9 5/8" 53.5# P-110 LT&C casing. Cement with 1100 Sx. of Class "H" Halco Light, tail in with 300 Sx. of Class "H" Premium cement + additives, estimate top of cement 4500'.
4. Drill 8½" hole to 15000'. Run and set a 7" 29# P-110 ST&C liner from 15000' to 12250'. Cement with 250 Sx of Class "H" premium cement.
5. Drill 6½" hole to 16000'. Run and set a 4½" 13.5# P-110 ST&C liner. Cement with 175 Sx. of Class "H" Premium cement.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 Port James TITLE Agent

DATE 02/18/98

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

TITLE

DATE

\*See Instructions On Reverse Side

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

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

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised February 10, 1994  
Instruction on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

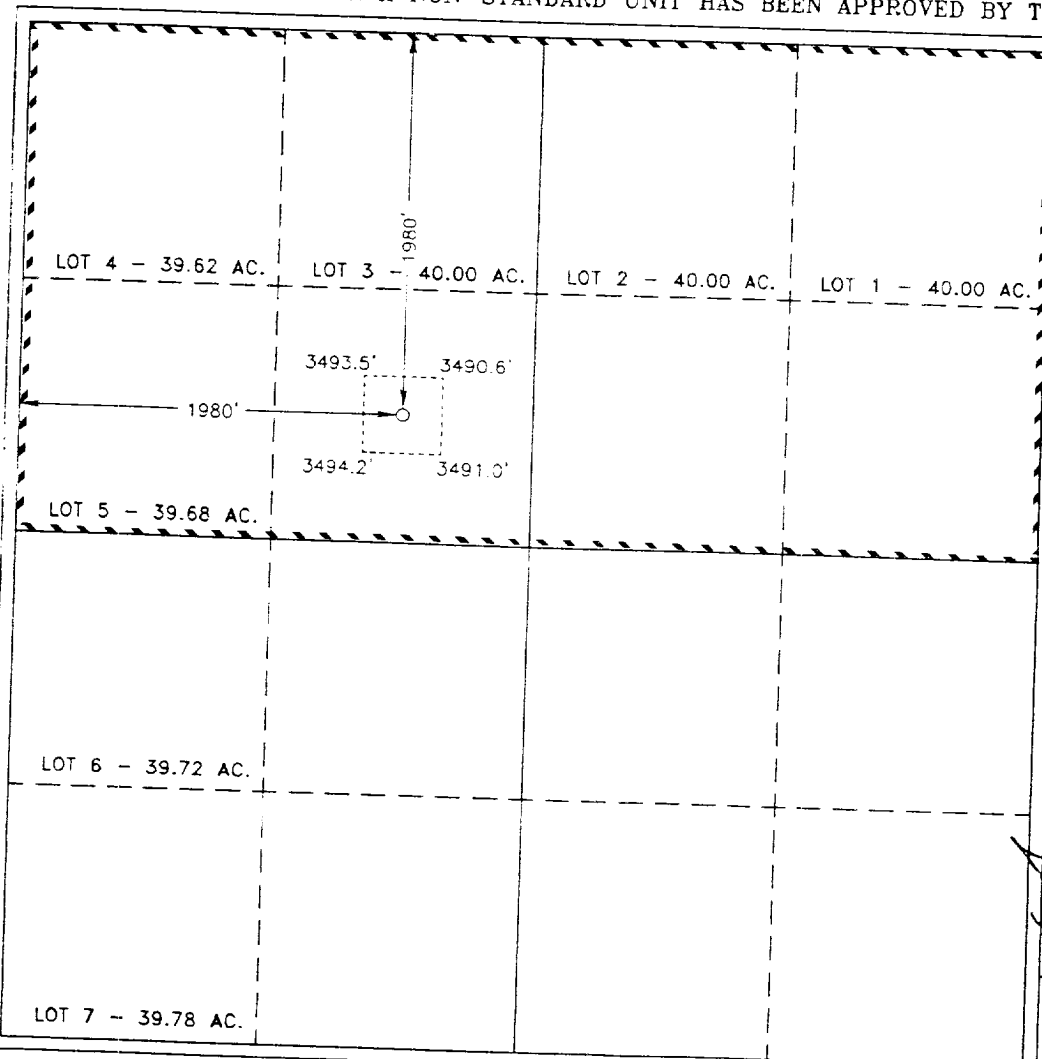
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-025-34350</b>	Pool Code <b>LC</b>	Pool Name <b>WILDCAT-MORROW</b>
Property Code <b>23101</b>	Property Name <b>GILA "6" FEDERAL</b>	Well Number <b>1</b>
OGRID No. <b>147380</b>	Operator Name <b>PENWELL ENERGY INC.</b>	Elevation <b>3494'</b>

Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	6	25 S	33 E		1980	NORTH	1980	WEST	LEA

Bottom Hole Location If Different From Surface									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						
320									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

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

*Joe T. Janica*  
Signature

Joe T. Janica

Printed Name

Agent

Title

02/18/98

Date

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 belief

February 10, 1998

Date Surveyed

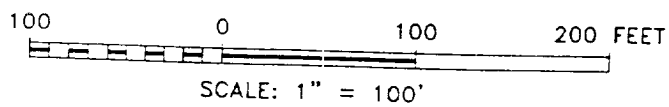
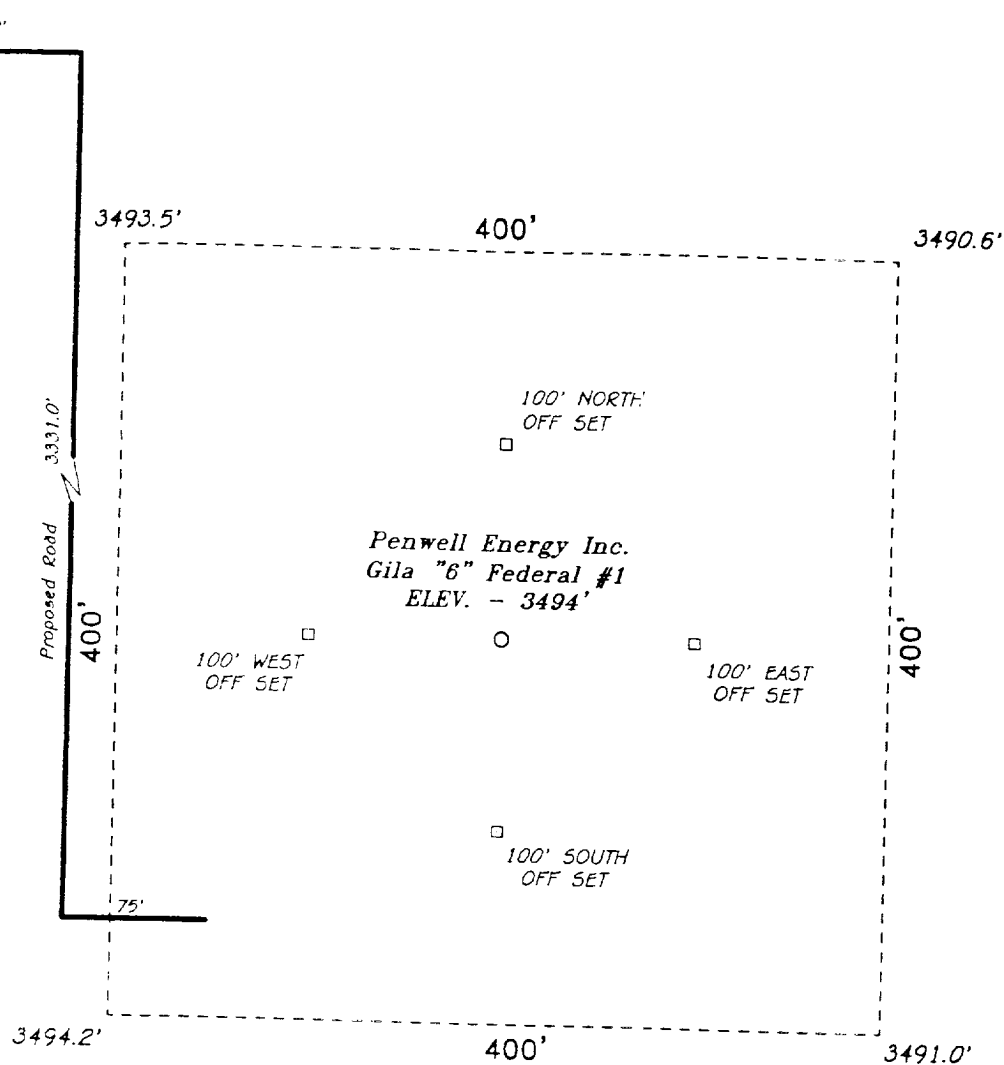
*Gary L. Jones*  
Signature & Seal of  
Professional Surveyor

