

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-24206

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 INFILL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
 501 Airport Drive, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 860' FNL and 1820' FWL, Section 21, T27N, R10W
 At proposed prod. zone
 Same

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 860'

16. NO. OF ACRES IN LEASE 480.00

17. NO. OF ACRES ASSIGNED TO THIS WELL 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2970'

19. PROPOSED DEPTH 6596' KB

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6013' GL

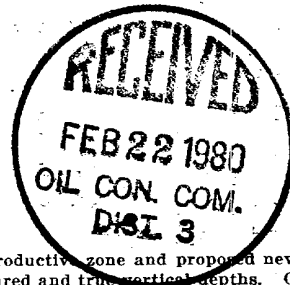
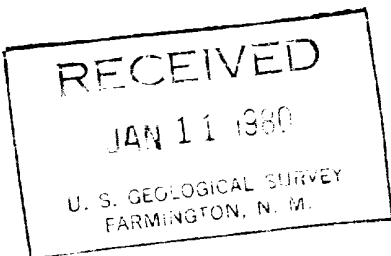
22. APPROX. DATE WORK WILL START* As soon as permitted

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#	300'	300 sx Class "B" Neat
7-7/8"	4-1/2" (New)	11.6#	6596'	1660 sx Class "B" 50:50 POZ

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

The gas from this well is 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 B. E. Jacob TITLE District Engineer DATE January 9, 1980

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

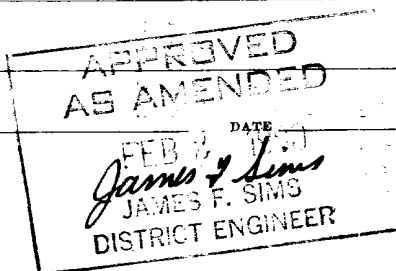
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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

ok Jacob

NMOCC



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.

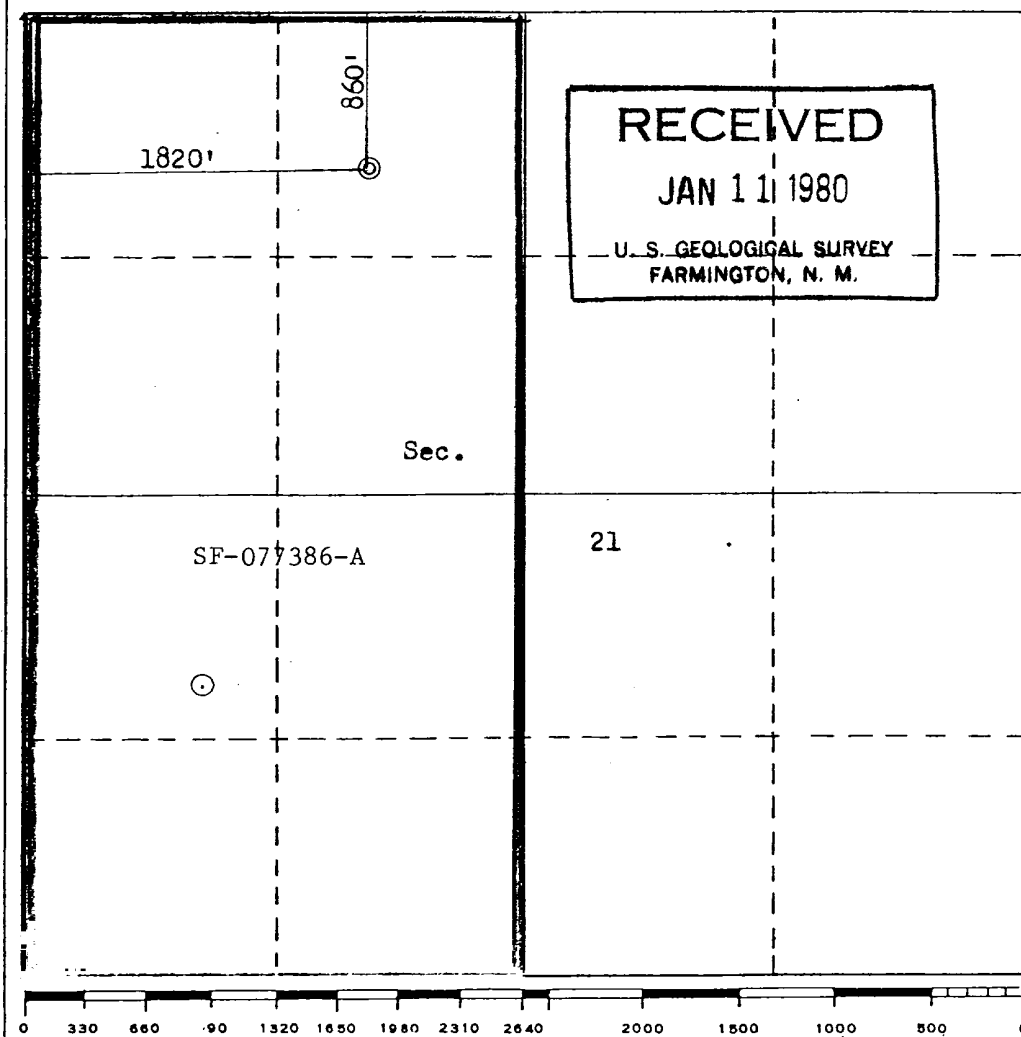
Operator AMOCO PRODUCTION COMPANY			Lease E. J. JOHNSON "C"			Well No. 1-E		
Unit Letter C	Section 21	Township 27N	Range 10W	County San Juan				
Actual Footage Location of Well: 860 feet from the North line and 1820 feet from the West line								
Ground Level Elev. 6013		Producing Formation Dakota		Pool Basin Dakota			Dedicated Acreage: W 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 jointly owned acreage

