

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 INFILL

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

1690' FSL and 1540' FEL, Section 9, T29N, R9W

At proposed prod. zone

Same

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

3 miles Northeast of Blanco, New Mexico

15. DISTANCE FROM PROPOSED*

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

1540'

18. DISTANCE FROM PROPOSED LOCATION*

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

2375'

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

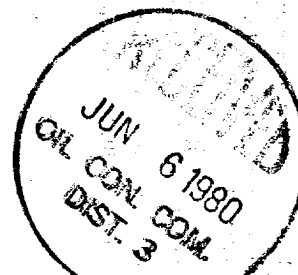
5783' GL

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" (New)	32.3# H-40	300'	300 sx Class "B" x 2% CaCl2-circ
8-3/4"	7" (New)	20# K-55	2729'	390 sx (Same as below-circ)
6-1/4"	4-1/2" (New)	10.5# K-55	7019'	To 2579' w/400 sx-Class "B" 50: 50 POZ, 6% gel, 2# med tuf plug/sx, .8% FLA. Tail in w/100 sx Class B Neat.

This application to drill an Infill Basin Dakota well is pursuant to Order No. R-1670-V approved by the NMOCN on May 22, 1979. This well will qualify under Section 103 of the Natural Gas Policy Act under Order No. R-1670-V.

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



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

B.E. Fackrell

TITLE

District Engineer

DATE May 16, 1980

(This space for Federal or State office use)

PERMIT NO.

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

ok Smith

TITLE

APPROVAL DATE

APPROVED
AS AMENDED

DATE

James J. Lewis
DISTRICT ENGINEER

Form C-107
Revised 10-1-78

Certificate No

SUPPLEMENTAL INFORMATION TO FORM 9-331C

W. D. HEATH "A" NO. 9E
1690' FSL & 1540' FEL, SECTION 9, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO

The geologic name of the surface formation is the Tertiary Nacimiento.

Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Ojo Alamo	1089 '	+4707'
Kirtland	1294 '	+4502'
Fruitland	2009 '	+3787'
Pictured Cliffs	2329 '	+3467'
Chacra (if present)	3099 '	+2697'
Mesaverde	Cliff House 3979 '	+1817'
	Point Lookout 4529 '	+1267'
Gallup	5814 '	- 18'
Dakota	6689 '	- 893'
TD	7019 '	-1223'

Estimated KB elevation: 5796 '

Drilling fluid to intermediate TD will be a fresh water, low solids non-dispersed mud system and then to TD with air. Open hole logging program will include logs from TD to below intermediate casing:

Induction-SP-GR
Compensated Density-Compensated Neutron-GR
GR = 0-2000 ft

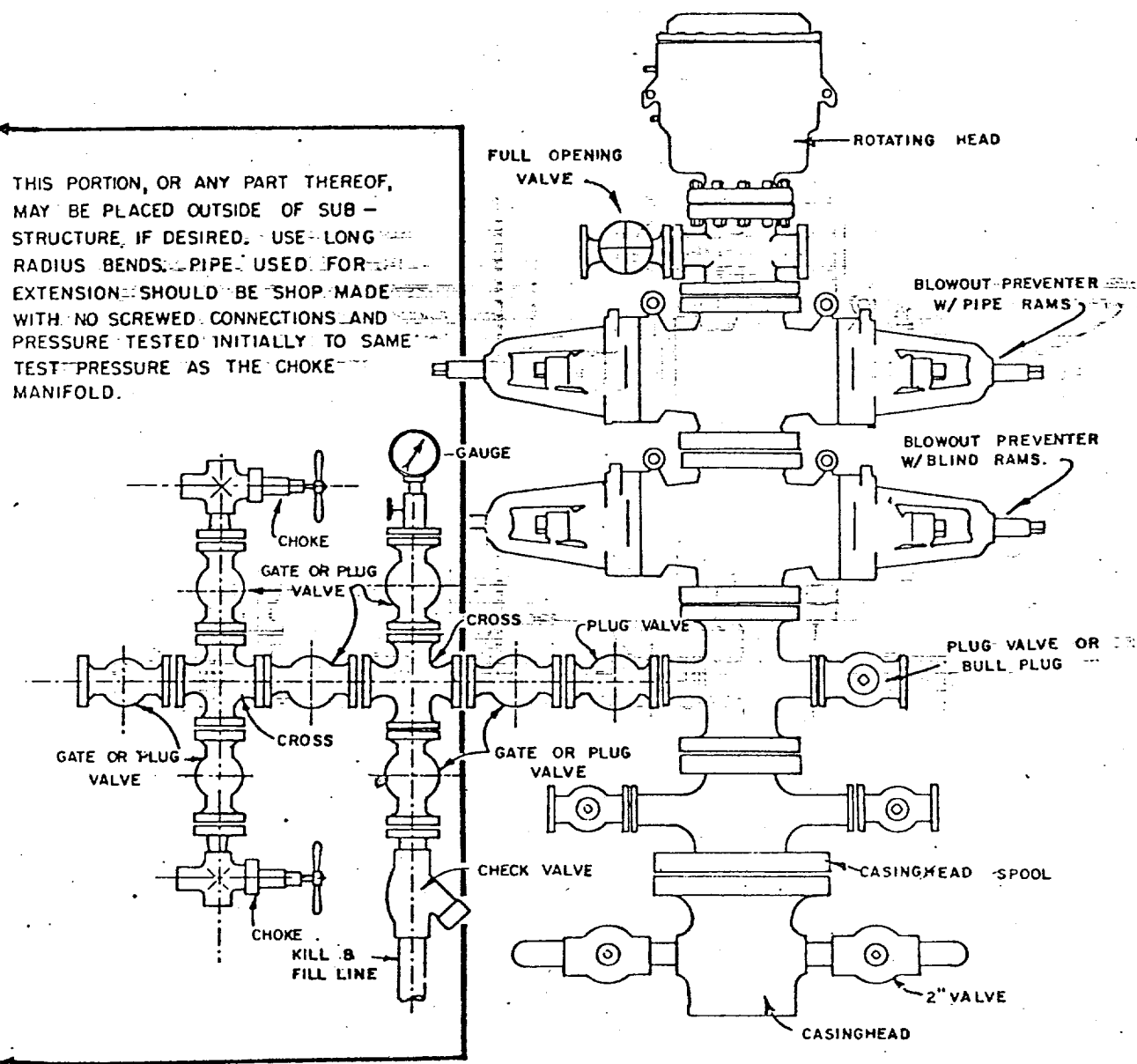
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 4 weeks.

Amoco's standard blowout prevention will be employed (see attached drawing).

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

1. Blowout Preventers and Master Valve to be fluid operated, and all fittings must be in good condition.
2. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
3. Nipple above Blowout Preventer shall be same size or larger than BOP being drilled through.
4. All fittings to be flanged.
5. Omsco or comparable safety valve must be available on rig floor at all times with proper connection or sub. The I.D. of safety valve should be as great as I.D. of tool joints of drill pipe, or at least as great as I.D. of drill collars.



BLOWOUT PREVENTER HOOKUP

API Series # 900

EXHIBIT D-4
OCTOBER 16, 1969

Operation of BOP by closing both pipe and blind rams will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.

MULTI-POINT SURFACE USE PLAN

W. D. HEATH "A" NO. 9E
1690' FSL & 1540' FEL, SECTION 9, T29N, R9W
SAN JUAN COUNTY, NEW MEXICO


1. The attached topographic map shows the proposed route to the location.
2. It will be necessary to build an access road approximately 800 feet in length and 20 feet wide. Road to be bar ditched on two sides.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
4. There is a 380-barrel tank and facilities located at W. D. Heath "A" No. 1A, approximately one-quarter mile east.
5. Water will be hauled from the San Juan River.
6. No construction materials will be hauled in for this location.
7. A 125' by 125' pit will be built on location to hold all drilling waste. Upon completion of the well, pit will be fenced and waste and liquids left to dry, then pit will be filled and leveled. If any liquids remain, they will be hauled away prior to back filling.
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 5-foot cut will be made on top side.
10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Reseeding of the site will be carried out as instructed by the Bureau of Land Management.
11. The general topography is a flat area, on edge of small bluff, with sandy loam soil; vegetation consists of sagebrush, native grasses, and junipers.

