

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 INFILL SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

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

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

1615' FSL and 1740' FEL, Section 26, T29N, R12W
At proposed prod. zone

Same

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest dgd. unit line, if any) 1615'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1046'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5406' GL

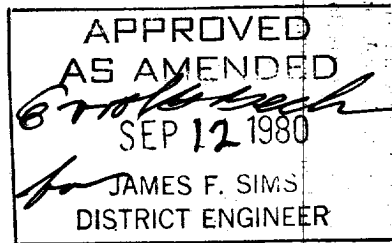
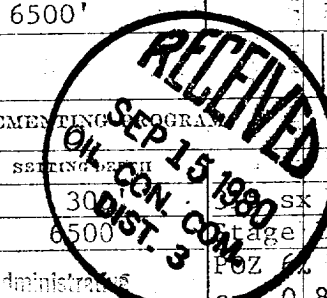
23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
12-1/4"	8-5/8" (New)	24# K-55	30'
7-7/8"	4-1/2" (New)	10.5# K-55	6500'

This action is subject to administrative appeal pursuant to 30 CFR 230.

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 Co.

QUANTITY OF CEMENT
1000' Class "B" w/2% CaCl2-circ.
Stage 1-407 sx Class "B" 50:50
POZ 6% gel, 2# med tuf plug/sx,
and 0.8% FLA. Tail in w/ 100 sx
Class "B" Neat-circ.
Stage 2-754 sx Class "B" 65:35
POZ, 6% gel, 2# med tuf plug/sx,
and 0.8% FLA. Tail in w/ 100 sx
Class "B" Neat-circ.
DV Tool set at 4120'.



30-045-2453-6
5. LEASE DESIGNATION AND SERIAL NO.
SF-078109
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
Gallegos Canyon Unit
8. FARM OR LEASE NAME
Com "G"
9. WELL NO.
179E
10. FIELD AND POOL, OR WILDCAT
Basin Dakota
11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA
NW/4, SE/4, Section 26
T29N, R12W
12. COUNTY OR PARISH
San Juan
13. STATE
New Mexico

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 R. A. Nauney TITLE District Engineer DATE August 21, 1980
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ok 3-11

