

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-21995

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
 1500' FNL & 1760' FEL, Section 7, T-25-N, R-5-W
 At proposed prod. zone
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 22 miles north of Counselor, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1500'

16. NO. OF ACRES IN LEASE 2555.20

17. NO. OF ACRES ASSIGNED TO THIS WELL 320319.29

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 3550'

19. PROPOSED DEPTH 8000'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6727' GL

22. APPROX. DATE WORK WILL START*
 As soon as permitted

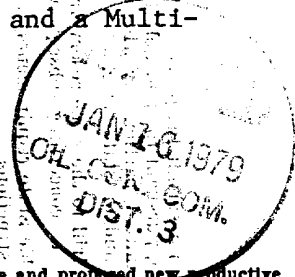
23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	300'	200 SX
7-7/8"	4-1/2"	11.6#	8000'	2400 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 Gas Company of New Mexico.

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 J. L. [Signature] TITLE District Engineer DATE January 12, 1979

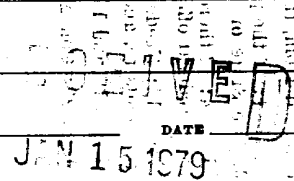
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ok [Signature]



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.

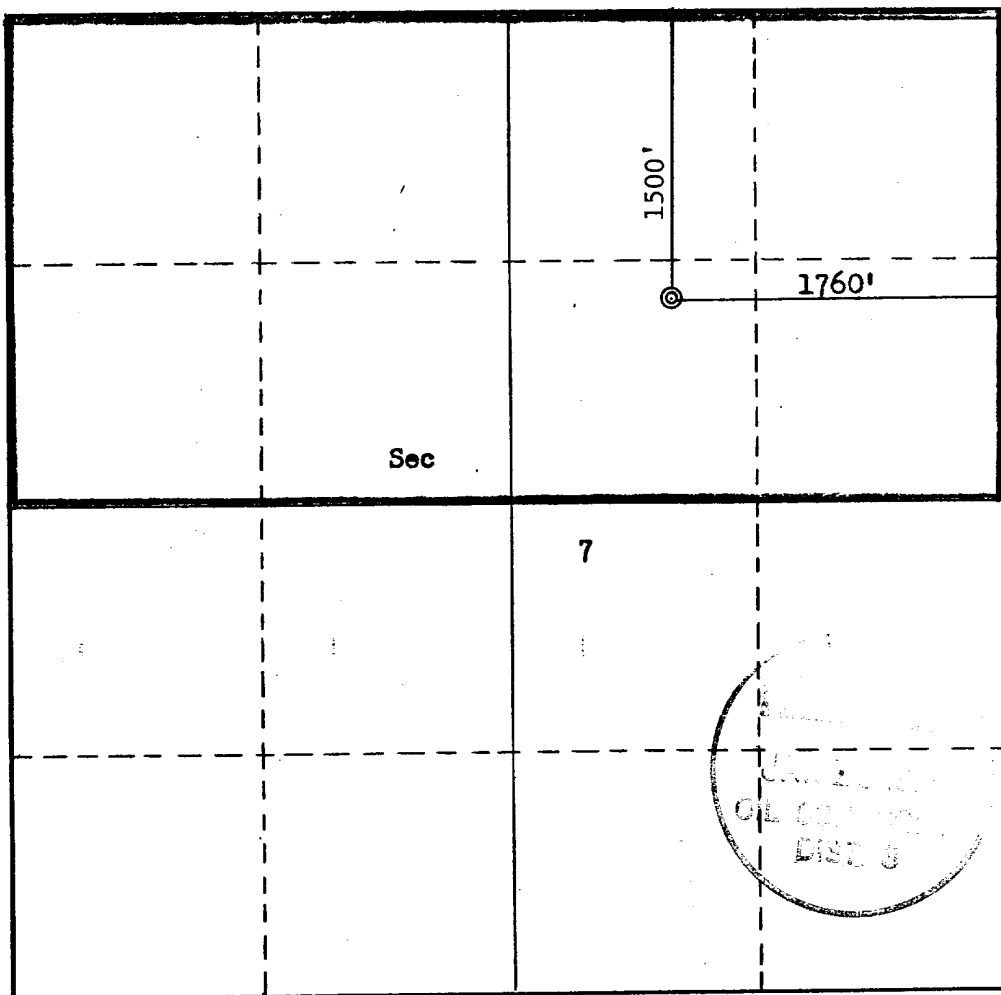
Operator AMOCO PRODUCTION COMPANY			Lease JICARILLA CONTRACT 147			Well No. 9		
Unit Letter G	Section 7	Township 25N	Range 5W	County Rio Arriba				
Actual Footage Location of Well: 1500 feet from the North line and 1760 feet from the East line								
Ground Level Elev. 6727		Producing Formation Dakota		Pool Basin Dakota			Dedicated Acreage: 320 319.29 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

