

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐
SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 850' FSL and 1710' FEL, Section 2
At proposed prod. zone Same

5. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
9.1 Miles Southeast of Bloomfield, New Mexico

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest oil unit line, if any)
850'
16. NO. OF ACRES IN LEASE
2522.06
17. NO. OF ACRES ASSIGNED
TO THIS WELL
5/320
18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING COMPLETED,
OR APPLYING FOR, ON THIS LEASE, FT.
2050'
19. PROPOSED DEPTH
6536'
20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DT, RT, GR, etc.)
5962' BL

5. LEASE DESIGNATION AND SERIAL NO.

SF-046563

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

FRED FEASEL "G"

9. WELL NO.

11E

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

SW/4 SE/4 Section 2

T27N, R10W

12. COUNTY OR PARISH

San Juan

13. STATE
New Mexico

22. APPROX. DATE WORK WILL START*

As soon as permitted

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" (New)	24# K-55	300'	300 sx Class B x 2% CaCl2-Circ
7-7/8"	4-1/2" (New)	10.5# K-55	6536'	1st Stage- 370 sx CL B 50:50 Poz 2nd Stage- 930 sx x 6% gel, 2# med tuf plug/sx, .8% FLA x 100 sx CI B Neat (Tail in) Circ

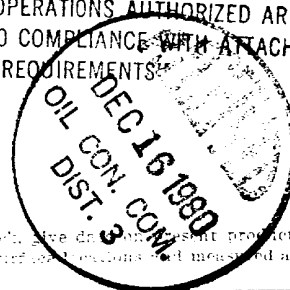
