

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

1120' FNL and 1120' FEL, Section 15, T25N, R5W

At proposed prod. zone

Same

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

14-1/2 miles Northeast of Counselor, New Mexico

13. DISTANCE FROM PROPOSED*

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

1120'

18. DISTANCE FROM PROPOSED*

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

2413'

16. NO. OF ACRES IN LEASE

2560

19. PROPOSED DEPTH

4165'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160 + 160

20. ROTARY OR CABLE TOOLS

Rotary

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

7002' 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)	24# K-55	300'	310 sx Class "B" w/2% CaCl ₂ -circ
7-7/8"	5-1/2" (New)	15.5# K-55	4165'	Stage 1: 210 sx Class "B" Neat-circ Stage 2: 570 sx CI B 50:50 POZ, 6% gel, 2% med tuf plug/sx and .8% FLA. Tail in w/100 sx CI B Neat-circ.

Amoco proposes to drill the above dual well to further develop the So. Blanco Pictured Cliffs/Otero Chacra reserves. The well will be drilled to the surface casing point using native mud. The well will then be drilled to TD with a low solids nondispersed mud system. Completion design will be based on open hole logs. A copy of all logs will be filed upon completion. Additional information required by NTL-6 for the application to drill and a multi-point surface use plan are attached.

The gas from the Pictured Cliffs is dedicated to Northwest Pipeline Co. and the gas from the Chacra is dedicated to El Paso Natural Gas Co.

Set DV tool at 3345'.



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

W. L. Peterson

TITLE

District Engineer

DATE October 3, 1980

(This space for Federal or State other use)

AS AMENDED

PERMIT NO.

APPROVAL DATE

APPROVED BY
CONDITIONS OF*R. W. Sims*
OCT 17 1980
DISTRICT ENGINEER

TITLE

DATE

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-107
Revised 10-1-78

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

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

Operator AMOCO PRODUCTION COMPANY			Lease JICARILLA CONTRACT 148		Well No. 25
Unit Letter A	Section 15	Township 25N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 1120 feet from the North line and 1120 feet from the East line					
Ground Level Elev: 7002	Producing Formation Chacra/Mesaverde		Pool Otero Chacra/Gonzales Mesaverde		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.

Sec.		1120'	
		1120'	
15			

Scale: 1"=1000'

CERTIFICATION

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

R.A. Downey
Name
R.A. DOWNEY

Position
DISTRICT ENGINEER

Company
AMOCO PRODUCTION COMPANY

Date
SEPTEMBER 8, 1988

RECEIVED
OCT 17 1988
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 29, 1988

Registered Professional Engineer
and Land Surveyor

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

Certificate No.
3950

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA CONTRACT 148 NO. 25
1120' FNL & 1120' FEL, SECTION 15, T25N, R5W
RIO ARriba COUNTY, NEW MEXICO

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

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	2645'	4370'
Kirtland	2844'	4171'
Fruitland	3040'	3975'
Pictured Cliffs	3195'	3820'
Chacra (if present)	4085'	2930'
Mesaverde [Cliff House	'	'
[Point Lookout	'	'
Gallup	'	'
Dakota	'	'
TD	4165'	2850'

Estimated KB elevation: 7015'

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

DIL-SP-GR: Surf-TD
FDC-CNL-GR: Surf-TD
GR: 0-2000'