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
DECEMBER 7, 1979

I hereby certify that the location shown on this plat was obtained from field notes of actual surveys by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

RECEIVED
FEB 22 1980
OIL CON. COM.
DIST. 3

Date Surveyed
November 21, 1979

Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No. **3958**
B. KERR, JR.

SUPPLEMENTAL INFORMATION TO FORM 9-331C

E. J. JOHNSON "C" NO. 1E
860' FNL & 1820' FWL, SECTION 21, T27N, R10W
SAN JUAN COUNTY, NEW MEXICO

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

Estimated tops of important potential hydrocarbon bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Fruitland	1555'	+4471'
Pictured Cliffs	1800'	+4226'
Mesaverde	3340'	+2686'
Dakota	6249'	- 223'
TD	6596'	

Estimated KB elevation: 6026'

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

Induction - SP - GR*

Formation Density - Compensated Neutron - GR

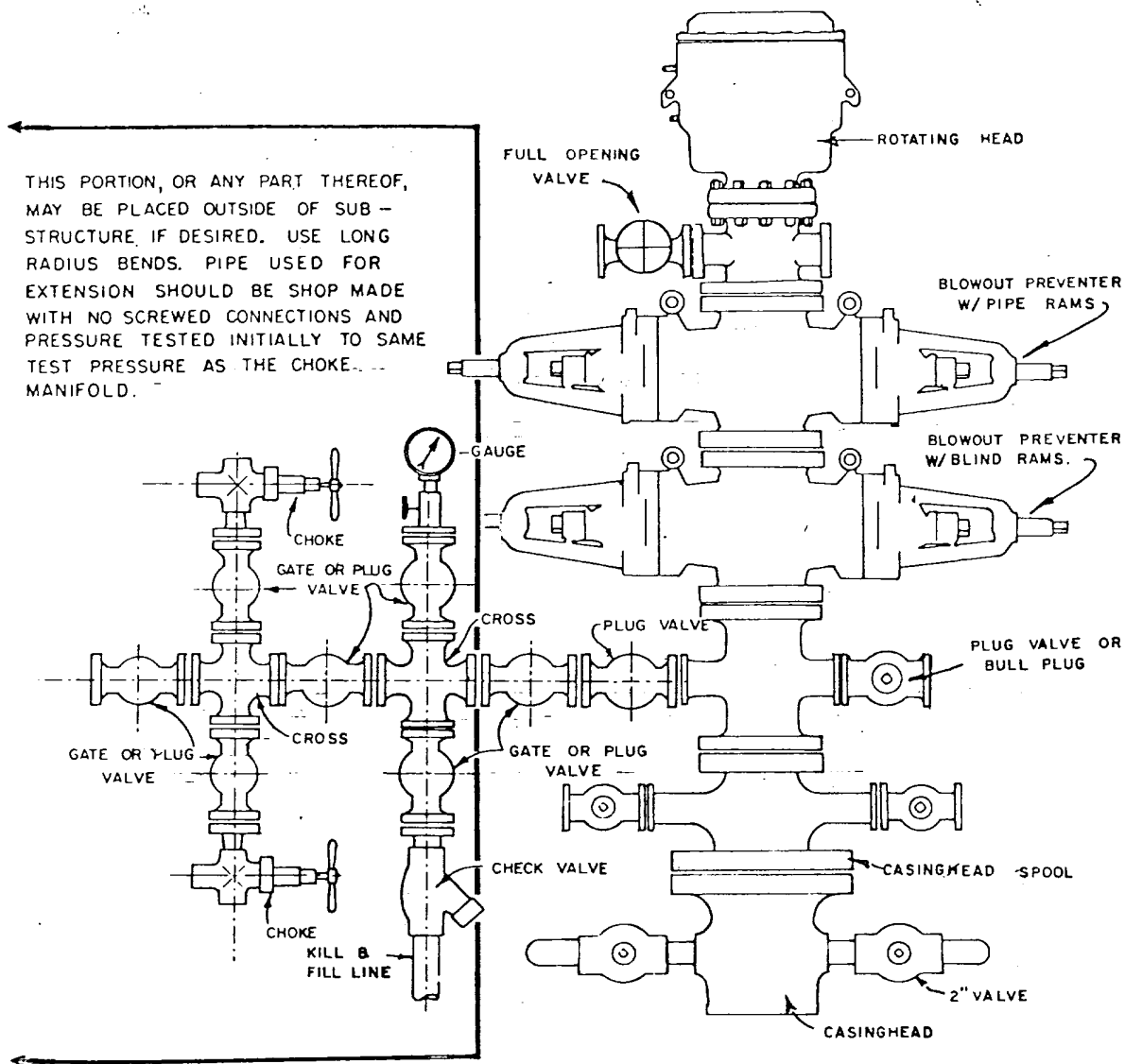
*GR will be logged to surface

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).

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

MULTI-POINT SURFACE USE PLAN

E. J. JOHNSON "C" NO. 1E
860' FNL & 1820' FWL, SECTION 21, 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 an access road for this location.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
4. There is a 380-barrel tank and facilities located at E. J. Johnson "C" Well No. 1.
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.
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 3-foot cut will be made on southwest side.
10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Drilling mud will be hauled away and the reserve pit back filled. Reseeding of the site will be carried out as instructed by the Bureau of Land Management.
11. The general topography is a flat area, on edge of wash, with sandy soil; vegetation consists of sagebrush and native grasses.

