

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

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

K 2250 FSL & 1150 FWL, Section 7, T-29-N, R-9-W  
At proposed prod. zone

Same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

1.5 miles NE from Blanco, NM

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

1150'

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

3100'

## 16. NO. OF ACRES IN LEASE

336.66

## 19. PROPOSED DEPTH

4698'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

336.66

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5629' GL

## 22. APPROX. DATE WORK WILL START\*

September 1977

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	32.3#	250'	250 sz
8-3/4"	7"	20#	3109'	351 sz
6-1/4"	4-1/2"	10.5#	3109-4698'	350 sz

Amoco proposes to drill the above well to develop the Masaverde reservoir. The well will be drilled using rotary tools with water and Benax as the circulating media to the intermediate casing point. The well will be gas drilled from the intermediate casing point to TD. Production casing will be set thru the Masaverde formation on completion. Perforations and stimulation will be based on analysis of open hole logs. Copy of all logs will be filed upon completion. Amoco's standard blowout prevention will be employed, see attached drawing for blowout preventer design.

Upon completion, the well location will be cleaned, and the reserve pit filled and leveled.

Gas produced 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

TITLE

Area Engineer

DATE

8/1/77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

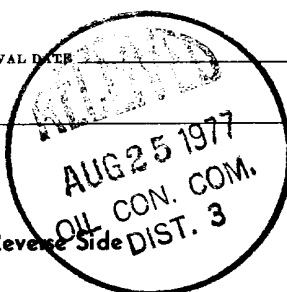
APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side



NW 1/4 R-564

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-61

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

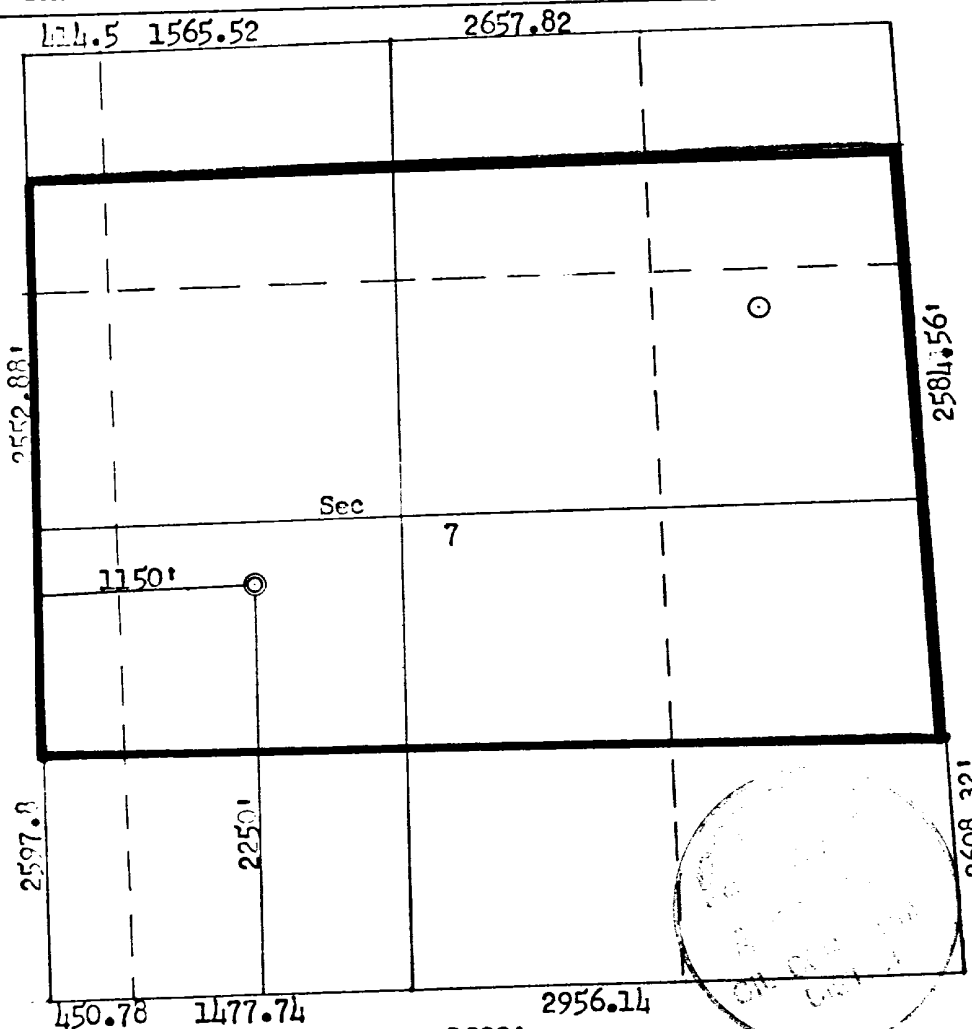
Operator <b>Amoco Production Company</b>			Lease <b>Nye Gas Com</b>		Well No. <b>1A</b>
Unit Letter <b>K</b>	Section <b>7</b>	Township <b>29N</b>	Range <b>9W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>2250</b> feet from the <b>South</b> line and <b>1150</b> feet from the <b>West</b> line					
Ground Level Elev. <b>5629</b>	Producing Formation <b>Mesa Verde</b>		Pool <b>Blanco Mesaverde</b>		Dedicated Acreage: <b>336.66</b> 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 \_\_\_\_\_

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  
**J. L. KRUPKA**  
Position  
**AREA ENGINEER**  
Company  
**AMOCO PRODUCTION COMPANY**  
Date  
**JULY 12, 1977**

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  
**June 29, 1977**  
Registered Professional Engineer and Land Surveyor  
**Fred B. Kerr Jr.**  
Certificate No.  
**3950**


NYE GAS COM NO. 1A  
2250 FSL & 1150 FWL, SECTION 7, T-29-N, R-9-W  
SAN JUAN COUNTY, NEW MEXICO

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.