N.M.O. No. 8039

Certificate No. Gary L. Jones 7977

BASIN SURVEYS

SECTION 6, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,  
LEA COUNTY,  
NEW MEXICO.



**Penwell Energy Inc.**

REF: Gila "6" Federal No. 1 / Well Pad Topo

THE GILA "6" FEDERAL No. 1 LOCATED 1980' FROM THE  
NORTH LINE AND 1980' FROM THE WEST LINE OF  
SECTION 6, TOWNSHIP 25 SOUTH, RANGE 33 EAST,  
N.M.P.M., LEA COUNTY, NEW MEXICO.

**BASIN SURVEYS** P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 8039 Drawn By: K. GOAD

Date: 02-11-98 Disk: KJG #89 - 8039A.DWG

Survey Date: 02-10-98 Sheet 1 of 1 Sheets

# APPLICATION TO DRILL

PENWELL ENERGY, INC.  
GILA "6" FEDERAL # 1  
UNIT "F" SECTION 6  
T25S-R33E LEA CO. NM

In response to questions asked under Section II B of Bulletin NTL-6 the following information is provided for your consideration:

1. Location: 1980' FNL & 1980' FWL SEC. 6 T25S-R33E LEA CO. NM
2. Elevation above sea level: 3494' GR.
3. Geologic name of surface formation: Aeolian Quaternary Deposits
4. Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
5. Proposed drilling depth: 16,000'
6. Estimated tops of geological markers:

Rustler Anhydrite	1175'	Strawn	13800'
Delaware	4960'	Atoka	14075'
Bone Spring	9090'	Morrow	15250'
Wolfcamp	12250'		
7. Possible mineral bearing formation:

Delaware	Oil	Strawn	Gas
Bone Spring	Oil	Atoka	Gas
Wolfcamp	Oil	Morrow	Gas
8. Casing program:

<u>Hole size</u>	<u>Interval</u>	<u>OD casing</u>	<u>Weight</u>	<u>Thread</u>	<u>Collar</u>	<u>Grade</u>
26"	0-600'	20"	94	8-R	ST&C	X-56
17½"	0-4700'	13 3/8"	72	8-R	ST&C	L-80
12¼"	0-12500'	9 5/8"	53.5	8-R	LT&C	P-110
8½"	12,250-15000'	7"	29	8-R	LT&C	P-110
6½"	14,750-16000'	4½"	13.5	8-R	LT&C	P-110

