

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-645-24185

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

2. TYPE OF WELL
 OIL WELL GAS WELL OTHER INFILL SINGLE ZONE MULTIPLE ZONE

3. NAME OF OPERATOR
 AMOCO PRODUCTION COMPANY

4. ADDRESS OF OPERATOR
 501 Airport Drive, Farmington, New Mexico 87401

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 810' FSL and 1760' FEL, Section 34, T28N, R10W
 At proposed prod. zone
 Same

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 8 miles Southeast of Bloomfield, New Mexico

7. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)
 810'

8. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 2665'

9. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6007' GL

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 "J"

9. WELL NO.
 IE

10. FIELD AND POOL, OR WILDCAT
 Basin Dakota

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
 SW/4, SE/4, Section 34, T28N, R10W

12. COUNTY OR PARISH
 San Juan

13. STATE
 New Mexico

14. NO. OF ACRES IN LEASE
 2522.06

15. NO. OF ACRES ASSIGNED TO THIS WELL
 320

16. PROPOSED DEPTH
 6687'

17. ROTARY OR CABLE TOOLS
 Rotary

18. APPROX. DATE WORK WILL START*
 As soon as permitted

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" w/2% CaCl2-circ
7-7/8"	4-1/2" (New)	10.5# K-55	6687'	1st Stage- 370 sx } Class "B" 50:50 POZ 2nd Stage-1170 sx } 6% gel, .8% FLA, 2# med tuf plug/sx. Tail in w/100 sx Class B Neat-circ.

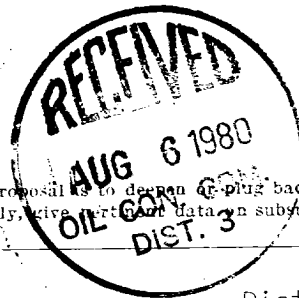
This application to drill an Infill Basin Dakota well is pursuant to Order No. R-1670-V approved by the NMOCOD on May 22, 1979. This well will qualify under Section 103 of the Natural Gas Policy Act under Order No. R-1670-V.

DV tool set at 4900'.

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

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

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



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.

SIGNED: AS AMENDED TITLE: District Engineer DATE: June 14, 1980

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY: [Signature] TITLE: _____ DATE: _____