AUGUST 2, 1977

Date



AREA SUPERINTENDENT

Name and Title

DEVELOPMENT PLAN  
NYE GAS COM NO. 1A  
2250 FSL & 1150 FWL, SECTION 7, T-29-N, R-9-W  
SAN JUAN COUNTY, NEW MEXICO

The proposed location is located on coarse sandy soil with juniper and pinon pine trees, snakeweed, rabbitbrush, Mormon tea, prickly pear, and Cholla cacti. The geological name of the surface formation is the Nacimiento. No new road will be required. No construction materials will be required to build the location, and the location will be leveled and cleaned up upon completion.

The water will be hauled to the location from a ditch in Blanco over existing roads. The hole will be drilled using fresh mud from surface to 3109' and gas from 3109' to TD (4698'). Upon completion the location will be cleaned, leveled and the reserve pit will be backfilled. Attached is the BLM seeding plan to be followed for this well.

There are no airstrips in the vicinity.

The estimated tops of important geological formations bearing hydrocarbons are:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Pictured Cliffs	2709'	+2932'
Cliffhouse	3798'	+1843'
Menefee	3914'	+1727'
Point Lookout	4380'	+1261'

Estimated KB elevation: 5641'

The proposed setting depths of each casing string and type of cement to be used for each, is as follows:

<u>DEPTH</u>	<u>CSG. SIZE</u>	<u>WEIGHT</u>	<u>HOLE SIZE</u>	<u>SACKS CEMENT - TYPE</u>
250'	9-5/8"	32.3#	12-1/4"	250 - Class "B", 2% CaCl <sub>2</sub>
3109'	7"	20#	8-3/4"	451 - Class "B", 2% CaCl <sub>2</sub> , 2# Med. Tuf Plug/sx.
				100 - Class "B" Neat.
3109-4698'	4-1/2"	10.5#	6-1/4"	300 - Class "B" 50:50 Poz, 2% Gel, 2# Med Tuf Plug/sx, 0.2% Friction Reducer.
				50 - Class "B", 50:50 Poz, 2% Gel.

Amoco's standard blowout preventer will be employed, see attached drawing for Blowout Preventer design.

Amoco plans to run the following logs from TD to intermediate casing: Induction Gamma Ray, Density Gamma Ray. No cores or Drill Stem Tests will be taken.

Our experience in this area has shown no abnormal pressure, temperatures, or hydrogen sulfide gas will be encountered.

Our proposed starting date is September 1977 and a three week operation is anticipated.

BLM SEEDING REQUIREMENTS  
IN THE FARMINGTON RESOURCE AREA

1. SEED MIXTURE 2

2. TIME:

All seeding will take place between July 1 and September 15.

3. EQUIPMENT:

Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. The seed will be planted not less than one-half inch deep or more than one inch deep. The seeder will be followed with a drag, packer, or roller to insure uniform coverage of the seed, and adequate compaction. Drilling will be done on the contour where possible, not up and down the slope. Where slopes are too steep for contour drilling, a "cyclone" hand seeder or similar broadcast seeder will be used. Seed will then be covered to the depth described above by whatever means is practical.

4. SPECIES TO BE PLANTED IN POUNDS PURE-LIVE-SEED PER ACRE:

CRESTED WHEATGRASS (Agropyron desertorum) -  $3\frac{1}{4}$  lbs.

