

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

AMICO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
301 Airport Drive, Farmington, New Mexico 874014. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surfaceF 1760' FWL and 1710' FWL, Section 23, T25N, R4W
At proposed prod. zone Same

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

18 miles northeast of Counselor's New Mexico

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any) 1710'

16. NO. OF ACRES IN LEASE

2560.0

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 1950

19. PROPOSED DEPTH

8116

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Rotary

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

7094' GL

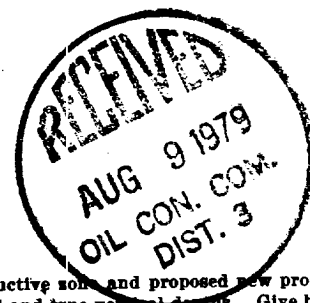
22. APPROX. DATE WORK WILL START*
As soon as permitted

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" (NEW)	32 #	300'	300 cu. Class "B" Neat
7-7/8"	5-1/2" (NEW)	17 # N80	8116'	1320 cu. Class "B" 50:50 Per
				360 cu. Class "B" Neat

The above well is being drilled to further develop the Gallup and Dakota formations.
The gas from this acreage is dedicated to Gas Company of New Mexico.



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. Jachul

TITLE

District Engineer

DATE

August 6, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE

AUG 8 1979

ok Frank

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

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.

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

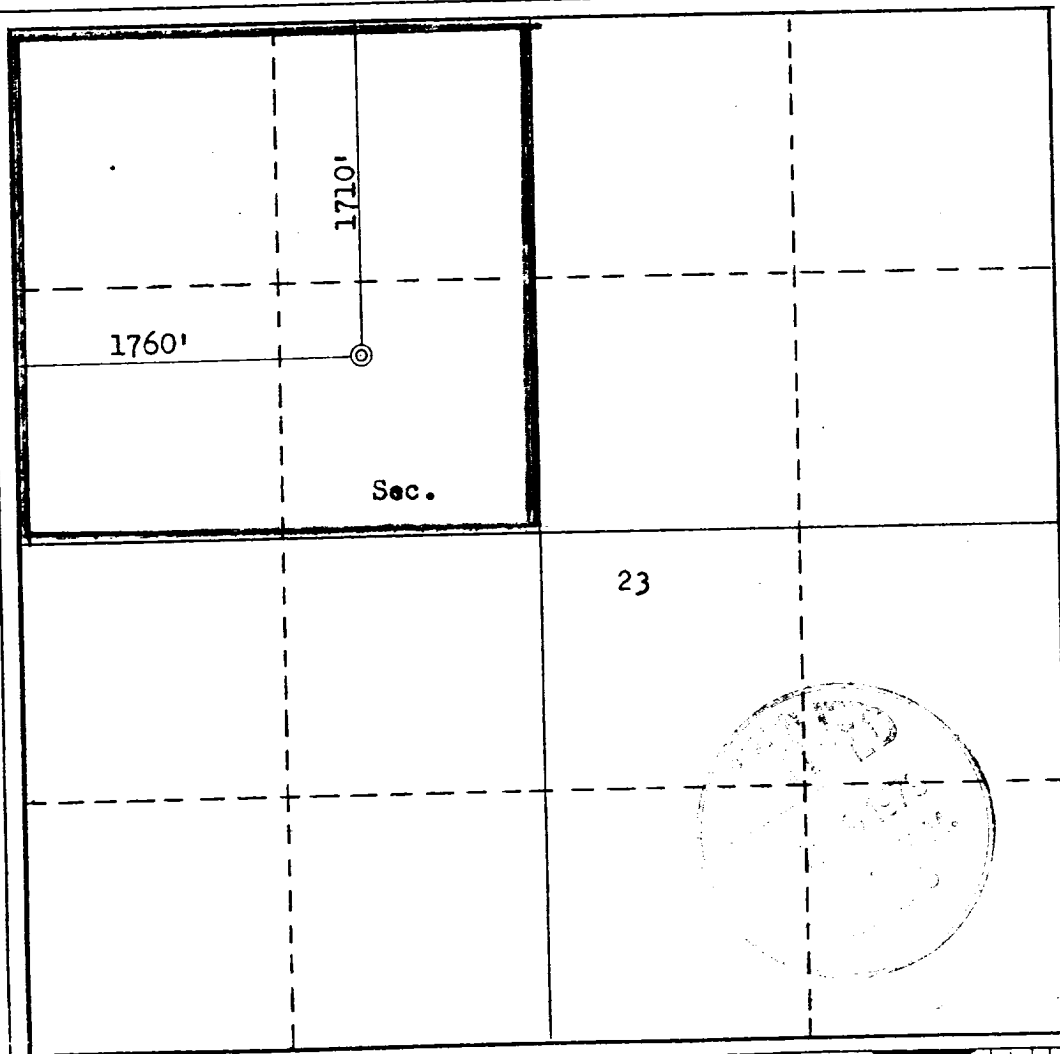
Operator AMOCO PRODUCTION COMPANY		Lease JICARILLA APACHE TRIBAL 124		Well No. 2
Unit Letter F	Section 23	Township 25N	Range 1W	County Rio Arriba
Actual Footage Location of Well: 1710 feet from the North line and 1760 feet from the West line				
Ground Level Elev. 7094	Producing Formation GALLUP - DAKOTA		Pool Lindriph Gal-Dakota West	Dedicated Acreage: 160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

