

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF-078139	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, New Mexico 87401		8. FARM OR LEASE NAME Elliott Gas Com "X"	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1510' FSL & 795' FEL, Section 9, T-30-N, R-9-W At proposed prod. zone Same		9. WELL NO. 1	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 15 miles northeast of Aztec, New Mexico		10. FIELD AND POOL, OR WILDCAT Basin Dakota	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 795'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE/4 SE/4 Section 9 T-30-N, R-9-W	
16. NO. OF ACRES IN LEASE 2560.00		12. COUNTY OR PARISH San Juan	
17. NO. OF ACRES ASSIGNED TO THIS WELL 320		13. STATE New Mexico	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 600'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6106'		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"	9-5/8"	32.3#	250'	200 SX
8-3/4"	7"	28 #	3020'	675 SX
6-1/8"	4-1/2"	11.6#	7470'	900 SX

The above well is being drilled to further develop the Basin Dakota Field. The well will be drilled with a low solids non-dispersed mud system. Completion design will be based on open hole logs. Copy of all logs will be filed upon completion.

The gas from this well is dedicated to El Paso Natural Gas Co.

Additional information required by NTL-6 for the application to drill and a Multi-Point Surface Use Plan are attached.

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 [Signature] TITLE District Engineer DATE December 8, 1978

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

*ad Frank*

\*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-107  
Supersedes C-120  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

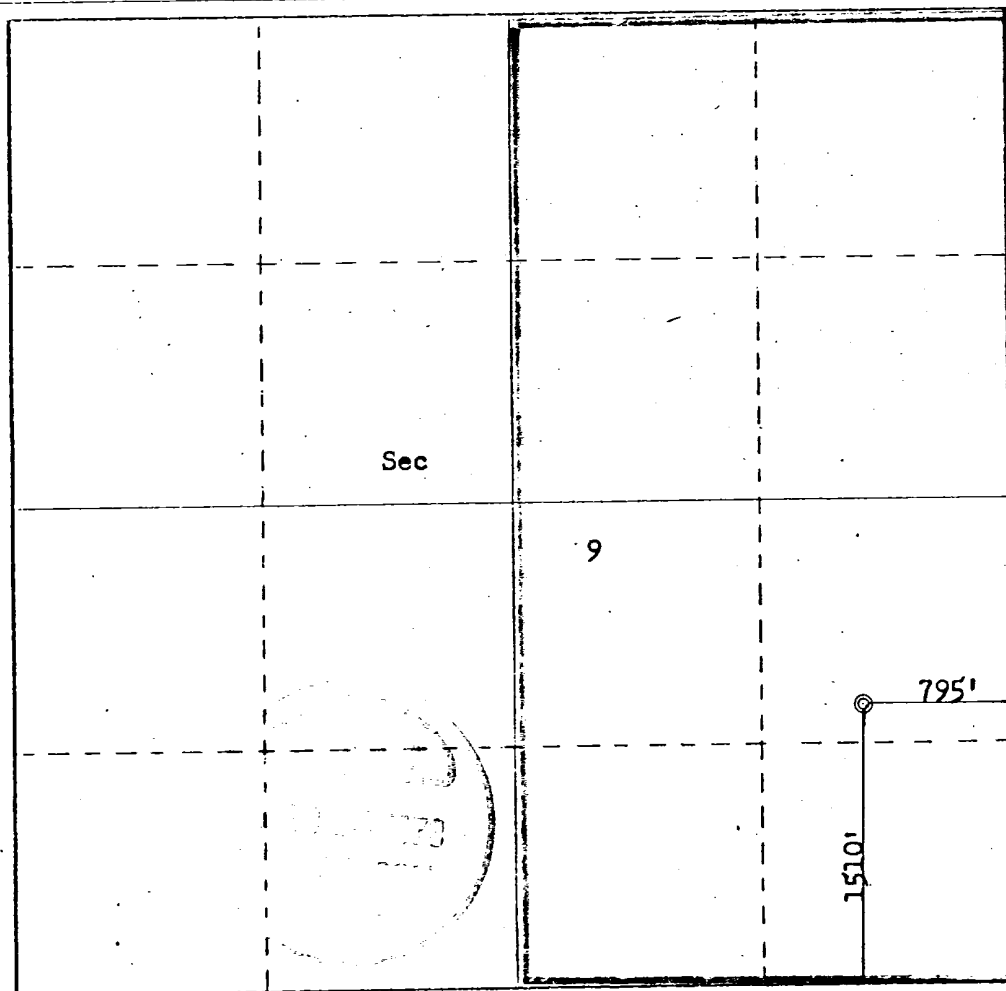
Operator <b>AMOCO PRODUCTION COMPANY</b>			Lease <b>ELLIOTT GAS COM "X"</b>		Well No. <b>1</b>
Tract Letter <b>I</b>	Section <b>9</b>	Township <b>30N</b>	Range <b>9W</b>	County <b>San Juan</b>	
Actual Footage Location of Well:					
<b>1510</b>	feet from the	<b>South</b>	Line and	<b>795</b>	feet from the <b>East</b> Line
Ground Level Elev. <b>6106</b>	Producing Formation <b>Dakota</b>		Pool <b>Basin Dakota</b>	Dedicated Acreage: <b>320</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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  
**DISTRICT ENGINEER**