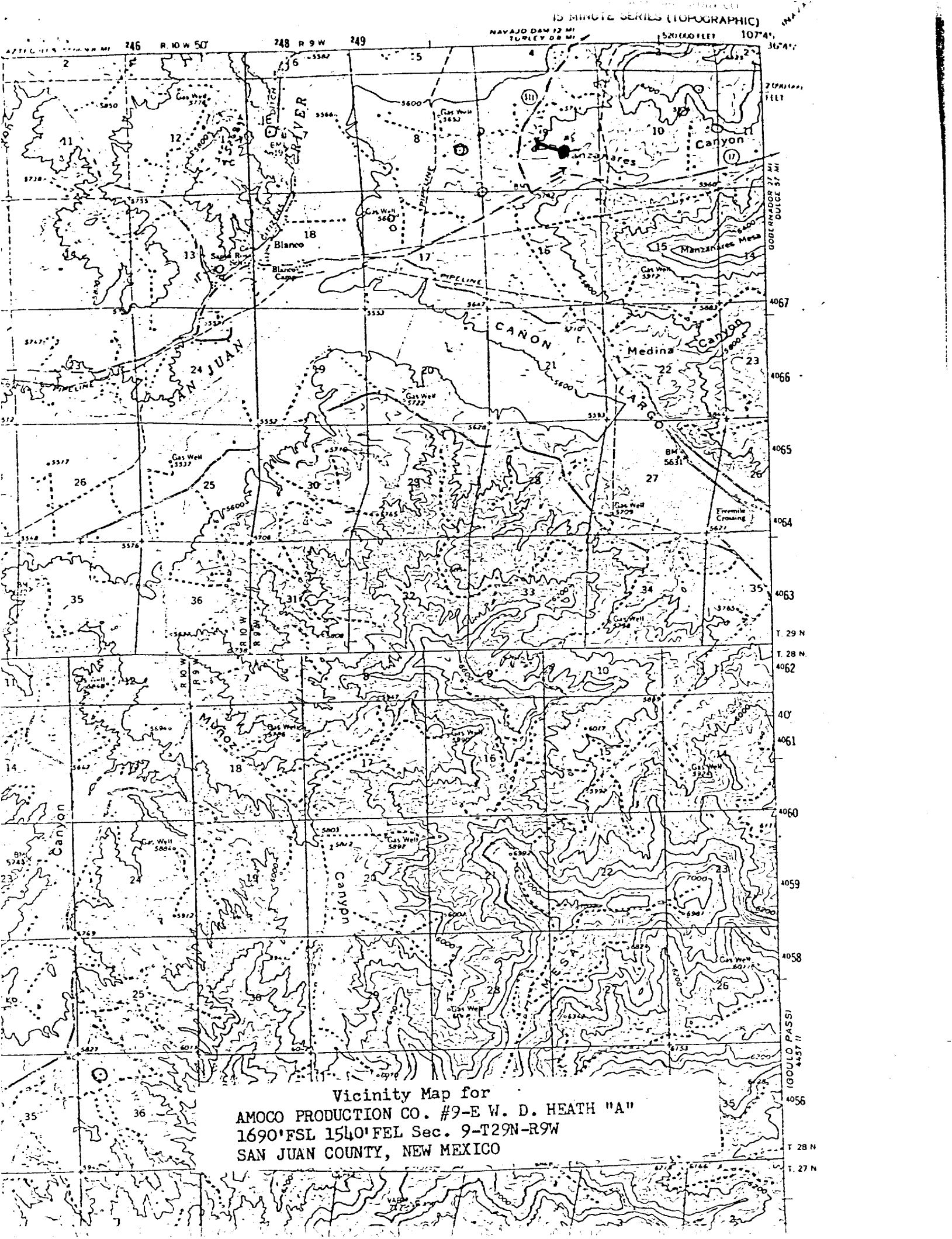
Representatives of the U. S. Geological Survey's Farmington Office and the Bureau of Land Management inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from Salmon Ruins.

