

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. SP 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 301 AIRPORT DRIVE, FARMINGTON, NM 87401		8. FARM OR LEASE NAME Elliott Gas Co. Y		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1570' FNL x 1055' FNL, 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* 15.6 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) 1055'	16. NO. OF ACRES IN LEASE 4.00	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 32 1/4 32 1/4 Section 9, T-30-N, R-9-W		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 700'	19. PROPOSED DEPTH 7620'	12. COUNTY OR PARISH San Juan		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6193' RT.		13. STATE New Mexico		
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
13-3/4	13-3/4	45.5#	250'	255 sz
9-7/8	7-5/8	26.4#	3100'	770 sz
6-3/4	4-1/2	11.6#	7620'	650 sz

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. Attached is a Development Plan required by RTL-6.

Gas produced from this well is dedicated to El Paso Natural Gas Company.

Our Notice of Intent to State this well was originally submitted under the name of E. E. Elliott Co. No. 1.

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 **2/16/58**

(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

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 O-101
Supersedes C-128
Effective 1-4-65

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

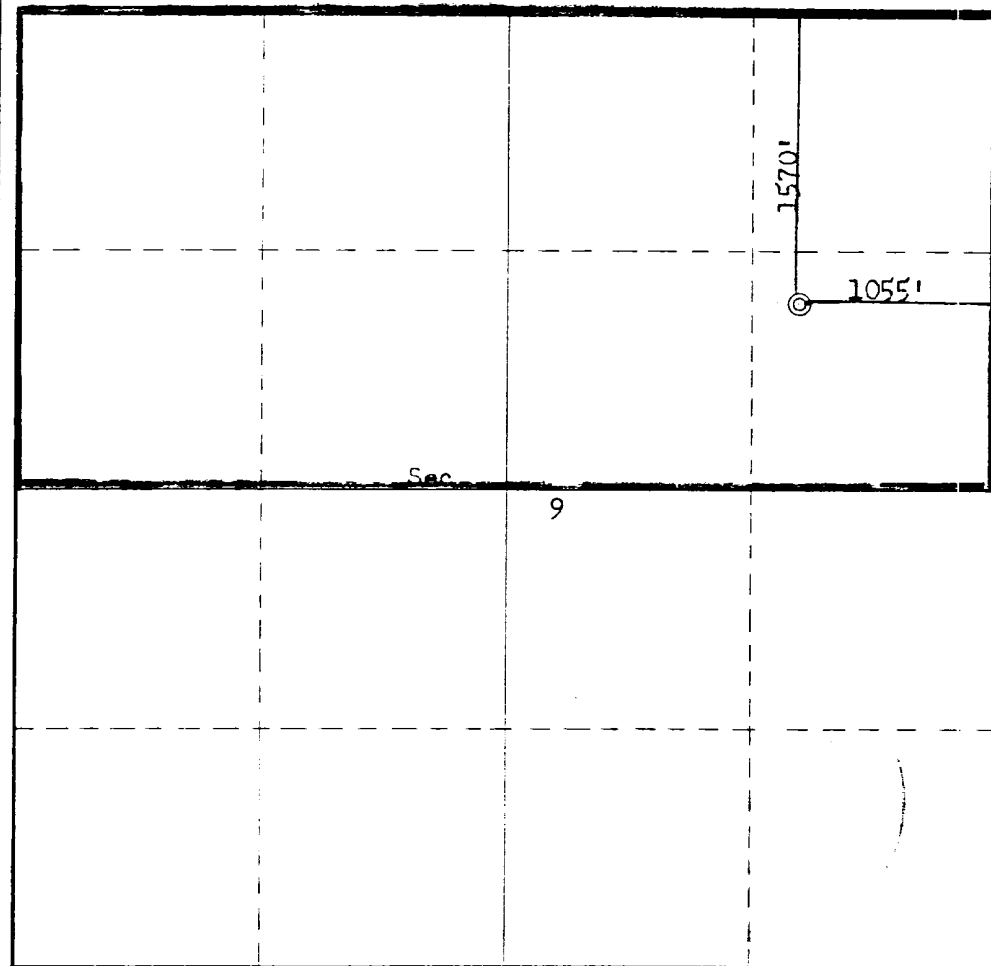
Operator Amoco Production Company			Lease Elliott Gas Com "V"		Well No. 1
Unit Letter H	Section 9	Township 30N	Range 9W	County San Juan	
Actual Footage Location of Well:					
1570		feet from the North	line and	1055	feet from the East line
Ground Level Elev. 6193	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage 320 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.

