

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

1050' PBL & 1140' PBL, Section 27, T-28-N, R-4-W

At proposed prod. zone Same

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

42 miles southeast from Blanco, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

1050'

18. DISTANCE FROM PROPOSED LOCATION*

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

2700'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

19. PROPOSED DEPTH

4200'

20. ROTARY OR CABLE TOOLS

Rotary

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

7235' GL (est.)

22. APPROX. DATE WORK WILL START*

September 1975

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"	36#	300'	200 sz
6-3/4"	4-1/2"	10.5#	4200'	400 sz

Amoco proposes to drill the above well to develop the Pictured Cliffs reservoir. The well will be drilled using rotary tools with mud as the circulating media. Casing will be set through the Pictured Cliffs formation, and perforation and stimulation will be determined on analysis of open hole logs.

Copy of Location Plat, Development Plan, U. S. Forest Permit, Topomap and location sketch 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

TITLE

Area Adm. Supvr.

DATE

June 26, 1975

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

30-039-21112

5. LEASE DESIGNATION AND SERIAL NO.
NH-14921

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Valencia Canyon

8. FARM OR LEASE NAME
Valencia Canyon Unit

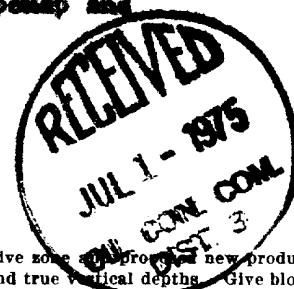
9. WELL NO.
2

10. FIELD AND POOL, OR WILDCAT
Chase Mesa Pictured Cliffs

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
NE/4 NE/4 Section 27,
T-28-N, R-4-W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
New Mexico



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 1-1-65

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

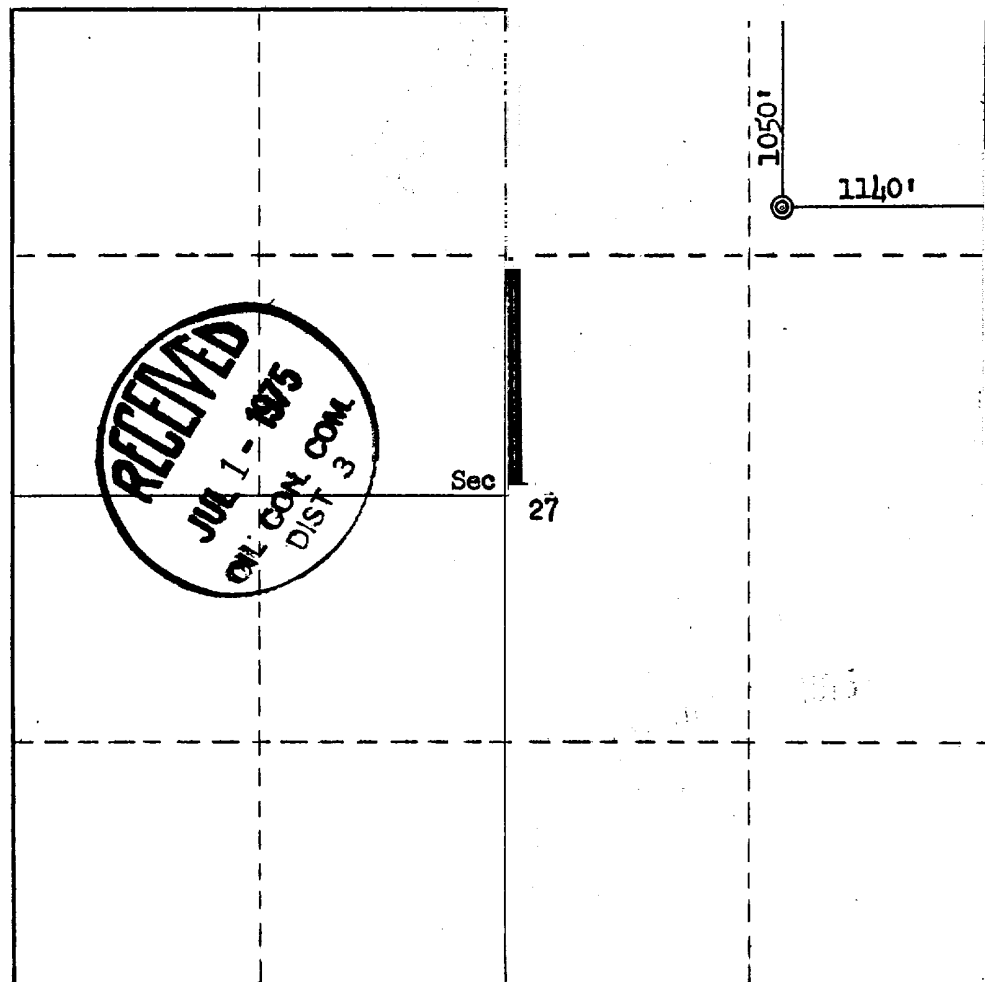
Operator Amoco Production Company			Lease Valencia Canyon Unit		Well No. 2
Unit Letter A	Section 27	Township 28N	Range 4W	County Rio Arriba	
Actual Footage Location of Well: 1050 feet from the North line and 1140 feet from the East line					
Ground Level Elev. 7235 est.	Producing Formation Pictured Cliffs		Pool Choza Mesa Pictured Cliffs #17	Dedicated Acreage 160 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.