Company  
**AMOCO PRODUCTION COMPANY**

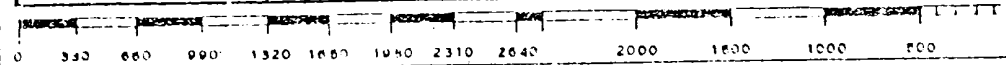
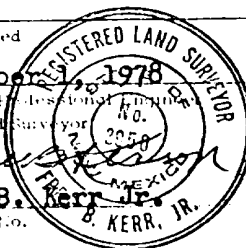
Date  
**DECEMBER 11, 1978**

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  
**December 11, 1978**

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

Certificate No.  
**3950**



SUPPLEMENTAL INFORMATION TO FORM 9-331C  
 REQUIRED BY NTL-6  
 ELLIOTT GAS COM "X" NO. 1  
 1510' FSL & 795' FEL SECTION 9, T-30-N, R-9-W  
 SAN JUAN COUNTY, NEW MEXICO

The geologic name of the surface formation is the Nacimiento.

The estimated tops of important geological formations bearing hydrocarbons are:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Pictured Cliffs	2819'	+3300'
Cliffhouse	4463'	+1656'
Menefee	4677'	+1442'
Point Lookout	5061'	+1058'
Mancos	5243'	+ 876'
G. Dakota	7119'	-1000'
M. Dakota	7219'	-1100'
TD	7470'	-1350'

Estimated KB elevation is 6119'.

The casing program to be used will include all new casing:

<u>EST. 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"	200 Class "B" 2% CaCl <sub>2</sub> .
3020'	7 "	28 #	8-3/4"	675 Class "B" 6% Gel, 2# Med. Tuf Plug/sx.
7470	4-1/2"	11.6#	6-1/8"	900 Class "B" Neat

