

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY30-045-23941  
5. LEASE DESIGNATION AND SERIAL NO.

SF-076337

## 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"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>			7. UNIT AGREEMENT NAME		
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY			8. FARM OR LEASE NAME Heath Gas Com "P"		
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, NM 87401			9. WELL NO. 1		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 870' FSL and 790' FWL, Section 31, T30N, R9W At proposed prod. zone Same			10. FIELD AND POOL, OR WILDCAT Basin Dakota		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 8 miles North of Blanco, New Mexico			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/4, SW/4, Section 31, T30N, R9W		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 790'		16. NO. OF ACRES IN LEASE 2444.41		17. NO. OF ACRES ASSIGNED TO THIS WELL 308.56	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None		19. PROPOSED DEPTH 6879'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5740' GL				22. APPROX. DATE WORK WILL START* As soon as permitted	

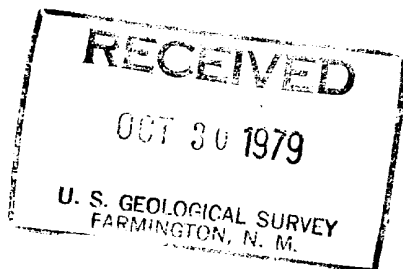
## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8 (New)	32.3#	300'	300 sx Class "B" Neat
8-3/4"	7 (New)	20#	2694'	435 sx Class "B" 50:50 POZ
6-1/4"	4-1/2 (New)	10.5#	6879'	360 sx Class "B" 50:50 POZ

The above well is being drilled to further develop the Dakota formation.

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

This non-standard proration unit was established by NMOCD Order R-2046 dated August 14, 1961.



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 October 25, 1979  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

NWU R-2046

ok Ench

NMOCD

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

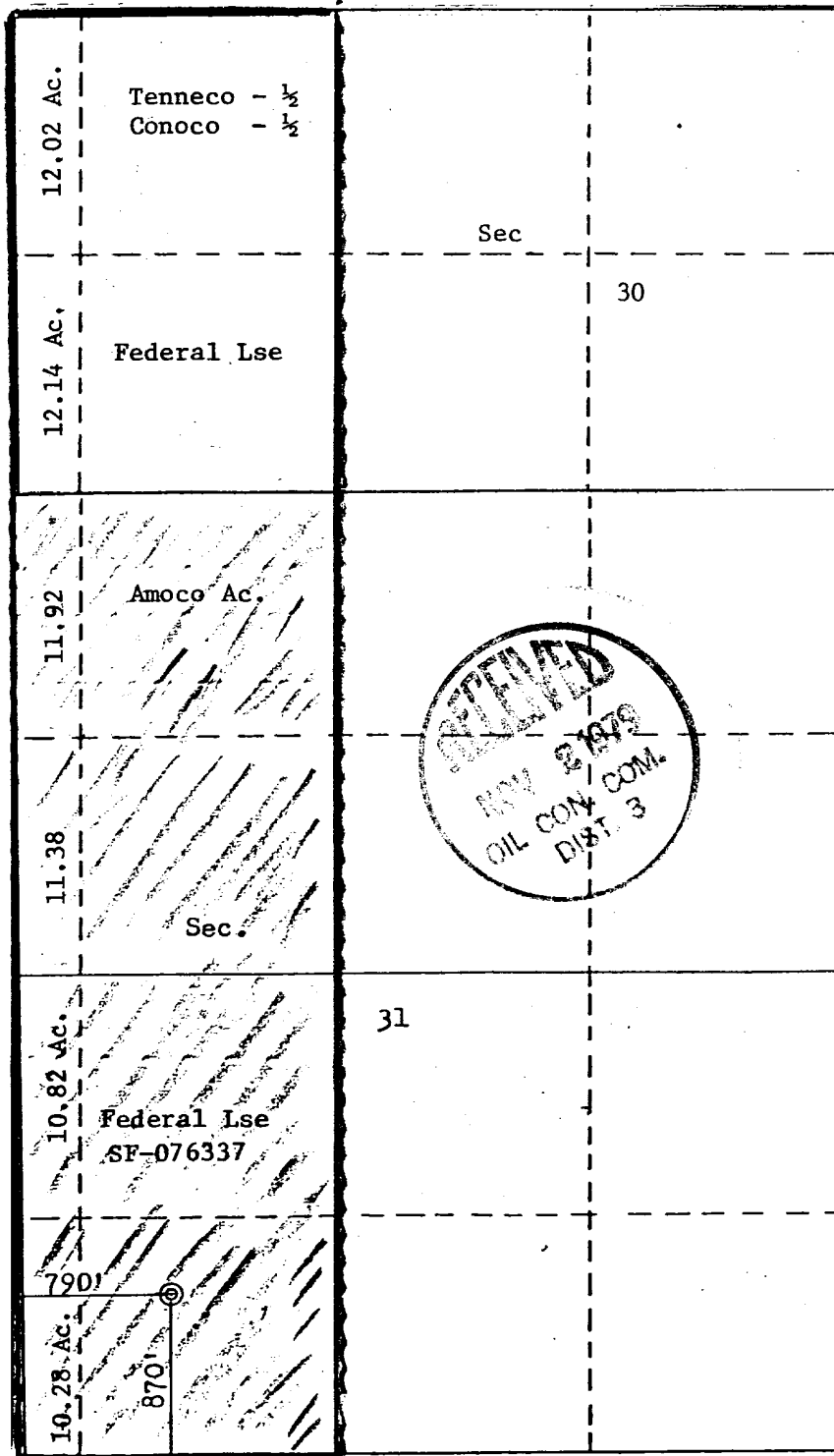
Operator AMOCO PRODUCTION COMPANY			Lease HEATH GAS COM "P"		Well No. 1
Unit Letter N	Section 31	Township 30N	Range 9W	County San Juan	
Actual Footage Location of Well: 870 feet from the South line and 790 feet from the West line					
Ground Level Elev. 5740'	Producing Formation Dakota		Pool Basin Dakota	Dedicated Acreage: 308.56 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.