NMOCC

OIL CONSERVATION DIVISION

P. O. BOX 7088

Form C-107
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

All distances must be from the outer boundaries of the Section

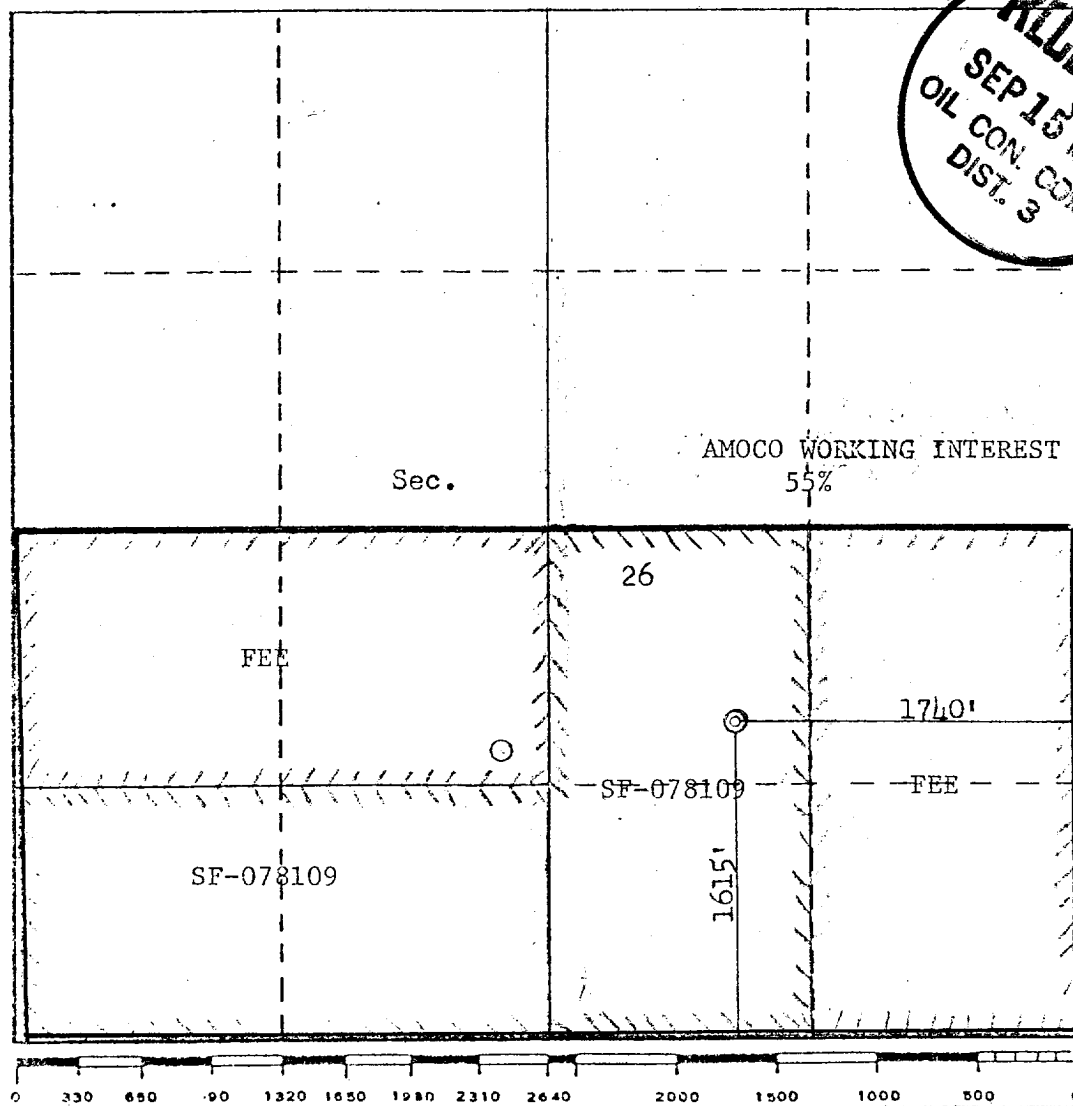
Operator AMOCO PRODUCTION COMPANY			Lease GALLEGOS CANYON UNIT GAS COM "G"		Well No. 179-E
Unit Letter J	Section 26	Township 29N	Range 12W	County San Juan	
Actual Footage Location of Well: 1615 feet from the South line and 1740 feet from the East line					
Ground Level Elev. 5406	Producing Formation 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?

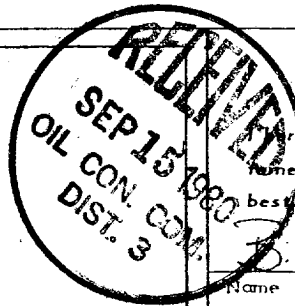
☒ Yes ☐ No If answer is "yes," type of consolidation COMMUNITIZATION

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.



CERTIFICATION



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

Name
B.E. FACKRELL
Position
DISTRICT ENGINEER
Company
AMOCO PRODUCTION COMPANY
Date
MARCH 13, 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
March 13, 1980
Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr Jr.
Certificate No. **3950**

SUPPLEMENTAL INFORMATION TO FORM 9-331C

GALLEGOS CANYON UNIT GAS COM "G" NO. 179E
1615' FSL & 1740' FEL, SECTION 26, T29N, R12W
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	210 '	5248 '
Kirtland	290 '	5168 '
Fruitland	1151 '	4268 '
Pictured Cliffs	1401 '	4018 '
Chacra (if present)		
Mesaverde [Cliff House	2946 '	2473 '
[Point Lookout	3820 '	1599 '
Gallup	5043 '	376 '
Dakota	5911 '	- 492 '
TD	6500 '	-1081 '

Estimated KB elevation: 5419 '

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-GR-Induction
FDC-CNL-Gamma Ray