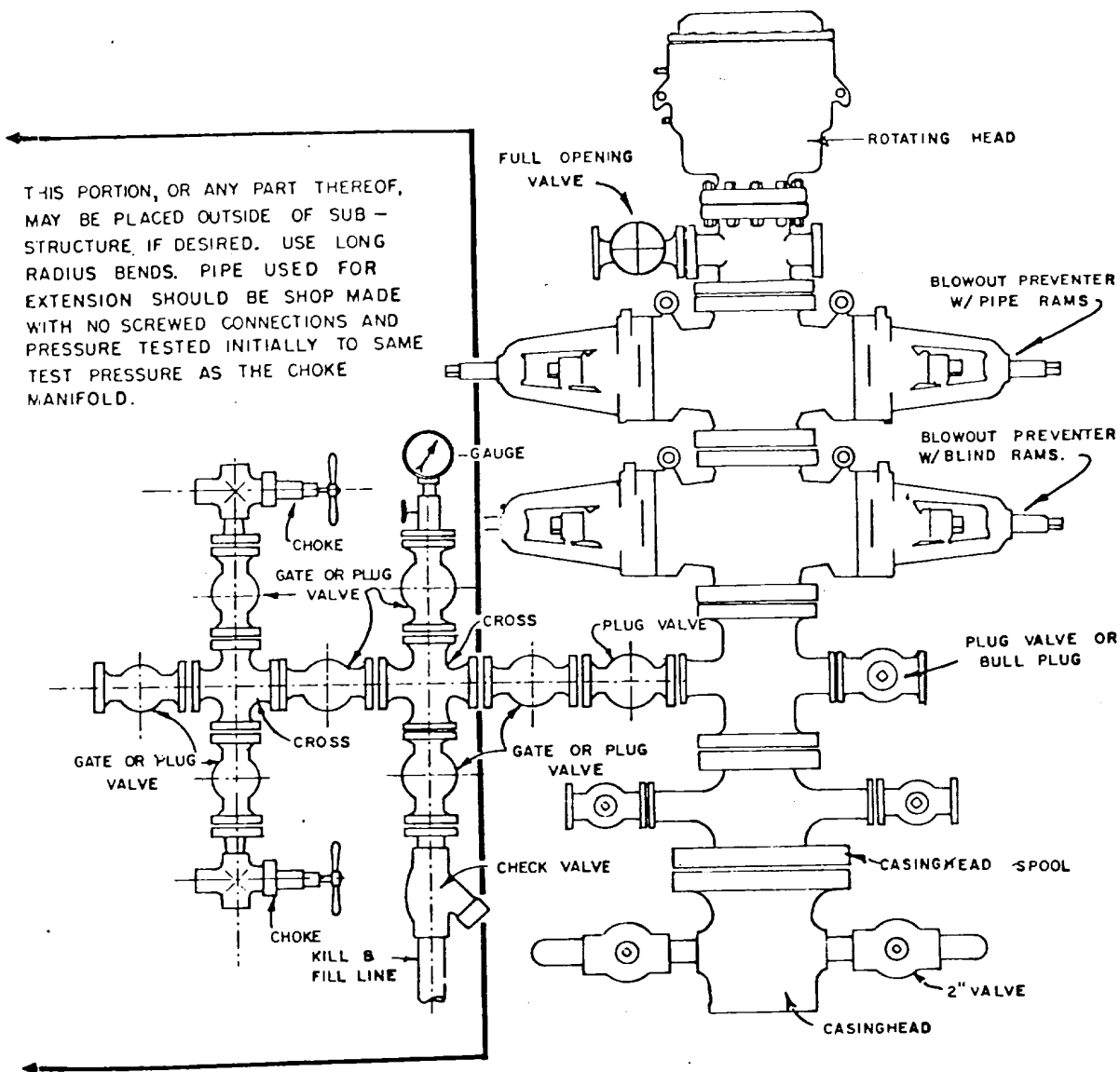
Amoco's standard blowout prevention will be employed; see attached drawing of our blowout preventer design.

Amoco will run an Induction Electric Survey from TD to surface and a Density-Gamma Ray Log from TD to 3020'. No cores or drill stem tests will be taken.

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

We will start operations as soon as well is permitted, and a three-week operation is anticipated.