*B. E. Fackrell*

Name  
B. E. FACKRELL  
Position  
DISTRICT ENGINEER  
Company  
AMOCO PRODUCTION COMPANY  
Date  
OCTOBER 18, 1979

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  
October 18, 1979  
Registered Professional Engineer  
and/or Land Surveyor No. 3346  
*Fred B. Kerr, Jr.*  
Certificate No. 3950  
B. KERR, JR.

SUPPLEMENTAL INFORMATION TO FORM 9-331C

HEATH GAS COM "P" NO. 1  
870' FSL & 790' FWL, SECTION 31, T30N, R9W  
SAN JUAN COUNTY, NEW MEXICO

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

Estimated tops of important potential hydrocarbon bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Fruitland	1974'	+3779
Pictured Cliffs	2294'	+3459
Mesaverde	3923'	+1830
Graneros Dakota	6544'	- 791
Main Dakota	6634'	- 881
TD	6879'	

Estimated KB elevation: 5753'

Drilling fluid to intermediate depth will be a low solids non-dispersed mud system and then with air to TD. Open hole logging program will include:

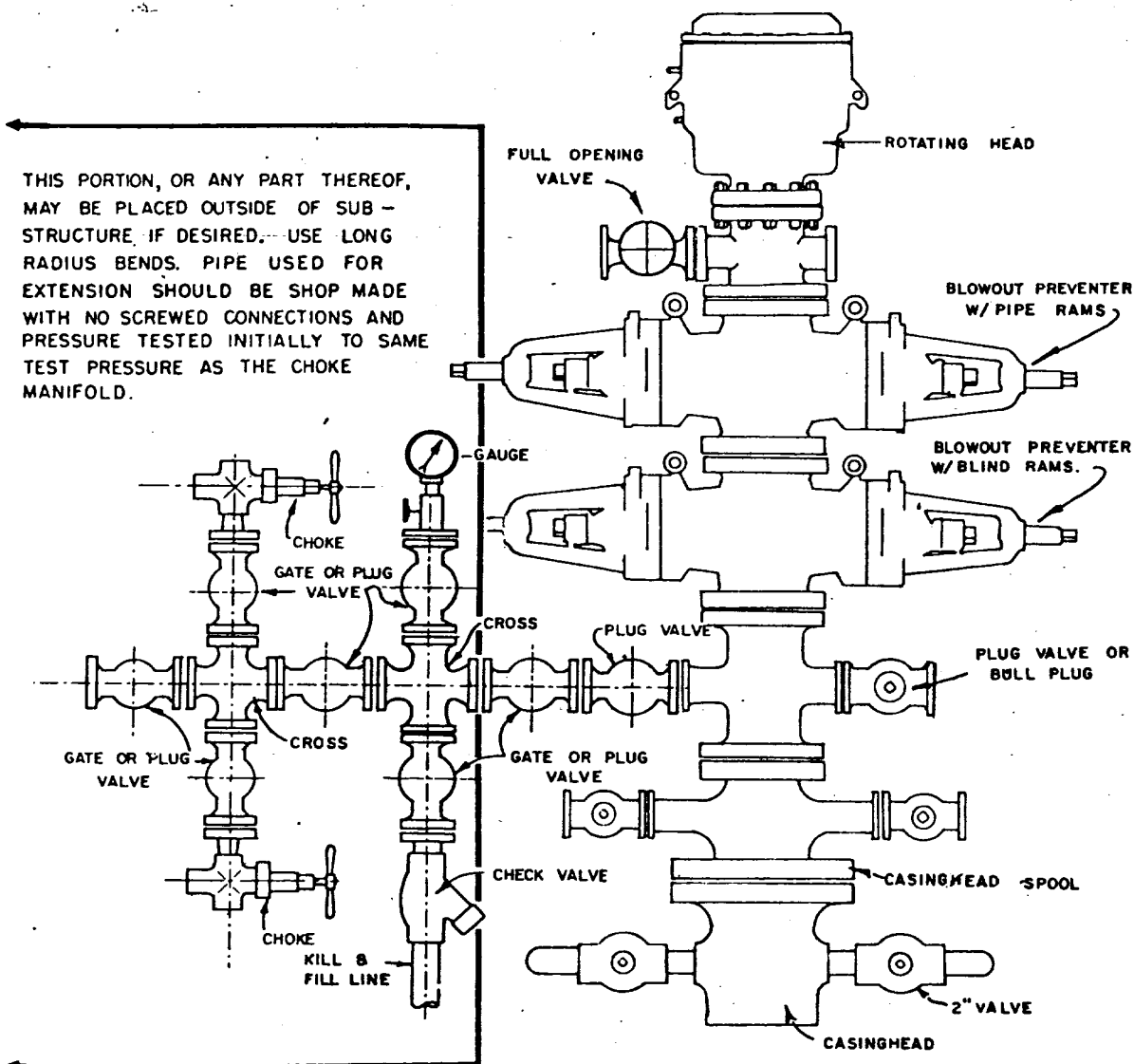
Induction - Gamma Ray	4000' - TD
Formation Density - Gamma Ray	4000' - TD
Sidewall Neutron - Gamma Ray	4000' - TD
Gamma Ray	Surface - 2000'

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 3 weeks.

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

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

MULTI-POINT SURFACE USE PLAN

HEATH GAS COM "P" NO. 1  
870' FSL & 790' FWL, SECTION 31, T30N, R9W  
SAN JUAN COUNTY, NEW MEXICO

1. The attached topographic map shows the proposed route to the location.
2. It will not be necessary to build a new access road.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
4. There are tanks and facilities located at nearby wells indicated on the topo map.
5. Water will be hauled from the San Juan River at Blanco.
6. No construction materials will be hauled in for this location.
7. A 100' by 100' 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.
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 3-foot cut will be made on northwest side.
10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Drilling mud will be hauled away and the reserve pit back filled. Reseeding of the site will be carried out as instructed by the Bureau of Land Management.
11. The general topography and soil characteristics is a sandy-type soil with vegetation consisting of sage, Russian thistle, native grasses, with cedar trees.