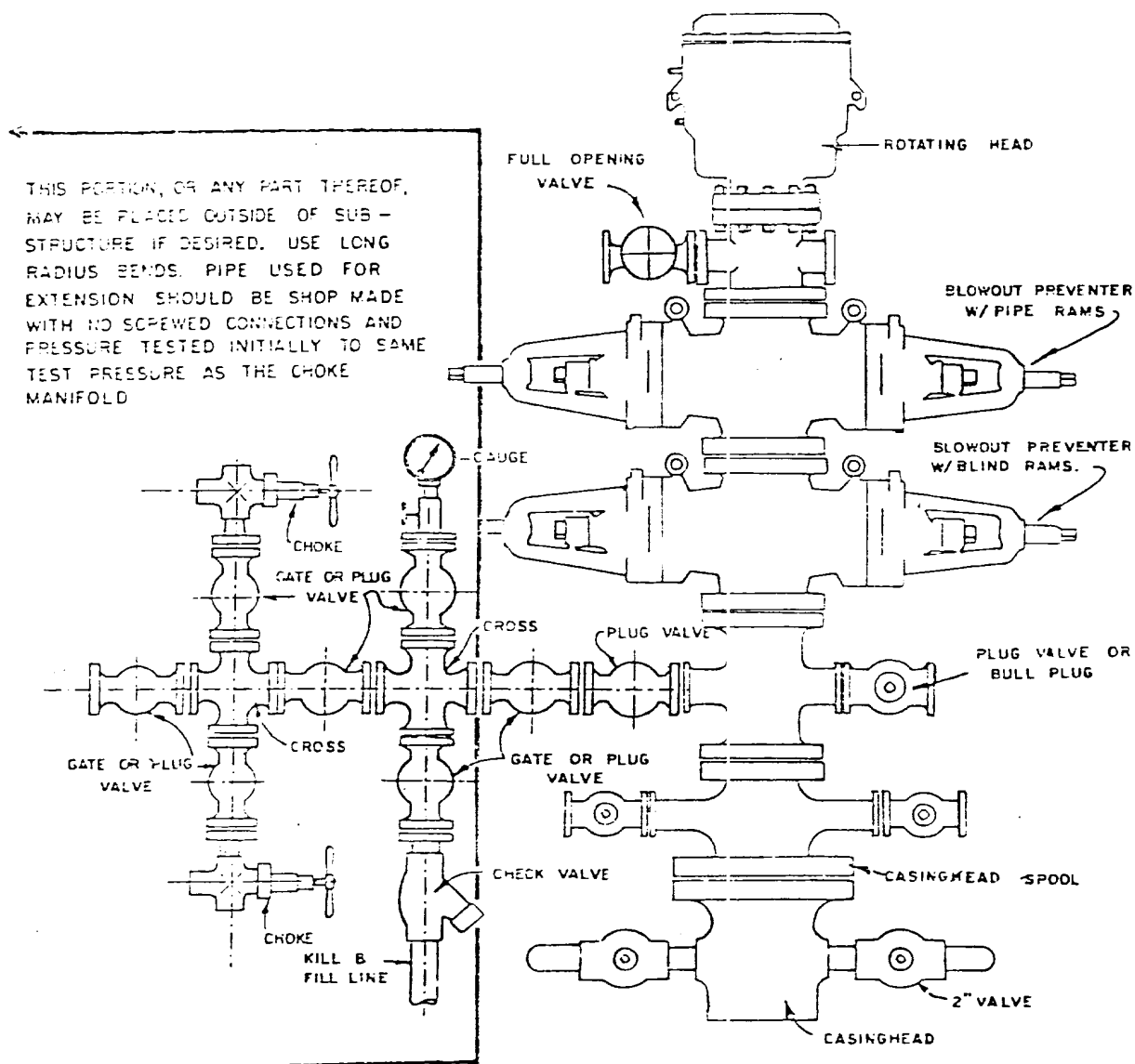
FOURWING SALTBUSH (dewinged) (Atriplex canescens) -  $\frac{1}{2}$  lb.

SAND DROPSEED (Sporobolus cryptandrus) -  $\frac{3}{4}$  lb.