This application to drill an infill Basin Dakota is pursuant to Order No. R-1670-V approved by the NMOCB on May 22, 1979. This well will qualify under Section 103 of the Natural Gas Policy Act under Order No. R-1670-V.

DV Tool set at 4540'

The gas from this well is dedicated to Southern Union Gas Company.

This action is subject to administrative appeal pursuant to 30 CFR 290.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"



ON ABOVE SPACE SHOW PROPOSED PROGRAM: If proposal is to deepen or plug back, give description of 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 or venter pressure, if any.

24. District Engineer, November 12, 1980

(This space for use of State or local office.)

APPROVED
AS AMENDED

DEC 15 1980
for JAMES F. SIMS
DISTRICT ENGINEER

NMOCC

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

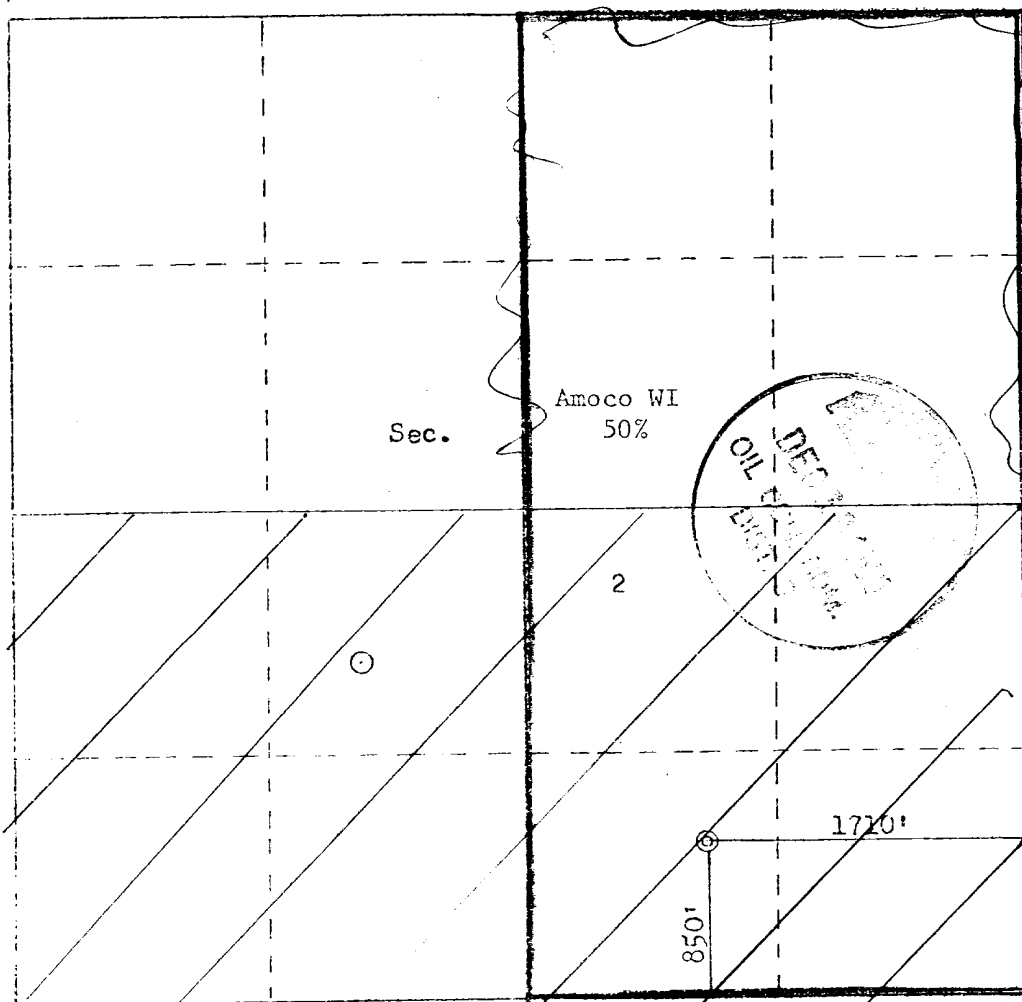
Operator AMOCO PRODUCTION COMPANY			Lease FRED FEASEL "G"		Well No. 1E
Unit Letter 0	Section 2	Township 27N	Range 10W	County San Juan	
Actual Footage Location of Well: 850 feet from the South line and 1710 feet from the East line					
Ground Level Elev. 5962	Producing Formation Dakota	Pool Basin Dakota		Dedicated Acreage: 320 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).
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 Communitization