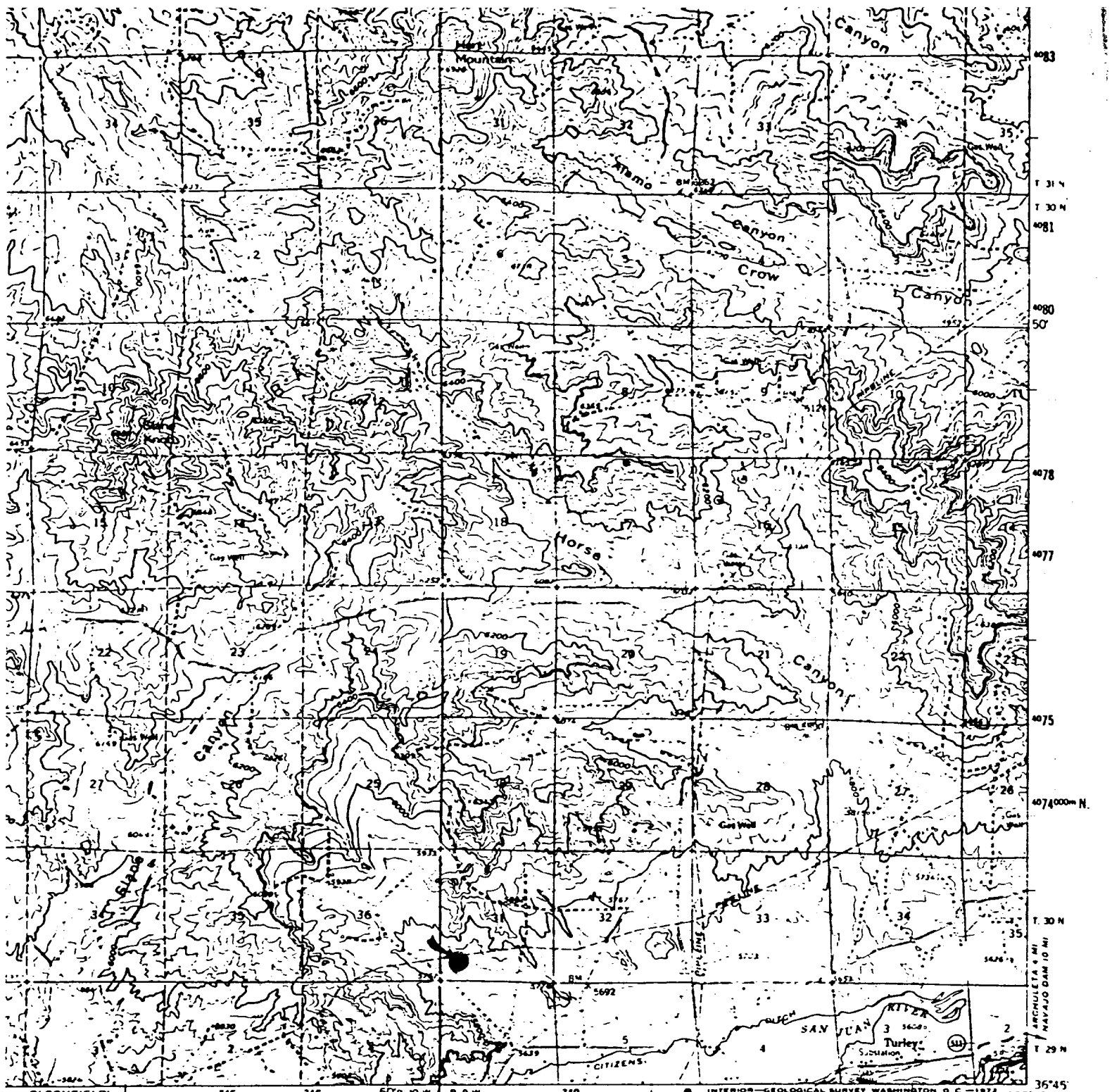
Representatives of the U. S. Geological Survey's Farmington Office and the Bureau of Land Management inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

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 October 23, 1979

R. W. Schroeder  
R. W. Schroeder, District Superintendent



SCALE 1:62500

2

9000 12000 15000

2 3 4

FOOT INTERVAL 40 FEET

(DATA IS MEAN SEA LEVEL)

Vicinity Map for  
 AMOCO PRODUCTION COMPANY #1 HEATH GAS COM #PH  
 870°FSL 790°FWL Sec 31-T30N-R9W  
 SAN JUAN COUNTY, NEW MEXICO