WINTERFAT (Eurotia lanata) -  $\frac{1}{2}$  lb.

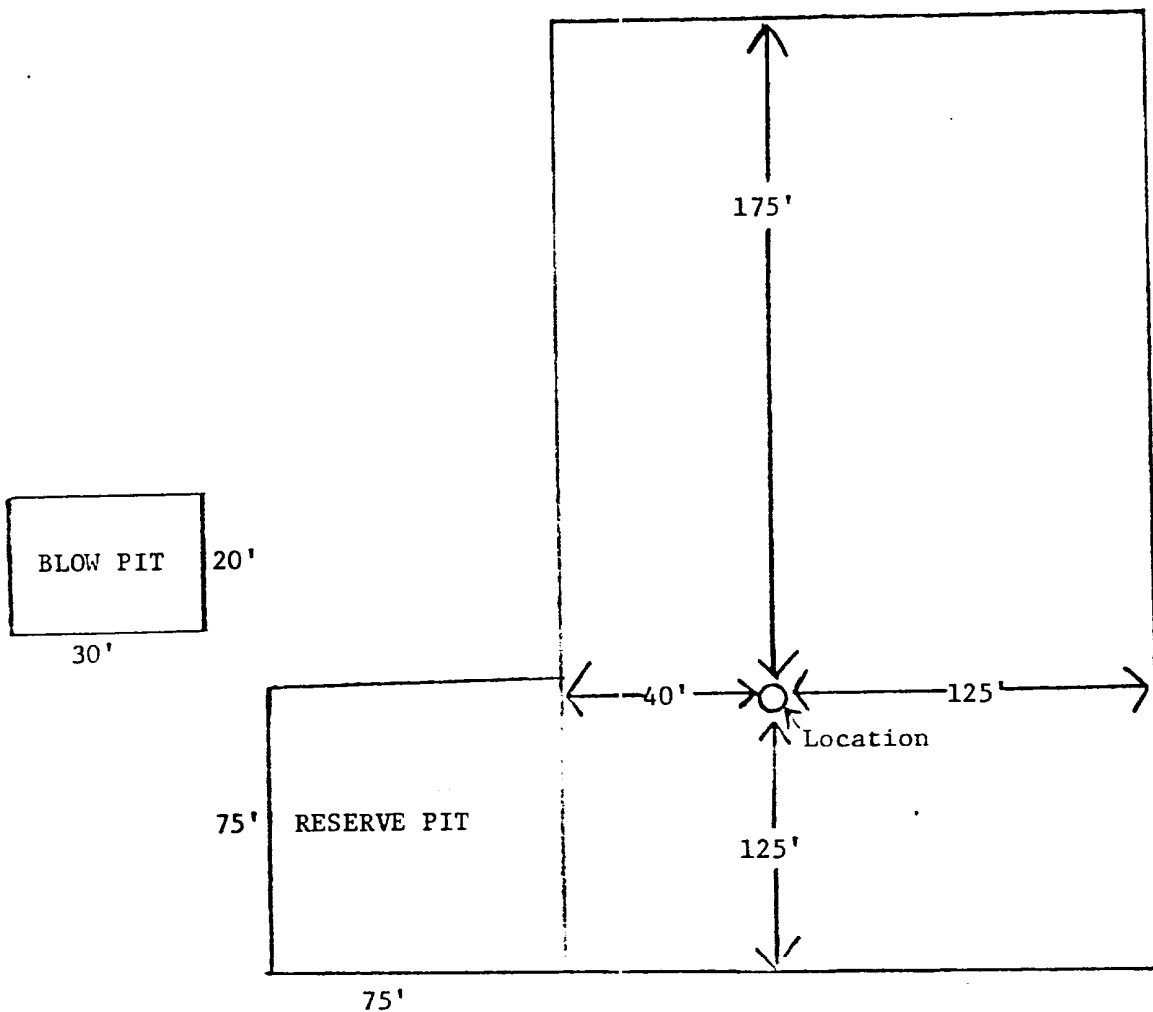
ALKALI SACATON (Sporobolus airoides) -  $\frac{3}{4}$  lb.