B. E. Fackrell

Name

B. E. FACKRELL

Position

DISTRICT ENGINEER

Company

AMOCO PRODUCTION COMPANY

Date

JULY 30, 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

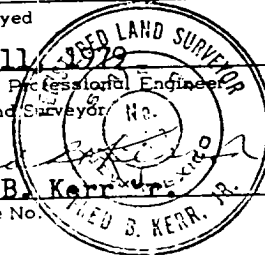
July 11, 1979

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr
Fred B. Kerr

Certificate No.

3950



SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA APACHE TRIBAL 124 NO. 2
1710' FNL & 1760' FWL, SECTION 23, T25N, R4W
RIO ARriba COUNTY, NEW MEXICO

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

Estimated tops of important potential hydrocarbon bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Pictured Cliffs	3506'	+3588'
Mesaverde	5165'	+1929'
Gallup	6766'	+ 328'
Dakota	7666'	- 572'
TD	8116'	

Estimated KB elevation: 7107'.

Drilling fluid to TD will be a low solids non-dispersed mud system. Open hole logging program will include logs from TD to base of Mesaverde.

Induction Electric - Spontaneous Potential - Gamma Ray

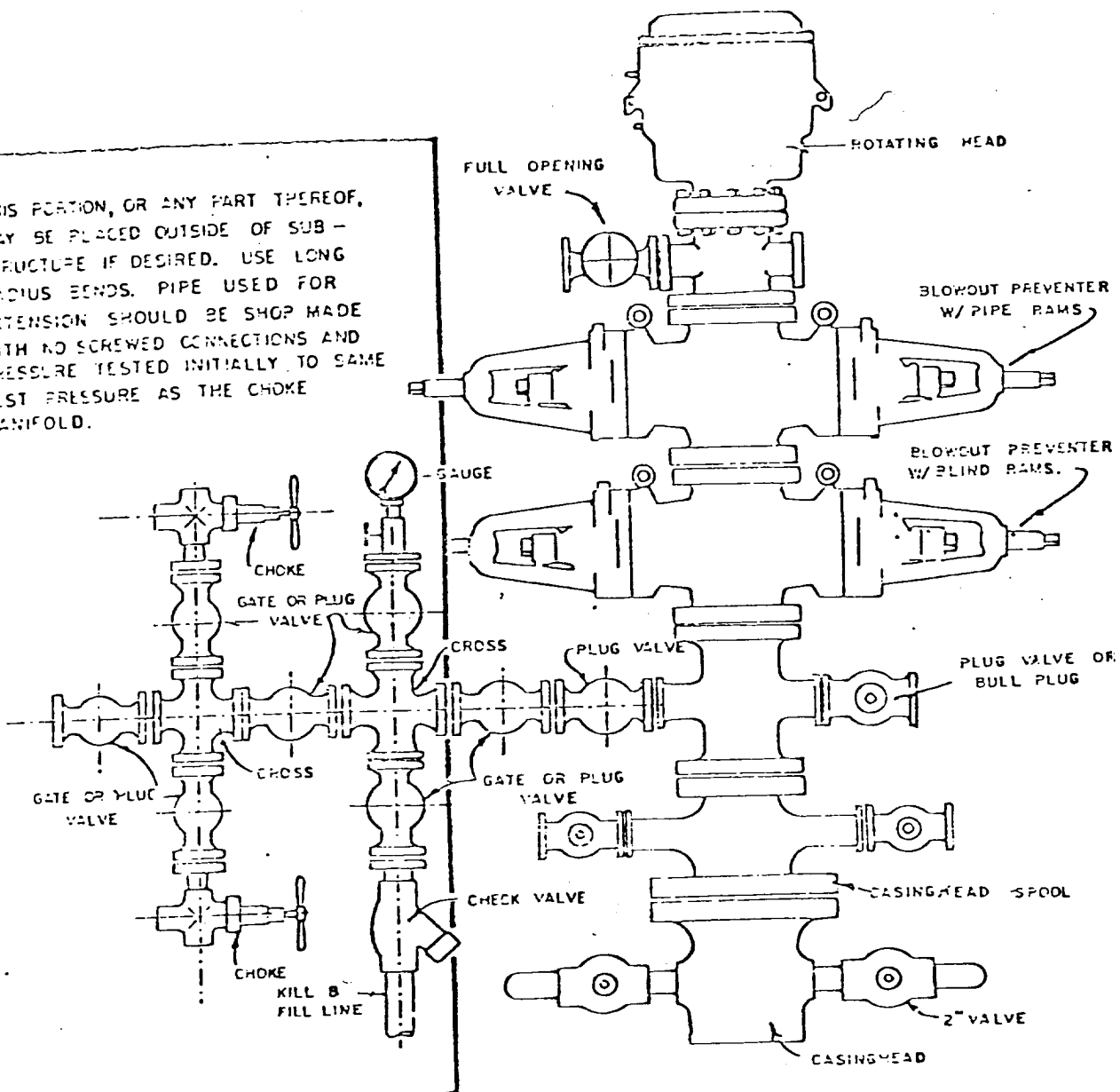
Compensated Neutron - Formation Density - Gamma Ray

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 three 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

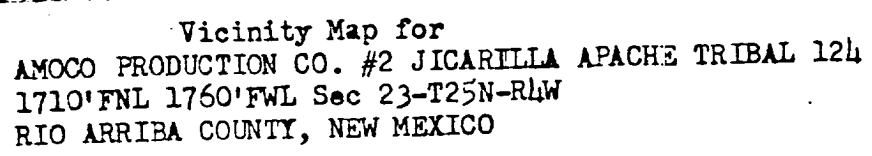
JICARILLA APACHE TRIBAL 124 NO. 2
1710' FNL & 1760' FWL, SECTION 23, T25N, R4W
RIO ARRIBA COUNTY, NEW MEXICO

1. The attached topographic map shows the proposed route to the location.
 2. It will be necessary to build approximately 2700 feet of new road 20 feet wide.
 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 300-barrel tanks located at Jicarilla Apache Tribal 124 Well No. 1.
 5. Water will be hauled from Cottonwood water hole at Largo a distance of 10 miles.
 6. No construction materials will be hauled in for this location.
 7. A 150' by 150' pit will be built on location to hold all drilling waste. Upon completion of the well, all waste and liquids will be pumped out and fluids 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 5-foot cut will be made on southwest 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 Indian Affairs.
 11. The general topography is a sandy loam-type soil with a few cedar trees and vegetation consisting of sagebrush and grasses.
- Representatives of the U. S. Geological Survey's Durango Office and the Jicarilla Tribe's Dulce Office will inspect the site with Amoco personnel. Cultural resources inspection will be 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