G. L. Hamilton

Name

G. L. Hamilton

Position

Area Adm. Supvr.

Company

AMOCO PRODUCTION COMPANY

Date

April 21, 1975

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

April 17, 1975

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No.

3950

DEVELOPMENT PLAN
VALENCIA CANYON UNIT NO. 2

The proposed location is near an existing forest logging road. Approximately 0.3 mile of new road will have to be constructed, and present logging road improved. A Special Use Permit for the road and location has been issued by the U. S. Forest Service.

There are no camps or airstrips in the vicinity. Arrangements have been made to truck water from either the Creasco Wash, or from the El Paso Water Hole, for drilling and completion purposes. Amoco's standard blowout prevention will be employed; drawing for blowout preventer design attached. Upon completion of the well the location will be cleaned, levelled and reserve pits backfilled.

SPECIAL USE PERMIT

Act of June 4, 1897
This permit is revocable and nontransferable
(Ref. FSM 2710)

a. Record no. (1-2)	b. Region (3-4)	c. Forest (5-6)
70	03	02
d. District (7-8)	e. User number (9-12)	f. Kind of use (13-15)
03	----	---
g. State (16-17)	h. County (18-20)	k. Card no. (21)
35	039	1

Permission is hereby granted to Amoco Production Company

of 501 Airport Drive Farmington, New Mexico 87401,
hereinafter called the permittee, to use subject to the conditions set out below, the following described lands
or improvements:

A one and 1/4 acre tract located in the NE/4 NE/4 of Section 27,
and a road right-of-way through the NE/4 NE/4 Section 27, SE/4 SE/4
Section 22, T28N, R4W, NMPM as shown on the attached map.

ALL CONDITIONS HAVE BEEN REVIEWED WITH
THE COMPANY REPRESENTATIVE [Signature]
Initials

This permit covers _____ acres and/or .299 miles and is issued for the purpose of:

1. Constructing, drilling and maintaining the Amoco Valencia #2
gas well located 1050' FNL and 1140' FEL under terms of lease
#NM14921.
2. Constructing, using and maintaining an access road thereto.

1. Construction or occupancy and use under this permit shall begin within 1 months, and
construction, if any, shall be completed within 12 months, from the date of the permit. This
use shall be actually exercised at least 365 days each year, unless otherwise authorized
in writing.

2. In consideration for this use, the permittee shall pay to the Forest Service, U.S. Department of
Agriculture, the sum of Free use 36CFR 251.2 Dollars (\$ _____) for the period
from _____ 19____, to _____, 19____, and thereafter
annually on _____ Dollars (\$ _____):

Provided, however, Charges for this use may be made or readjusted whenever necessary to place the
charges on a basis commensurate with the value of use authorized by this permit.

3. This permit is accepted subject to the conditions set forth herein, and to conditions 18 to
36 attached hereto and made a part of this permit.

PERMITTEE	NAME OF PERMITTEE <u>[Signature]</u> Amoco Production Company	SIGNATURE OF AUTHORIZED OFFICER <u>[Signature]</u> TITLE Area Superintendent	DATE <u>6/20/75</u>
ISSUING OFFICER	NAME AND SIGNATURE <u>[Signature]</u> VICTOR W. JENKINS	TITLE District Forest Ranger	DATE <u>6/18/75</u>

4. Development plans; layout plans; construction, reconstruction, or alteration of improvements; or revision of layout or construction plans for this area must be approved in advance and in writing by the forest supervisor. Trees or shrubbery on the permitted area may be removed or destroyed only after the forest officer in charge has approved, and has marked or otherwise designated that which may be removed or destroyed. Timber cut or destroyed will be paid for by the permittee as follows: Merchantable timber at appraised value; young-growth timber below merchantable size at current damage appraisal value; *provided* that the Forest Service reserves the right to dispose of the merchantable timber to others than the permittee at no stumpage cost to the permittee. Trees, shrubs, and other plants may be planted in such manner and in such places about the premises as may be approved by the forest officer in charge.

