

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
Pioneer Production Corp.

3. ADDRESS OF OPERATOR
Box 208, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface 1840' FNL - 1830' FWL
F At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
2 miles northwest of Bloomfield

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any) 1830'

16. NO. OF ACRES IN LEASE
689.93

17. NO. OF ACRES ASSIGNED
TO THIS WELL 220 w/305.76

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

19. PROPOSED DEPTH
6560

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5714' GL

22. APPROX. DATE WORK WILL START*
Dec. 15, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

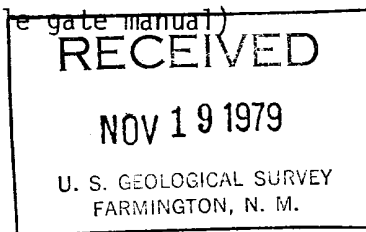
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	200'	125 sx
7-7/8"	4-1/2"	10.5#	6560'	350 sx 1st stage 570 sx 2nd stage

Plan to drill with mud to test Basin Dakota Formation. Plan to run IES log to TD.
If productive, will set 4-1/2" casing, cement in two stages, selectively perforate,
frac, clean out after frac, run 1-1/2" tbg and complete well.

Plan to use BOP furnished by rig while drilling (10" 3000 psi hydraulic)

Plan to use BOP rental while completing (6" 3000 psi double gate manual)

NMERB: Gas dedicated to El Paso Natural Gas Company



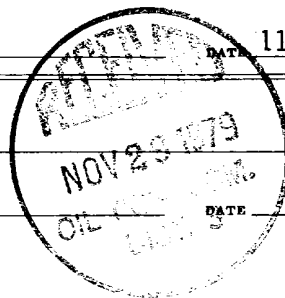
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Jim L. Jacobs TITLE Agent DATE 11-16-79
(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:

NMOCC



NW4 370

ok Frank

*See Instructions On Reverse Side

ADDITIONAL WELL NEEDED PURSUANT TO NEW MEXICO ORDER R-1670-V,
U.S.G.S. RATIFICATION DATED JUNE 8, 1979.

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-104
Supersedes C-128
Effective 1-1-65

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

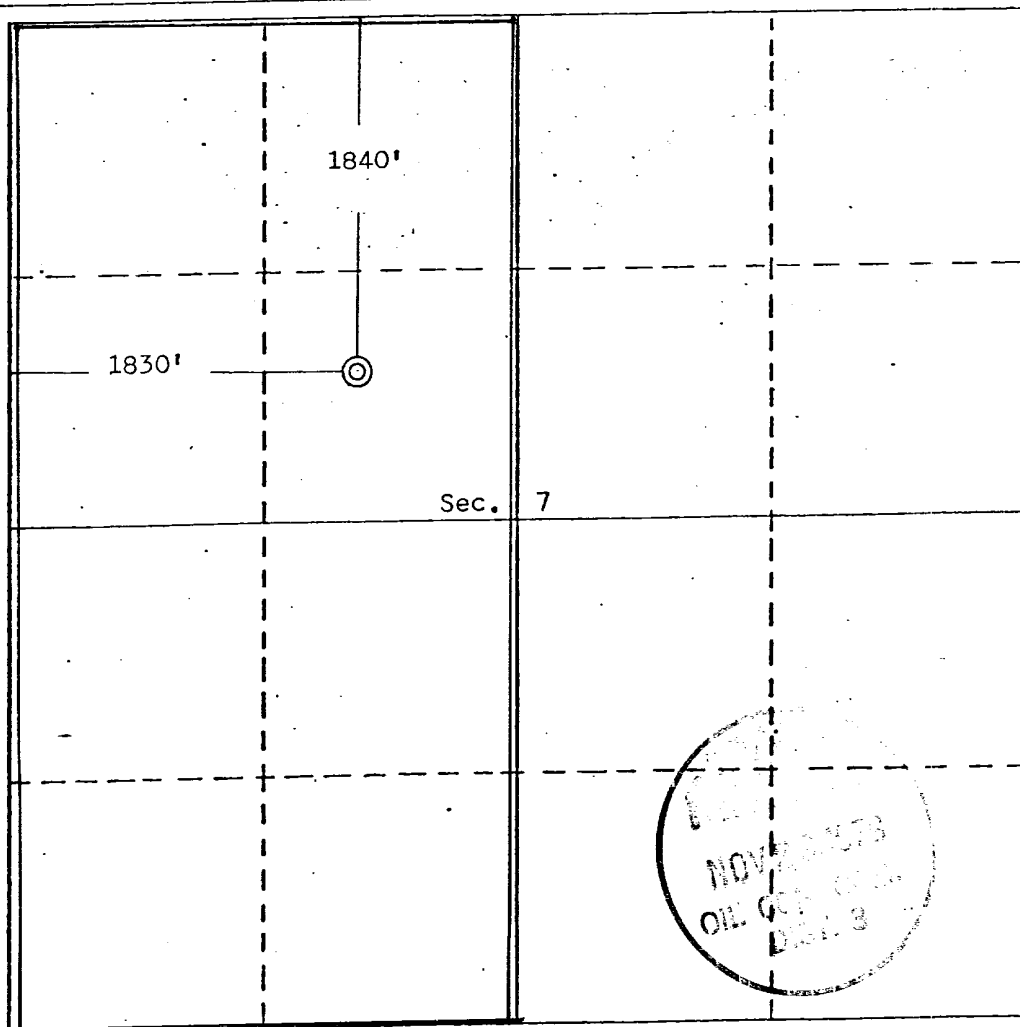
Operator Pioneer Production Corporation			Lease Cooper		Well No. 1E
Unit Letter F	Section 7	Township 29 North	Range 11 West	County San Juan	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> 1840 feet from the North line and 1830 feet from the West line </div>					
Ground Level Elev. 5714	Producing Formation Dakota	Pool Basin	Dedicated Acreage: 305.76 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.