QUADRANGLE LOCATION

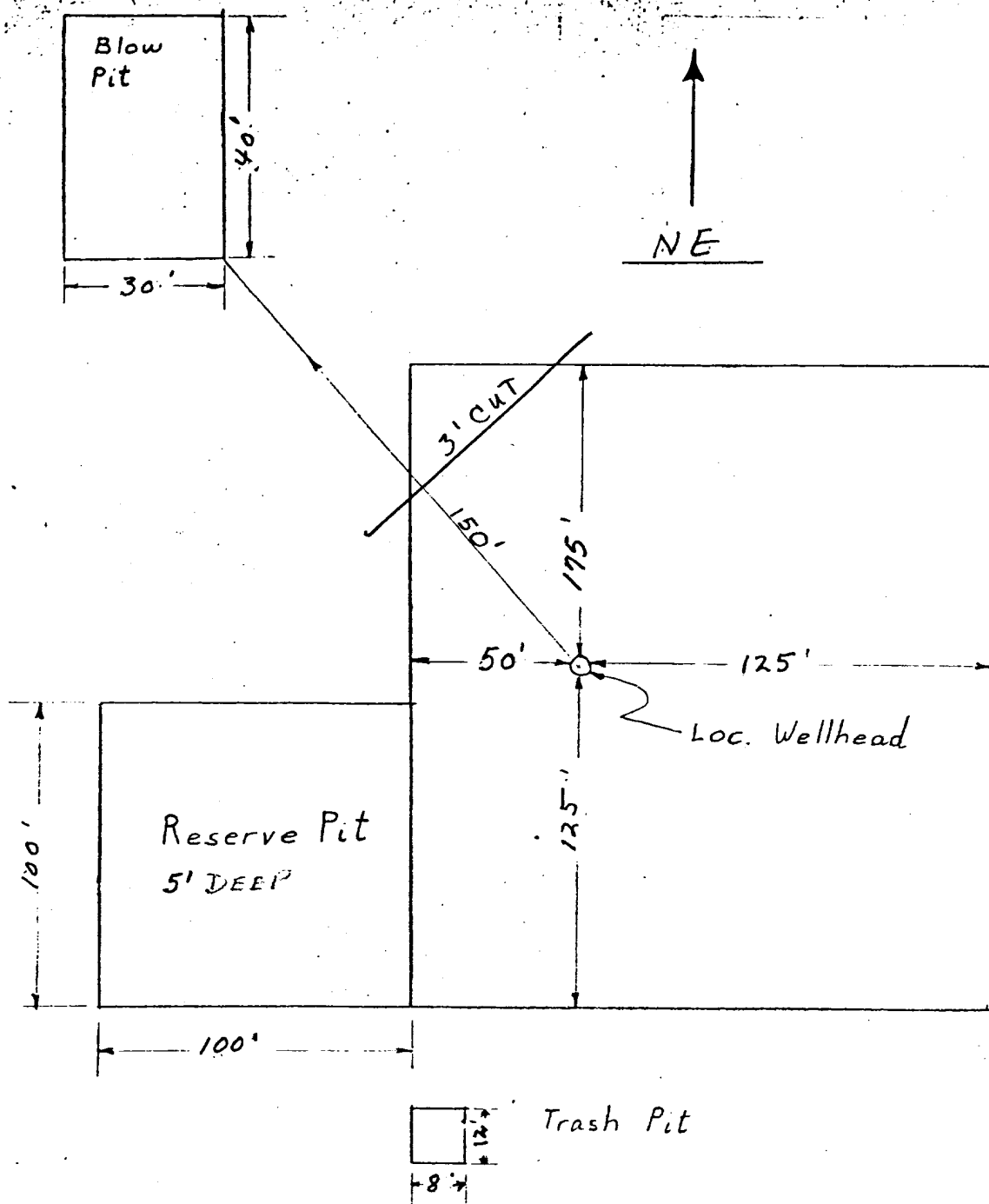
State Route

AZTEC, N. MEX.  
 N3645 - W10745/15

1959

AMS 4457 IV - SERIES V781

WITH NATIONAL MAP ACCURACY STANDARDS  
 U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR WASHINGTON, D. C. 2024  
 GRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



APPROXIMATELY 1.2 Acres

Amoco Production Company		SCALE: NONE
DRILLING LOCATION SPECS		
Heath Gas com "P" No. 1		DRG. NO.