# APPLICATION TO DRILL

PENWELL ENERGY, INC.  
GILA "6" FEDERAL # 1  
UNIT "F" SECTION 6  
T25S-R33E LEA CO. NM

## 9. Cementing and Setting Depth:

20"	Surface	Set 600' of 20" 94# X-56 ST&C casing. Cement with 600 Sx. of Class "C" + 2% CaCl. Circulate cement to surface.
13 3/8"	Intermediate 1st	Set 4700' of 13 3/8" L-80 72# Buttress casing. Cement with 1500 Sx. of Class "C" Halco Light, tail in with 500 Sx. of Class "C" cement + additives. Circulate cement.
9 5/8"	Intermediate 2nd	Set 12500' of 9 5/8" 53.5# P-110 LT&C casing. Cement with 1100 Sx. of Class "H" Halco Light + additives, tail in with 300 Sx. of Class "H" + additives, estimate top of cement 4500'.
7"	1st Production Liner	Set a 2750' 7" 29# P-110 ST&C Liner from 15000-12250'. Cement with 250 Sx. of Class "H" Premium cement + additives.
4 1/2"	2nd Production Liner	Set a 1250' 4 1/2" 13.5# P-110 ST&C Liner from 16000-14750'. Cement with 175 Sx. of Class "H" Premium cement + additives.

10. Pressure Control Equipment: Exhibit "E". A 1500 Series 5000 PSI working pressure B.O.P. consisting of a double ram type preventor with a bag type annular preventor. BOP unit will be hydraulically operated. Exhibit "E-1". Choke manifold and closing unit. BOP will be nipped up on 13 3/8" casing and will be operated at least once each 24 Hr. period while drilling and blind rams will be operated when out of hole during trips. Flow sensor, PVT, full opening stabbing valve and upper kelly cock will be utilized. No abnormal pressure or temperature is expected while drilling.

## 11. Proposed Mud Circulating System:

Depth	Mud Wt.	Visc,	Fluid Loss	Type Mud
0-600-	8.4-8.7	29-34	NC	Fresh water spud mud add paper to control seepage.
600-4700'	10-10.5	29-32	NC	Brine water use paper to control seepage & lime to control pH.
4700-12250'	9-9.6	29-36	NC	Cut brine with a Dris-pac system use paper to control seepage & soda ash for pH control.
12250-15000'	11-13	32-40	10 cc or less	Brine water, Salt water Gel, Soda Ash, Barite, and Starch for water loss control
15000-16000'	10-10.5	28-34	10 cc or less	Brine water Salt water Gel, starch & Soda Ash for pH control.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, unexpected kicks. In order to run DST'S, open hole logs, and casing the viscosity and water loss may have to be adjusted to meet these needs.

APPLICATION TO DRILL

PENWELL ENERGY, INC.  
GILA "6" FEDERAL # 1  
UNIT "F" SECTION 6  
T25S-R33E LEA CO. NM

12. Testing, Logging and Coring Program:
- A. Gamma Ray from TD to surface.
  - B. Dual Laterolog, CNL-LDT, MSFL, Gamma Ray & Caliper from TD. to 13 3/8" casing shoe.
  - C. Mud logger will be placed on hole at 4700' and remain on hole to TD.
  - D. Cores and DST's will be taken as shows dictate.
13. Potential Hazards:
- No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H<sub>2</sub>S detectors will be in place to detect any presence. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP 9000 PSI, estimated BHT 190°.
14. Anticipated Starting Date and Duration of Operation:
- Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 65-80 days. If production casing is run an additional 30 days will be required to complete and construct surface facilities.
15. Other Facets of Operations:
- After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The Morrow pay will be perforated and stimulated. The well will be swab tested and potentialized as a gas well.