5. The permittee shall maintain the improvements and premises to standards of repair, orderliness, neatness, sanitation, and safety acceptable to the forest officer in charge.

6. This permit is subject to all valid claims.

7. The permittee, in exercising the privileges granted by this permit, shall comply with the regulations of the Department of Agriculture and all Federal, State, county, and municipal laws, ordinances, or regulations which are applicable to the area or operations covered by this permit.

8. The permittee shall take all reasonable precautions to prevent and suppress forest fires. No material shall be disposed of by burning in open fires during the closed season established by law or regulation without a written permit from the forest officer in charge or his authorized agent.

9. The permittee shall exercise diligence in protecting from damage the land and property of the United States covered by and used in connection with this permit, and shall pay the United States for any damage resulting from negligence or from the violation of the terms of this permit or of any law or regulation applicable to the National Forests by the permittee, or by any agents or employees of the permittee acting within the scope of their agency or employment.

10. The permittee shall fully repair all damage, other than ordinary wear and tear, to national forest roads and trails caused by the permittee in the exercise of the privilege granted by this permit.

11. No Member of or Delegate to Congress or Resident Commissioner shall be admitted to any share or part of this agreement or to any benefit that may arise herefrom unless it is made with a corporation for its general benefit.

12. Upon abandonment, termination, revocation, or cancellation of this permit, the permittee shall remove within a reasonable time all structures and improvements except those owned by the United States, and shall restore the site, unless otherwise agreed upon in writing or in this permit. If the permittee fails to remove all such structures or improvements within a reasonable period, they shall become the property of the United States, but that will not relieve the permittee of liability for the cost of their removal and restoration of the site.

13. This permit is not transferable. If the permittee through voluntary sale or transfer, or through enforcement of contract, foreclosure, tax sale, or other valid legal proceeding shall cease to be the owner of the physical improvements other than those owned by the United States situated on the land described in this permit and is unable to furnish adequate proof of ability to redeem or otherwise reestablish title to said improvements, this permit shall be subject to cancellation. But if the person to whom title to said improvements shall have been transferred in either manner provided is qualified as a permittee and is willing that his future occupancy of the premises shall be subject to such new conditions and stipulations as existing or prospective circumstances may warrant, his continued occupancy of the premises may be authorized by permit to him if, in the opinion of the issuing officer or his successor, issuance of a permit is desirable and in the public interest.

14. In case of change of address, the permittee shall immediately notify the forest supervisor.

15. The temporary use and occupancy of the premises and improvements herein described may be sublet by the permittee to third parties only with the prior written approval of the forest supervisor but the permittee shall continue to be responsible for compliance with all conditions of this permit by persons to whom such premises may be sublet.

16. This permit may be terminated upon breach of any of the conditions herein or at the discretion of the regional forester or the Chief, Forest Service.

17. In the event of any conflict between any of the preceding printed clauses or any provisions thereof and any of the following clauses or any provisions thereof, the following clauses will control

18. As a further guarantee of the faithful performance of the provisions of the permittee's special use permits for oil and gas exploration on the Carson National Forest, the permittee has delivered and agrees to maintain a surety bond in the amount of ten thousand dollars (\$10,000.00). Should the sureties or bonds delivered under this permit become unsatisfactory to the Forest Service, the permittee shall, within thirty (30) days of demand, furnish a new bond with surety, solvent and satisfactory to the Forest Service.

The permittee agrees that all moneys deposited under these permits may, upon failure on his part to fulfill all and singular the requirements herein set forth or made a part hereof, be retained by the United States to be applied as far as may be to the satisfaction of his obligations assumed hereunder, without prejudice whatever to any other rights and remedies of the United States.

19. Chemical materials may not be used to control undesirable woody and herbaceous vegetation, insects, rodents, etc., without the prior written approval of the Forest Service. A report of planned use of pesticides will be submitted annually by the permittee on the due date established by the District Ranger. The report will cover a 12 month period of planned use beginning 3 months after the reporting date. Information essential for review will be provided in the form specified. Exceptions to this schedule may be allowed only when unexpected outbreaks of pests require control measures which were not anticipated at the time the annual report was submitted.