J. L. Krupka

Name
J. L. KRUPKA

Position
AREA ENGINEER

Company
AMOCO PRODUCTION COMPANY

Date
FEBRUARY 6, 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
February 1, 1978

Registered Professional Engineer
and/or Land Surveyor

Fred E. Kerr Jr.
Fred E. Kerr Jr.

Certificate No.

3950

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

ELLIOTT GAS COM "V" NO. 1
1570' FNL & 1055' FEL, SECTION 9, T-30-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 be 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.

February 15, 1978

Date



Area Supt.

Name and Title

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

DEVELOPMENT PLAN
ELLIOTT GAS COM "V" NO. 1
1570' FNL x 1055' FEL, SECTION 9, T-30-N, R-9-W
SAN JUAN COUNTY, NEW MEXICO

The proposed location has cedar and pinon trees, sagebrush and native grass, and the soil is sandy. The geological name of the surface formation is the Nacimiento. An access road of approximately 600' will be built and will require a 30' tin horn to be installed. No construction materials will be required to build the location. A 5' cut on the north side of location is required.

The water will be hauled to the location from the Blanco irrigation ditch approximately 10 miles. All drilling fluids will be contained in a pit and, upon completion of well, the contents will be hauled out and bladed into sandy roads. Upon completion the location will be cleaned, leveled, with drainage ditches on upper sides. The reserve pit will be backfilled. Attached is the BLM seeding plan to be followed for this well.

Drilling fluid to 3156' will be a low solids non-dispersed mud system, and from 3156' to TD will be drilled with gas.

There are no airstrips or camps in the vicinity.

The estimated tops of important geological formations are as follows:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Pictured Cliffs	2956'	3249'
Cliffhouse	4589'	1616'
Menefee	4806'	1399'
Point Lookout	5187'	1018'
Graneros Dakota	7210'	-1005'
Dakota (Main)	7315'	-1110'
TD	7620'	-1415'

Estimated KB Elevation 6206'.

<u>EST. DEPTH</u>	<u>CSG. SIZE</u>	<u>WEIGHT</u>	<u>HOLE SIZE</u>	<u>SACKS CEMENT</u>	<u>-</u>	<u>TYPE</u>
250'	10-3/4"	45.5#	13-3/4"	255	--	Regular (circulate 2% CaCl ₂).
3100'	7-5/8"	26.4#	9-7/8"	770	--	Class "A", 6% Gel, 2# Tuf Plug per sx.
7620'	4-1/2"	11.6#	6-3/4"	500	--	Class "A", 6% Gel, 2# Tuf Plug per sx.
				150	--	Class "A" Neat.

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

Amoco plans to run the following logs: from 3156' to 250', Induction Electric, Compensated Density-Gamma Ray, and Sidewall Neutron; from TD to 3156', Induction Electric, Compensated Density-Gamma Ray, and Sidewall Neutron. No cores or drill stem tests will be taken.

In the past, drilling in this area has shown that no abnormal pressures, 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.