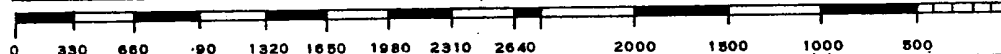
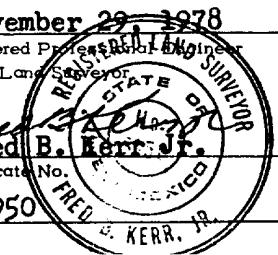
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

J. L. Krupka

Name
J. L. KRUPKA
Position
DISTRICT ENGINEER
Company
AMOCO PRODUCTION COMPANY
Date
DECEMBER 12, 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
November 29, 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
 JICARILLA CONTRACT 147 NO. 9
 1500' FNL, 1760' FEL, SECTION 7, T-25-N, R-5-W

The geologic name of the surface formation is the Tertiary San Jose.

The estimated tops of important geological formations bearing hydrocarbons are:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Pictured Cliffs	3200'	+3540'
Mesaverde	4850'	+1890'
Gallup	6550'	+ 190'
Dakota	7540'	- 800
TD	8000'	

Estimated KB elevation is 6740'.

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>
300'	8-5/8"	24#	12-1/4"	200 Class "B" 2% CaCl ₂
8000'	4-1/2"	11.6#	7-7/8"	2300 Class "B" 6% Gel, 2# Med. Tuf Plug/sx.
				100 Class "B" Neat. DV tool below Mesaverde.

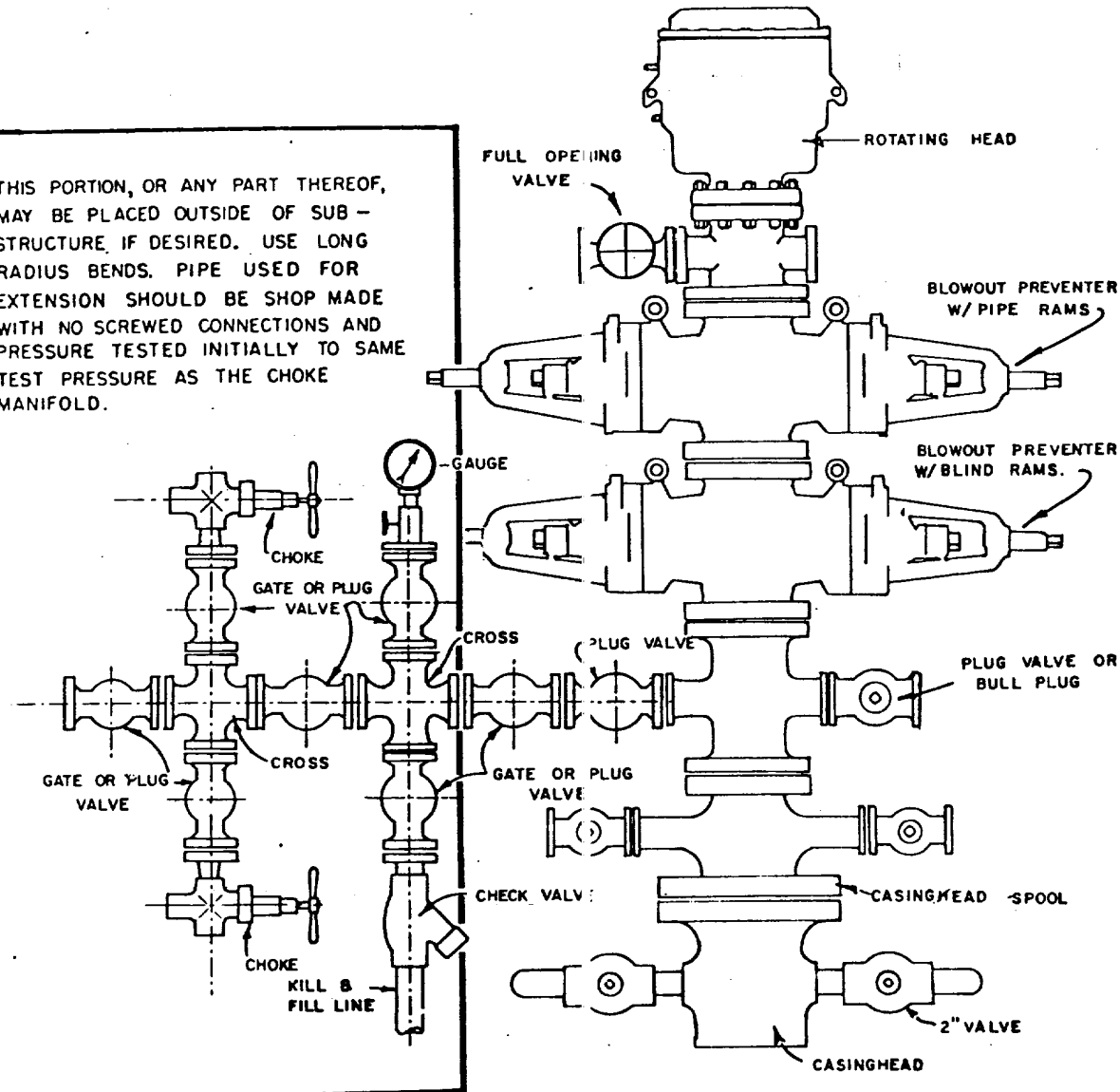
Amoco's standard blowout prevention will be employed; see attached drawing of our blowout preventer design.

