

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, New Mexico 87401

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

At surface

370' FWL & 445' FWL, Section 5, T-31-N, R-10-W

At proposed prod. zone

Same

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

Approximately 1.4 miles northwest of Cedar Hill, New Mexico

15. DISTANCE FROM PROPOSED*

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

370' FWL

18. DISTANCE FROM PROPOSED LOCATION*

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

180'

16. NO. OF ACRES IN LEASE

40

19. PROPOSED DEPTH

3000'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160.12

20. ROTARY OR CABLE TOOLS

Rotary

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

6064' GL est.

22. APPROX. DATE WORK WILL START*

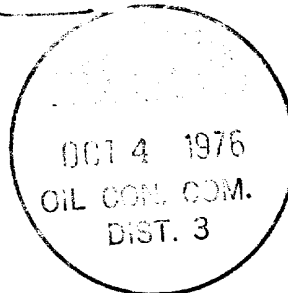
November, 1976

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"	24#	250'	175 sk
6-3/4"	4-1/2"	9.5#	3000'	400 sk

Amoco Production Company proposes to drill the above well to develop the Blanco Pictured Cliffs more thoroughly. The well will be drilled thru the Pictured Cliffs formation using rotary tools and drilling mud. Completion design will be based on open hole logs. A diagram and acreage plat are attached. A copy of all logs will be filed with your office on completion. The acreage is not dedicated to a gas sales contract.



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

September 27, 1976

(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 C-102
Superseded C-128
Effective 1-1-65

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

Operator Amoco Production Company			Lease McEwen Gas Com "B"		Well No. 1
Unit Letter D	Section 5	Township 31N	Range 10W	County San Juan	

Actual Footage Location of Well:

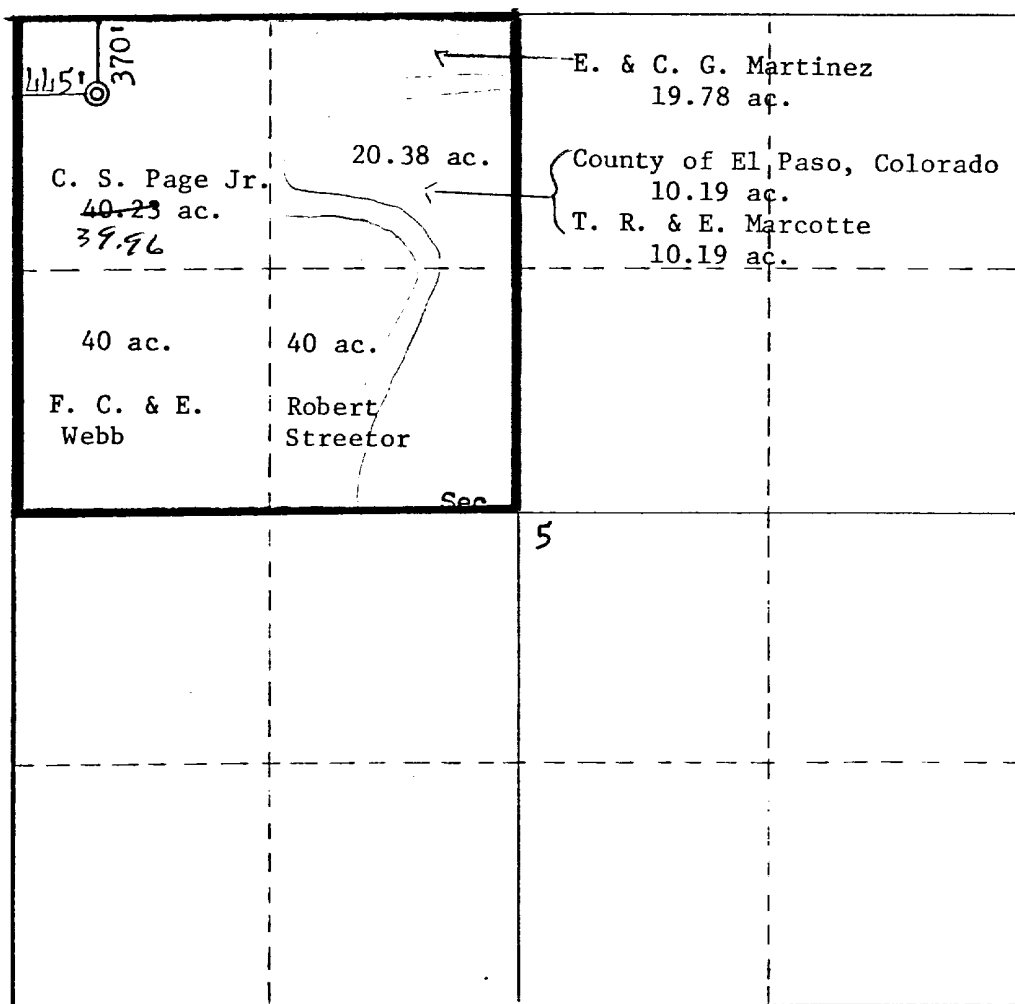
370	feet from the North	line and 445	feet from the West	line
Ground Level Elev. 6064 est.	Producing Formation Pictured Cliffs	Pool Blanco Pictured Cliffs	Dedicated Acreage: 160.12	Acres