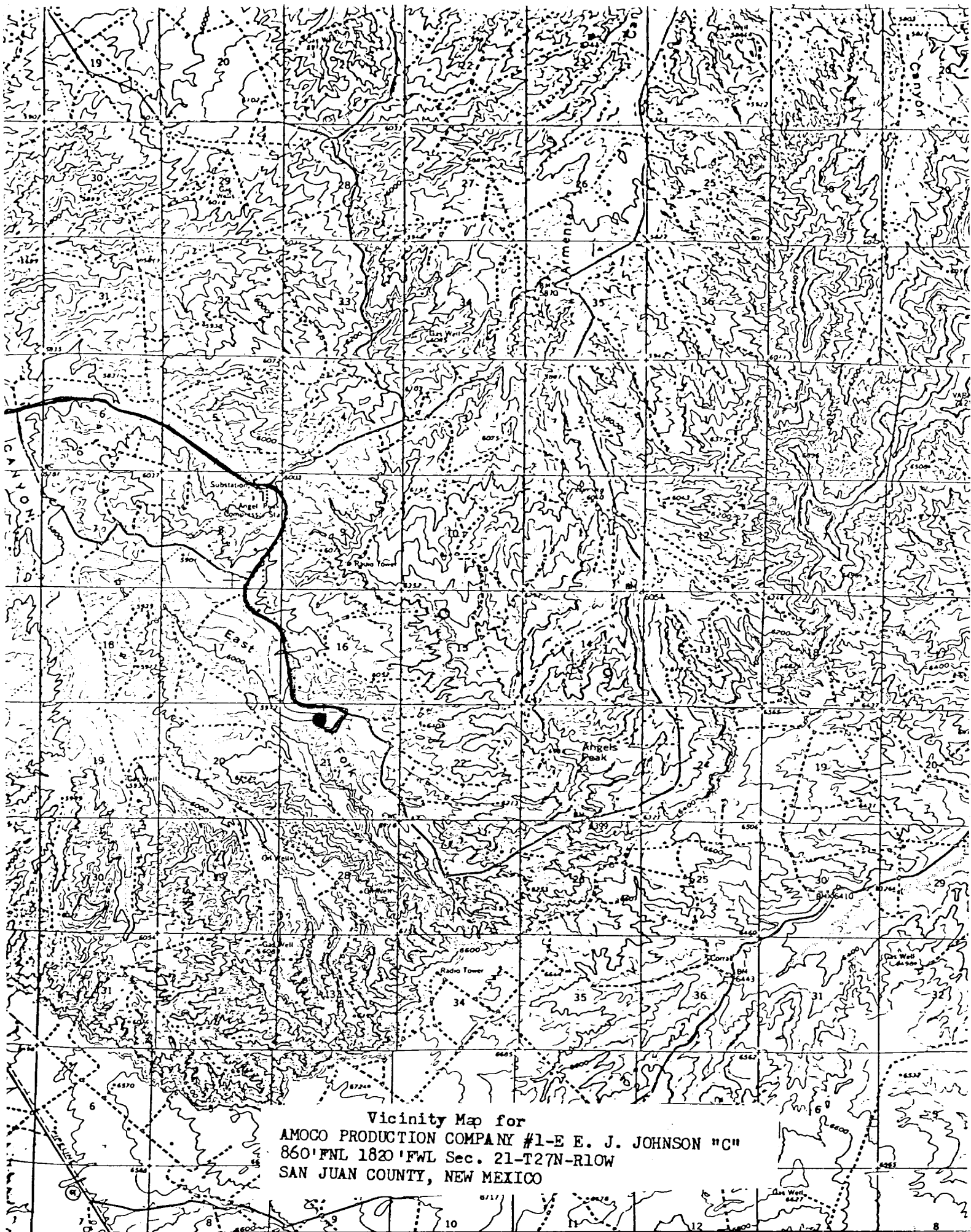
Representatives of the U. S. Geological Survey's Farmington Office and the Bureau of Land Management inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