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

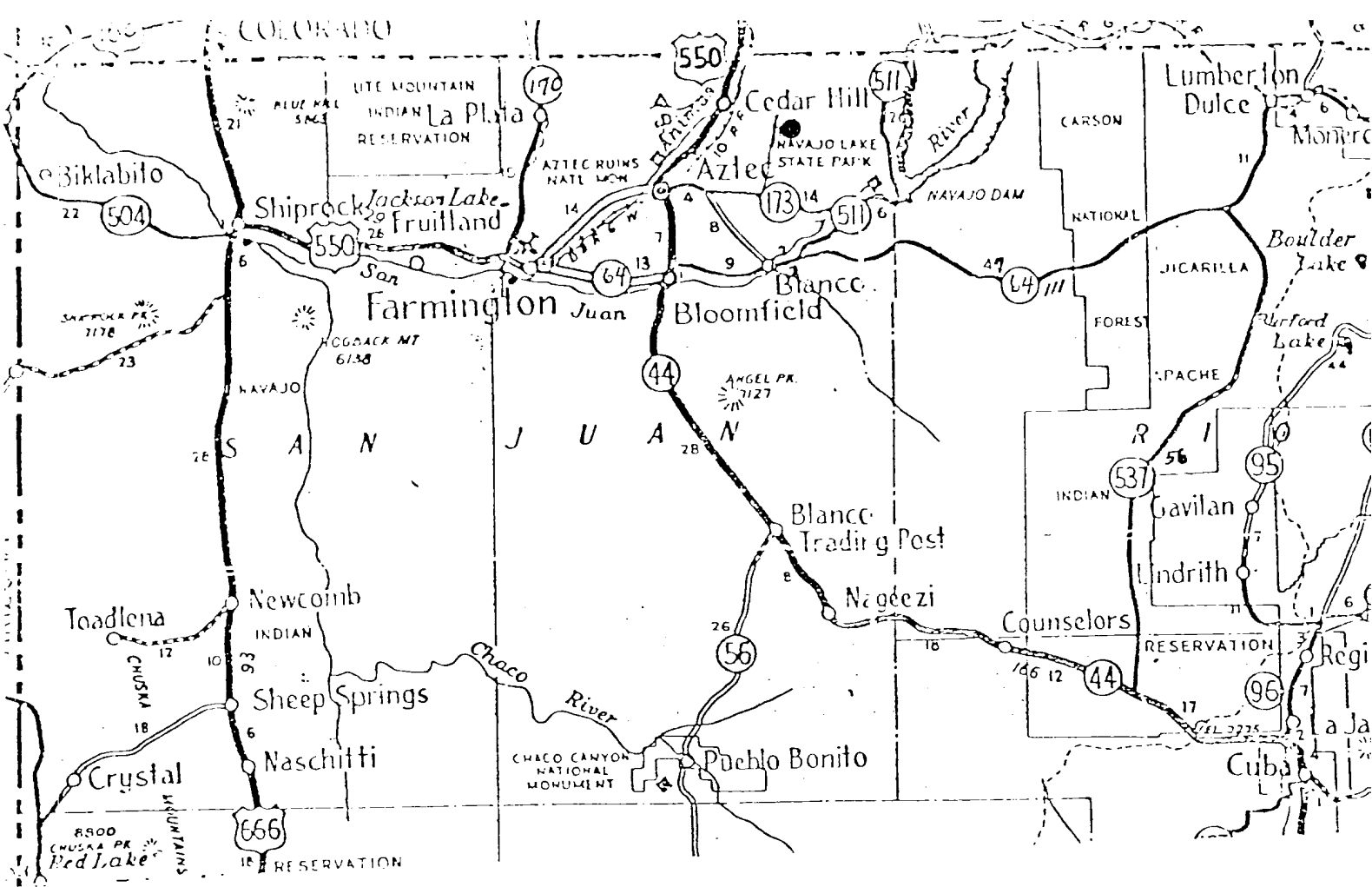
MULTI-POINT SURFACE USE PLAN

ELLIOTT GAS COM "X" NO. 1  
1510' FSL & 795' FEL, SECTION 9, T30N, R9W  
SAN JUAN COUNTY, NEW MEXICO

1. The attached road map and sketch show the proposed route to the location and distances from towns.
2. No new access road to be constructed. Existing road will be utilized.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
4. There are numerous, various sized tanks on nearby wells spotted on the vicinity map.
5. Water will be hauled from the Blanco irrigation ditch over existing roads a distance of approximately 10 miles.
6. No construction materials will be hauled in for this location.
7. A 100' X 100' pit will be built on location to hold all drilling waste; upon completion of well, all waste and liquid will be pumped out and fluids will be bladed into roads.
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 2-foot cut will be made on east side.
10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Drainage ditches will be built to handle run-off. Reseeding of the site will be carried out as detailed in the attached Seeding Plan.
11. The general topography is a gently sloping hill with sandy loam soil. Vegetation consists of sagebrush, native grasses and a few small cedar trees.