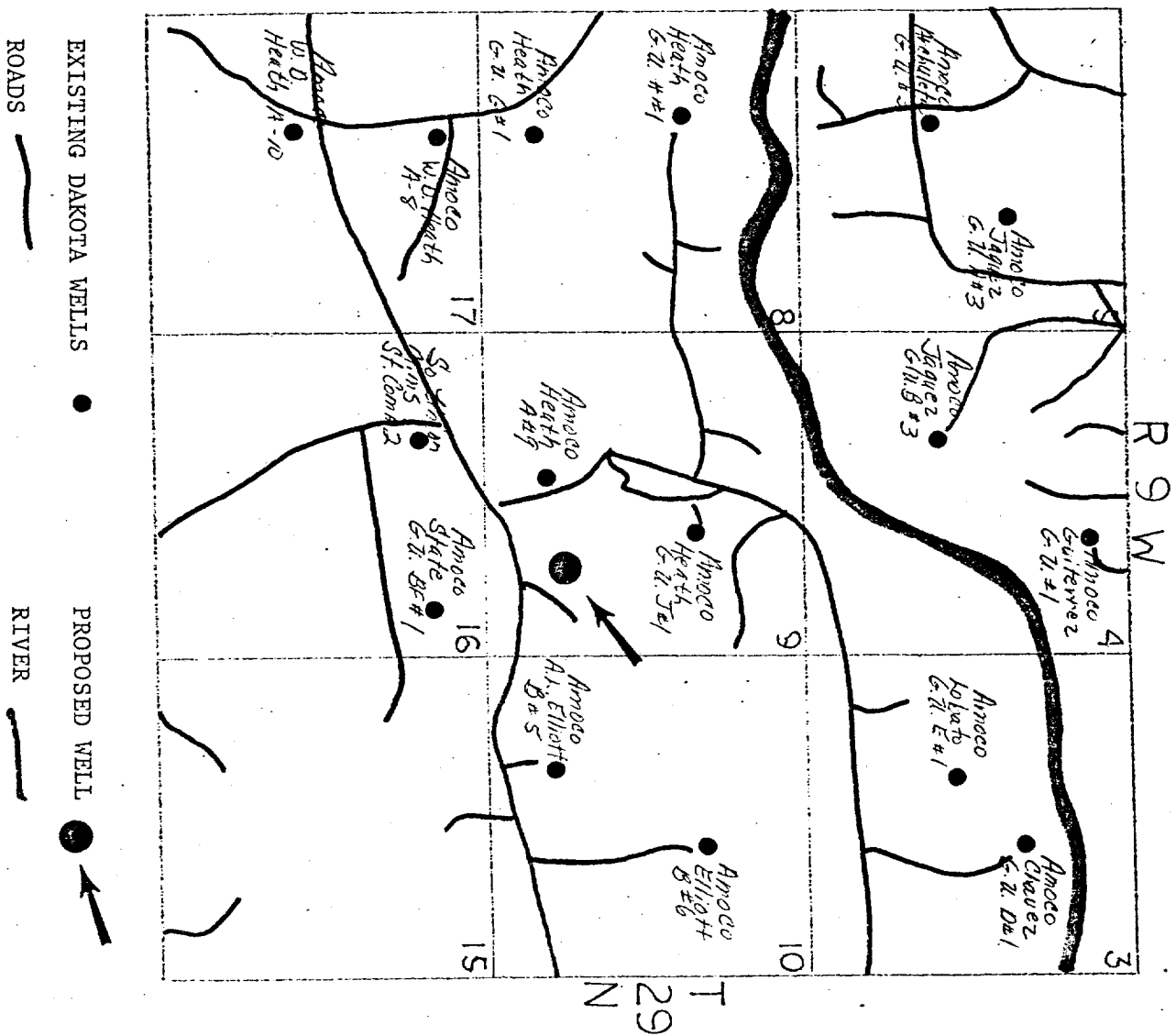
12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

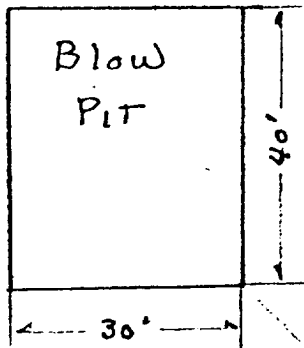
Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the 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.