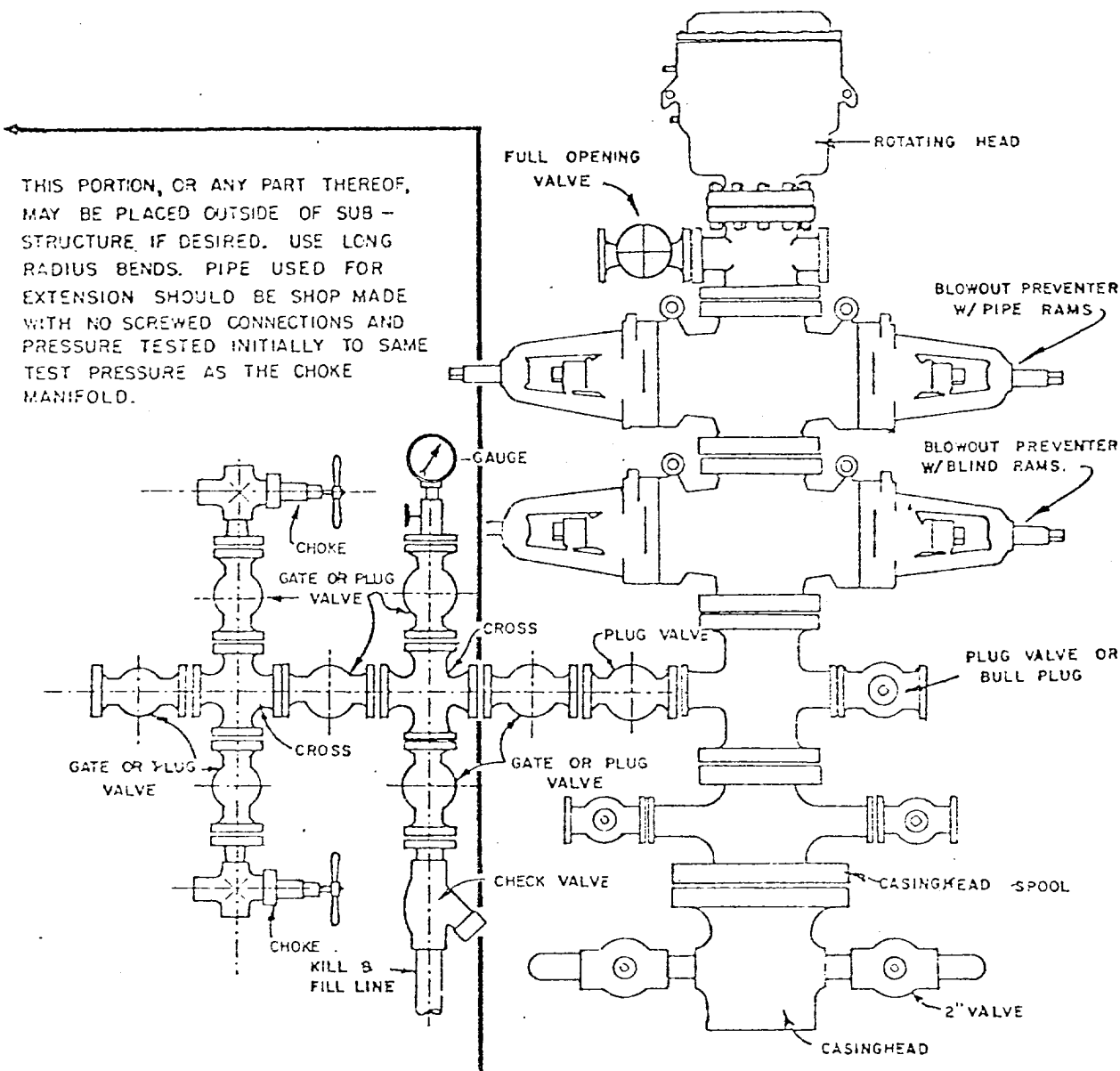
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 3 weeks.

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

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 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

JICARILLA CONTRACT 148 NO. 25
1120' FNL & 1120' FEL, SECTION 15, T25N, R5W
RIO ARriba COUNTY, NEW MEXICO

1. The attached topographic map shows the proposed route to the location.
2. It will be necessary to improve an access road approximately 300 feet in length, 20 feet wide, and bar ditched on one side.
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 Jicarilla Contract 148 Well No. 13, approximately one-half mile west.
5. Water will be hauled from Tapacito Wash.
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 1-foot cut will be made on south corner.
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 Indian Affairs.
11. The general topography is a broken ridge top with northeast and southwest drainage, and alluvial surface deposits, with a sandy clay loam soil; vegetation consists of pinon and juniper trees, mountain mahogany, sagebrush, and native grasses.