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

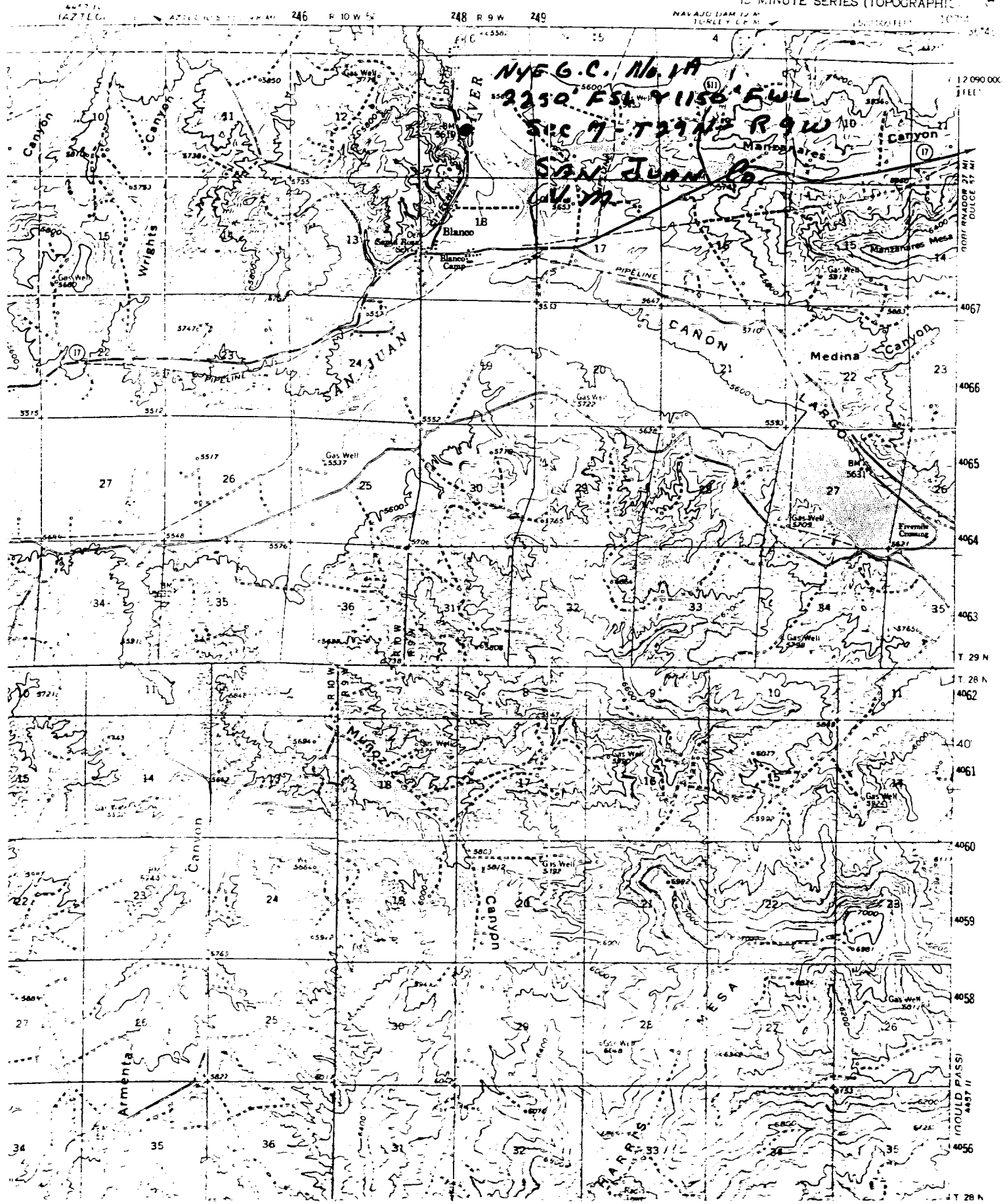


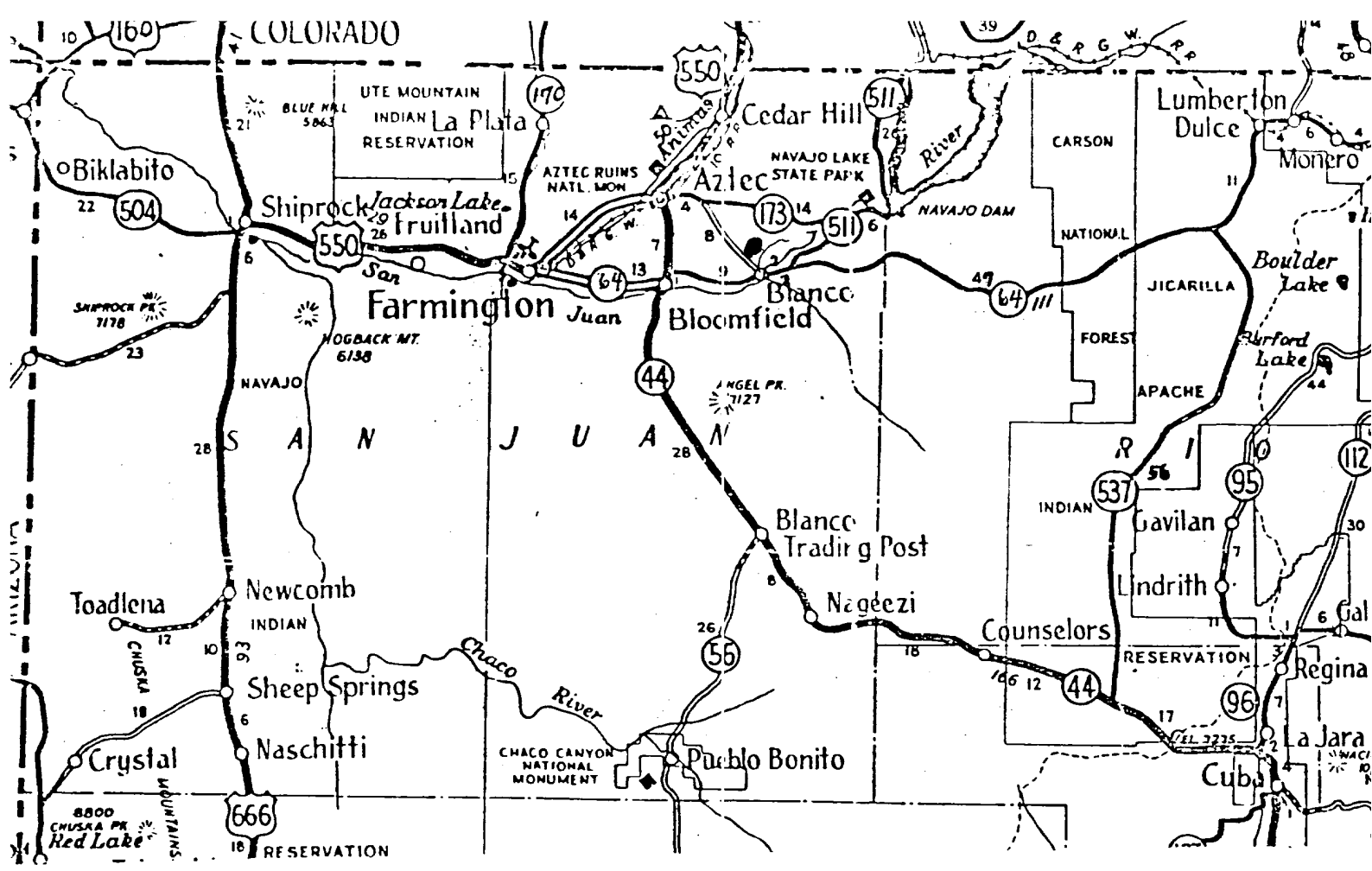


Amoco Production Company		SCALE:
Location Diagram: NYE GAS COM NO. 1A Section 7, T-29-N, R-9-W, 2250 FSL & 1150 FWL		None
		DRG. NO.