Only materials approved and registered by the U.S. Department of Agriculture for the specific purpose planned will be considered for use on these lands. Label instructions will be strictly followed in the preparation and application of pesticides and disposal of excess materials and containers.

20. A muffler or spark arrestor satisfactory to the Forest Service shall be maintained on the exhausts of all trucks and tractors to other internal combustion engines used in connection with this permit.

The permittee will make arrangements to have all equipment inspected by the District Ranger for compliance with fire requirements prior to entry onto the National Forest. In addition to an adequate muffler or spark arrestor all vehicles or equipment will have a shovel. All heavy equipment and vehicles except sedans and pickups will also be equipped with a fire extinguisher.

Each drilling rig will be equipped with adequate fire extinguishers and a tool cache containing a minimum of 3 shovels and 2 axes.

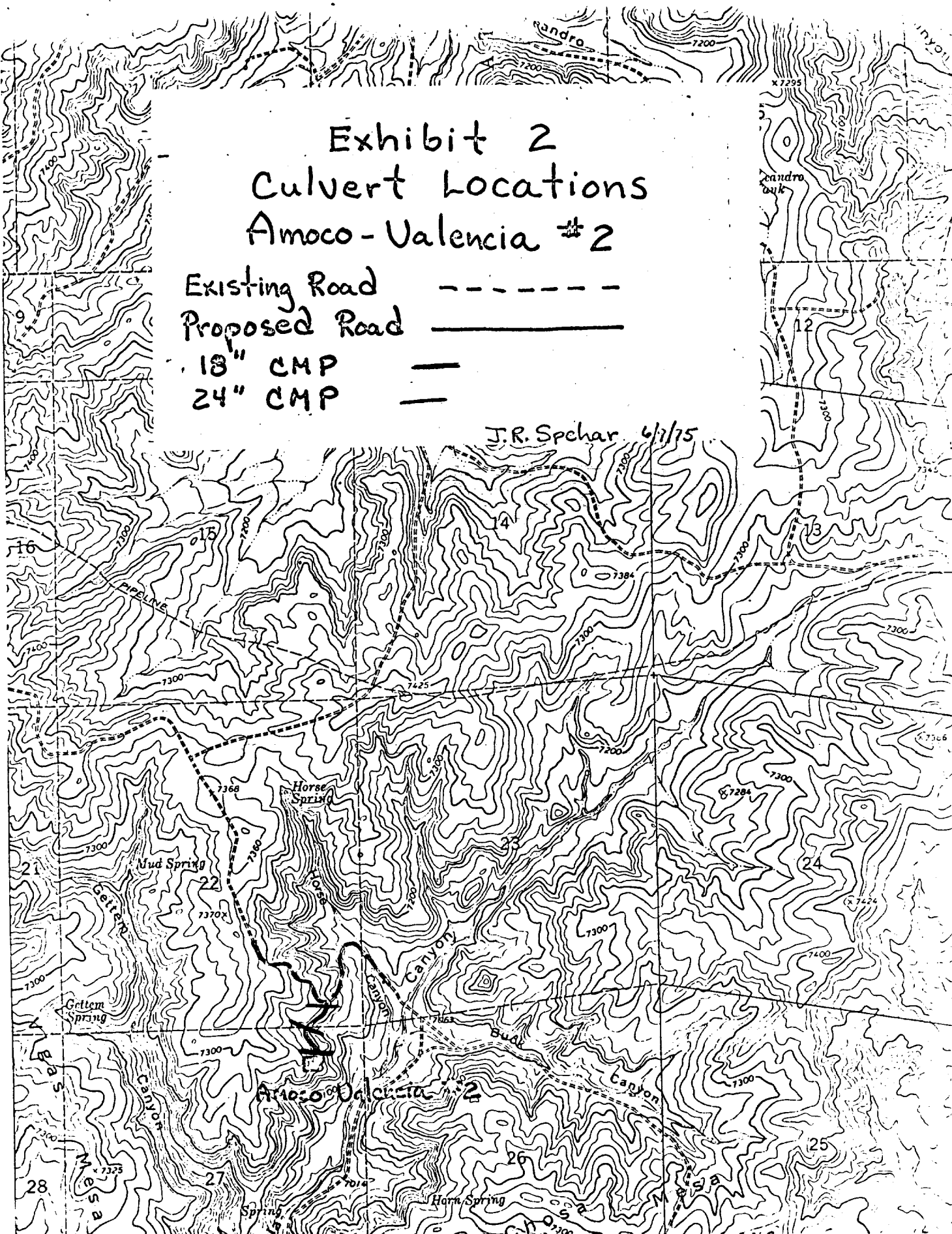
21. The permittee shall save the United States harmless from and indemnified against claims for injury to persons or damages to property, due to development, operation or use under this permit.
22. All liquids and solids discharged from the well will be vented into storage tanks or fenced drip pits. The permittee will provide that the location and all equipment will be kept in satisfactory condition to prevent damage to livestock and wildlife.
23. The permittee shall take all practicable precautions to minimize damage to the soil, and to prevent the creation of conditions conducive to continuing or accelerated soil erosion. The precautions may include but shall not necessarily be limited to, bank sloping, benching, wattling, sod planting, seeding, fertilizing, and mulching as determined by the District Ranger to be practicable and necessary. All earth cuts or fill slopes on any disturbed areas which are favorable to revegetation or other areas on which the soil and/or ground cover is destroyed in the course of construction, will be revegetated with suitable vegetation or otherwise treated by the permittee as required by the District Ranger. Such seeding or planting shall be done at a time of the year, in a manner, and with the kinds and amounts of species which in the opinion of the District Ranger offers the best chance of success.
24. A chemical toilet or similar adequate sanitary facilities will be provided on the location while men are regularly employed there. Untreated sewage will not be permitted to enter any stream course.
25. If, during construction, items of a substantial archaeological or paleontological value are discovered, or a known deposit of such items is disturbed, the permittee will cease work in the area so affected. He will then notify the District Ranger and will not resume work until written approval is given.
26. This permit authorizes only such use and occupancy of National Forest land as is essential for purposes directly connected with the construction, maintenance, and use of the road and well site. It does not authorize uses such as borrow pits, stockpiles, quarries or any other similar use except with the written approval of the District Ranger.
27. To protect vegetation and prevent scorching of top soil, drilling gas will be burned in a pit and against a dirt bank.
28. All construction slash will be buried, chipped or removed.