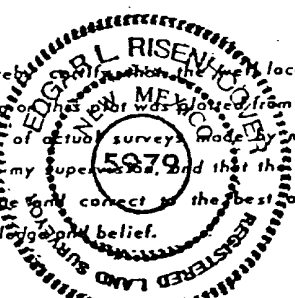
Jim L. Jacobs
Name
Jim L. Jacobs

Position
Agent

Company
Pioneer Production Corp.

Date
11-16-79

I hereby certify that the location shown on this plat was determined from field notes of actual survey 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
November 7, 1979

Registered Professional Engineer and/or Land Surveyor

Edgar L. Risenhoover
Certificate No. **5979**

Edgar L. Risenhoover, L.S.

OPERATIONS PLAN

OPERATOR: Pioneer Production Corp.
WELL NAME: Cooper #1E
FIELD: Basin Dakota
LOCATION: 1840' FNL - 1830' FWL Sec 7 T29N R11W San Juan County, NM
ELEVATION: 5714' GR

EXPECTED FORMATION TOPS:	Ojo Alamo	570'	Point Lookout	4210'
	Kirtland	720'	Mancos	4460'
	Fruitland	760'	Gallup	5478'
	Pictured Cliffs	1869'	Greenhorn	6235'
	Lewis	1942'	Graneros	6280'
	Cliff House	3469'	Dakota	6414'
	Menefee	3605'	Total Depth	6560'

LOGGING PROGRAM: IES

SAMPLES: Catch samples at 10' intervals beginning at 6400'