CONDITIONS OF APPROVAL, IF ANY:
 DISTRICT ENGINEER

ak 3/8

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

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

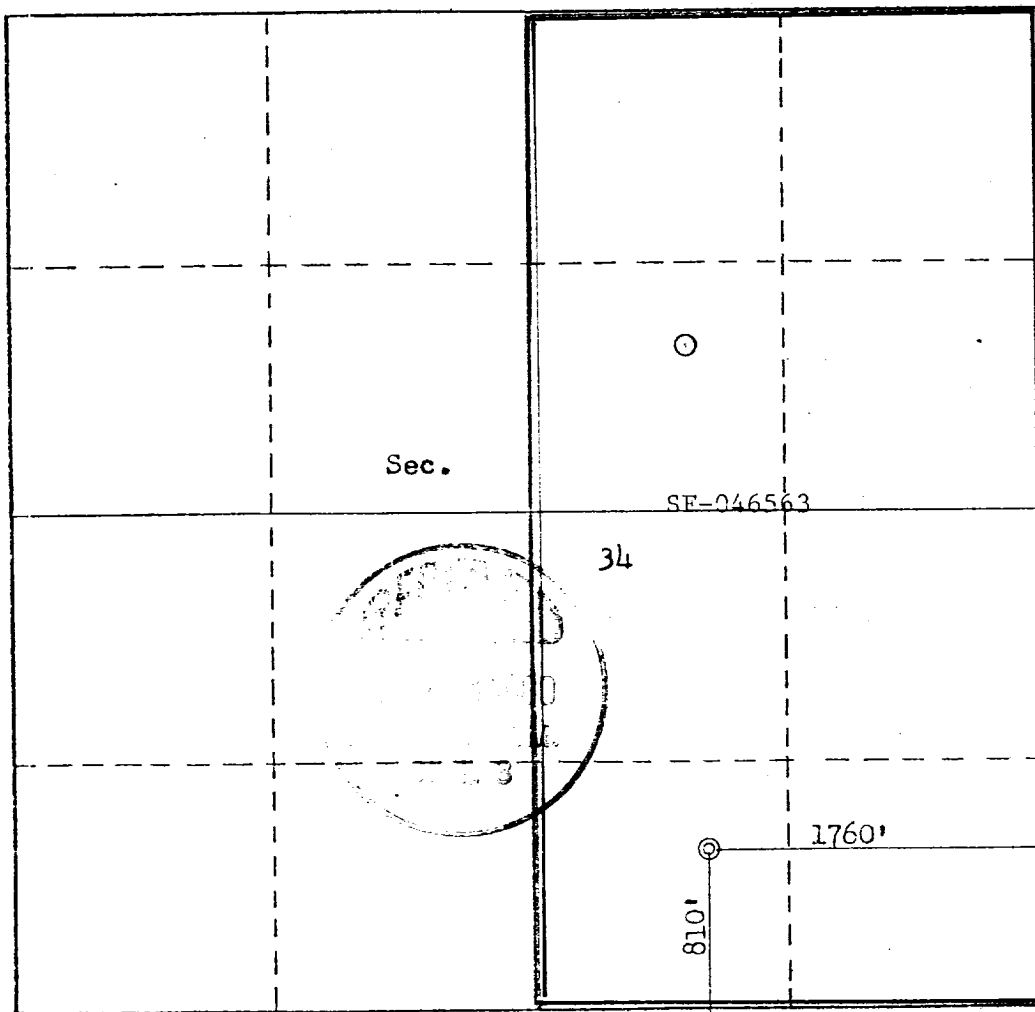
Operator AMOCO PRODUCTION COMPANY			Lease FRED FEASEL "J"		Well No. LE
Unit Letter 0	Section 34	Township 28N	Range 10W	County San Juan	
Actual Footage Location of Well: 810 feet from the South line and 1760 feet from the East line					
Ground Level Elev. 6007	Producing Formation Dakota		Pool Basin Dakota		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 Operating Agreements

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

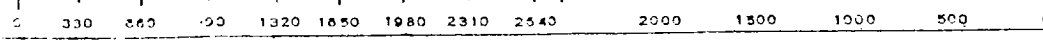
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

B.E. Fackrell

Name B.E. FACKRELL
Position DISTRICT ENGINEER
Company AMOCO PRODUCTION COMPANY
Date MAY 7, 1980

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 - May 5, 1980
Registered Professional Engineer and/or Land Surveyor <i>Fred B. Kerr Jr.</i> Fred B. Kerr Jr.
Certificate No. 3950



SUPPLEMENTAL INFORMATION TO FORM 9-331C

FRED FEASEL "J" NO. 1E
 810' FSL & 1760' FEL, SECTION 34, T28N, 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	887'	+5133'	
Kirtland	1077'	+4943'	
Fruitland	1742'	+4278'	
Pictured Cliffs	1982'	+4038'	
Chacra (if present)	'	'	
Mesaverde	Cliff House	3557'	+2463'
	Point Lookout	4295'	+1725'
Gallup	5527'	+ 493'	
Dakota	6397'	- 377'	
TD	6687'	- 667'	

Estimated KB elevation: 6020'

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:

Induction-SP-GR
 Compensated Neutron-Formation Density-GR

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

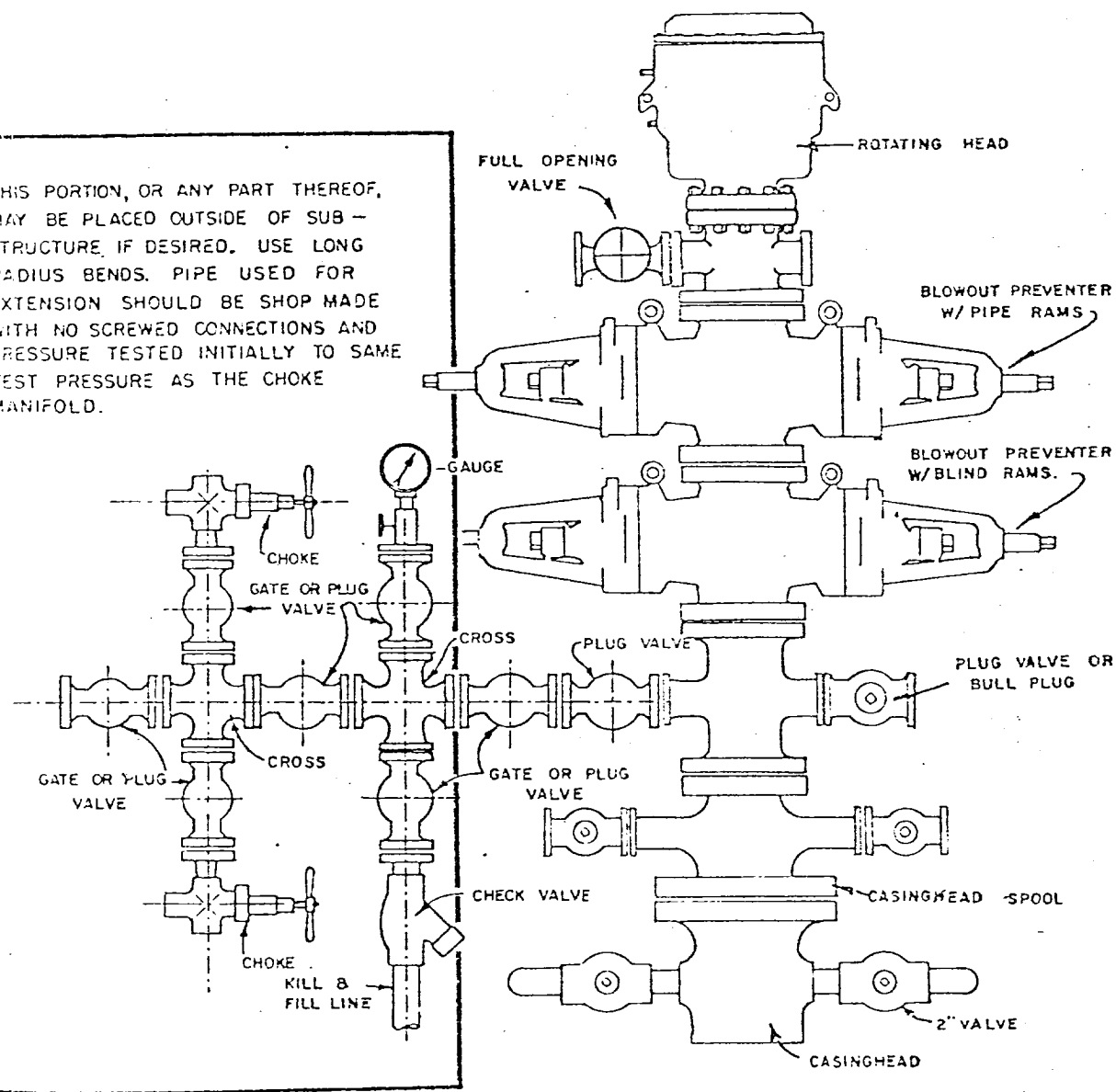
Operations will commence when permitted and last approximately 3 weeks.

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

In the past, drilling in this area has shown that no abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.

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 "J" NO. 1E
810' FSL & 1760' FEL, SECTION 34, T28N, 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 "J" Well No. 1 approximately one-half mile north.
5. Water will be hauled from Kutz Wash water holes.
6. No construction materials will be hauled in for this location.
7. A 150' by 150' 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. An 8-foot cut will be made on south 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 sandy soil with location between two hills; vegetation consists of some cedar trees.