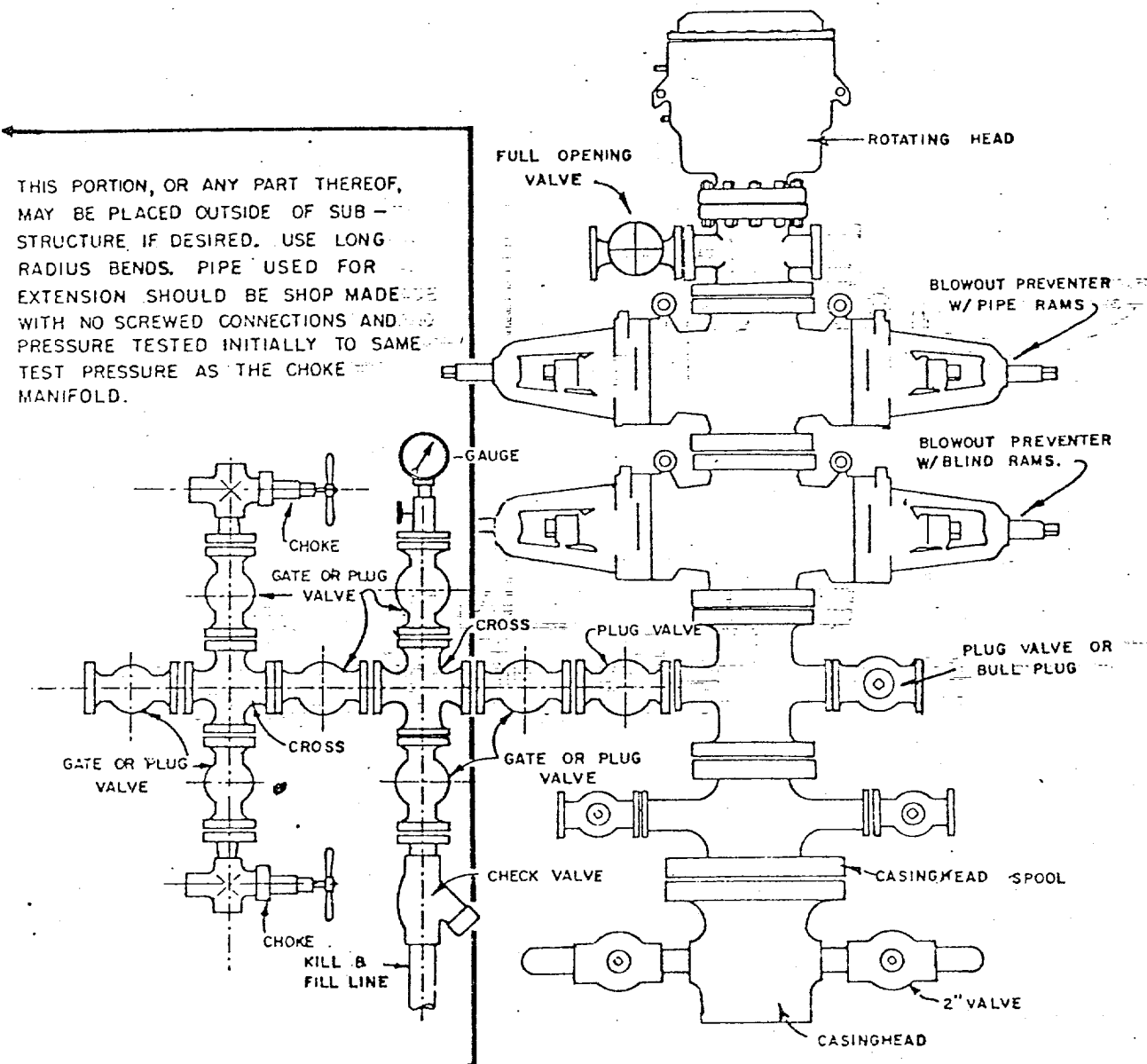
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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.