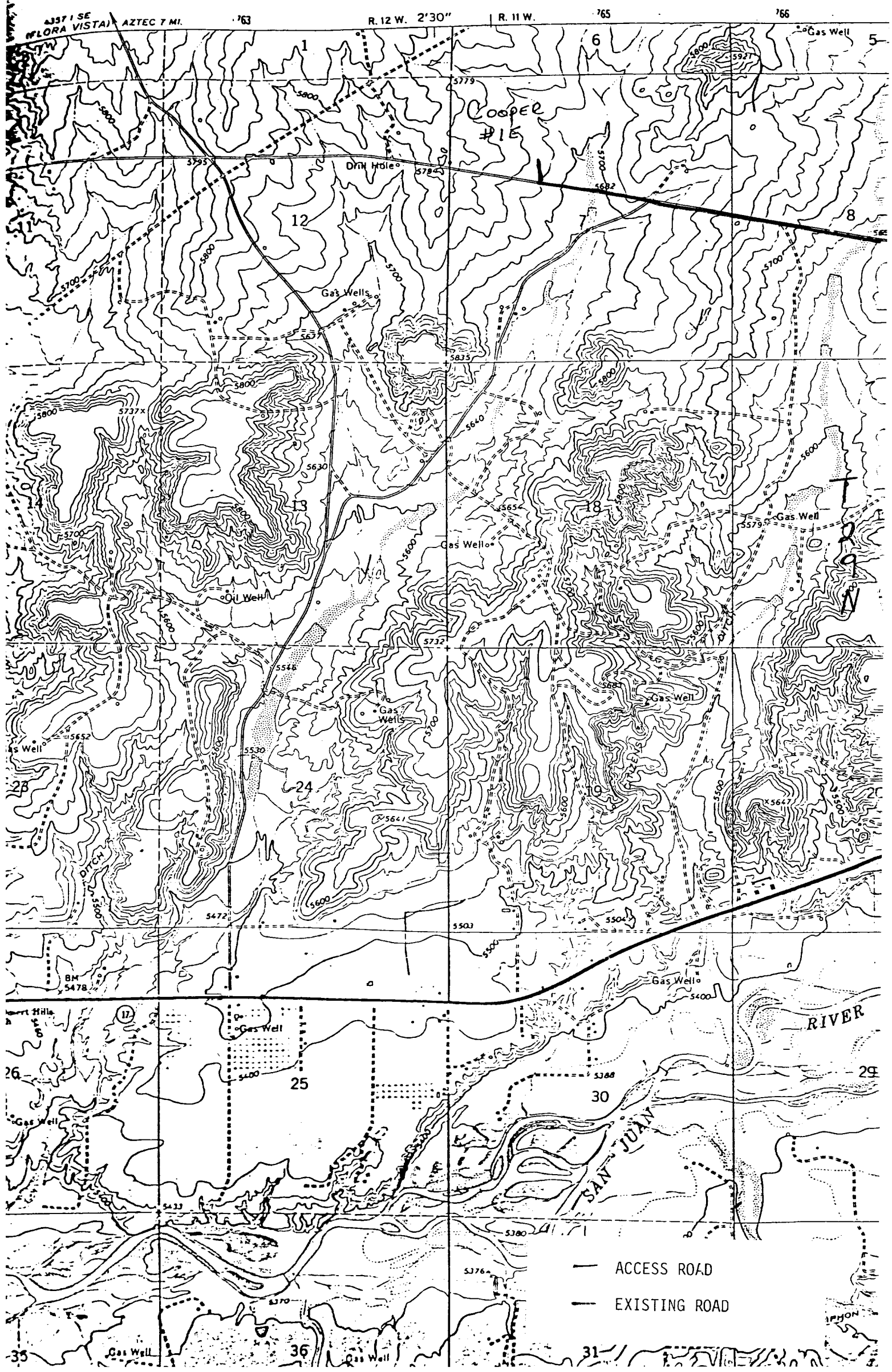
CASING PROGRAM

<u>Hole Size</u>	<u>Depth</u>	<u>Csg Size, Wt, Grade, & Condition</u>	<u>Cementing Program</u>
12-1/4"	200'	8-5/8" 24# J-55 New	Cement surface w/125 sx class "B" neat w/2% CaCl
7-7/8"	6560'	4-1/2" 10.5# K-55 New	1st stage: Cement w/200 sx of 65-35 plus 12% gel and 150 sx class "B" neat w/1/4# flocele per sx. Total slurry 650 cu ft 2nd stage: Cement through stage tool at 4250' w/480 sx 65-35 plus 12% gel and 90 sx of 4% gel. Total slurry 1385 cu ft TOTAL SLURRY: 2035 cu ft