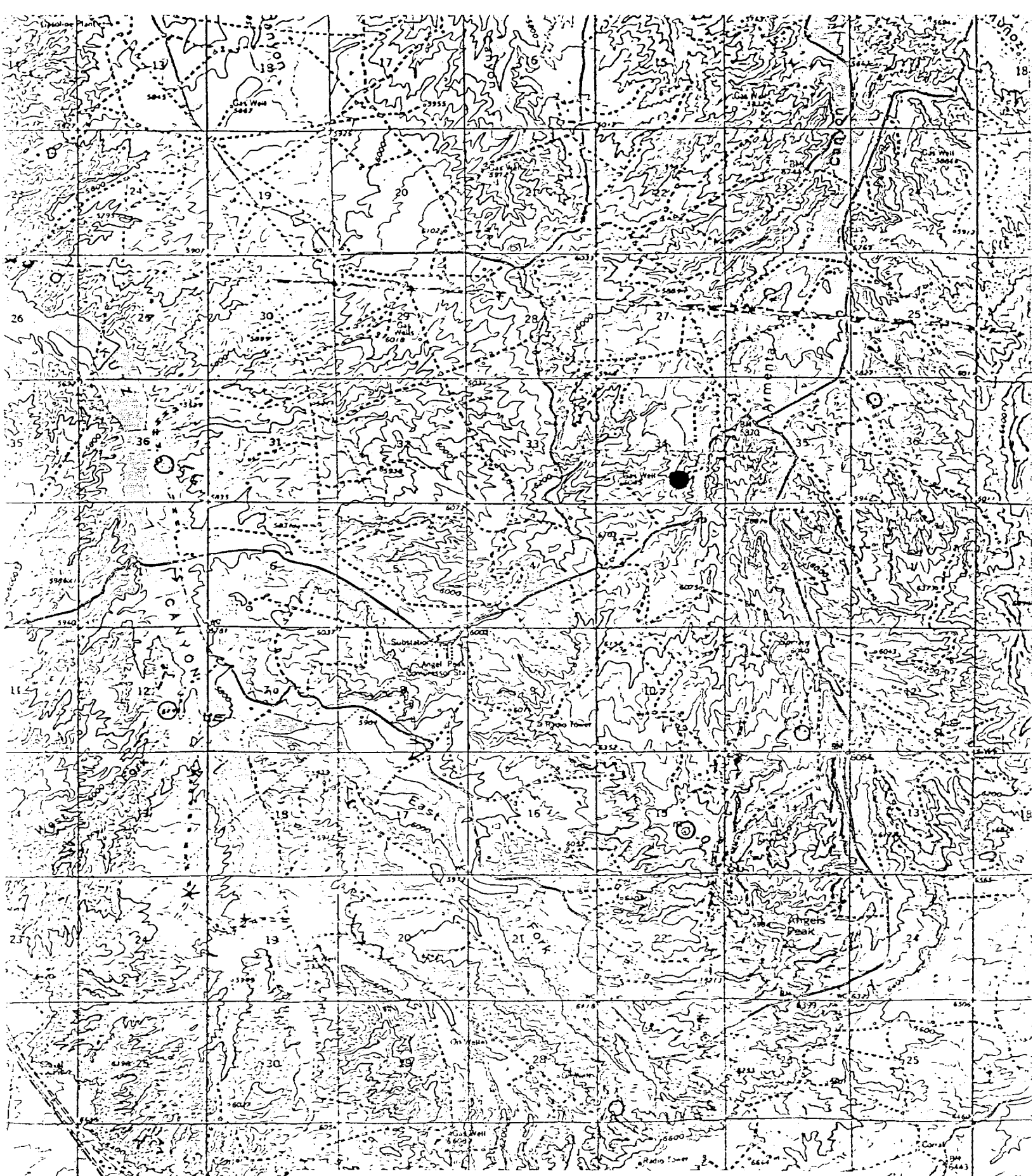
Representatives of the U. S. Geological Survey's Farmington Office and the Bureau of Land Management inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