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
H. D. Montgomery

Position
Area Engineer

Company
AMOCO PRODUCTION COMPANY

Date
September 27, 1976

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
September 15, 1976

Registered Professional Engineer and/or Land Surveyor

Fred B. 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

DEVELOPMENT PLAN
MCEWEN GAS COM "B" NO. 1
370' FNL & 445' FWL, SECTION 5, T-31-N, R-10-W
SAN JUAN COUNTY, NEW MEXICO

The McEwen Gas Com "B" No. 1 is a development well for the Blanco Pictured Cliffs Field. It will be drilled from a ground level of 6064' to a TD of 3064'. The surface formation is the Nacimiento. Approximately 250 feet of new road will be built to the location thru sagebrush and small trees.

This well will be drilled using native mud from surface to 250', 8.8 - 9.0 lbs./gal., low solids, non-dispersed mud from 250-2100' and 11 lbs./gal. low solids, non-dispersed mud from 2100-3000'. Upon completion the location will be cleaned up, leveled and the reserve pit backfilled. Attached is the BLM Seeding Plan to be followed upon completion of this well.

The estimated tops of important formations are as follows:

<u>Formation</u>	<u>Depth</u>	<u>Elevation</u>
Kirtland	1750'	+4270'
Fruitland	2100'	+3920'
Pictured Cliffs	2795'	+3225'

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

<u>Est. Depth</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Hole Size</u>	<u>Sx Cmt & Type Cement</u>
250'	8-5/8"	24#	K-55	12-1/4"	175 - Class "B" x 2% CaCl ₂ .
3000'	4-1/2"	9.5#	K-55	6-3/4"	400 - Class "B". (300 - 2% Gel, 2# Med. Tuf Plug. 100 - Neat.)

Amoco's standard blowout preventer will be employed. See attached drawing for blowout preventer design.

Amoco will run an Induction Electric Survey from TD to 250' and a Density-Gamma Ray from TD to 1500'. No cores or drillstem tests will be taken.

From our drilling experience in the area we anticipate encountering a BHP of 1250 lbs. in the Fruitland. The drilling mud weight will be raised sufficiently to control the high pressure gas.

We anticipate a drilling program of 3 weeks, beginning in November, 1976.

MCEWEN GAS COM "B" NO. 1
370' FNL & 445' FWL, SECTION 5, T-31-N, R-10-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.

September 28, 1976
Date

Leo. J. ... Area Supt.
Name and Title

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) - $3\frac{1}{2}$ lbs.