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

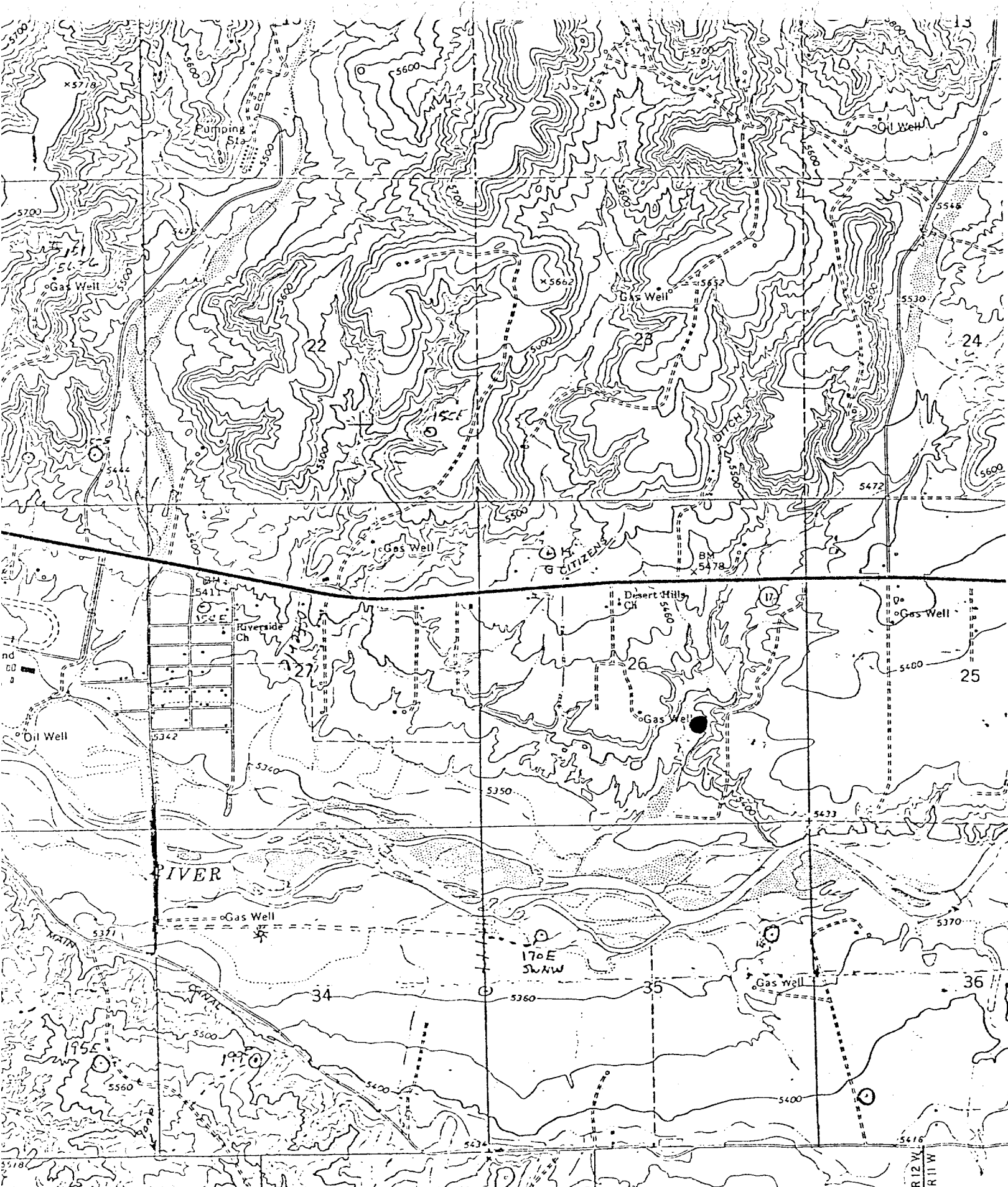
GALLEGOS CANYON UNIT GAS COM "G" NO. 179E
1615' FSL & 1740' FEL, SECTION 26, T29N, R12W
SAN JUAN COUNTY, NEW MEXICO

1. The attached topographic map shows the proposed route to the location.
 2. It will be necessary to build an access road approximately 300 feet in length and 20 feet wide. Road to be bar ditched on two sides.
 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 Gallegos Canyon Unit Well No. 179, approximately one-fourth mile east.
 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 3-foot cut will be made on top 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 an uneven terrain, on bench just above wash. The soil is a sandy loam with vegetation consisting of sagebrush, 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 Salmon Ruins.
12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