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 June 11, 1980

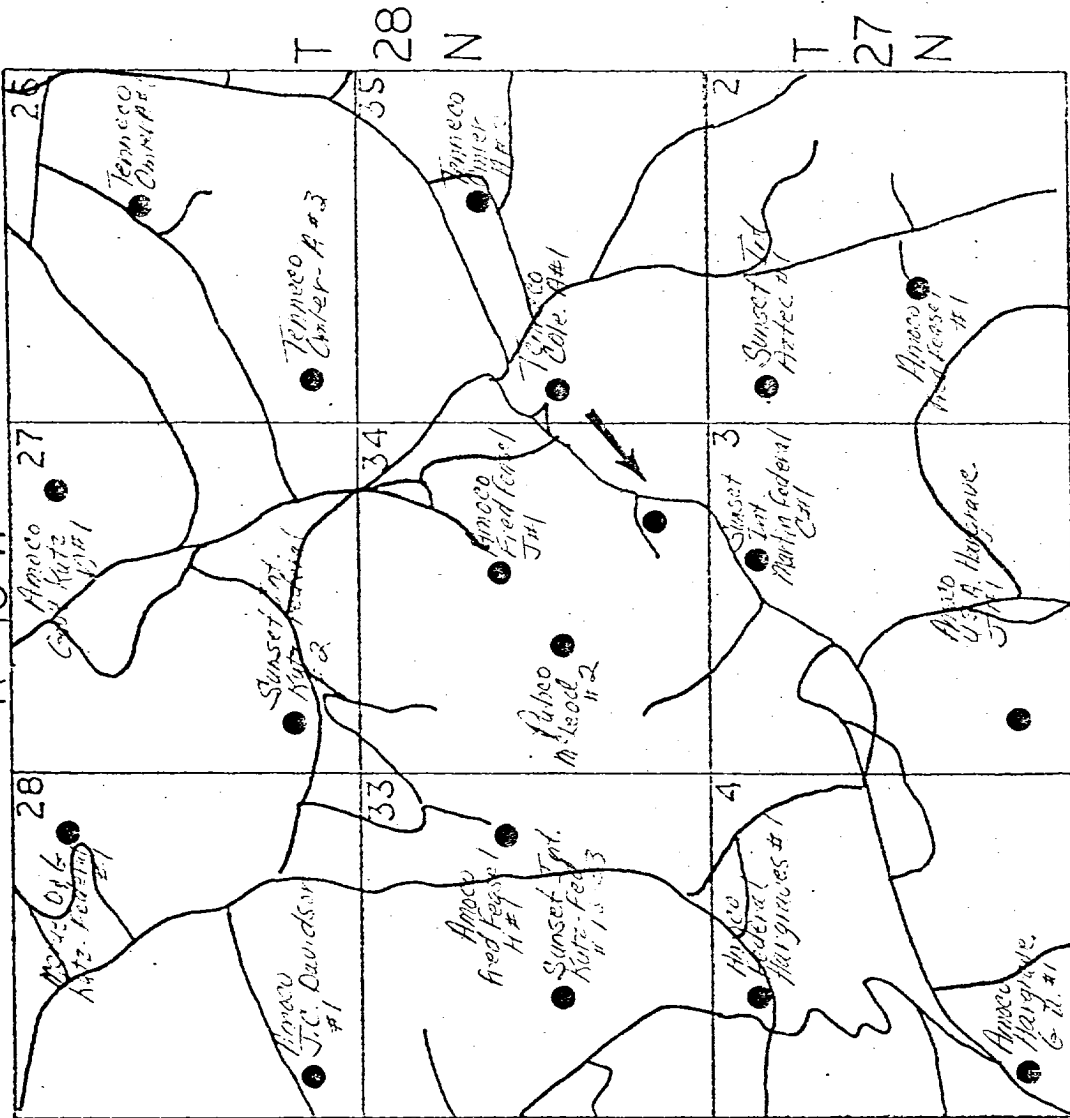
R. W. Schroeder DSO
R. W. Schroeder, District Superintendent



Vicinity Map for
AMOCO PRODUCTION CO. #1E FRED FEASEL "J"
810°TSL 1760°FEL Sec. 34-T28N-R1CW
SAN JUAN COUNTY, NEW MEXICO

FRED FEASEL J #1E

R 10 W



ROADS

EXISTING DAKOTA WELLS

PROPOSED WELL LOCATION