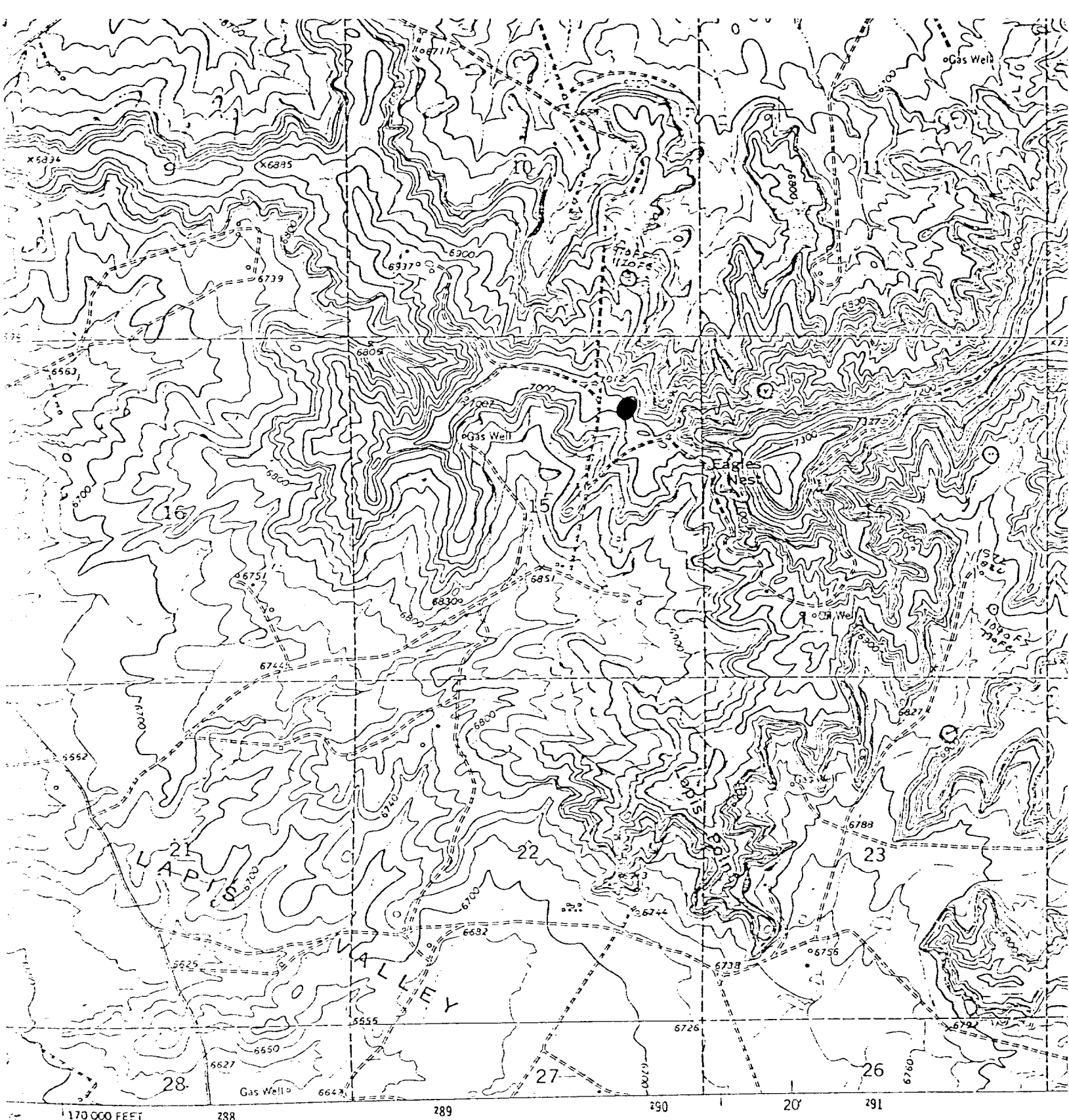
Representatives of the U. S. Geological Survey's Farmington Office and the Jicarilla Tribe's Dulce Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

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.

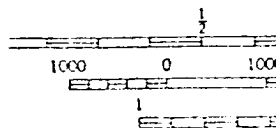
Date October 1, 1980

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



mapped, edited, and published by the G
 by USGS and USC&GS
 by photogrammetric methods from aerial
 photos taken 1962. Field checked 1963
 projection. 1927 North American datum
 1000 foot grid based on New Mexico coordinate system, central zone
 10 meter Universal Transverse Mercator grid ticks,
 1:13 shown in blue
 area is within the San Juan Basin gas field.