44371  
1241-AJO DAP

NAVAJO DAM 12 M  
TURLEY CP M

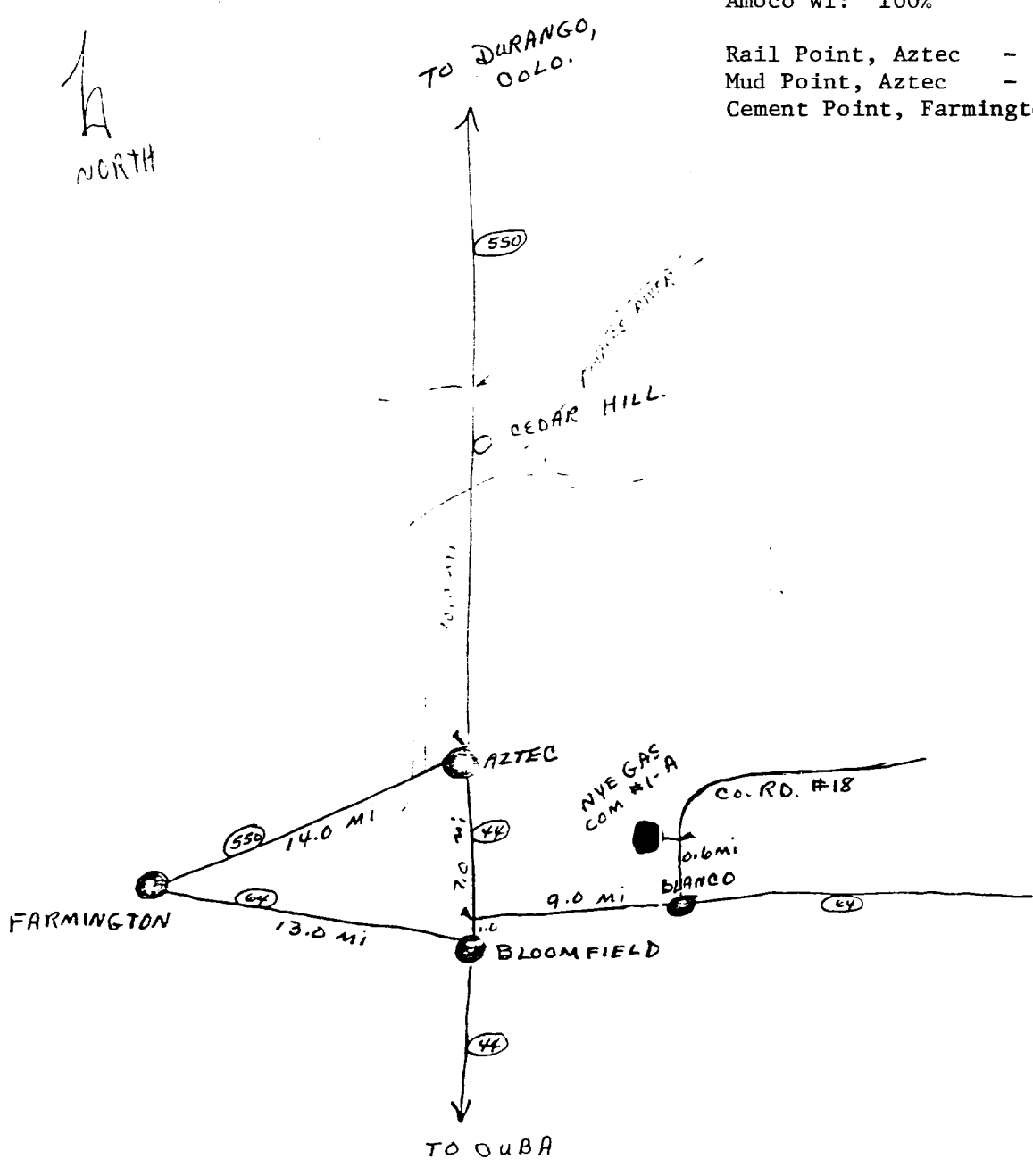




FARMINGTON AREA TRAFFIC SKETCH  
 DENVER DIVISION  
 Nye Gas Com No. 1-A  
 San Juan County, New Mexico  
 Amoco WI: 100%

- Rail Point, Aztec - 16.6 miles
- Mud Point, Aztec - 16.6 miles
- Cement Point, Farmington - 23.6 miles

7-19-77



AUG 12 1977

Amoco

Amoco Production Company

Petroleum Center Building  
501 Airport Drive  
Farmington, New Mexico 87401

1		
2		
3	WRG	WSD

WF

L. O. Speer, Jr.  
Area Superintendent

August 3, 1977

Mr. Orlando Rodriguez  
129 Malley Drive  
Mather Air Force Base, CA 95655

File: LOS-516-420

Dear Mr. Rodriguez:

Surface Restoration  
Nve Gas Com No. 1A

Amoco Production Company plans to drill a Mesaverde development well on your property in San Juan County, New Mexico. The location of this proposed well is 2250 feet from the South line and 1150 feet from the West line, of Section 7, T-29-N, R-9-W. The Mesaverde oil and gas rights at this location are included under a Federal Oil and Gas Lease.

This letter is to advise you of our intent to drill and reclamation plans. You or your representative will be contacted later regarding payment for surface damages. However, we do plan to offer compensation for damages in line with precedents set by other recent wells in the area. This letter is provided in accordance with the United States Geological Survey's Notice to Leasees and Operators of Federal and Indian Onshore Oil and Gas Leases (NTL-6). That directive requires that a copy of the agreement between the surface owner and well operator regarding the surface owner's rehabilitation requirements be included with the application for permit to drill.

The well will be drilled on currently unimproved acreage now covered by sagebrush and cedar trees. The drilling operations will require a 300' X 200' earthen graded drill site. No construction materials will be used for building the location; dirt will be leveled at the well site. Upon completion of drilling operations, the location will be cleaned up and leveled. Drilling mud and water will be hauled away and the reserve pit backfilled. Most of the area disturbed during drilling will be required for permanent production operations. The remaining area disturbed during drilling will be reseeded according to BLM seeding requirements. A copy of the BLM seeding plan is attached.