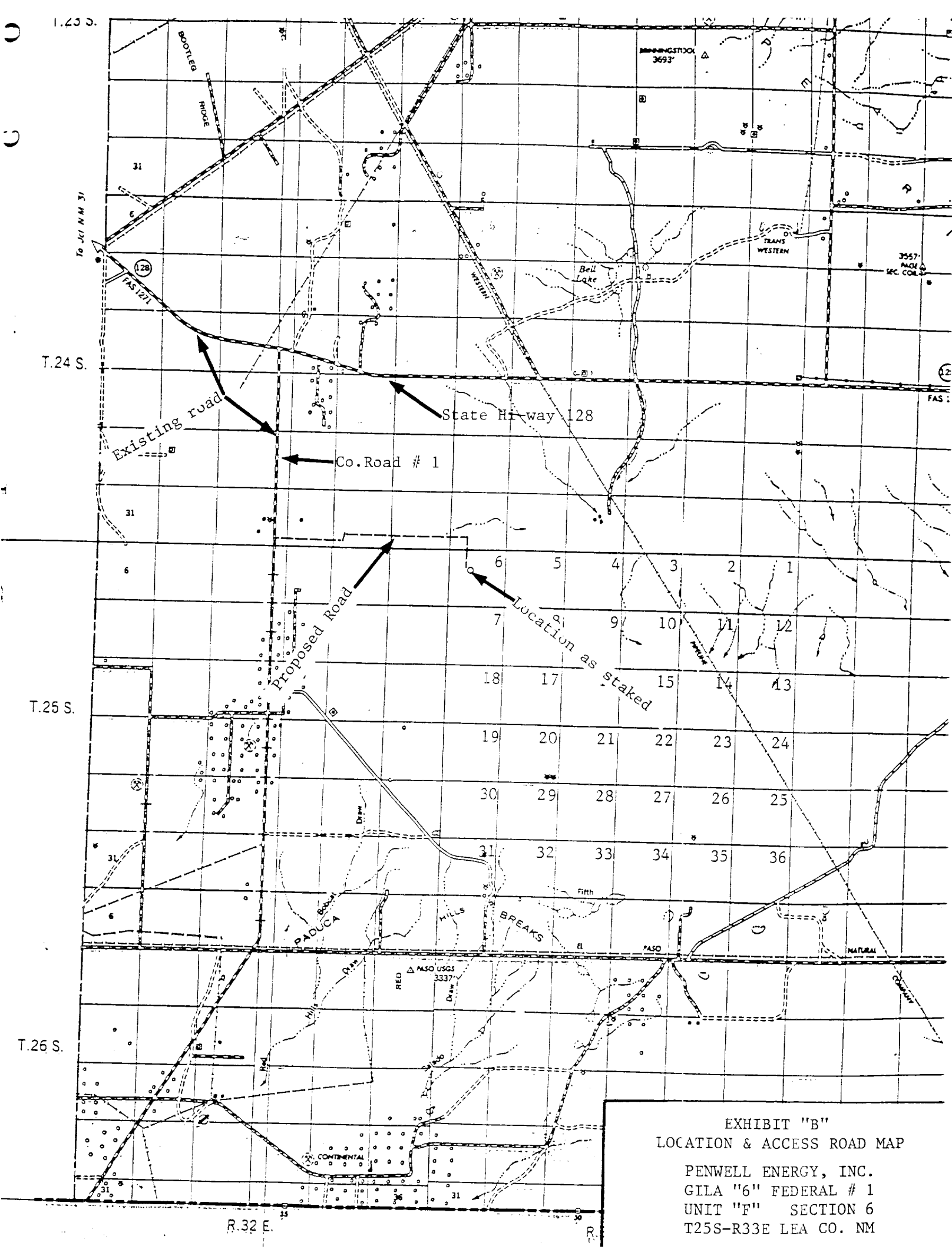
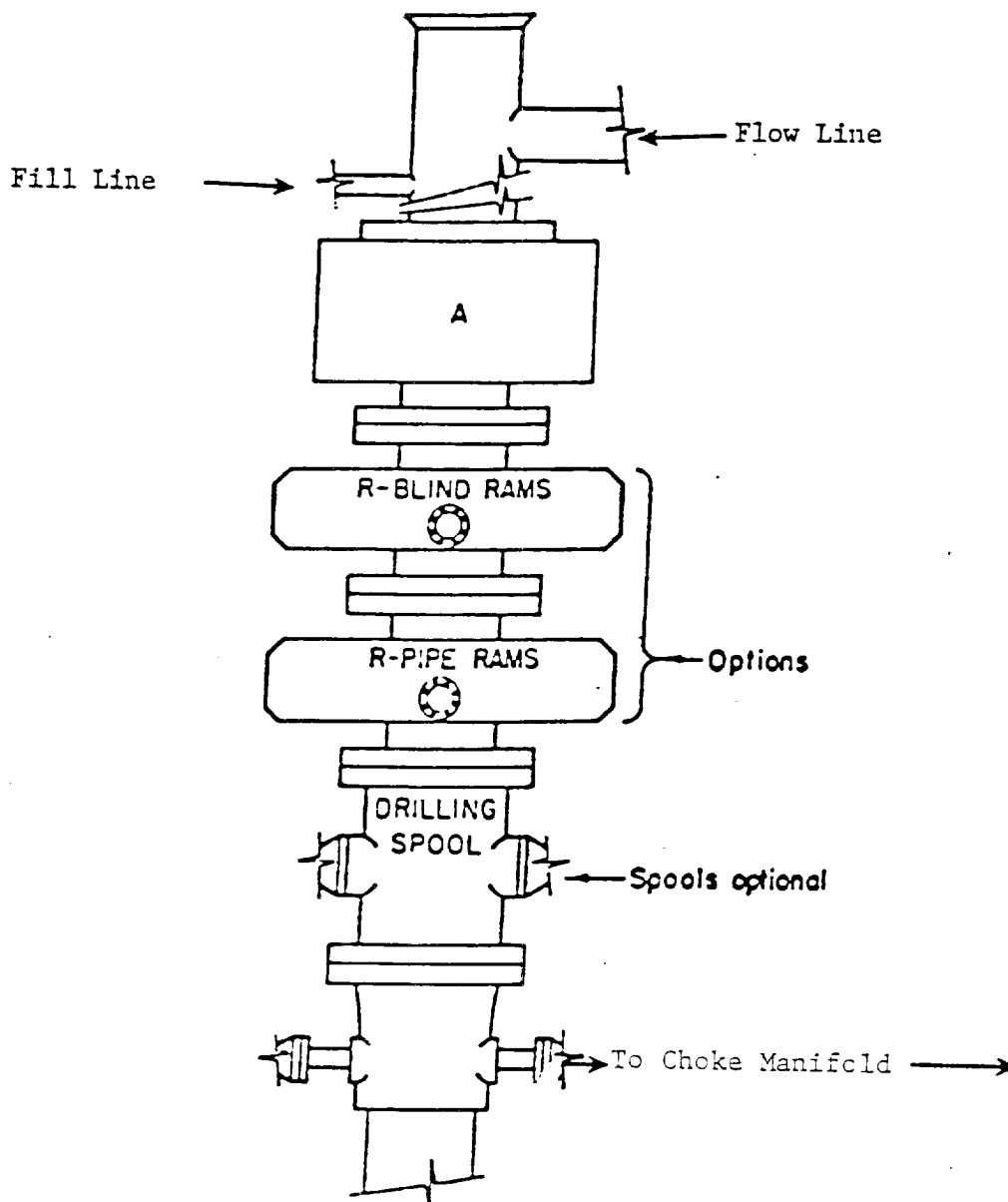


EXHIBIT "B"  
LOCATION & ACCESS ROAD MAP

PENWELL ENERGY, INC.  
GILA "6" FEDERAL # 1  
UNIT "F" SECTION 6  
T25S-R33E LEA CO. NM



# **ARRANGEMENT SRRA**

1500 Series  
5000# Working Pressure

EXHIBIT "E"  
B.O.P. SKETCH TO BE USED ON  
PENWELL ENERGY, INC.  
GILA "6" FEDERAL # 1  
UNIT "F" SECTION 6  
T25S-R33E LEA CO. NM