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:

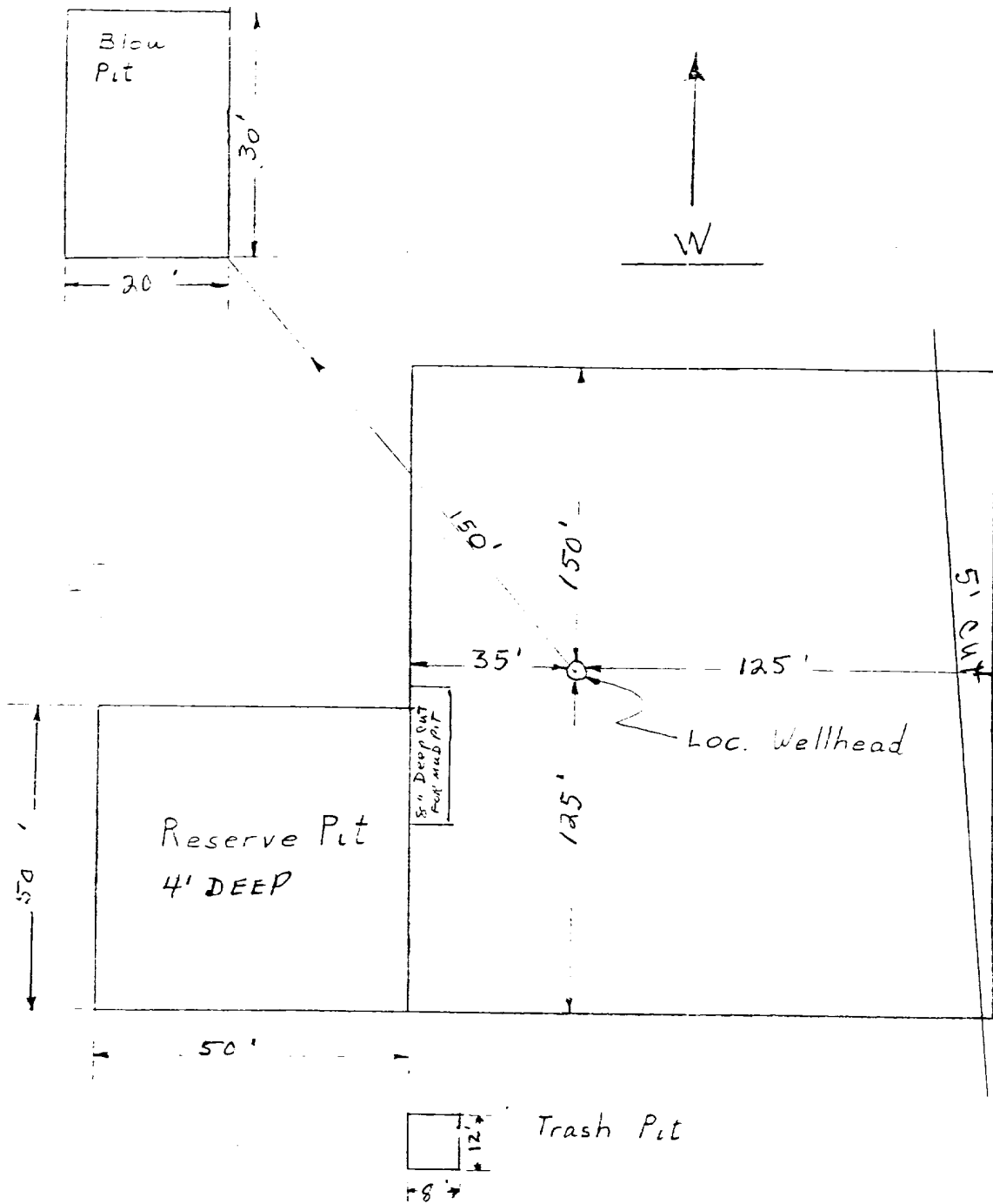
CRESTED WHEATGRASS (Agropyron desertorum) - 3½ lbs.

FOURWING SALTBUSH (dewinged) (Atriplex canescens) - ½ lb.

SAND DROPSEED (Sporobolus cryptandrus) - ¾ lb.

WINTERFAT (Eurotia lanata) - ½ lb.