Date April 30, 1980

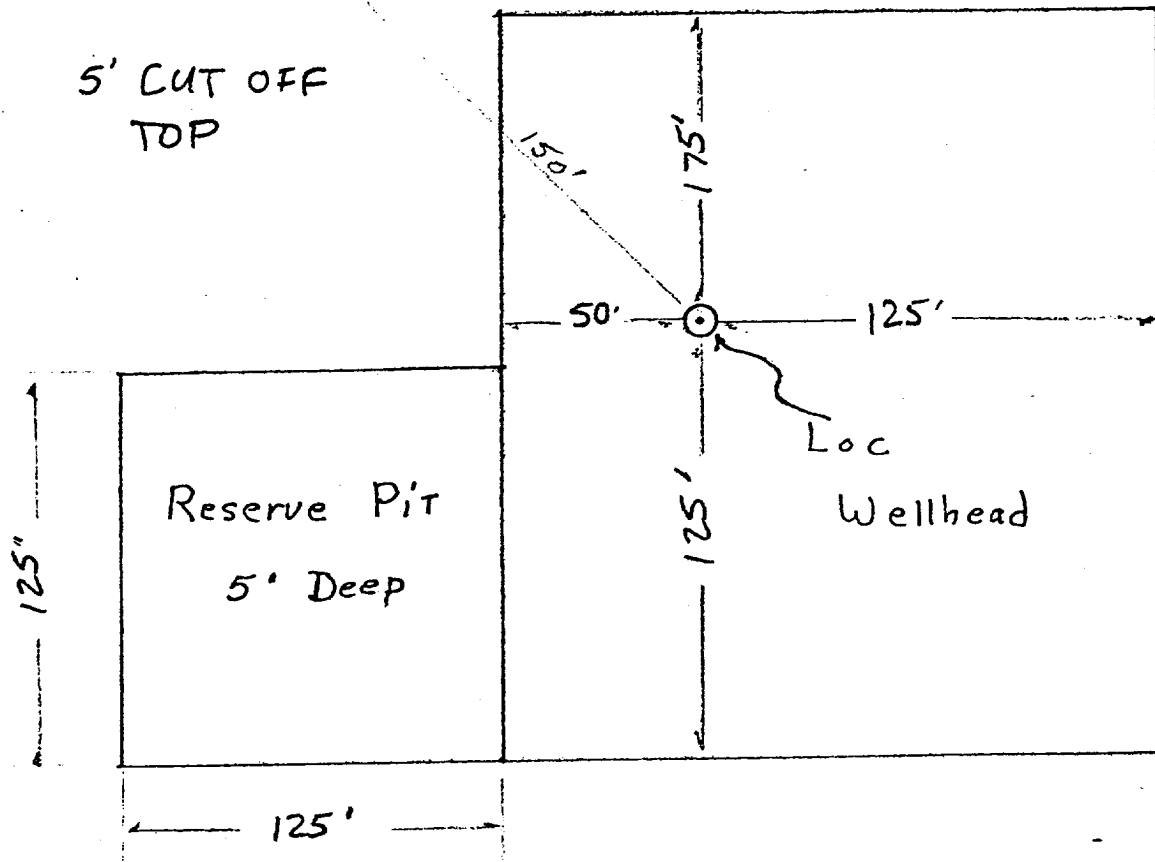

R. W. Schroeder, District Superintendent







5' CUT OFF
TOP



Trash Pit

Approximately 1.2 Acres

Amoco Production Company		SCALE: <i>NONE</i>
Drilling Location Specs		
W. D. HEATH "A" # 9E		DRG. NO.