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

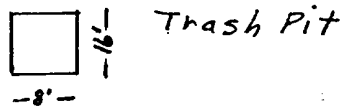
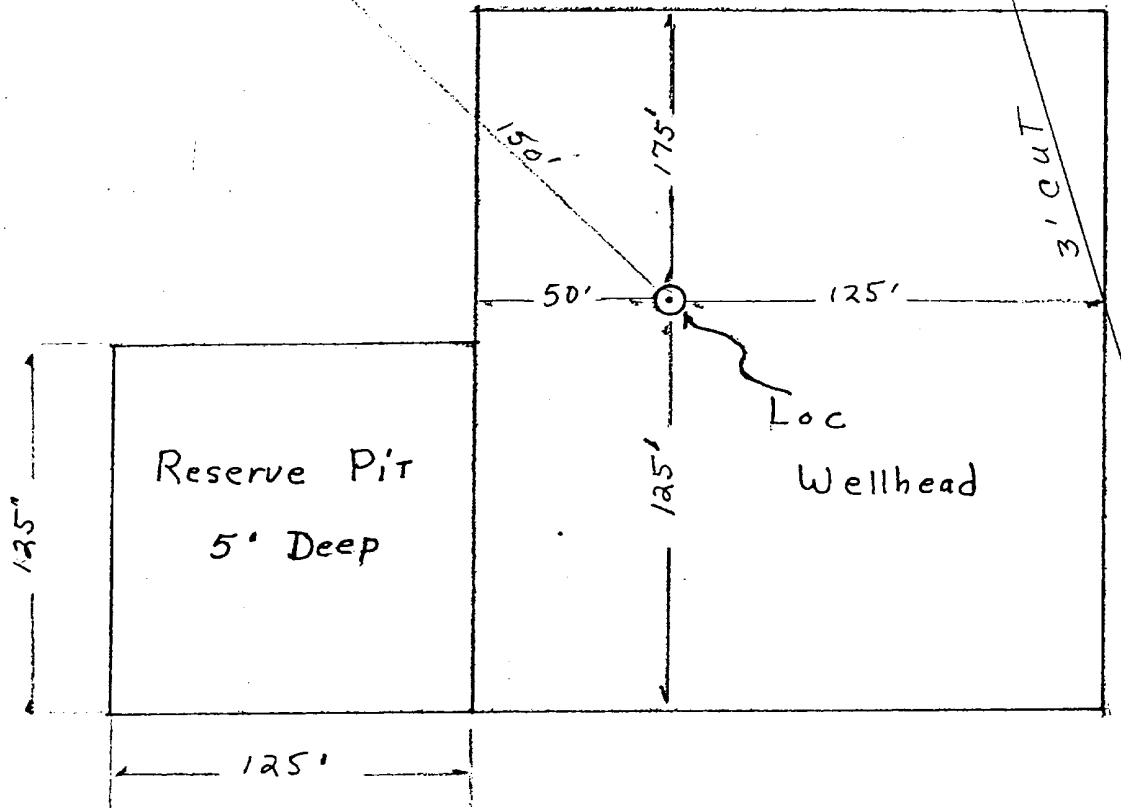
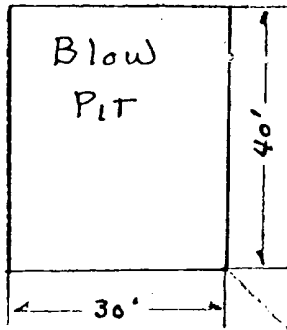
Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the 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 December 20, 1979


R. W. Schroeder, District Superintendent



Vicinity Map for
AMOCO PRODUCTION COMPANY #1-E E. J. JOHNSON "C"
860' FNL 1820' FWL Sec. 21-T27N-R10W
SAN JUAN COUNTY, NEW MEXICO



Approximately 1.2 Acres

Amoco Production Company		SCALE: NONE
Drilling Location Specs E. J. JOHNSON "C" NO. 1E		DRG. NO.