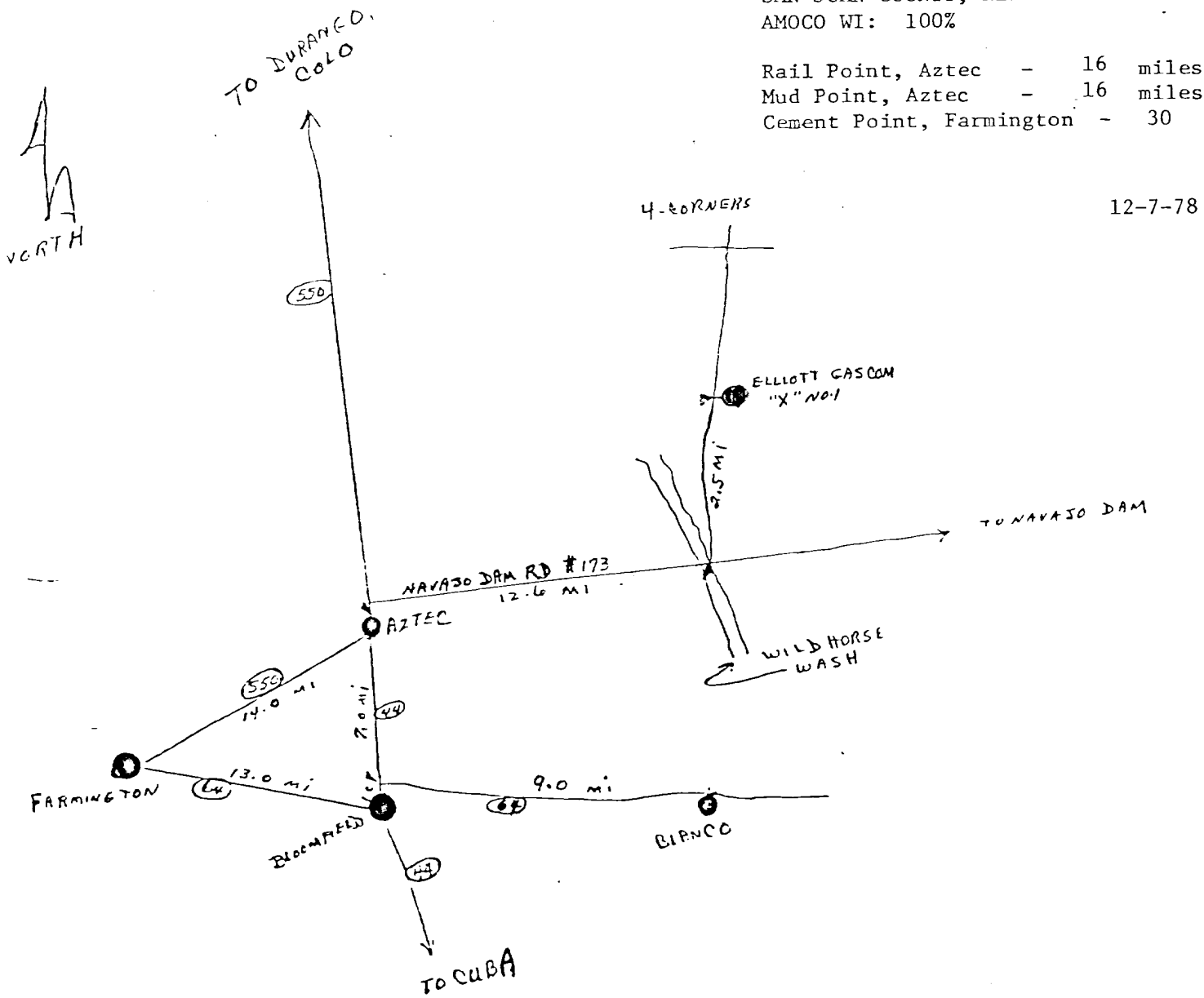
Representatives from the U. S. Geological Survey Farmington Office (Lee Freeman) and the Bureau of Land Management (Russ Pigors) inspected the site with Amoco personnel. Cultural resources inspection was conducted by Dabney Ford, an Archaeologist from San Juan College.