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.



Scale: 1"=1000'

CERTIFICATION

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

W. L. Peterson
Name
W. L. Peterson
Position
District Engineer
Company
Amoco Production Company
Date
9-23-80

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
September 15, 1980
Registered Professional Engineer and Land Surveyor
Fred B. Kerr Jr.
Certificate No.
3950

SUPPLEMENTAL INFORMATION TO FORM 9-331C
FRED FEASEL "G" NO. 1E
850' FSL & 1710' FEL, SECTION 2, T27N, R10W
SAN JUAN COUNTY, NEW MEXICO

The geologic name of the surface formation is the Tertiary Nacimiento.

Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Ojo Alamo	798 '	5177 '
Kirtland	1097 '	4878 '
Fruitland	1646 '	4329 '
Pictured Cliffs	1900 '	4075 '
Chacra (if present)	'	'
Mesaverde	Cliff House 3467 '	2508 '
	Point Lookout 4207 '	1768 '
Gallup	5402 '	573 '
Dakota	6259 '	- 284'
TD	6536 '	- 561'

Estimated KB elevation: 5975 '

Drilling fluid to TD will be a fresh water, low solids non-dispersed mud system. Open hole logging program will include logs from TD to below surface casing:

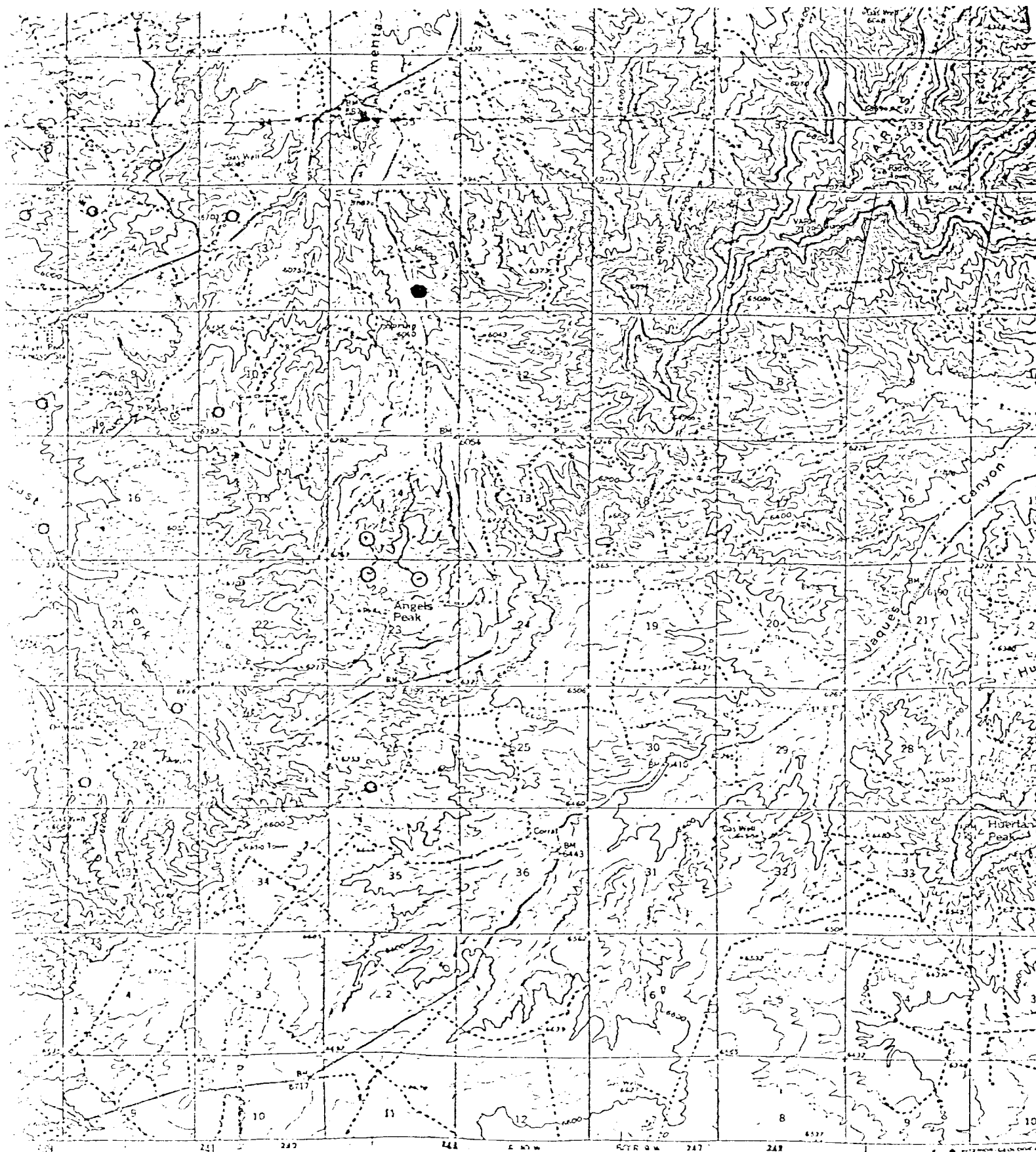
SP-Dual Induction-GR
FDC-CNL-GR

Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 3 weeks.

Arco's standard blowout prevention will be employed (see attached drawing).

To the best of our knowledge, drilling in this area has shown that no abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.



Vicinity Map for
 AMOCO PRODUCTION CO. #1E FRED FEASEL "G"
 850' FSL 1710' FEL Sec. 2-T27N-R10W
 SAN JUAN COUNTY, NEW MEXICO