Amoco will run an Induction Electric Survey from TD to 6500' and a Density - Gamma Ray Log from TD to 6500'. 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.

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

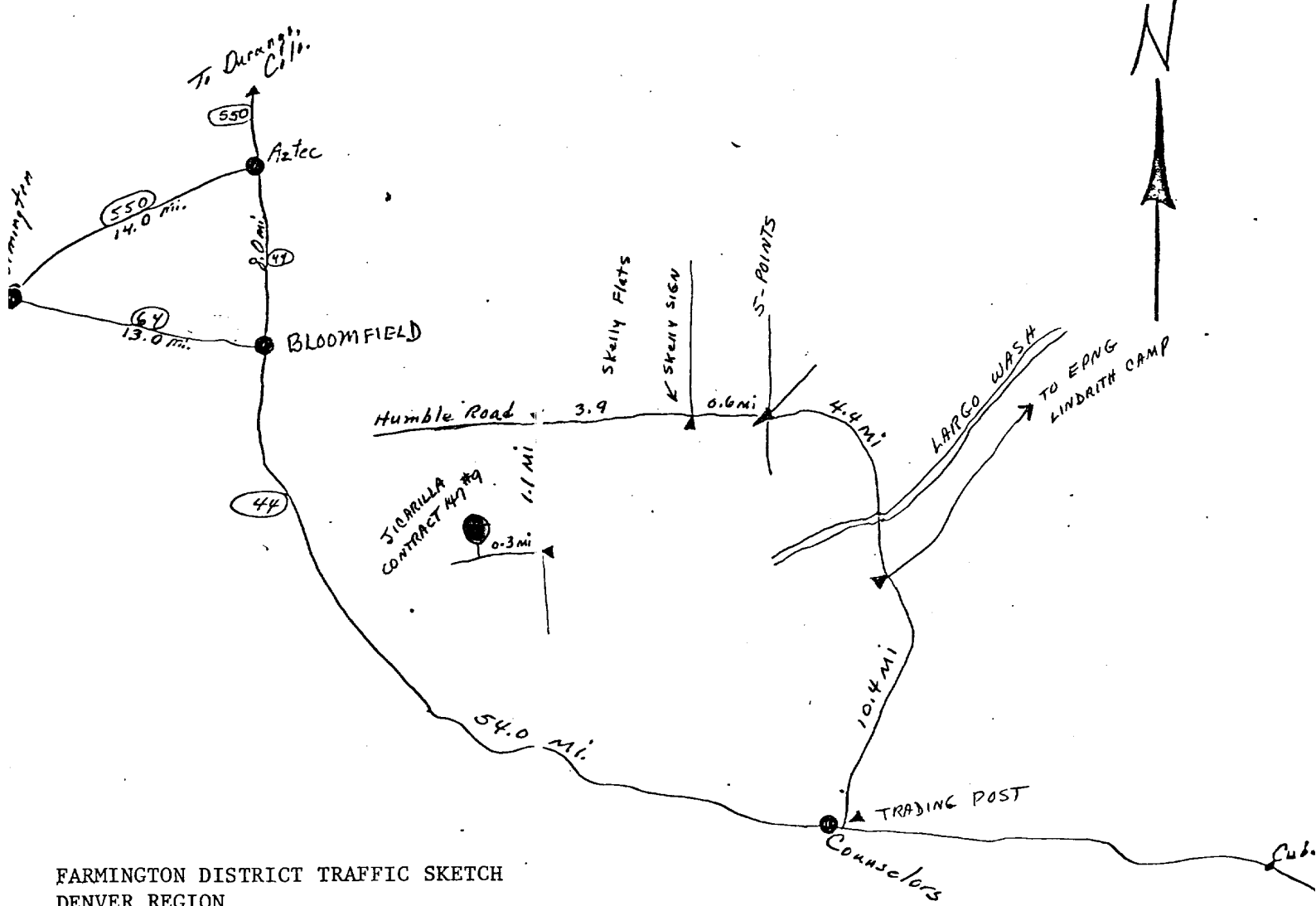
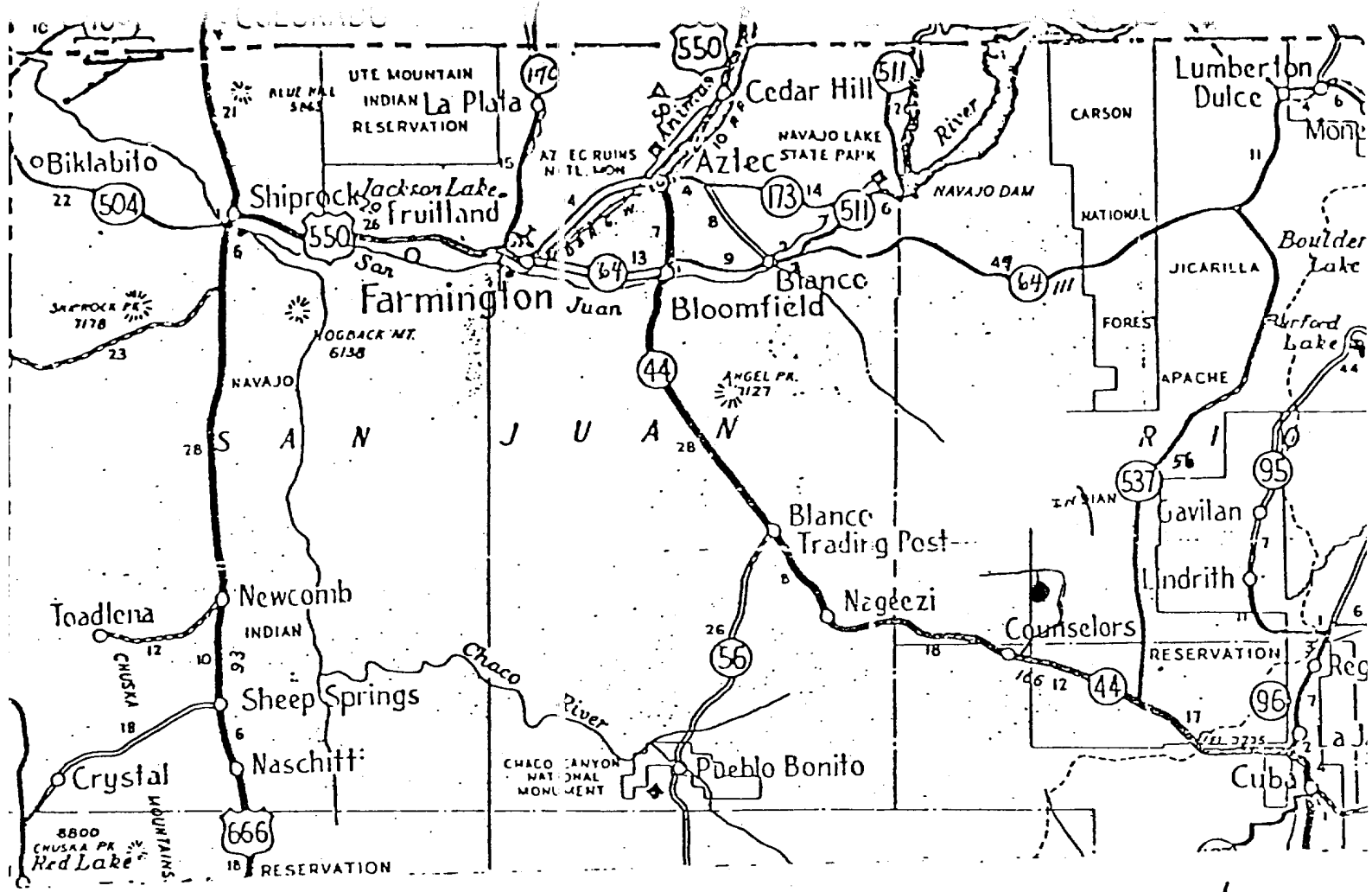
EXHIBIT D-4
OCTOBER 16, 1969