WELLHEAD EQUIPMENT

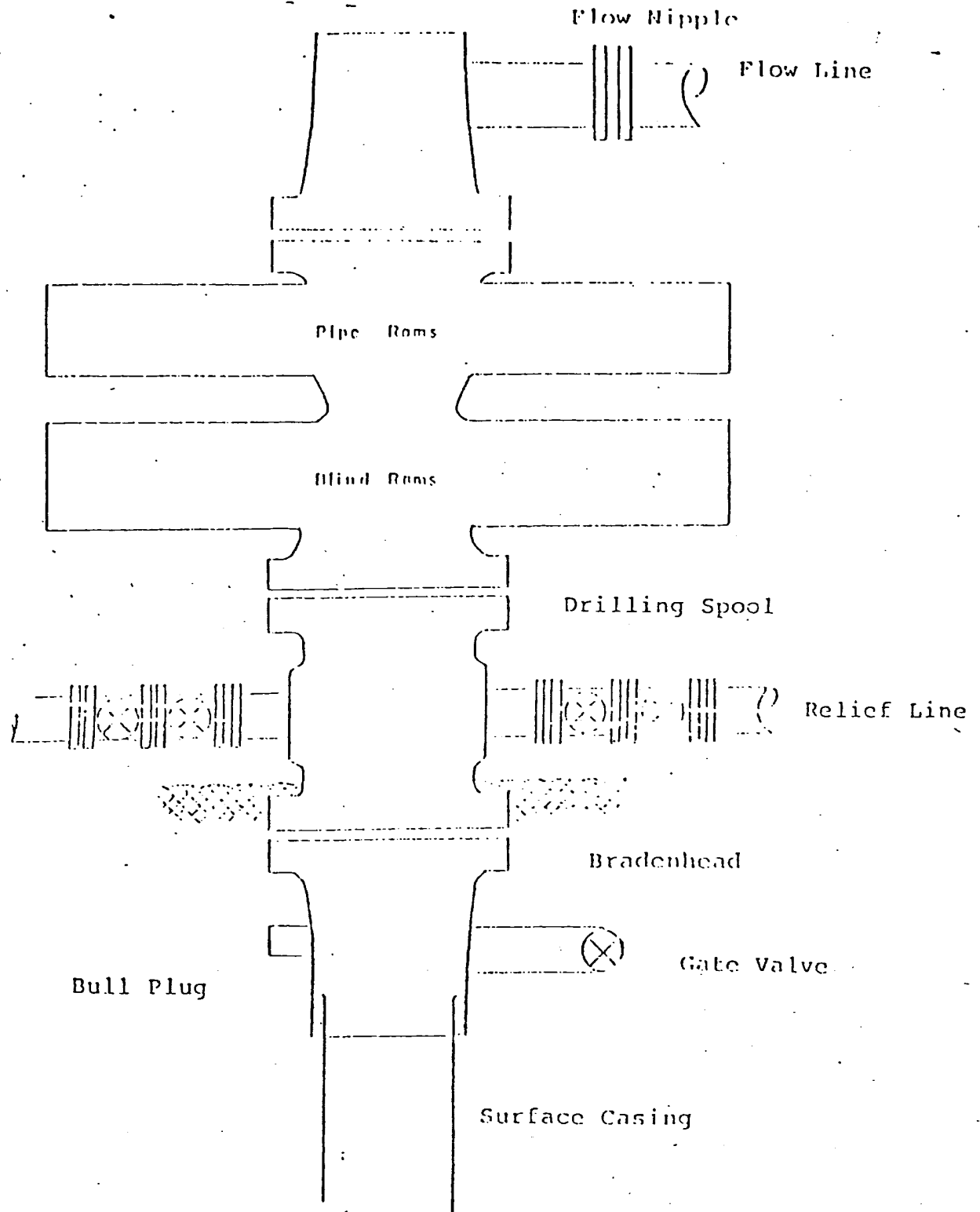
8-5/8" x 10" 600 series bradenhead
10" 600 x 6" 600 series Christmas tree

Office	-	325-0238
Tom Dugan		325-5694
Jim Jacobs		325-8353
Kurt Fagrelus		334-3381
Bill Donovan		325-5692
James Hazen		