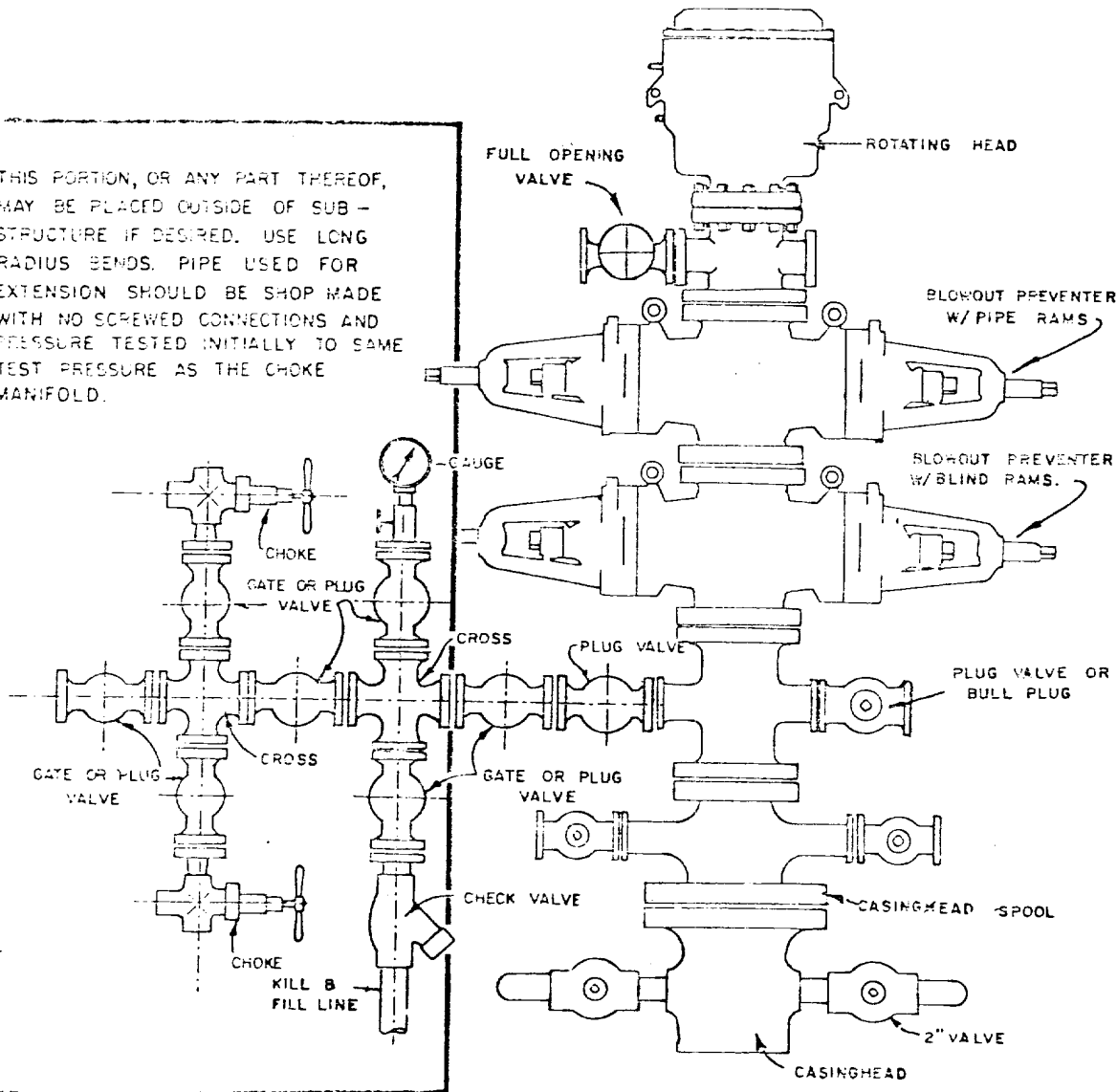
FOURWING SALTBUSH (dewinged) (Atriplex canescens) - $\frac{1}{2}$ lb.