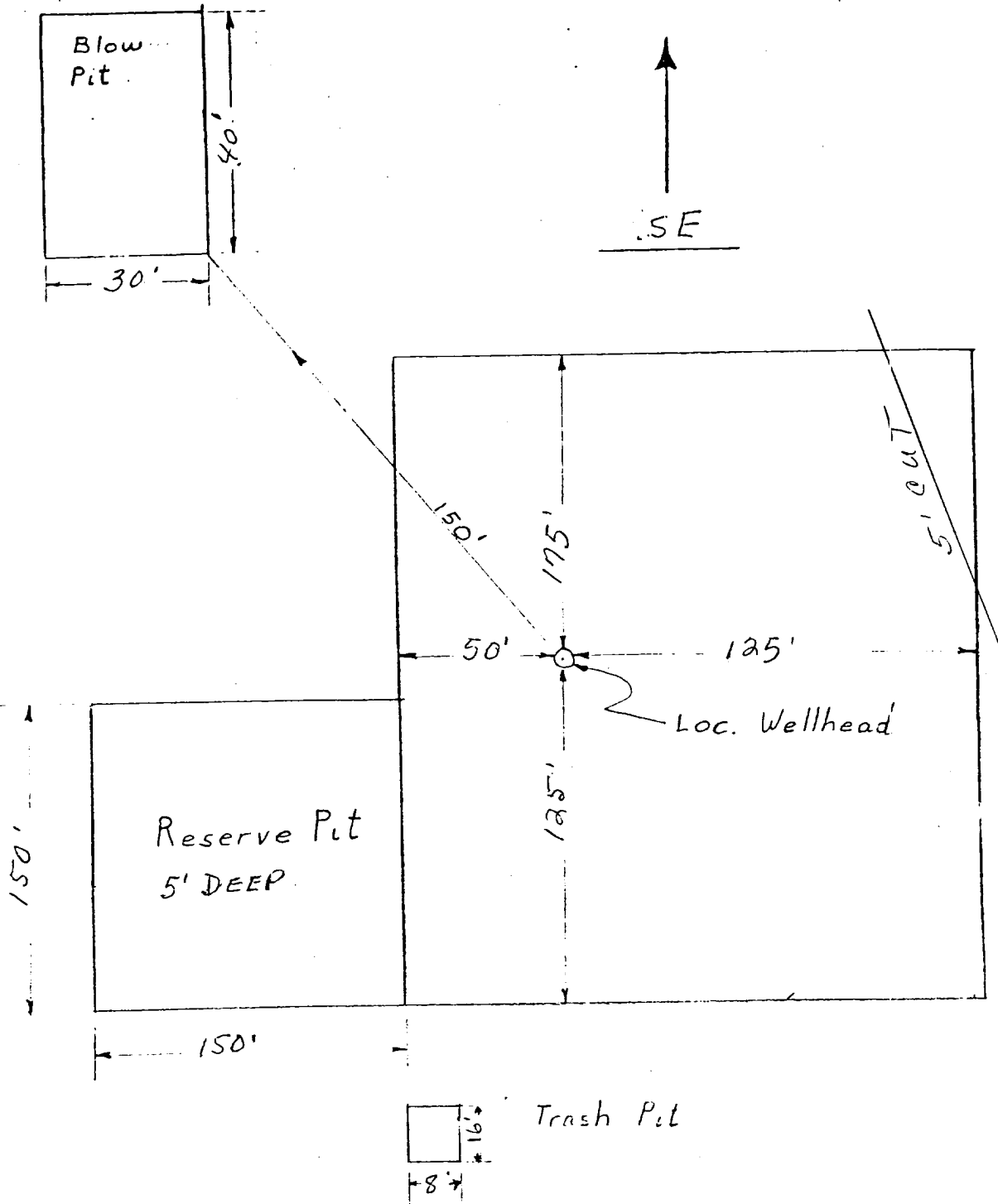
Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the 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 July 30, 1979

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



Vicinity Map for
AMOCO PRODUCTION CO. #2 JICARILLA APACHE TRIBAL 124
1710'FNL 1760'FWL Sec 23-T25N-R4W
RIO ARriba COUNTY, NEW MEXICO



APPROXIMATELY 1.2 Acres

Amoco Production Company		SCALE: NONE
DRILLING LOCATION SPECS		
JICARILLA APACHE TRIBAL 134 NO. 2		ORG. NO.