TYPICAL BOP INSTALLATION

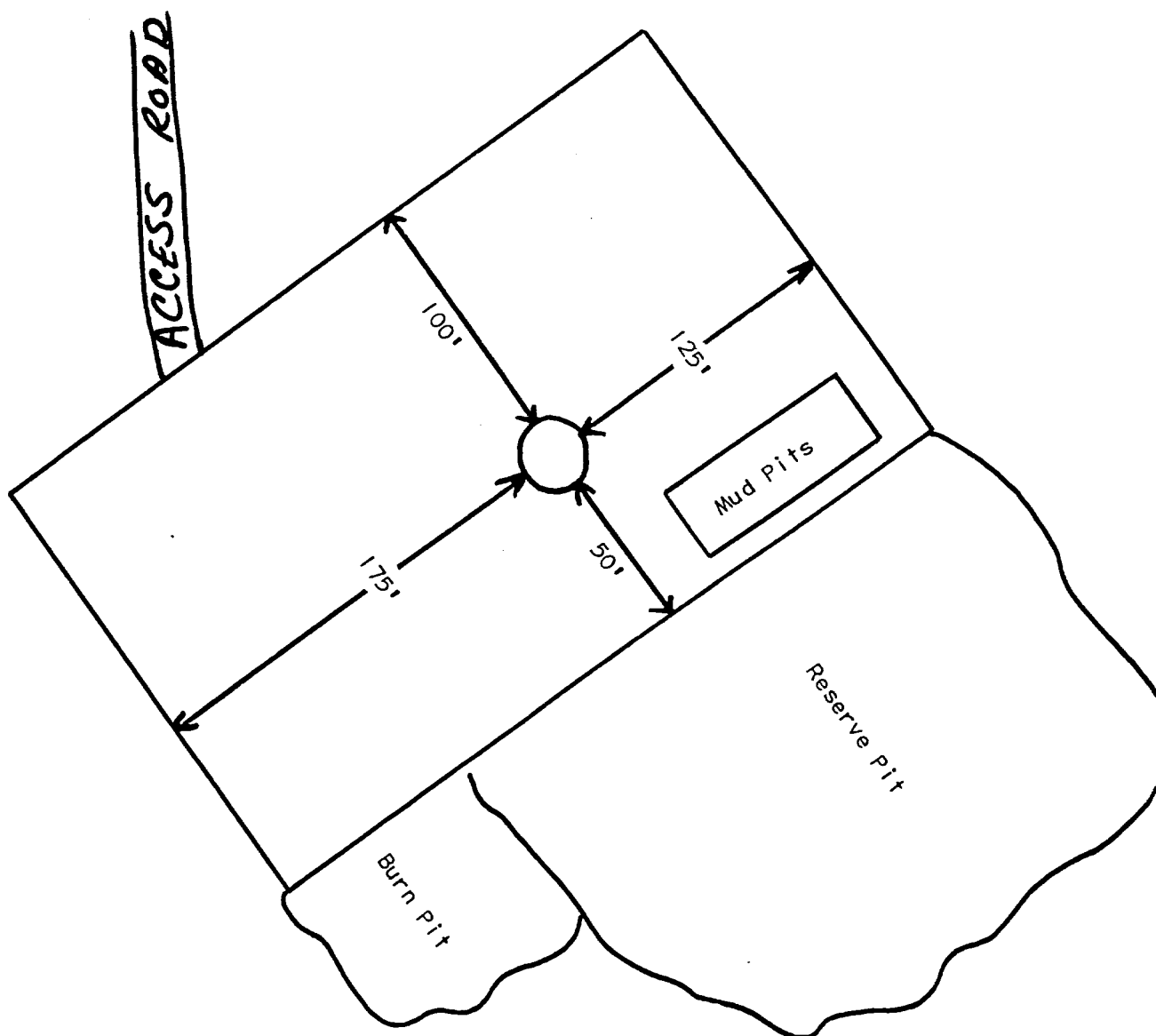
FOR DAKOTA WELL



Series 900 Double Gate BOP, rated
at 3000 psi Working Pressure

When gas drilling operations begin a Shaffer type
50 or equivalent rotating head is installed on top of
the flow nipple and the flow line is converted into
a blowie line.

Pioneer Production Corp.
Cooper #1E
PROPOSED LOCATION LAYOUT



DEVELOPMENT PLAN

Pioneer Production Corp.

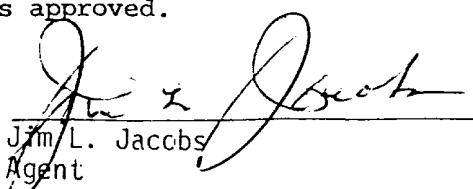
Cooper #1F

1. Existing roads and existing wells are shown on attached plat.
2. Planned access from existing road approximately 300' to new location. Will leave natural grass and small vegetation on roadway. Will remove large brush or trees from road. Do not plan to make road grade or bar ditches. Will bottom-out any arroyo we cross and not install culverts.
3. Location of well: 1840' FNL - 1830' FWL
Sec 7 T29N R11W
San Juan County, NM
4. No additional well(s) planned on this lease at this time.
5. Separator and flow line will be located within 50' of wellhead.
6. Water will be secured from San Juan River.
7. Waste materials will be buried on location or in reserve pit.
8. No permanent camp is planned; trailer house will be used on location while drilling.
9. Do not plan to build airstrip.
10. See attached plat for proposed location layout.
11. A general description of the topography, soil characteristics, geologic features, flora and fauna; other surface-use activities and surface ownership of involved lands, proximity of water, occupied dwellings, archeological, historical or cultural sites can be found in the archeologist's report.
12. Geologic name of surface formation: Undifferentiated Tertiary
13. Estimated tops of important geologic markers:

See Operations Plan
14. Estimated depths of anticipated water, oil, gas, or other mineral bearing formations which are expected to be encountered; water - Ojo Alamo - 570'
gas - Fruitland 760', PC 1869', Pt. Lookout 4210', GA - 5478', DK - 6414'
15. We do not anticipate to encounter any abnormal pressures or temperatures or any potential hazards such as those associated with hydrogen sulfide.
16. Will clean up location, fill and level pits, level ruts in road, reseed location and road with Seed Mixture #2 and paint equipment with _____.
17. Operator's Representative:
Jim L. Jacobs
Box 208
Farmington, NM 87401
18. Certification: The following statement must be signed by the lessee's or operator's field representative who is identified in Item #17 of the Plan:

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 Pioneer Production Corp. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Date: 11-16-79


Jim L. Jacobs
Agent