Page 2  
Mr. Rodriguez  
August 3, 1977

The plans outlined above are the plans generally required on Federal Oil and Gas Leases by the Bureau of Land Management. These procedures will be followed on the Nye Gas Com No. 1A, unless we are advised otherwise by you. If you are in agreement with these plans, please return one signed copy of this letter.

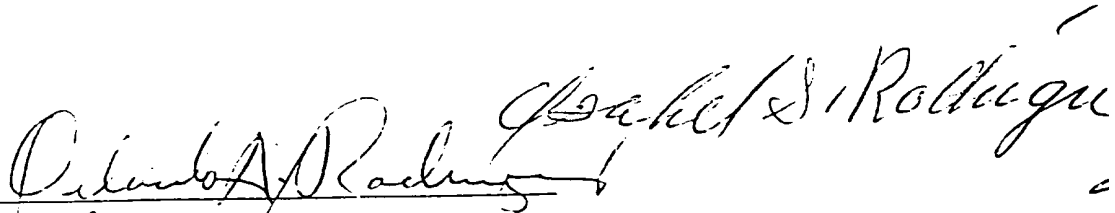
Yours very truly,



L. O. Speer, Jr.  
Area Superintendent

JLK/yr  
Attachment

APPROVED BY:



DATE:

7 Aug 1977

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

30-045-22700

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

**SV 076337**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

**Nye Gas Co**

9. WELL NO.

**1A**

10. FIELD AND POOL, OR WILDCAT

**Blanco Mesaverde**

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

**NE/4 SE/4 Section 7**

**T-29-N, R-9-W**

12. COUNTY OR PARISH 13. STATE

**San Juan**

**NM**

1. OIL ☐ WELL GAS ☐ WELL ☒ OTHER

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.\* See also space 17 below.)  
At surface

**2275' FSL x 1190' FWL, Section 7, T-29-N, R-9-W**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

**5628' GL**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON\* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other)

**Location Change** ☒

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The location for the above well has been re-sited from 2250' FSL x 1150' FWL, Section 7, T-29-N, R-9-W, to 2275' FSL x 1190' FWL, Section 7, T-29-N, R-9-W, as requested by the Bureau of Land Management on their approval of our Permit to Drill.

Attached is a revised Plat and vicinity Map.



OCT 20 1977

18. I hereby certify that the foregoing is true and correct

SIGNED

*J. L. Rumph*

TITLE **Area Engineer**

DATE **10/18/77**

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*Chal*

\*See Instructions on Reverse Side

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 17:** Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-61

All distances must be from the outer boundaries of the Section

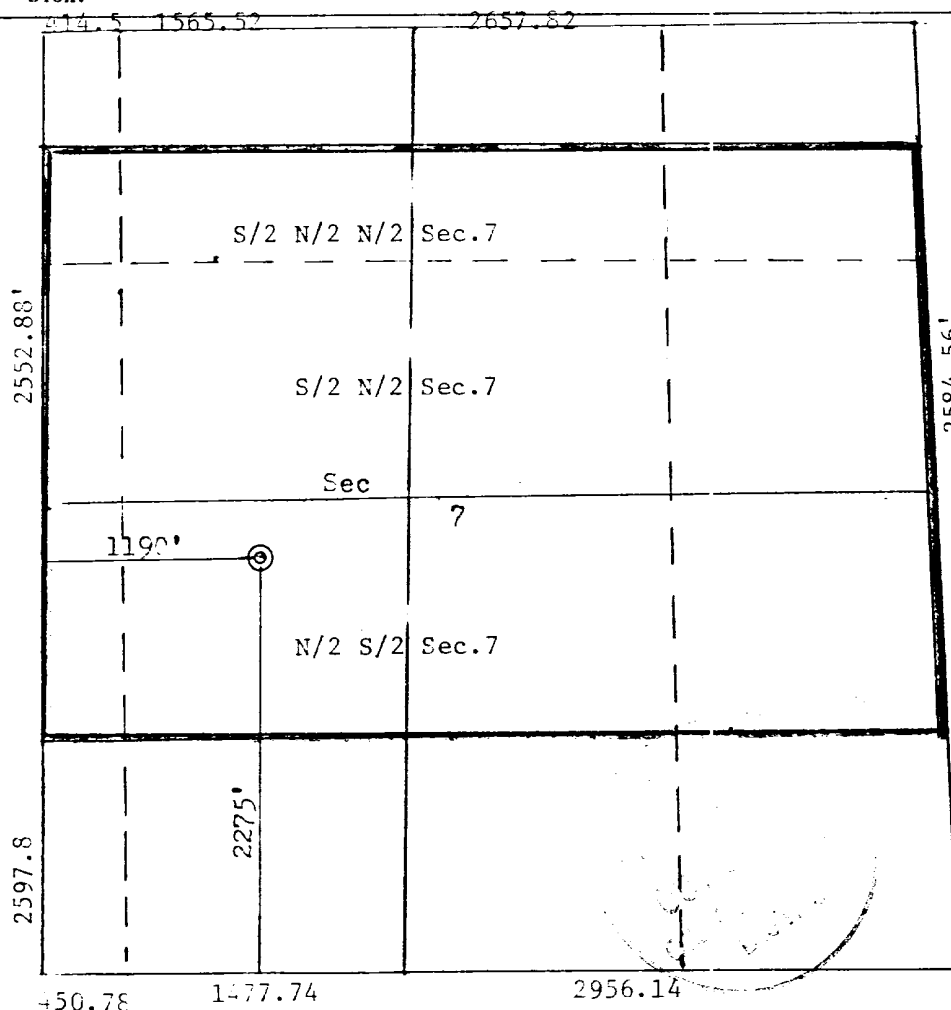
Operator <b>Amoco Production Company</b>			Lease <b>Nye Gas Com</b>		Well No. <b>1A</b>
Unit Letter <b>K</b>	Section <b>7</b>	Township <b>29N</b>	Range <b>9W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>2275</b> feet from the <b>South</b> line and <b>1190</b> feet from the <b>West</b> line					
Ground Level Elev. <b>5628</b>	Producing Formation <b>Mesa Verde</b>		Pool <b>Blanco Mesaverde</b>	Dedicated Acreage: <b>336.66</b> 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 \_\_\_\_\_