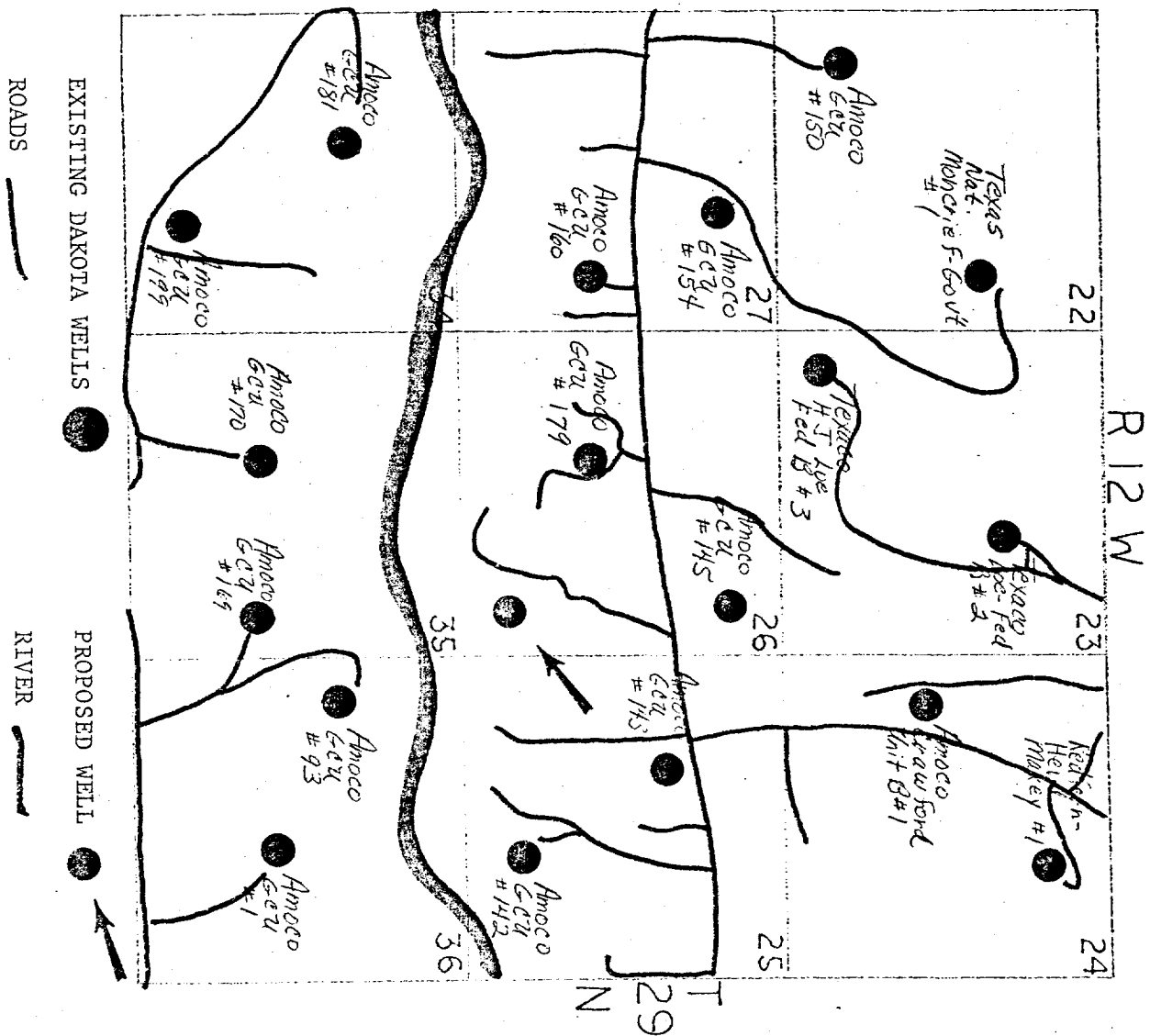
Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the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