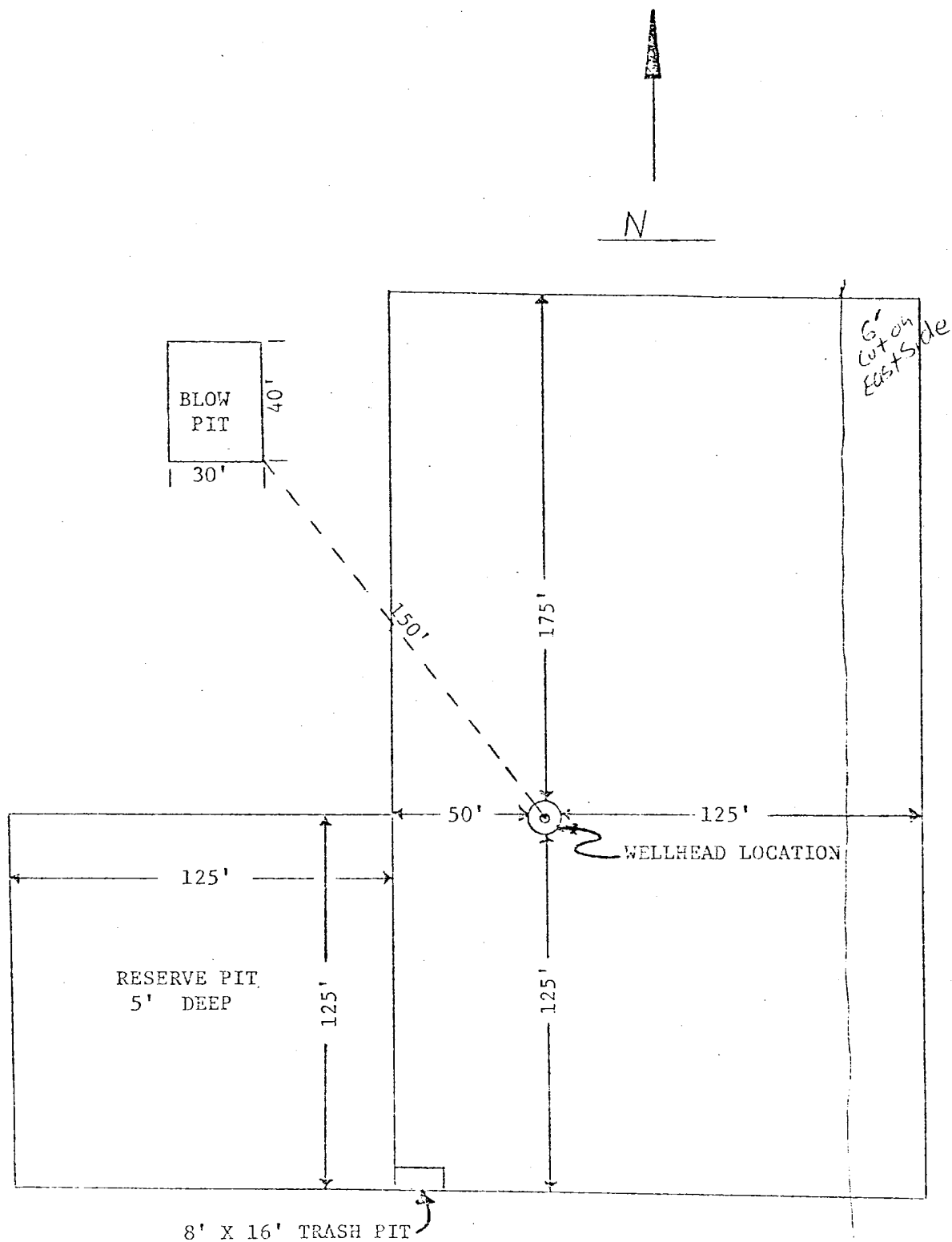


REAL
 Medium duty
 Unimproved

Flow



ROADS

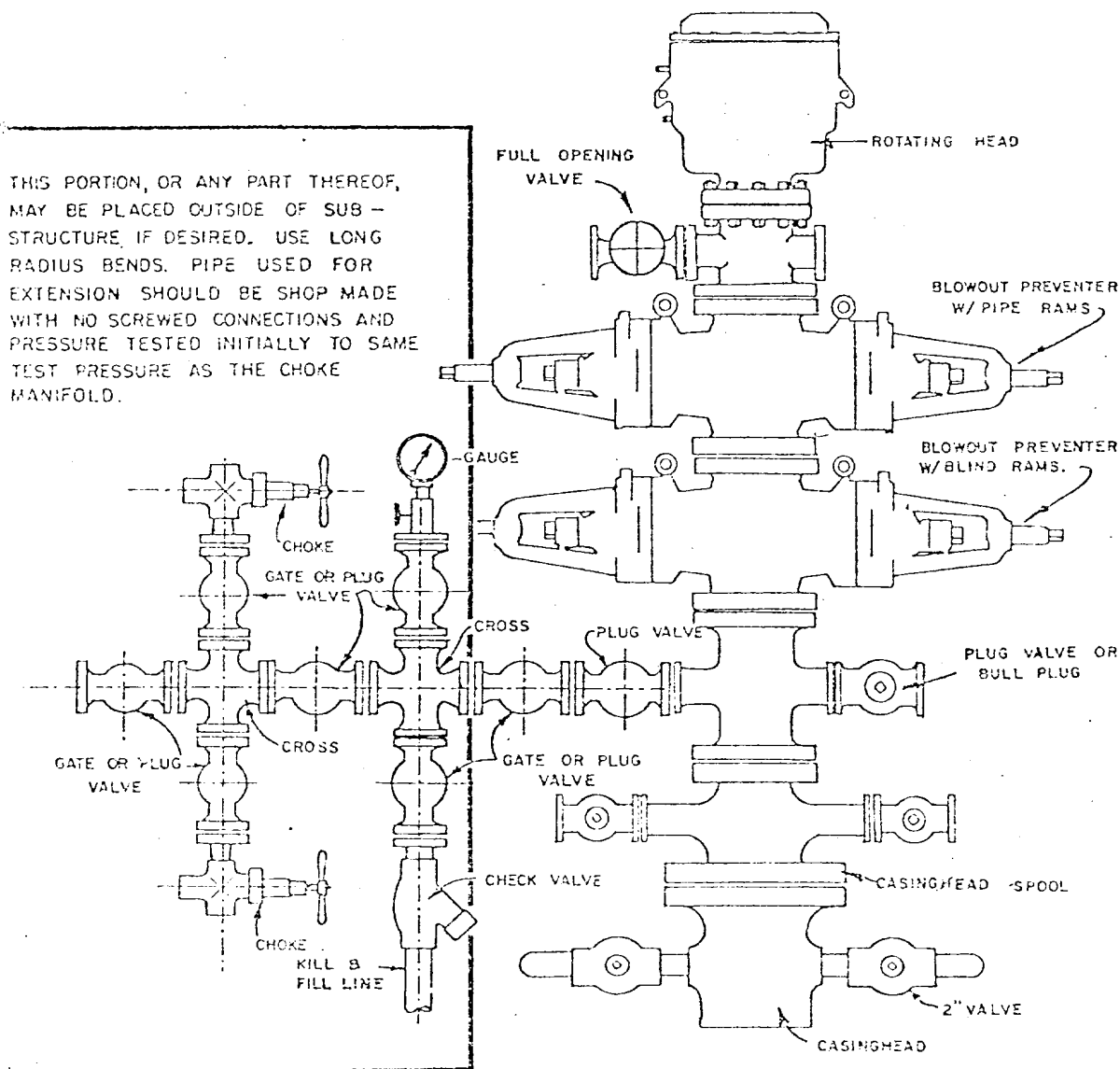


APPROXIMATELY 1.2 ACRES

Amoco Production Company	SCALE 1" = 50'
DRILLING LOCATION SPECIFICATIONS	
Fred Feasel 6 No 1E	DRG. NO.

1. Blowout Preventers and Master Valve to be fluid operated, and all fittings must be in good condition.
2. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
3. Nipple above Blowout Preventer shall be same size or larger than BOP being drilled through.
4. All fittings to be flanged.
5. Omsco or comparable safety valve must be available on rig floor at all times with proper connection or sub. The I.D. of safety valve should be as great as I.D. of tool joints of drill pipe, or at least as great as I.D. of drill collars.

THIS PORTION, OR ANY PART THEREOF, MAY BE PLACED OUTSIDE OF SUB-STRUCTURE IF DESIRED. USE LONG RADIUS BENDS. PIPE USED FOR EXTENSION SHOULD BE SHOP MADE WITH NO SCREWED CONNECTIONS AND PRESSURE TESTED INITIALLY TO SAME TEST PRESSURE AS THE CHOKE MANIFOLD.



BLOWOUT PREVENTER HOOKUP

API Series # 900

EXHIBIT D-4

OCTOBER 16, 1969

Operation of BOP by closing both pipe and blind rams will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.

MULTI-POINT SURFACE USE PLAN

FRED FEASEL "G" NO. 1E

850' FSL & 1710' FEL, Section 2, T27N, R10W

San Juan County, New Mexico

1. The attached topographic map shows the proposed route to the location.
2. It will not be necessary to build any access road.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
4. There is a 380-barrel tank and facilities located at Fred Feasel "G" No. 1 (K-2-27-10).
5. Water will be hauled from the San Juan River.
6. No construction materials will be hauled in for this location.
7. A 125' by 125' pit will be built on location to hold all drilling waste. Upon completion of the well, pit will be fenced and waste and liquids left to dry, then pit will be filled and leveled. If any liquids remain, they will be hauled away prior to back filling.
8. There are neither airstrips nor camps in the vicinity.
9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet. A 6-foot cut will be made on the east side.
10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Reseeding of the site will be carried out as instructed by the Bureau of Land Management.
11. The general topography is a sloping terrain with a sandy loam soil. Vegetation consists of sage, Juniper and native grasses.

Representatives of the U. S. Geological Survey's Farmington Office and the Bureau of Land Management inspected the site with Amoco Personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

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 AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date 11/12/80

R. W. Schroeder
R. W. Schroeder, District Superintendent