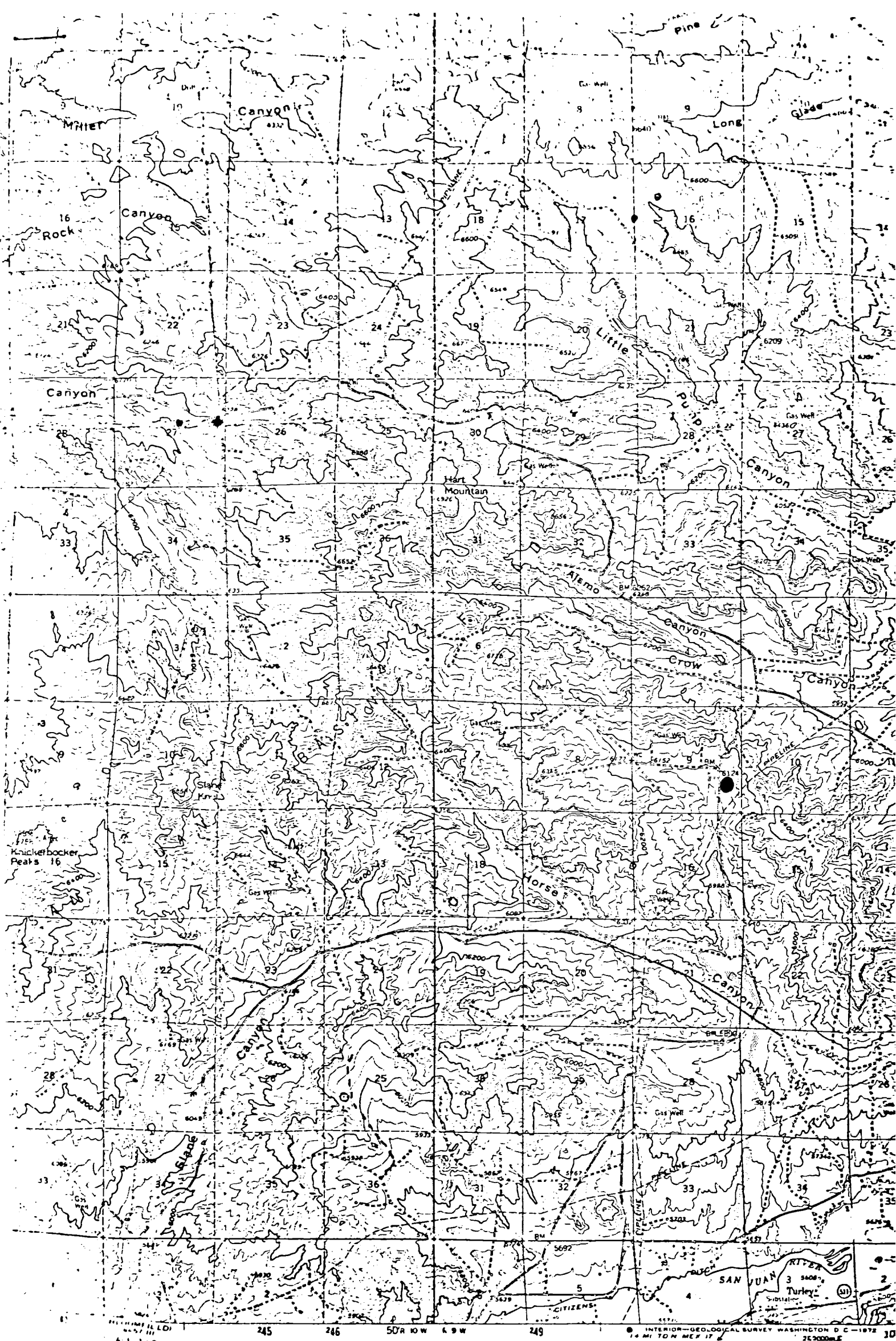
12. A Certification Statement by Amoco's representative is included.