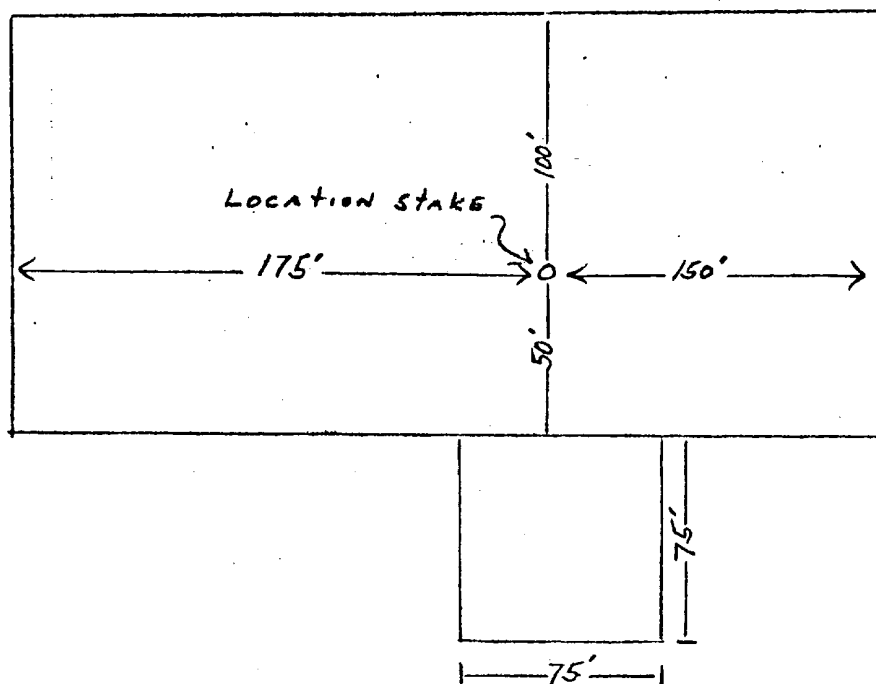
29. All or portions of the work herein described for revegetation, brush disposal, fence construction and/or reseeding for which the permittee is responsible, may upon written request of the permittee and approval by the Forest Supervisor be performed by the Forest Service on an operative or assistance basis under Section 5, Act of April 24, 1959, 64 Stat. 83, 16 U.S.C. 572. When the work is to be so performed, the permittee shall make advance deposits as requested by the Forest Service. The total deposits will be sufficient to cover the cost of the work including necessary overhead charges. Deposits for the control of erosion may be used to maintain installations made for erosion control for a period not to exceed three years or until site stabilization is accomplished, whichever is less. Advance estimates of the cost of this work may be obtained from the District Ranger.
30. The road will be constructed in accordance with the specifications set forth in Exhibit 1. Cuts in earth will not be steeper than 2:1, cuts in rock will not be steeper than 1/4:1. Fill material will not be steeper than 2:1. All roads will be ditched and crowned with adequate wing ditches and culverts for proper ditch relief.
31. This road will be maintained a minimum of twice each year. To insure proper care of the improvements, the District Ranger may require more frequent maintenance.
32. Gates, cattleguards, culverts and other structures installed as part of this road shall become the property of the United States and may not be removed without the consent of the District Ranger. The Forest Service, or its cooperator, (with Forest Service consent) may improve this road in any manner so long as it does not materially interfere with its use by the permittee. Specifications for construction of these improvements are given in Exhibit 2.
33. None of the conditions of the permit as set forth herein can be varied or modified, except with the written consent of the District Ranger.
34. If the use granted under this permit is not exercised within one calendar year from date of issue the permit will be terminated.
35. The prescribed seed mixture for revegetation of disturbed areas is shown in Exhibit 3.
36. When roads become dry and dusty they will be watered to reduce rutting, improve visibility and reduce air pollution.