MULTI-POINT SURFACE USE PLAN

JICARILLA CONTRACT 147 NO. 9
1500' FNL & 1760' FEL, SECTION 7, T25N, R5W
RIO ARriba COUNTY, NEW MEXICO

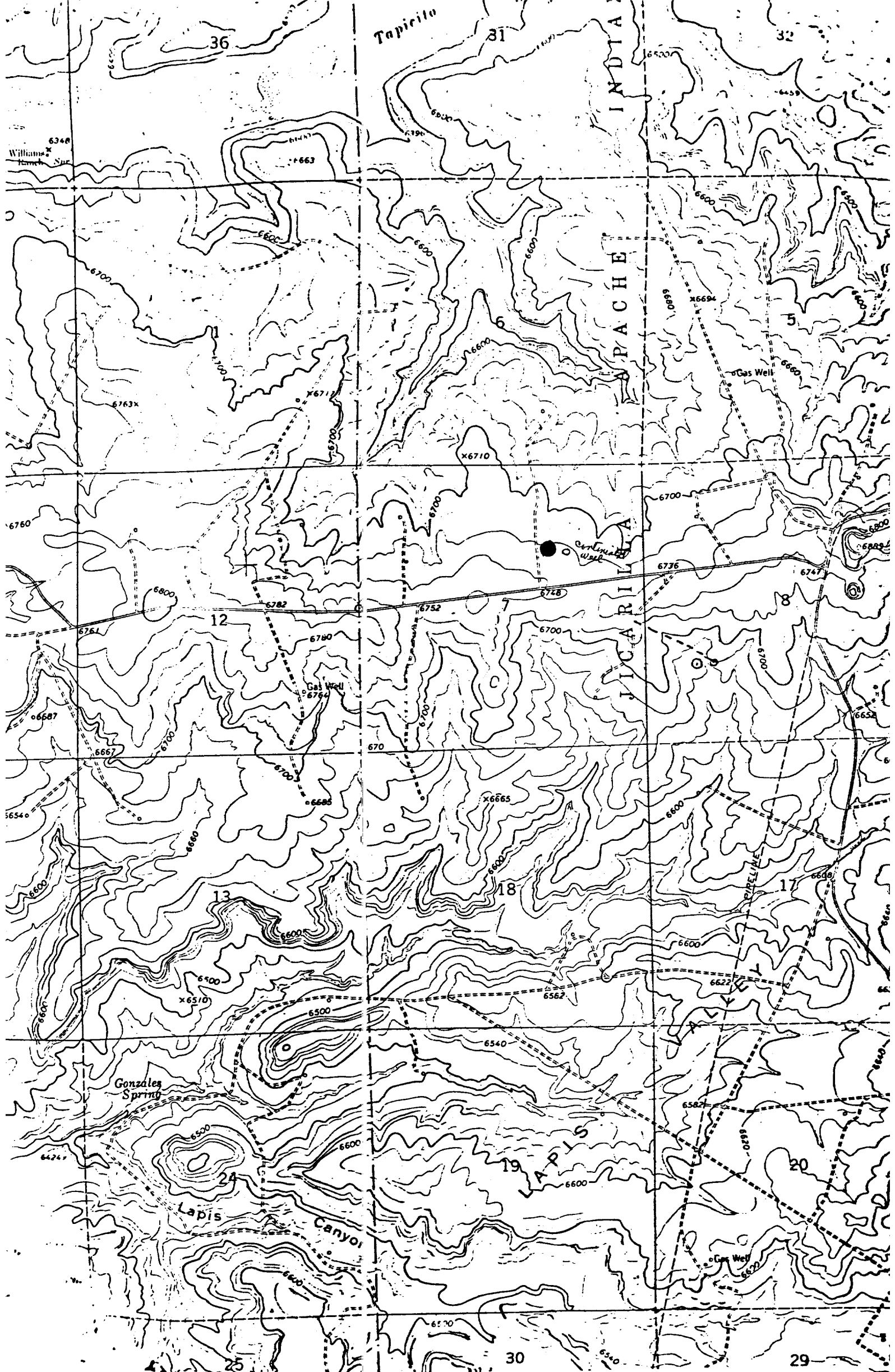
1. The attached road map and sketch show the proposed route to the location and distances from towns.
2. No new access road will be required. Existing roads will be used which run alongside west side of location.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
4. There is a 300-barrel tank on Continental's lease located nearby.
5. Water will be hauled by truck over existing roads from pits dug alongside Tapacito Wash.
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 4-foot cut will be made on south 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 rolling slope with sandy, loamy clay-type soil with vegetation of sagebrush, native grasses and no trees.