Vicinity Map for
 AMOCO PRODUCTION CO. #25 JECARILLA CONTRACT 148
 1120'FNL 1120'FEL Sec. 15-T25N-R5W
 RIO ARriba COUNTY, NEW MEXICO



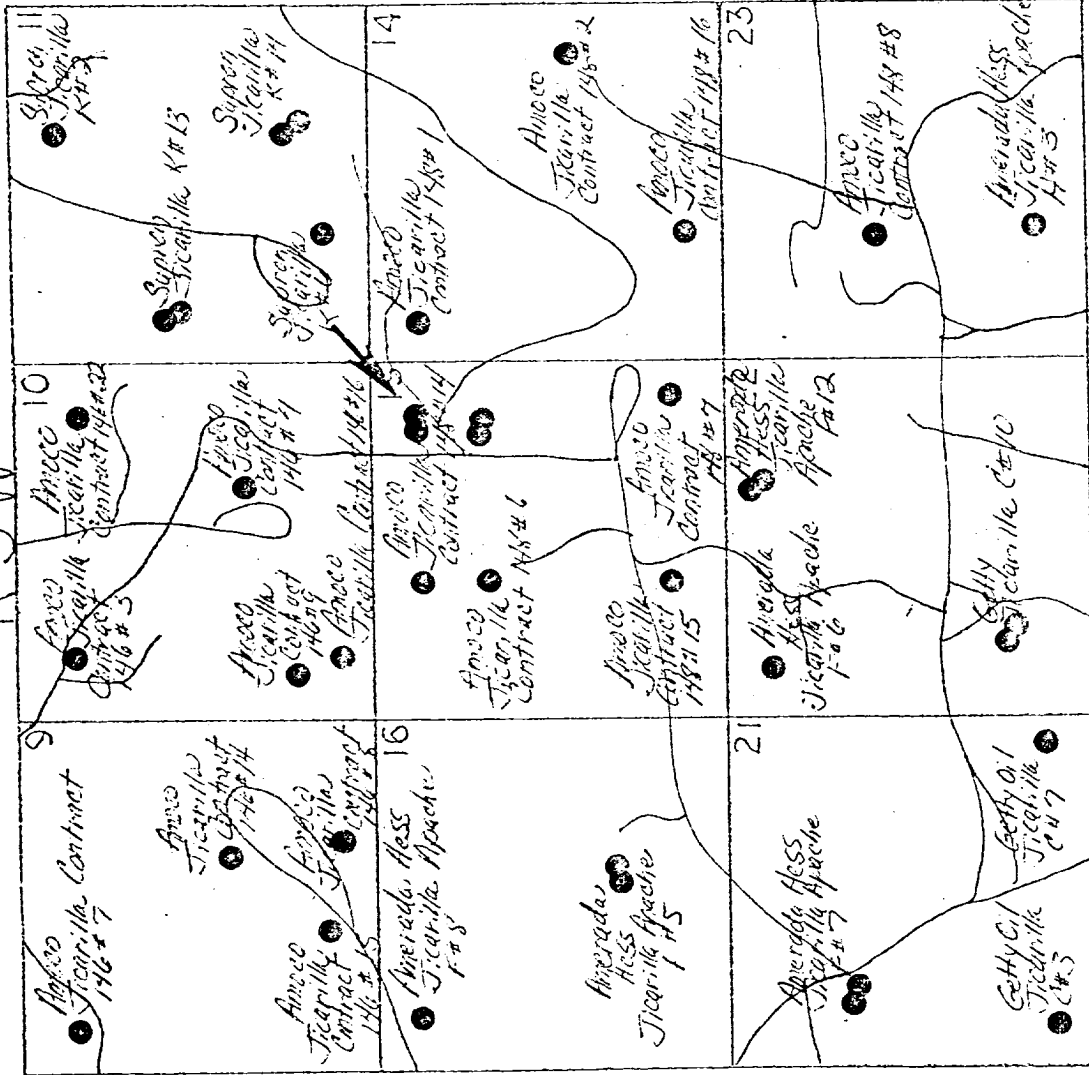
1°22' 11" 24 MILES
 24 MILES 7240 MILES

UTM GRID AND 1963 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET

THIS MAP COM