Exhibit 2
Culvert Locations
Amoco - Valencia #2

Existing Road - - - - -
Proposed Road - - - - -
18" CMP - - - - -
24" CMP - - - - -

J.R. Spchar 6/7/75





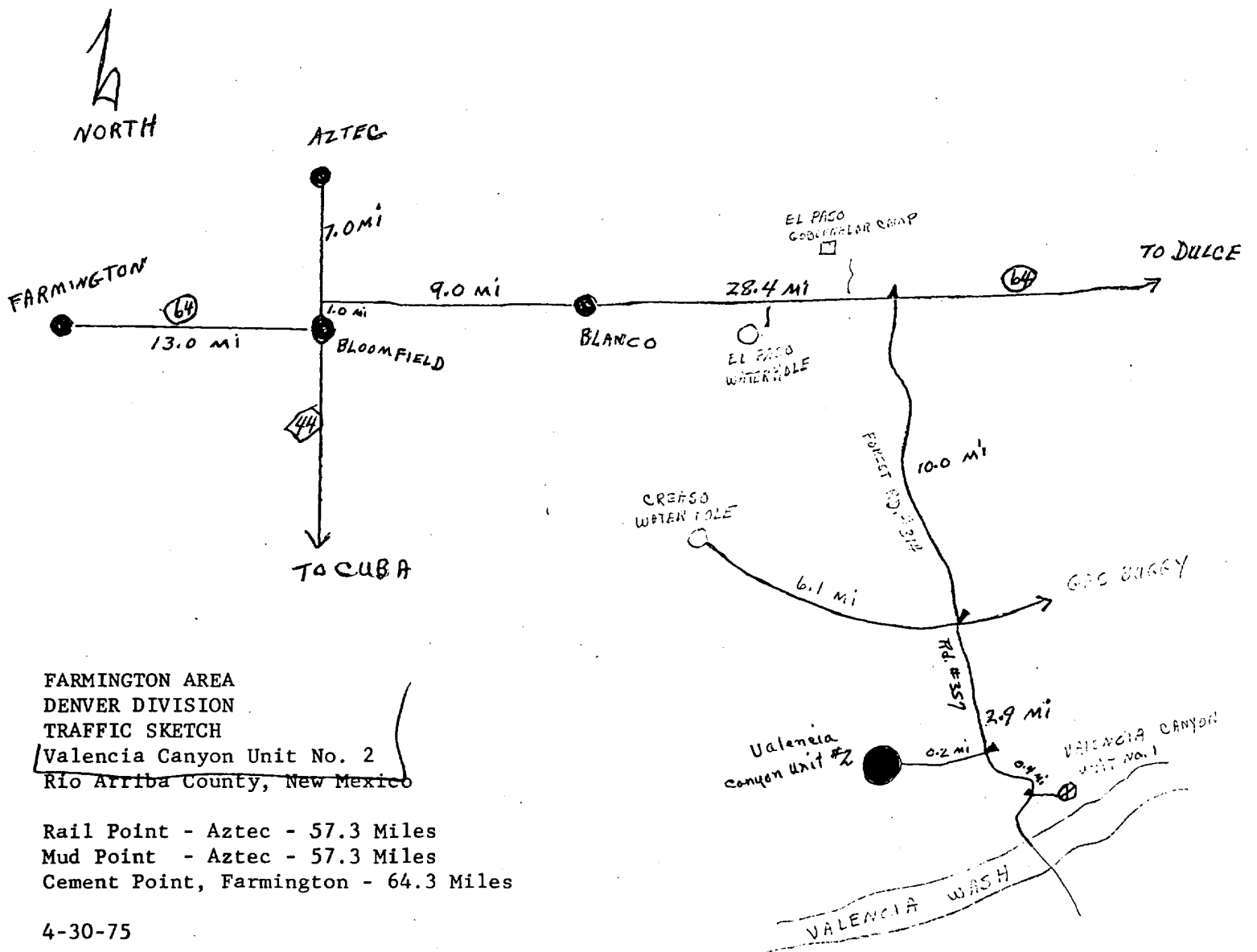
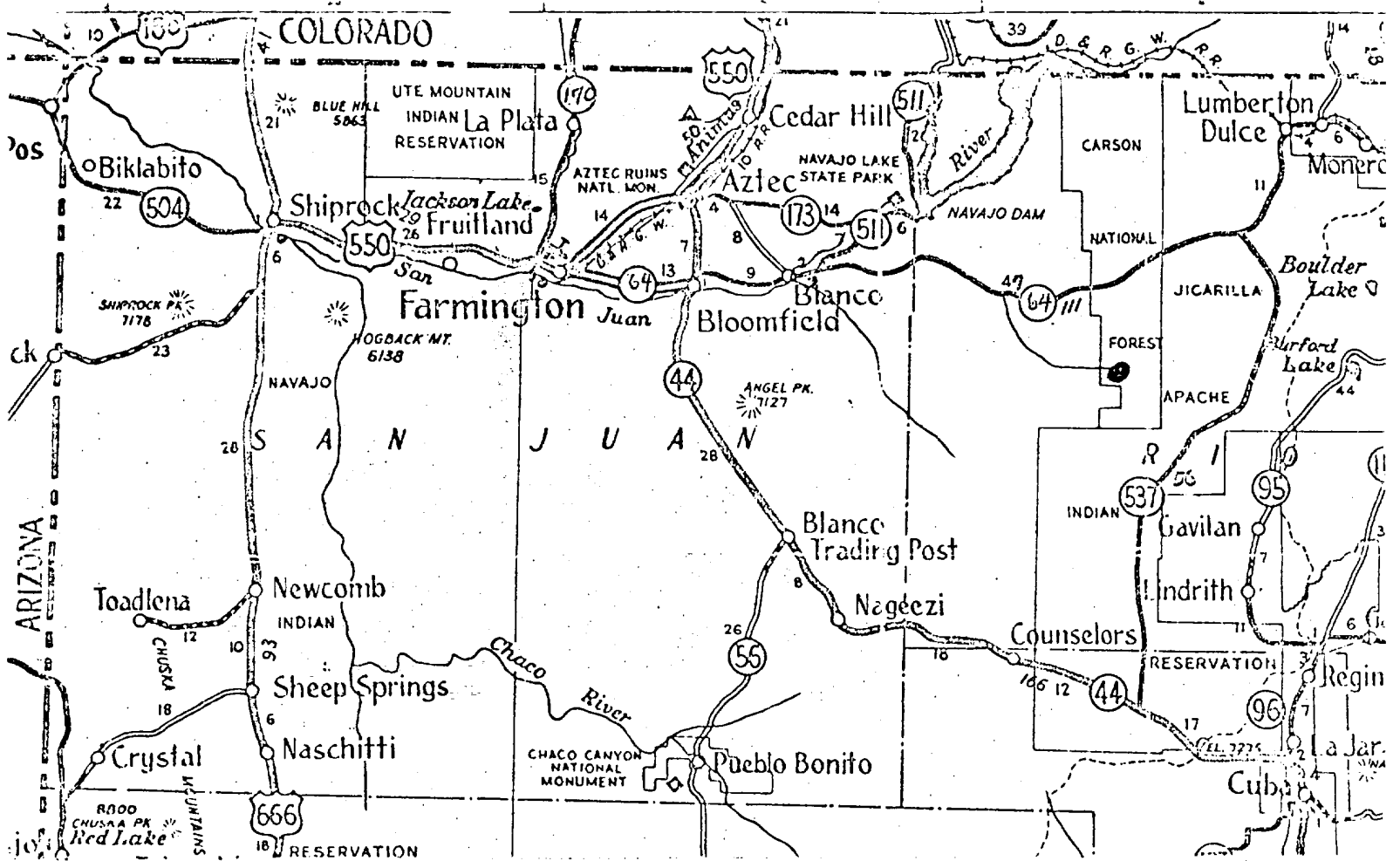
Approximately 1.25 ACRES