Representatives of the U. S. Geological Survey's Durango Office (John Keller) and the Jicarilla Tribe's Dulce Office (Gary Vicenti) inspected the site with Amoco personnel. Cultural resources inspection was conducted by Dabney Ford, Archaeologist from San Juan College.
12. A Certification Statement by Amoco's representative is included.

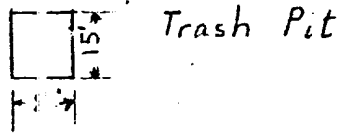
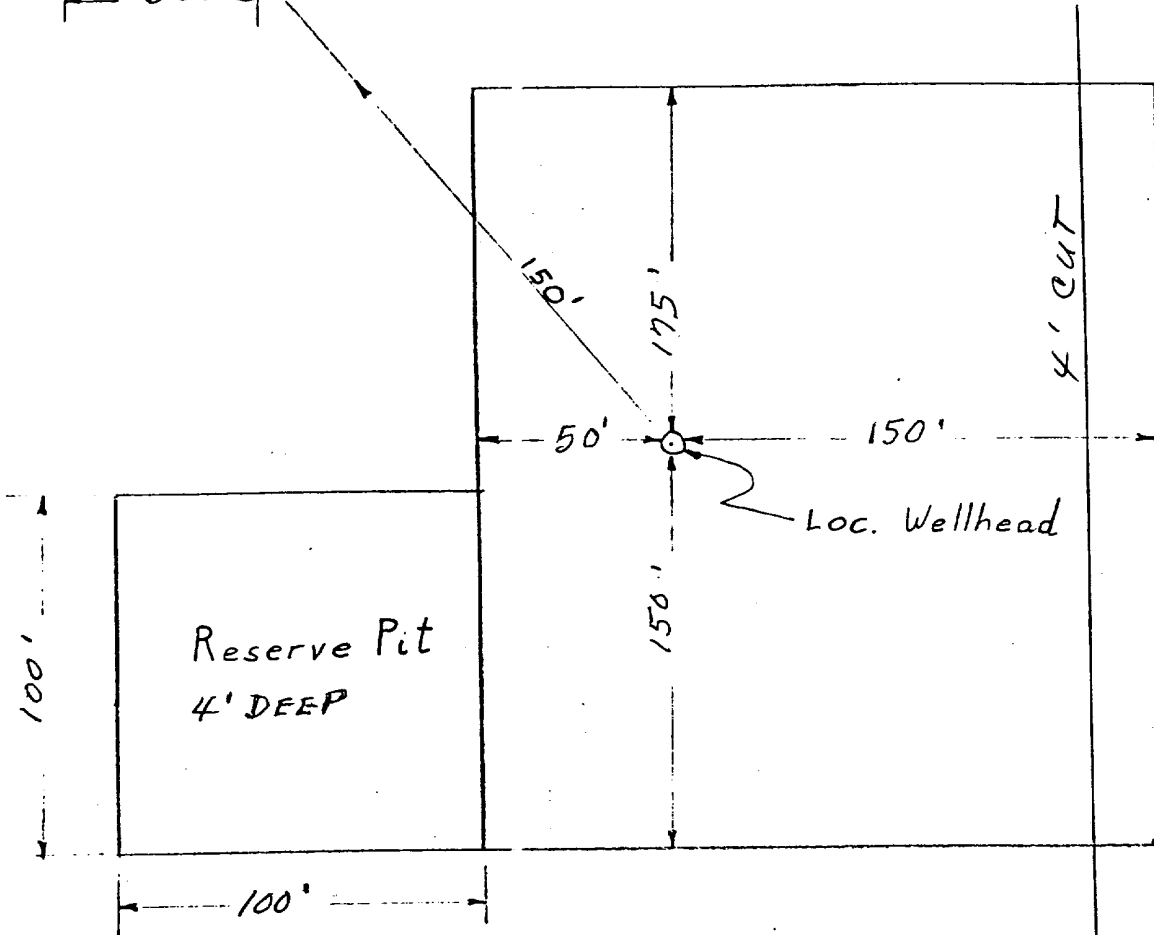
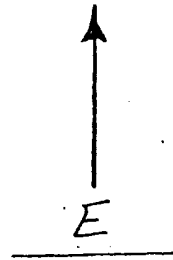
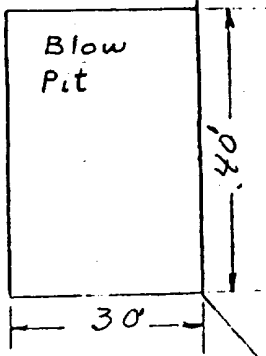


FARMINGTON DISTRICT TRAFFIC SKETCH
 DENVER REGION
 JICARILLA CONTRACT 147 WELL NO. 9
 RIO ARRIBA COUNTY, NEW MEXICO
 AMOCO WI: 100%

Rail Point, Aztec - 83 miles
 Mud Point, Aztec - 83 miles
 Cement Point. Farmington - 88 miles



Vicinity Map for
 AMOCO PRODUCTION COMPANY #9 JICARILLA CONTRACT 117
 1500' FNL 1760' FEL Sec 7-T25N-R5W
 BLM, ARIZONA COUNTY, NEW MEXICO



APPROXIMATELY 1.2 Acres

Amoco Production Company	SCALE: NONE
DRILLING LOCATION SPECS JICARILLA CONTR. ACT 147 NO. 9	DRG. NO.

SEEDING PLAN

1. TIME:

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

2. 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.

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

CRESTED WHEATGRASS	0.71 lbs.
RUSSIAN WILD RYE	0.86 lbs.
ORCHARD GRASS	0.298 lbs.
PERENNIAL RYE GRASS	0.57 lbs.
WESTERN WHEAT GRASS	1.43 lbs.
SMOOTH BROME	1.14 lbs.
INTERMEDIATE WHEAT	0.91 lbs.
PUBESCENT WHEAT GRASS	1.09 lbs.

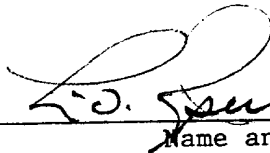
JICARILLA CONTRACT 147 NO. 9
1500' FNL & 1760' FEL, SECTION 7, T25N, R5W
RIO ARRIBA COUNTY, NEW MEXICO

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.

January 10, 1979

Date



District 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