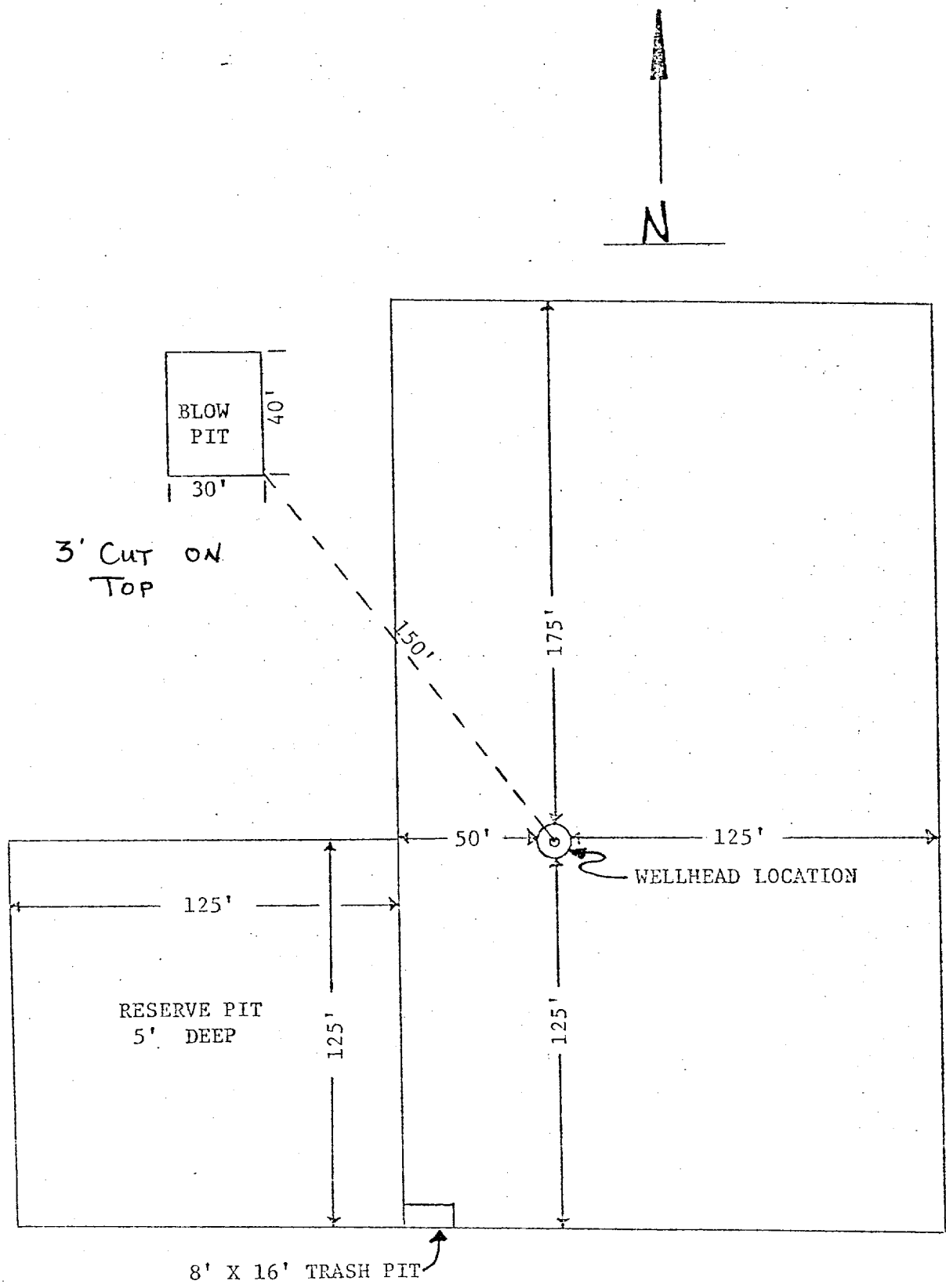
Date August 19, 1980


R. W. Schroeder, District Superintendent



Vicinity Map for
AMCCO PRODUCTION CO. #179-E GALLEGOS CANYON UNIT GAS COM "G"
1615' FSL 1740' FEL Sec. 26-T29N-R12W
SAN JUAN COUNTY, NEW MEXICO





APPROXIMATELY 1.2 ACRES

Amoco Production Company		SCALE: 1"=50'
DRILLING LOCATION SPECIFICATIONS		
GALLEGOS CANYON UNIT GAS COM "G" No. 179 E		DRG. NO.