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

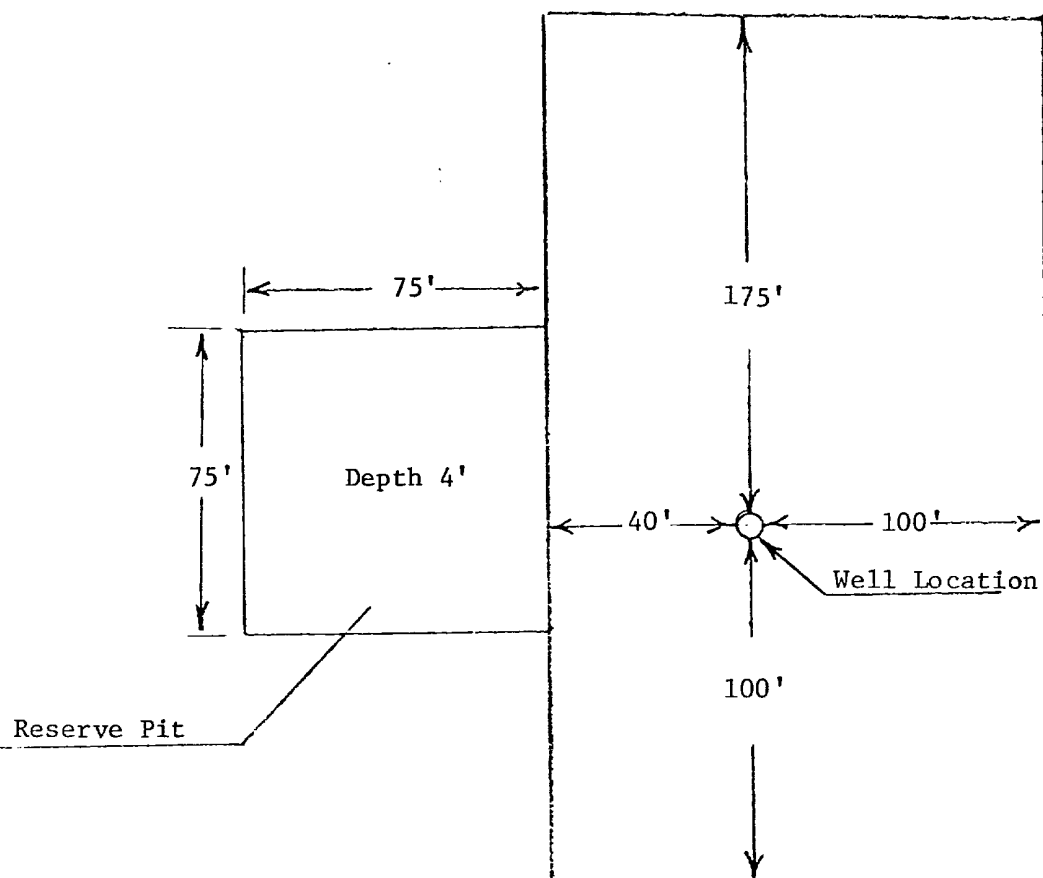
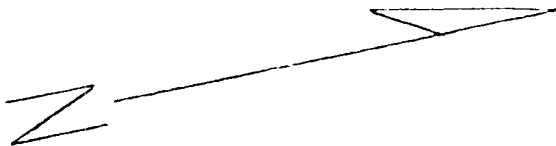
WINTERFAT (Eurotia lanata) - $\frac{1}{2}$ lb.