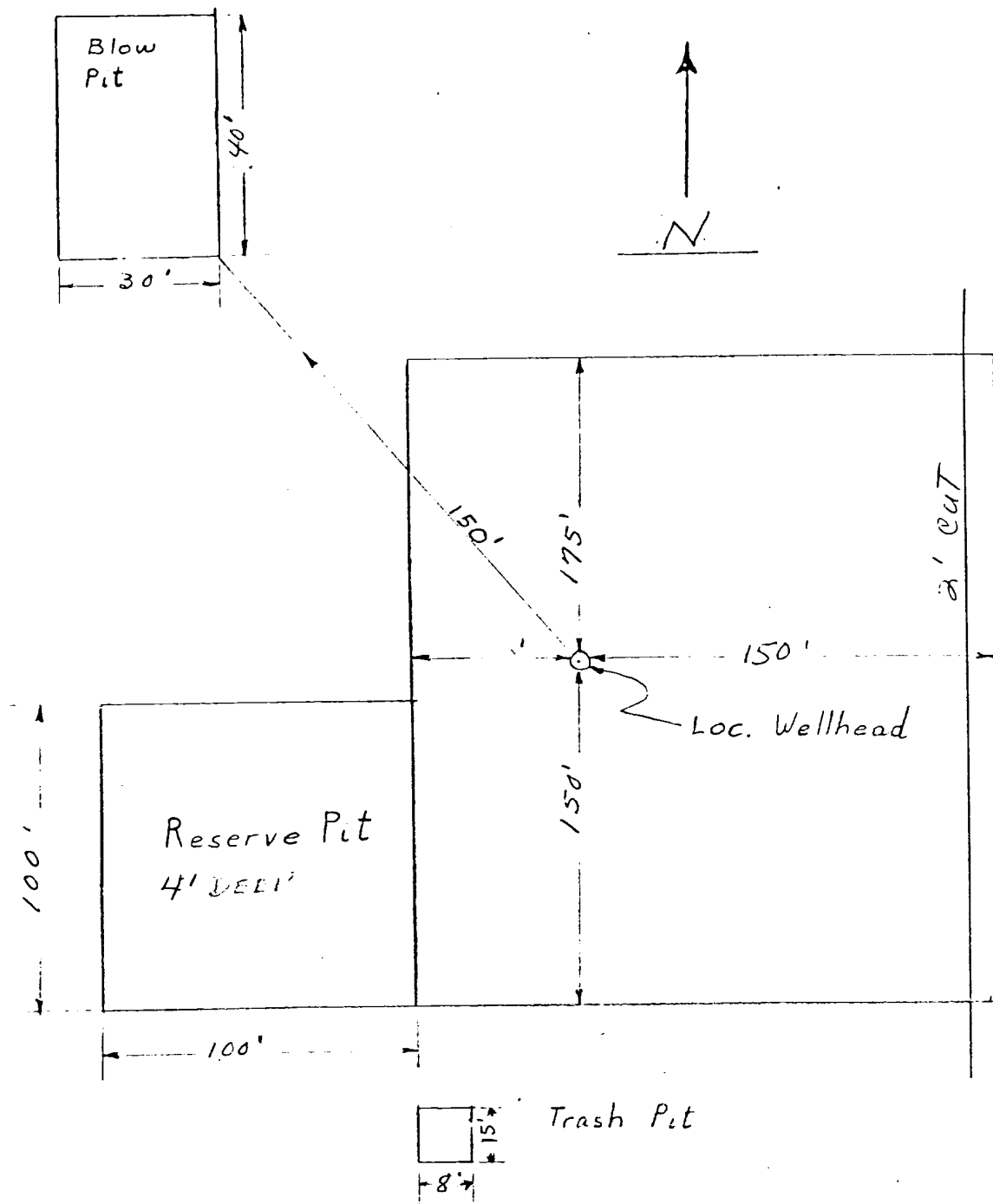
FARMINGTON AREA TRAFFIC SKETCH  
 DENVER DIVISION  
 ELLIOTT GAS COM "X" NO. 1  
 SAN JUAN COUNTY, NEW MEXICO  
 AMOCO WI: 100%

Rail Point, Aztec - 16 miles  
 Mud Point, Aztec - 16 miles  
 Cement Point, Farmington - 30 miles





Vicinity Map for  
 AMOCO PRODUCTION COMPANY #1 ELLIOTT GAS COM "X"  
 1510' FSL 795' FEL Sec 9-T30N-R9W  
 SAN JUAN COUNTY, NEW MEXICO



— APPROXIMATELY 1.2 Acres

Amoco Production Company	SCALE: NONE
DRILLING LOCATION SPECS ELLIOTT GAS COM "X" NO. 1	DRG. NO.



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 SALTBUH (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.

CERTIFICATION

  
Name and Title District Supt.

Amoco Production Company's Representative:

L. O. Speer, Jr.  
Phone: Office: 505-325-8841; Home: 505-325-3247  
Address: 501 Airport Drive  
Farmington, NM 87401