 FOR SALE BY U.S. GEOLOGICAL

R 5 W

T 25 N

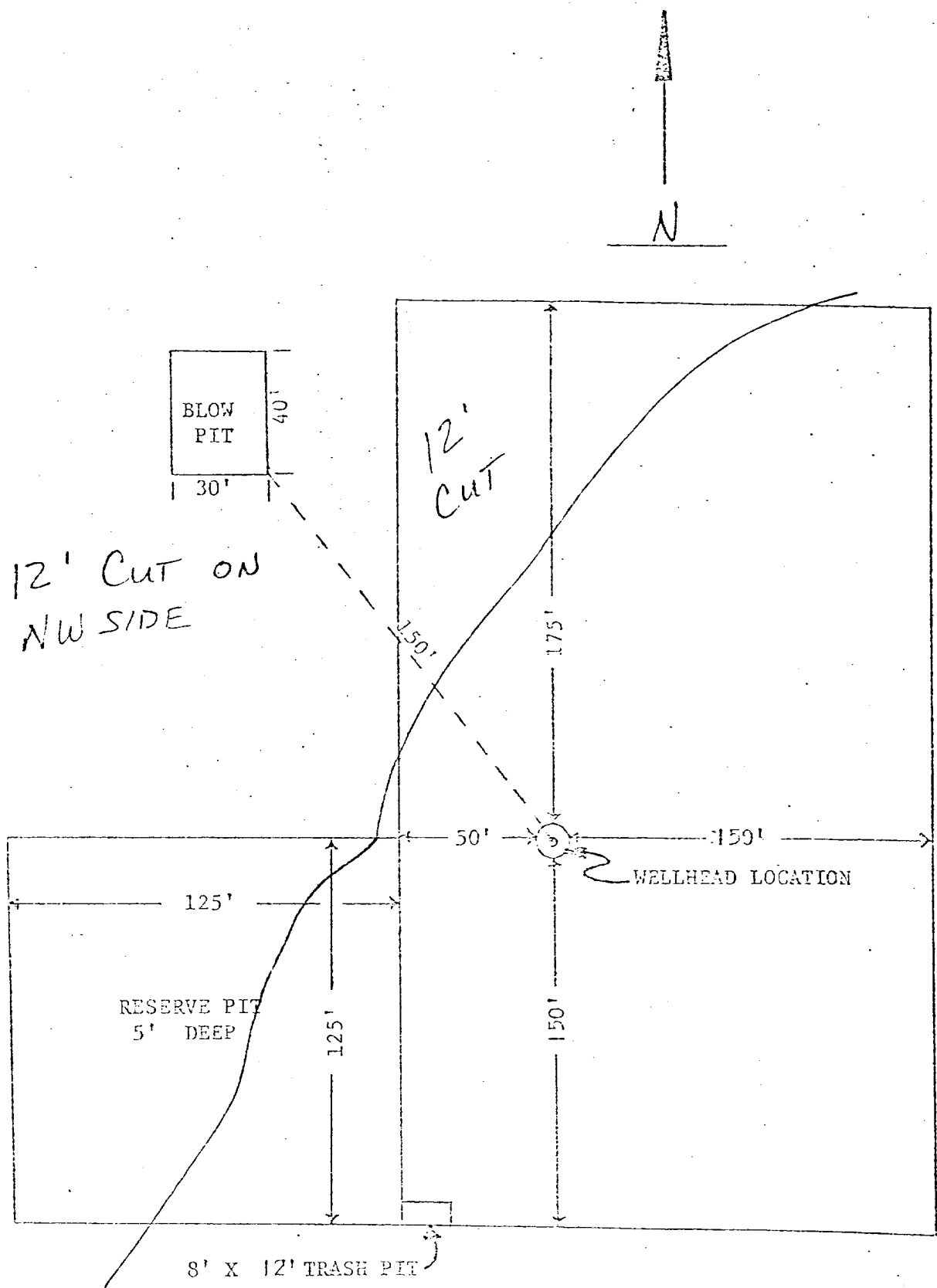


● EXISTING OTERO CHACRA WELLS

● PROPOSED WELL LOCATION

● EXISTING SO. BLANCO PICTURED CLIFFS WELLS

● ROADS



APPROXIMATELY 1.2 ACRES

Amoco Production Company
 DRILLING LOCATION SPECIFICATIONS
 TUGALUA CONTRACT 142 #25

SCALE: 1"=50'

DRG.
 500