E. J. JOHNSON "C" NO. 1E

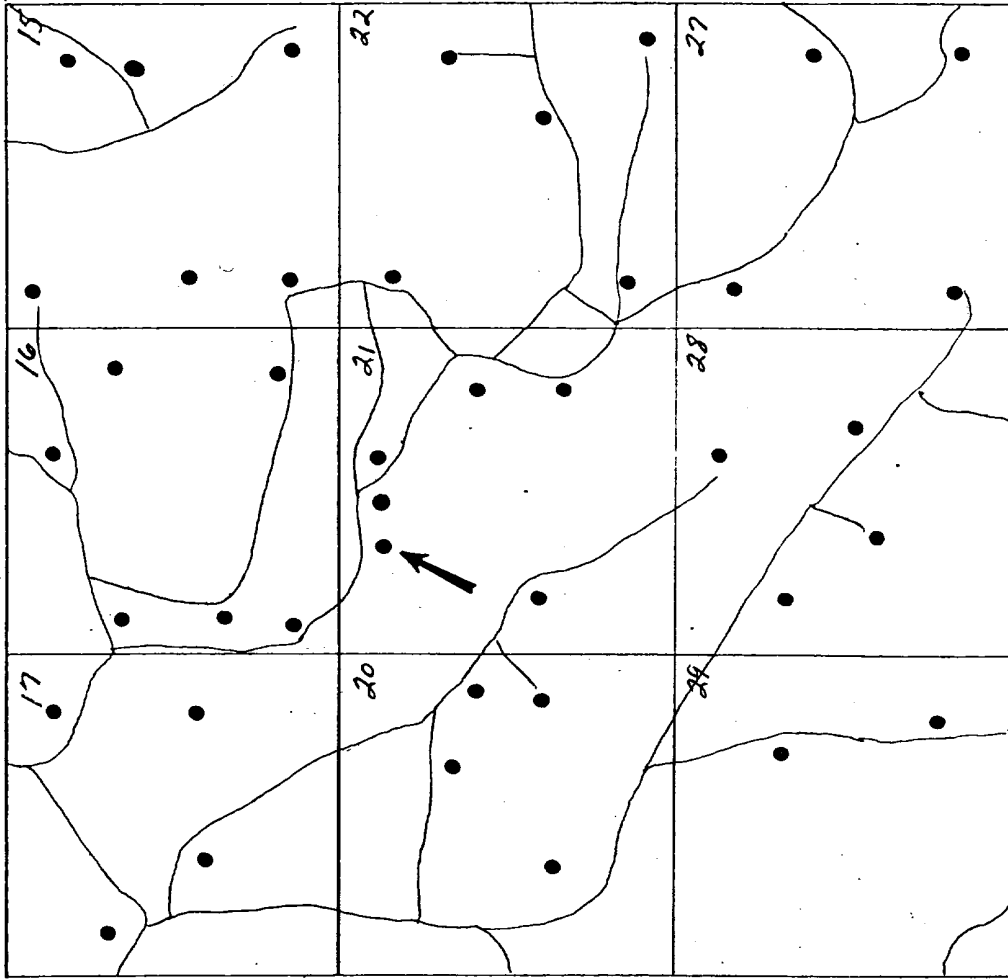
<u>CASING</u>	<u>GRADE</u>	<u>WEIGHT</u>	<u>CEMENT TOP</u>	<u>CEMENT</u>
8-5/8" (NEW)	K-55	24#	Surface	Class B with 2% CaCl ₂ .
4-1/2" (NEW)	K-55	11.6#	Surface	Class B with 50:50 POZ, 6% gel, 2# med tuf plug/sx, .8% fluid loss.

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Ojo Alamo	709'	+5317'
Kirtland	874'	+5152'
Fruitland	1555'	+4471'
Pictured Cliffs	1800'	+4226'
Chacra	2669'	+3357'
Mesaverde	3340'	+2686'
Gallup	5294'	+ 732'
Dakota	6249'	- 223'