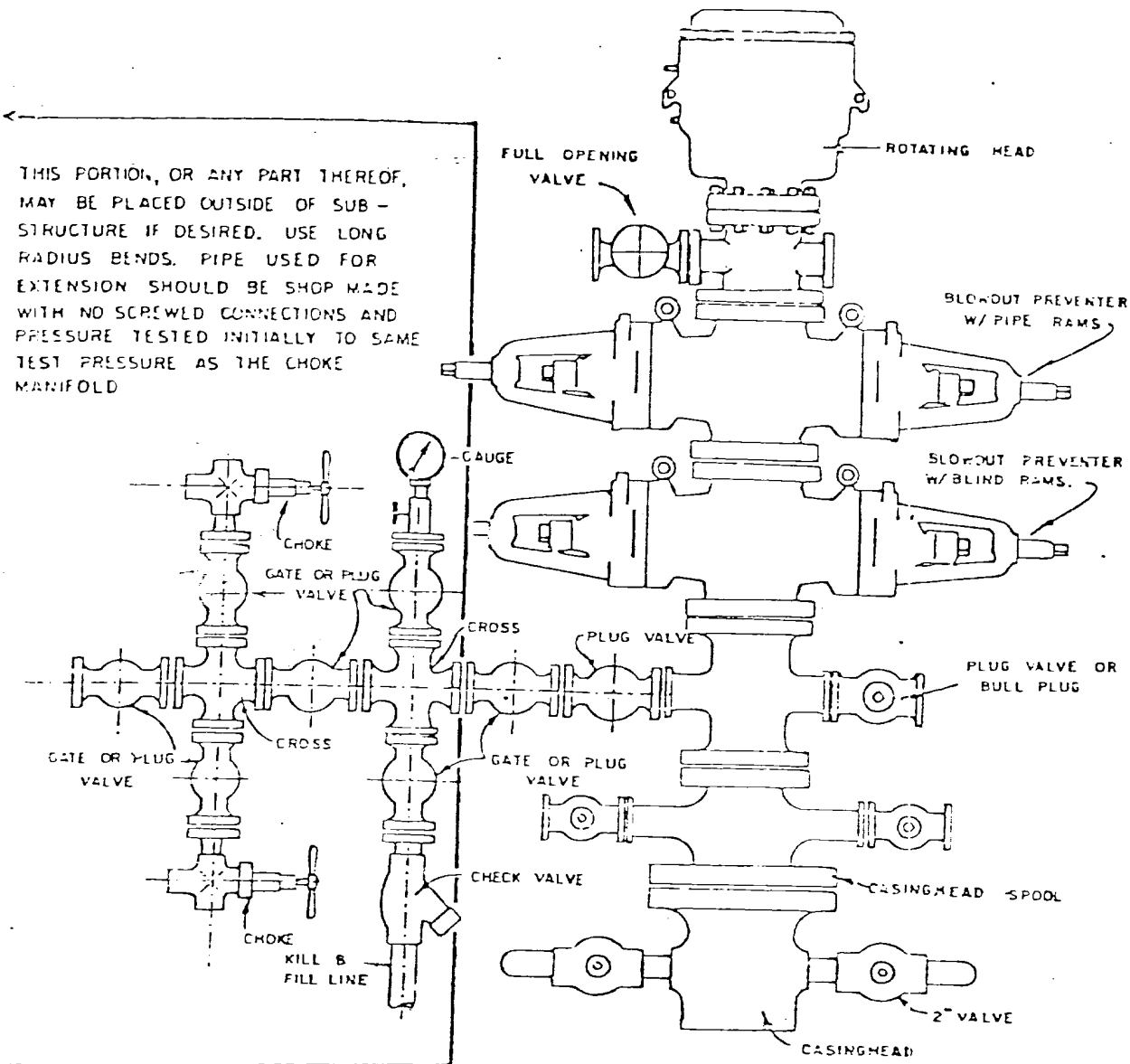
ALKALI SACATON (Sporobolus airoides) - ¾ lb.