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.

Name  
**J. L. KRUPKA**

Position  
**AREA ENGINEER**

Company  
**AMOCO PRODUCTION COMPANY**

Date  
**OCTOBER 18, 1977**

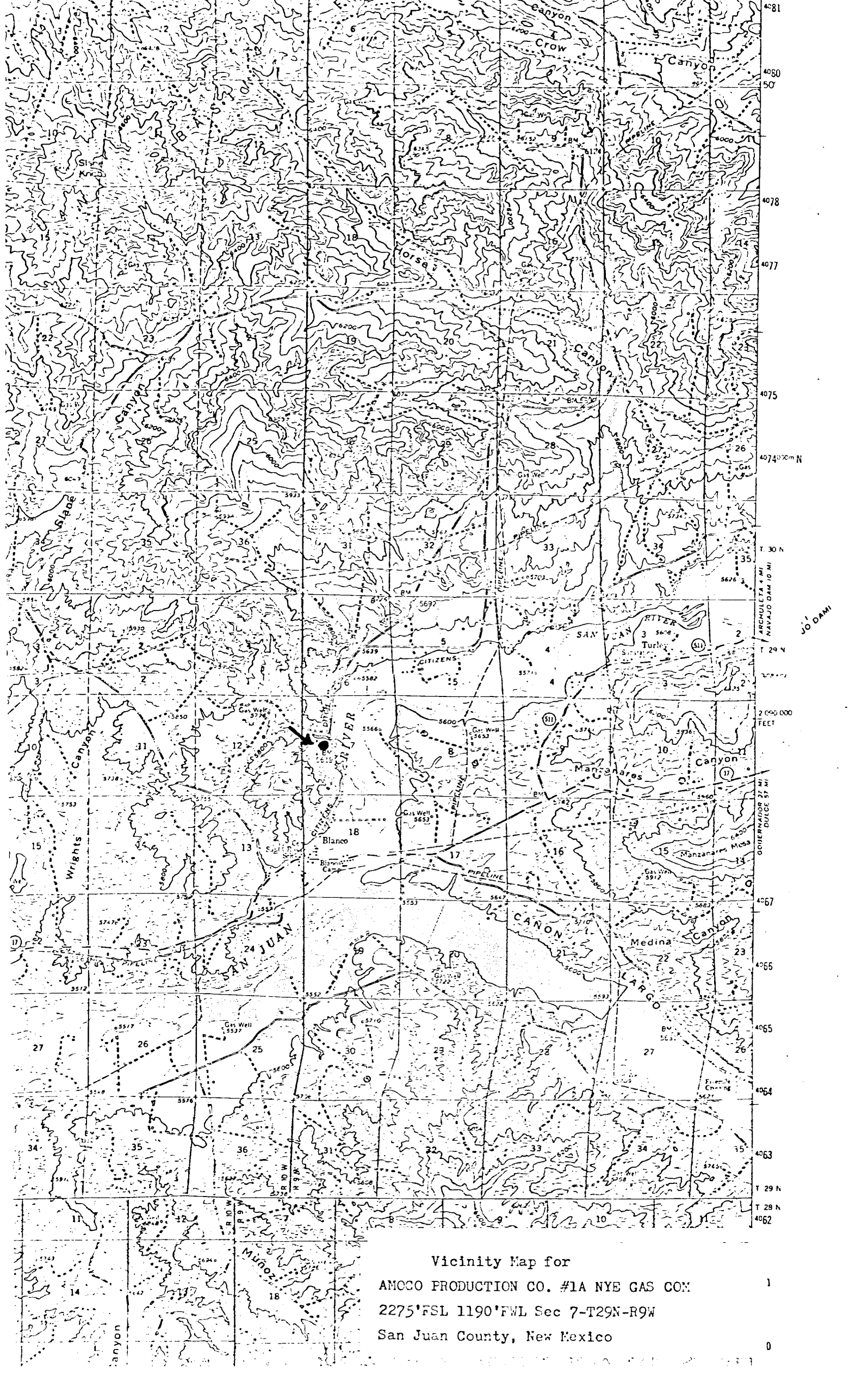
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**October 14, 1977**

Registered Professional Engineer and Land Surveyor  
**Fred E. Kerr Jr.**

Certificate No.  
**3050**





Vicinity Map for  
AMOCO PRODUCTION CO. #1A NYE GAS CON.  
2275' FSL 1190' FWL Sec 7-T29N-R9W  
San Juan County, New Mexico