E.J. JOHNSON "C" #1E

R 10 W

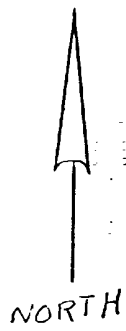
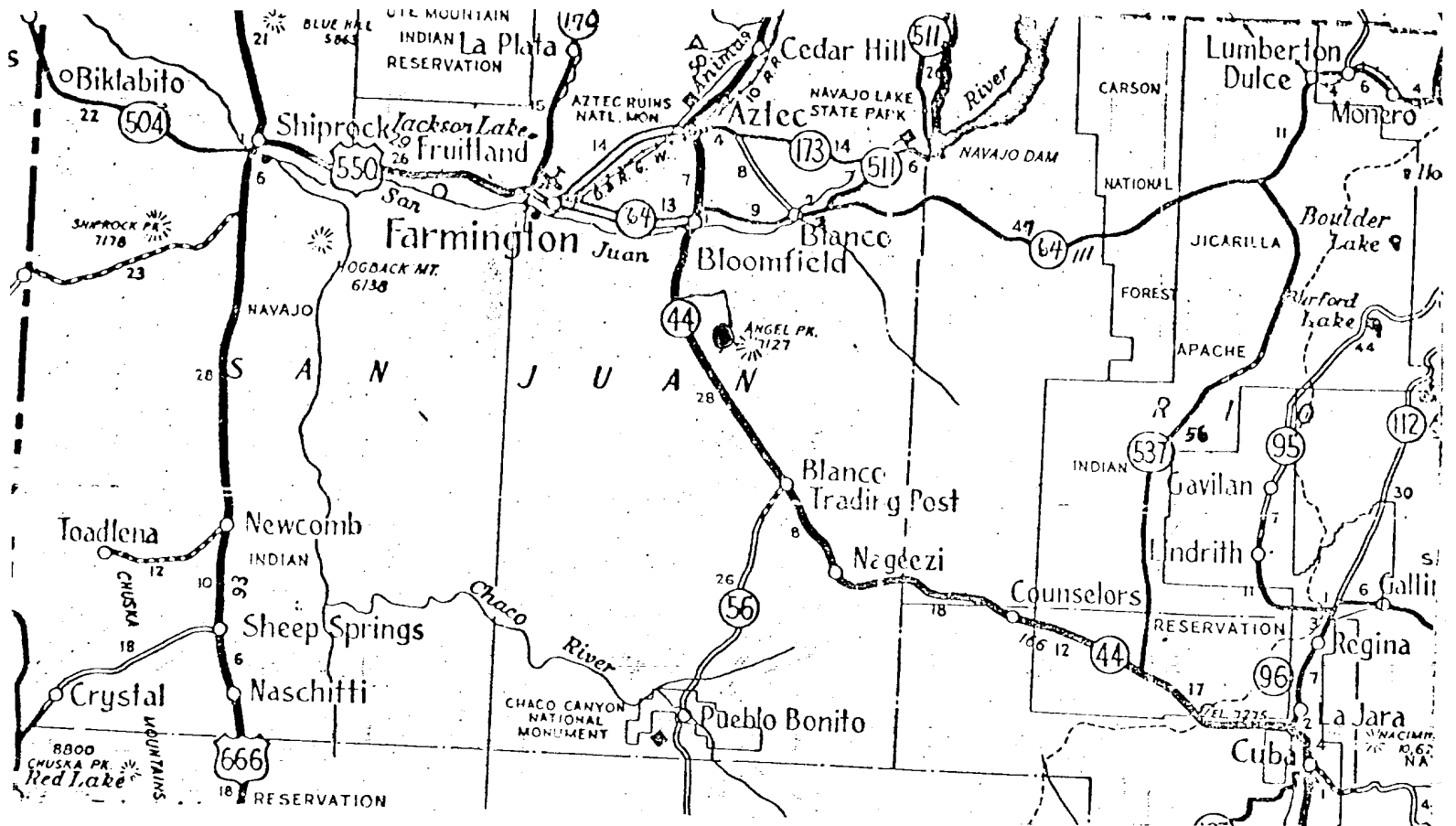
T 27 N



EXISTING WELLS ●

PROPOSED WELL →

ROADS ~



TO DURANGO,
COLORADO

(550)

AZTEC

14.0 mi
(550)

7.0 mi

9.0 mi

BLANCO
(64)

FARMINGTON

13.0 mi
(64)

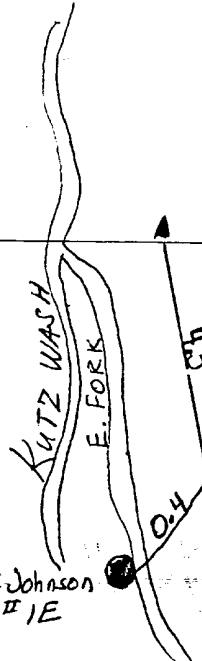
BLOOMFIELD

8.4

3.5

(44)

TO CUBA



E.P.N.G.
CAMP

FARMINGTON DISTRICT TRANSPORTATION SKETCH
DENVER REGION

E.J. JOHNSON "C" NO. 1E
SAN JUAN COUNTY, NEW MEXICO
AMOCO WI: .50%

- Rail Point, Aztec - 25 miles
- Mud Point, Aztec - 25 miles
- Cement Point, Farmington - 30 miles

January 31, 1980