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

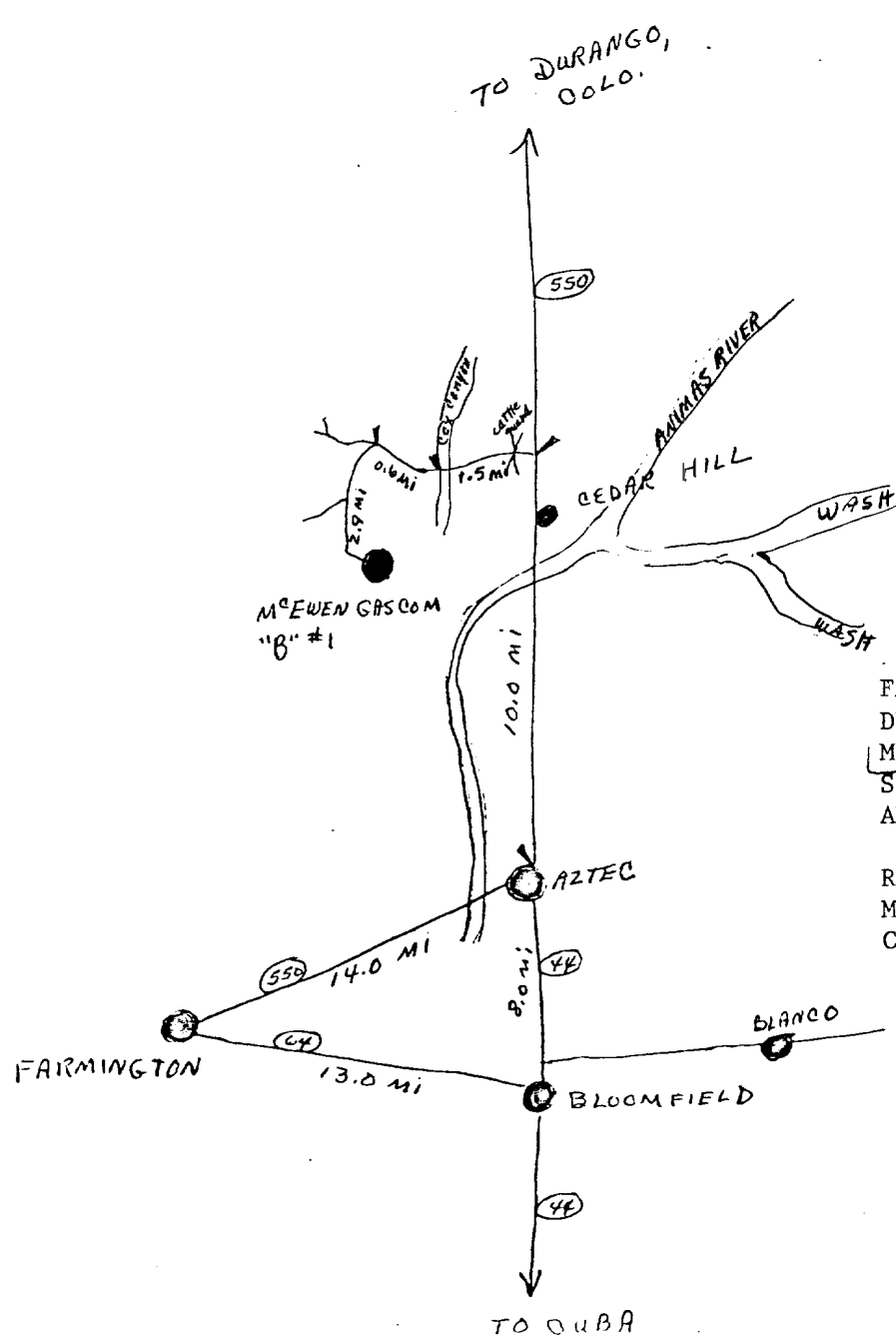
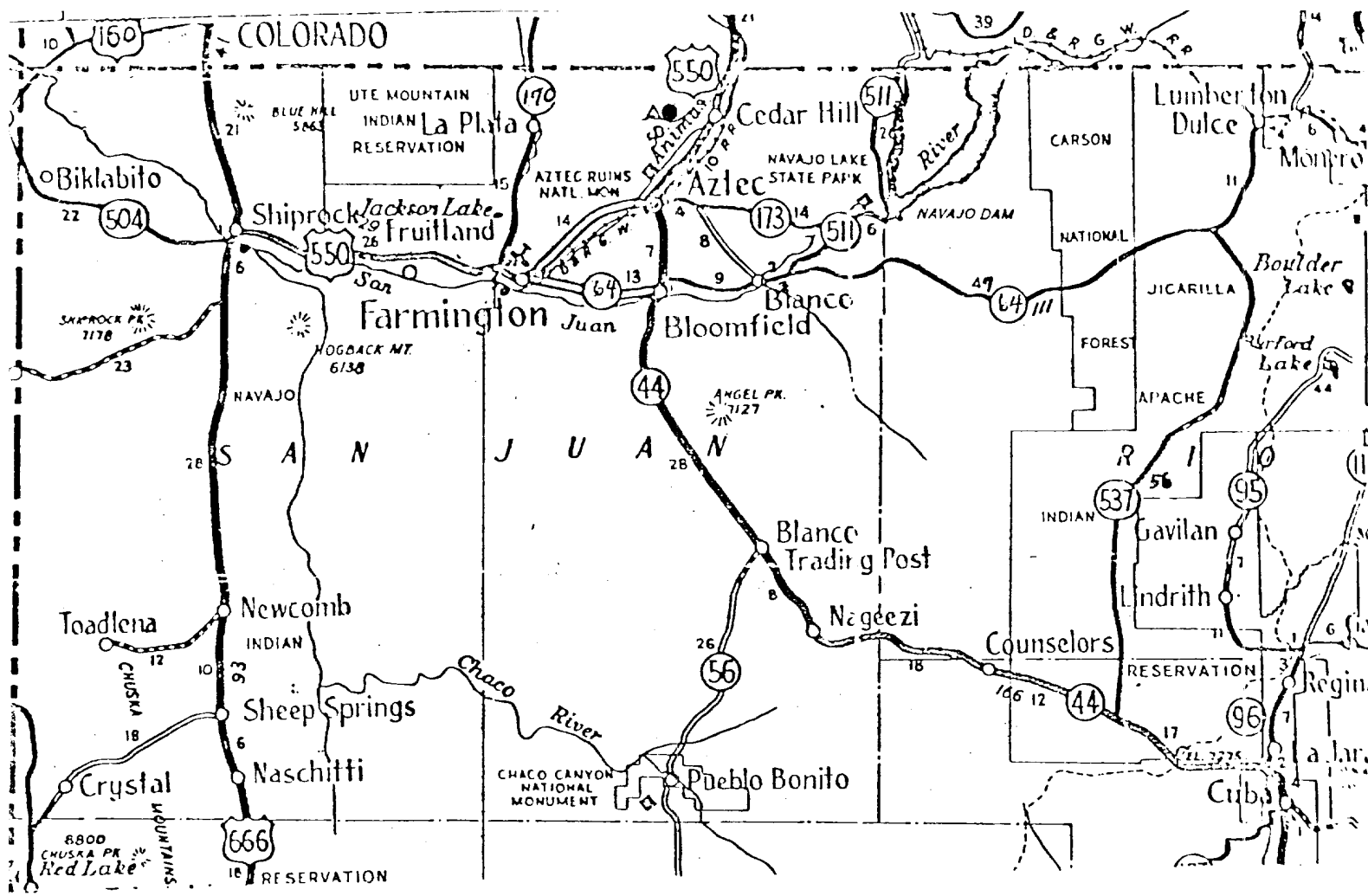
THIS PORTION, OR ANY PART THEREOF, MAY BE PLACED OUTSIDE OF SUB-STRUCTURE IF DESIRED. USE LONG RADIUS BENDS. PIPE USED FOR EXTENSION SHOULD BE SHOP MADE WITH NO SCREWED CONNECTIONS AND PRESSURE TESTED INITIALLY TO SAME TEST PRESSURE AS THE CHOKE MANIFOLD.