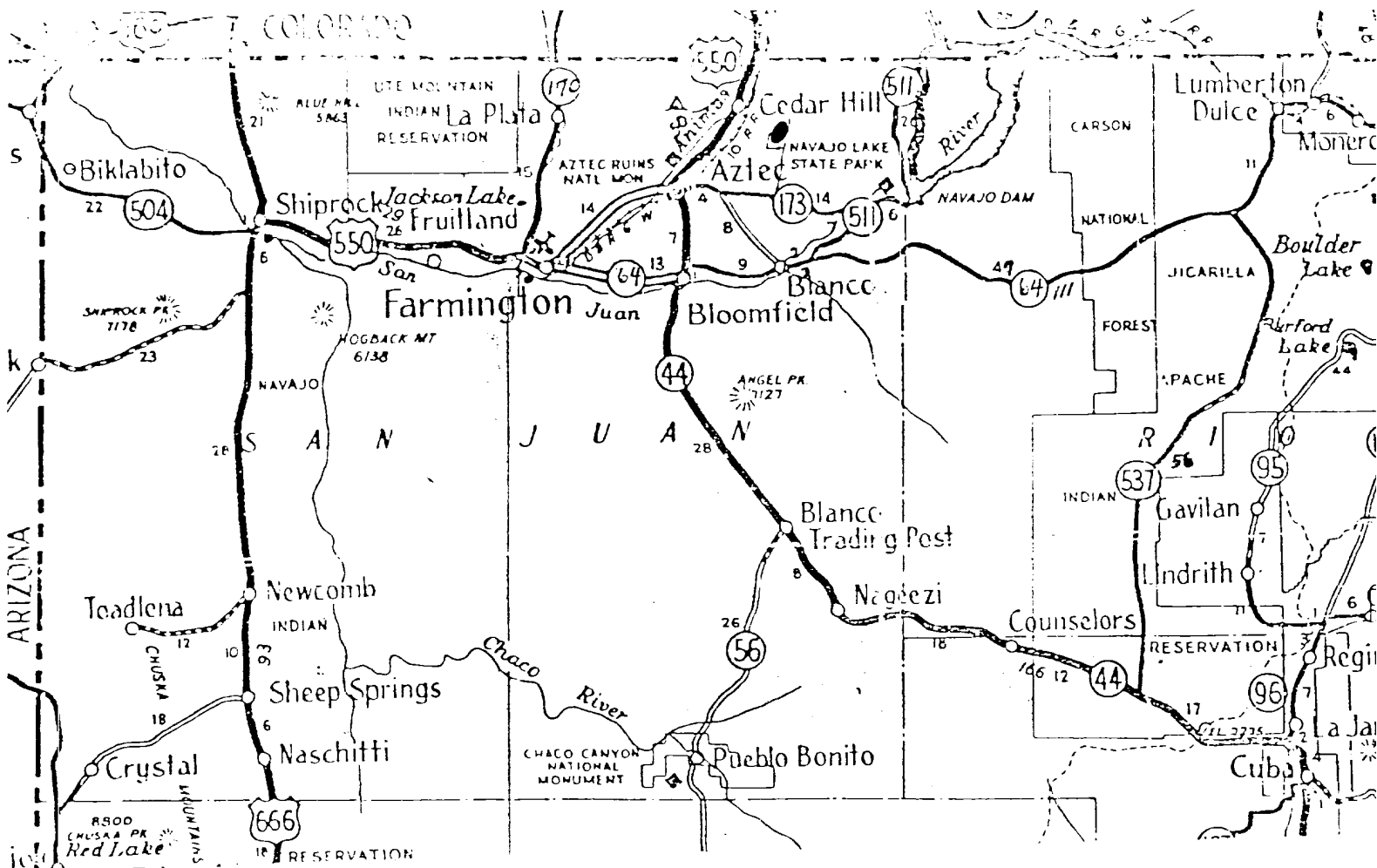
___ APPROXIMATELY 1.2 Acres

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

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



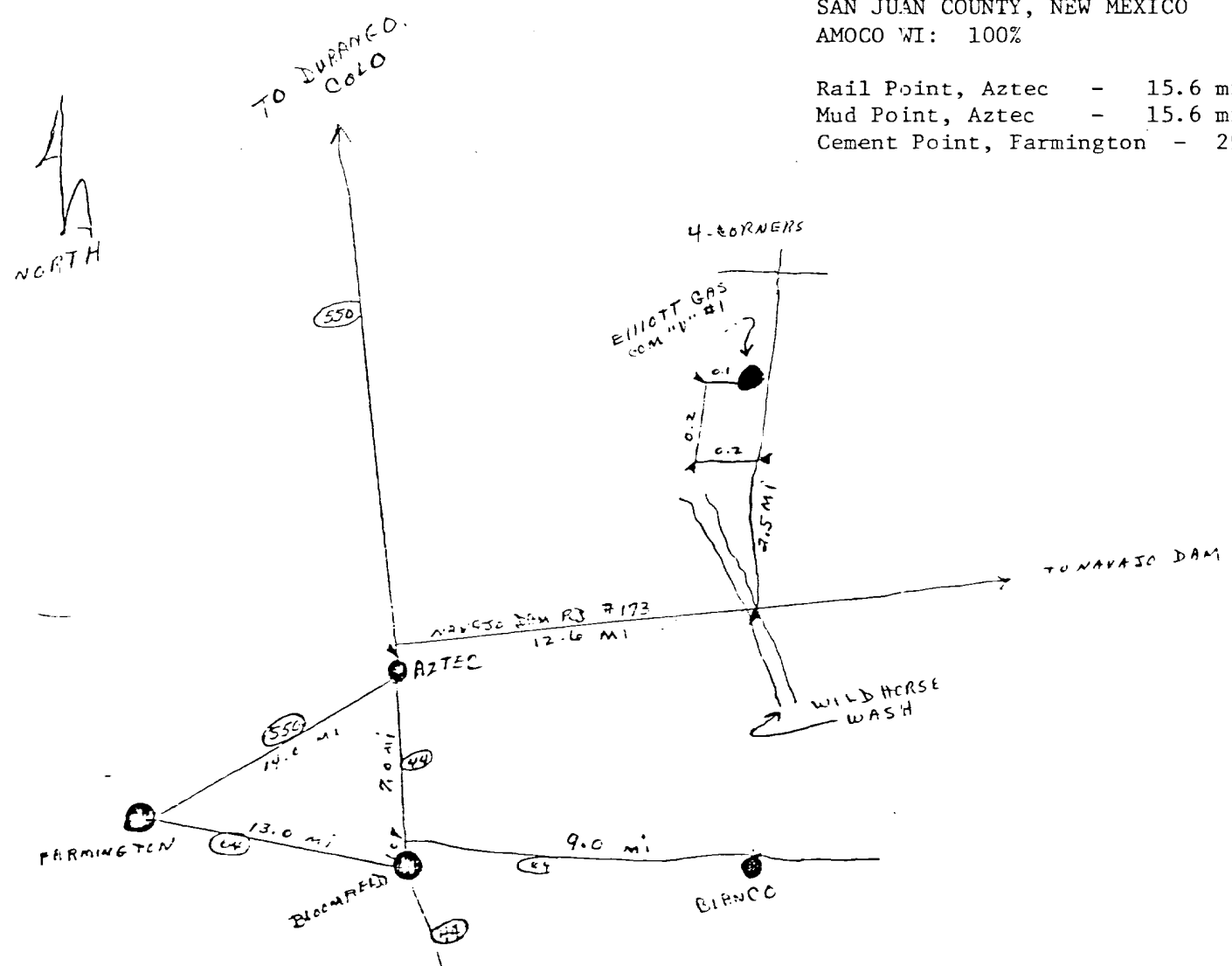