Amoco Production Company

SCALE: *NONE*

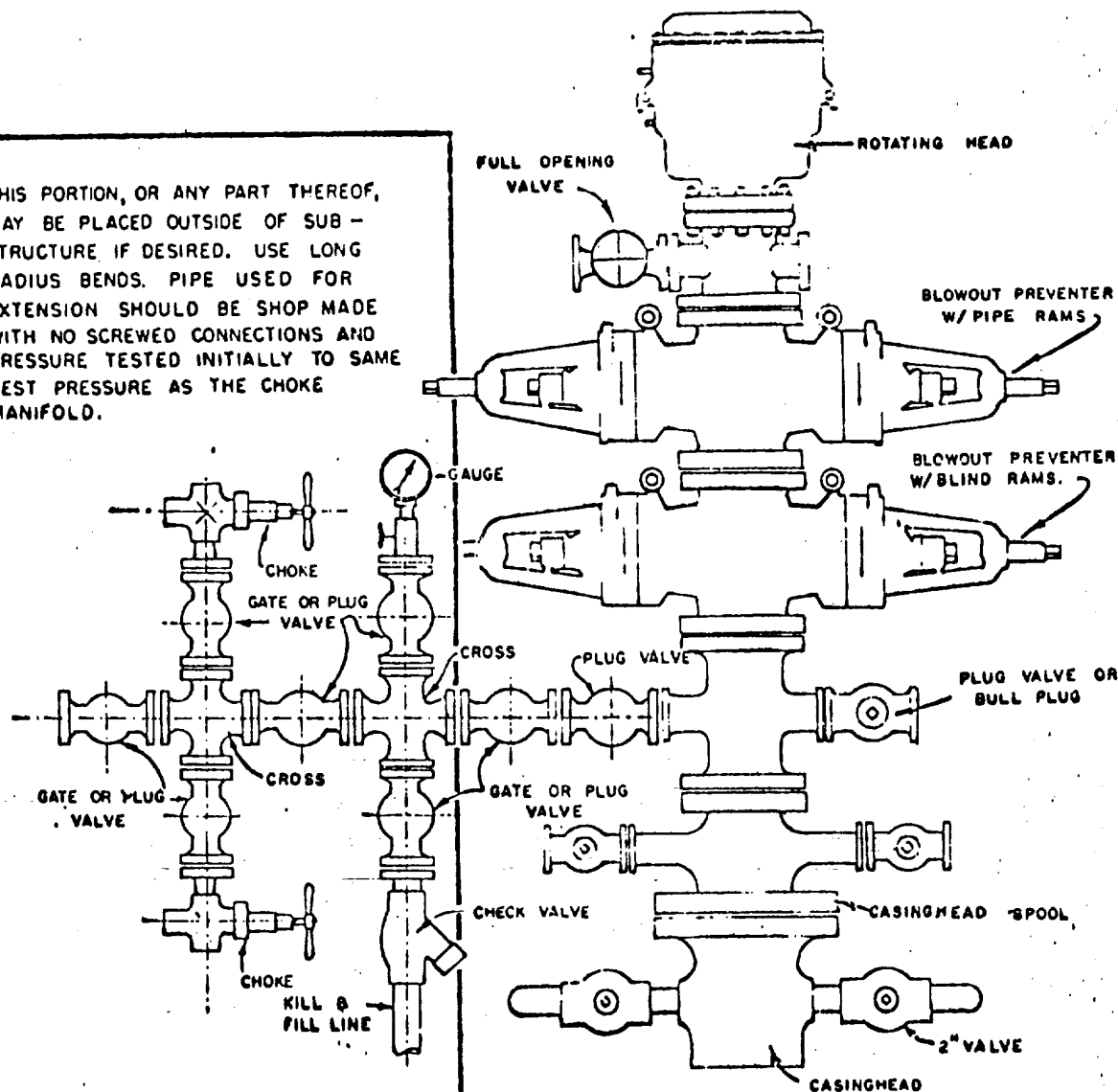
Drilling Location Specifications

DRG.
NO.



WF

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

EXHIBIT D-4
OCTOBER 16, 1961