BLOWOUT PREVENTER HOOKUP



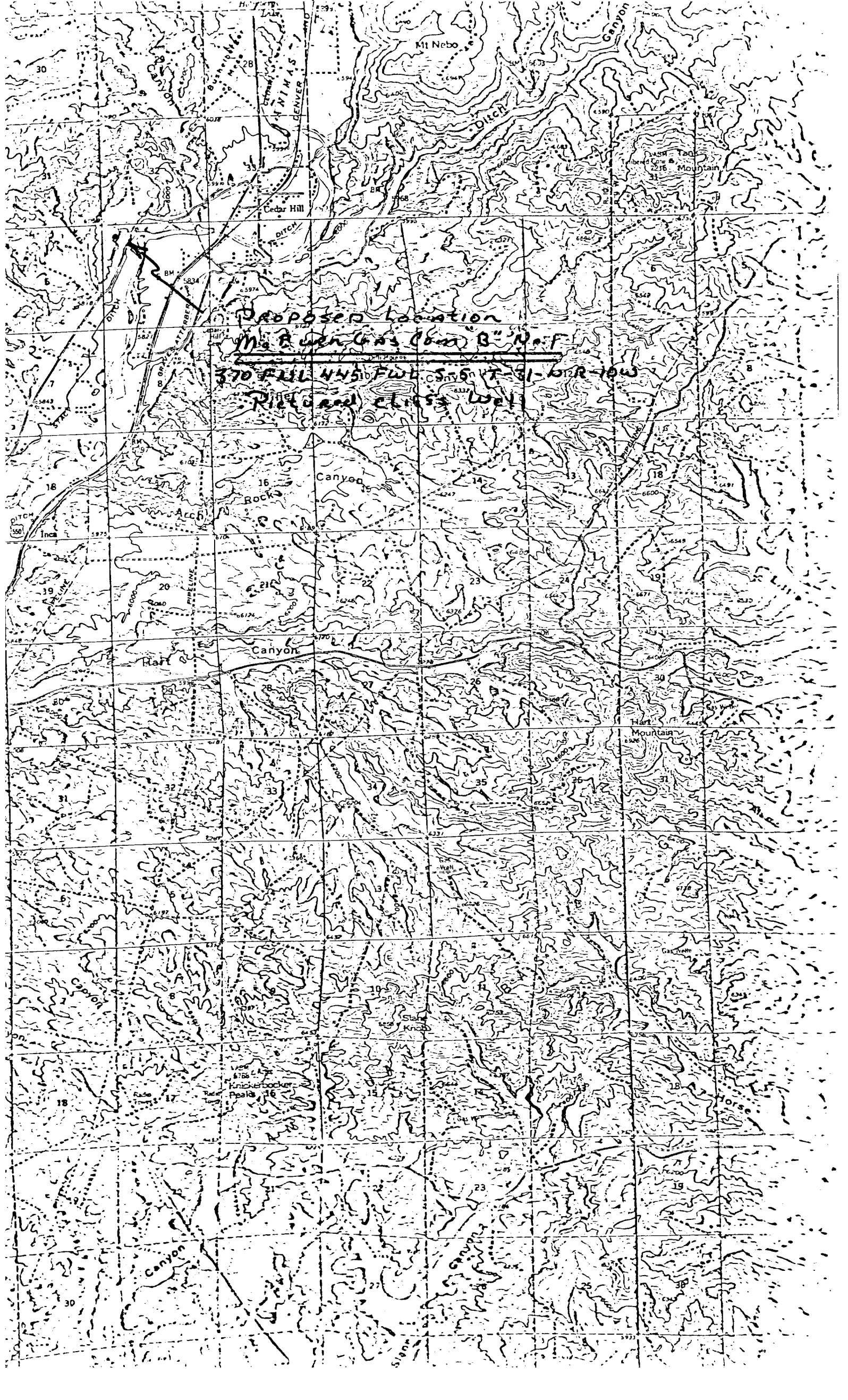
Amoco Production Company	SCALE: None
MCEWEN GAS COM "B" NO. 1	
370' FNL & 445' FWL, SECTION 5, T-31-N, R-10-W	DRG. NO. 9-22-76
SAN JUAN COUNTY, NEW MEXICO	



FARMINGTON AREA TRAFFIC SKETCH
 DENVER DIVISION
 McEwen Gas Com "B" Well No. 1
 San Juan County, New Mexico
 AMOCO WI: 41%

Rail Point, Aztec - 15.0 Mi.
 Mud Point, Aztec - 15.0 Mi.
 Cement Point, Farmington - 29.0 Mi.

9-28-70



Proposed location

McRuer Gas Com B-N-F

370 FILL 445 FWT 5-6 T-31-6R-10W

Rift and cross way