BLOWOUT PREVENTER HOOKUP

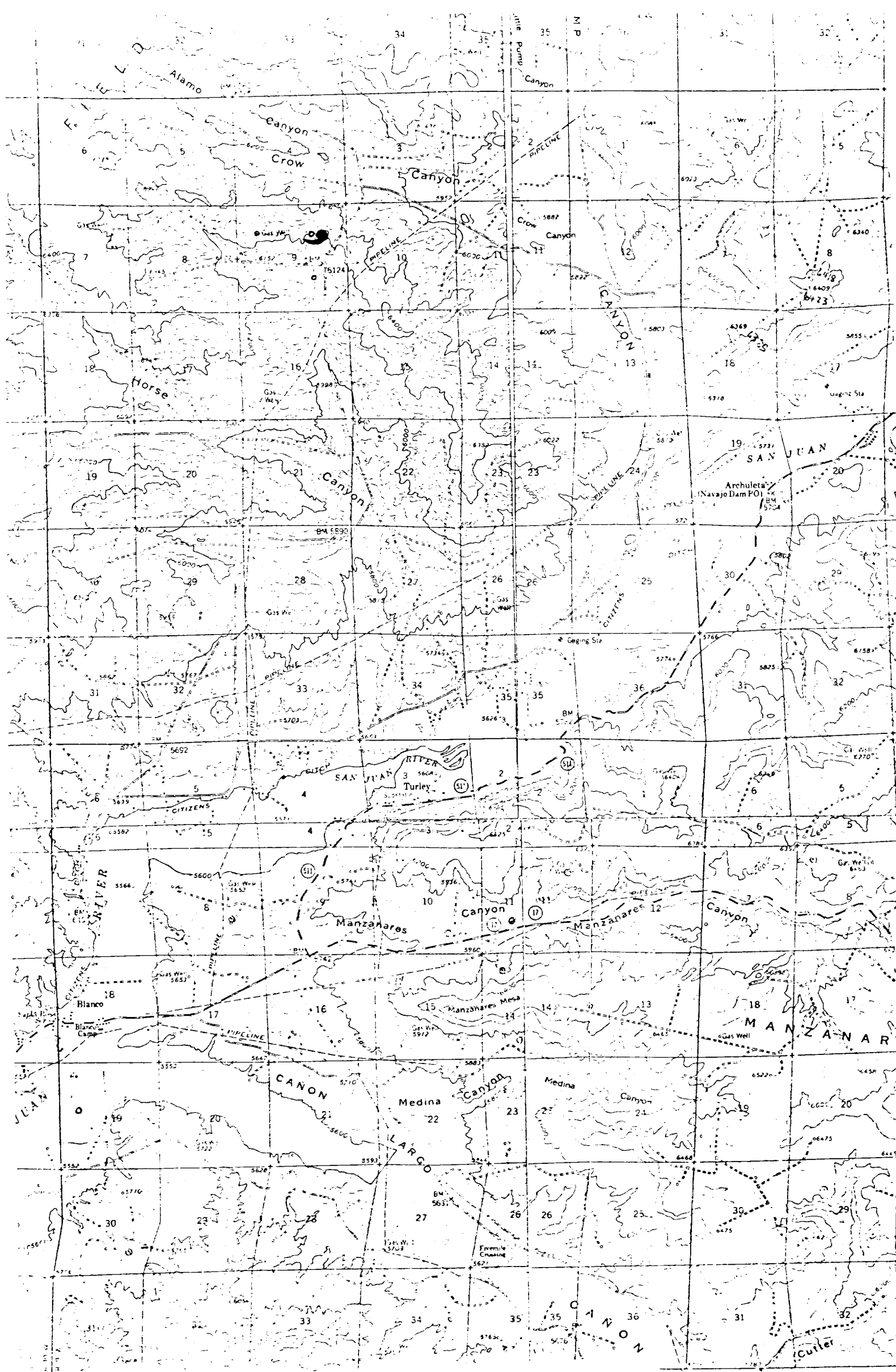


FARMINGTON AREA TRAFFIC SKETCH
 DENVER DIVISION
 ELLIOTT GAS COM "V" NO. 1
 SAN JUAN COUNTY, NEW MEXICO
 AMOCO WI: 100%

- Rail Point, Aztec - 15.6 miles
- Mud Point, Aztec - 15.6 miles
- Cement Point, Farmington - 29.6 miles

2-8-78





Vicinity Map for
AMOCO PRODUCTION CO. Elliott Gas Com "V" No. 1
15704ENL 1055/FEL Sec 9-T30N-R9W
San Juan County, New Mexico