

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

2. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐
SINGLE ZONE ☐ MULTIPLE ZONE ☒

3. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

4. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, New Mexico 37401

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
1685' FSL and 1570' FEL, Section 32, T26N, R5W
At proposed prod. zone
Same

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
16-1/2 miles North Northeast of Counselor, New Mexico

7. DISTANCE FROM PROPOSED LOCATION*
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)
1570'
8. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
90'

9. ELEVATIONS (Show whether DF, RT, CR, etc.)
6513' GL

PROPOSED CASING AND CEMENTING PROGRAM

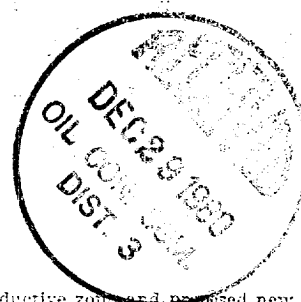
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
12-1/4"	8-5/8" (New)	24# K-55	300'
7-7/8"	5-1/2" (New)	15.5# K-55	5288'

30-039-2 2568
5. LEASE DESIGNATION AND SERIAL NO.
Jicarilla Contract 155
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Jicarilla Contract 155
9. WELL NO.
27
10. FIELD AND POOL OR WILDCAT
Gonzales Mesaverde
Otero Chacra
11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
NW/4, SE/4, Section 32,
T26N, R5W
12. COUNTY OR PARISH
Rio Arriba
13. STATE
New Mexico
14. NO. OF ACRES IN LEASE
2477.56
15. NO. OF ACRES ASSIGNED TO THIS WELL
160
16. PROPOSED DEPTH
5238'
17. ROTARY OR CABLE TOOLS
Rotary
18. APPROX. DATE WORK WILL START*
As soon as permitted

Amoco proposes to drill the above dual well to further develop the Otero Chacra/Gonzales Mesaverde 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 this well is not dedicated to a gas sales contract.

Set DV tool at 3610'.



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.

SIGNED W. L. Peterson TITLE District Engineer DATE October 3, 1980

(This space for Federal or State Engineer)
AS AMENDED

PERMIT NO. DEC 23 1980 APPROVAL DATE

APPROVED BY JAMES F. SIMS TITLE DISTRICT ENGINEER DATE

ah-Sun

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

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

Operator AMOCO PRODUCTION COMPANY		Lease JICARILLA CONTRACT 155		Well No. 27	
Unit Letter J	Section 32	Township 26N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 1685 feet from the South line and 1570 feet from the East line					
Ground Level Elev: 6513	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.		32	
		1570'	
		1685'	

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, 1980

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 28, 1980

Registered Professional Engineer
and Land Surveyor

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

Certificate No. **3950**
KERR, JR.

SUPPLEMENTAL INFORMATION TO FORM 9-331C
JICARILLA CONTRACT 155 NO. 27
1685' FSL & 1570' FEL, SECTION 32, T26N, 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	2385 '	4141 '
Kirtland	2535 '	3991 '
Fruitland	2685 '	3841 '
Pictured Cliffs	2850 '	3676 '
Chacra (if present)	3740 '	2786 '
Mesaverde [Cliff House	4518 '	2008 '
Point Lookout	5072 '	1454 '
Gallup	'	'
Dakota	'	'
TD	5288 '	1238 '

Estimated KB elevation: 6526 '

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'

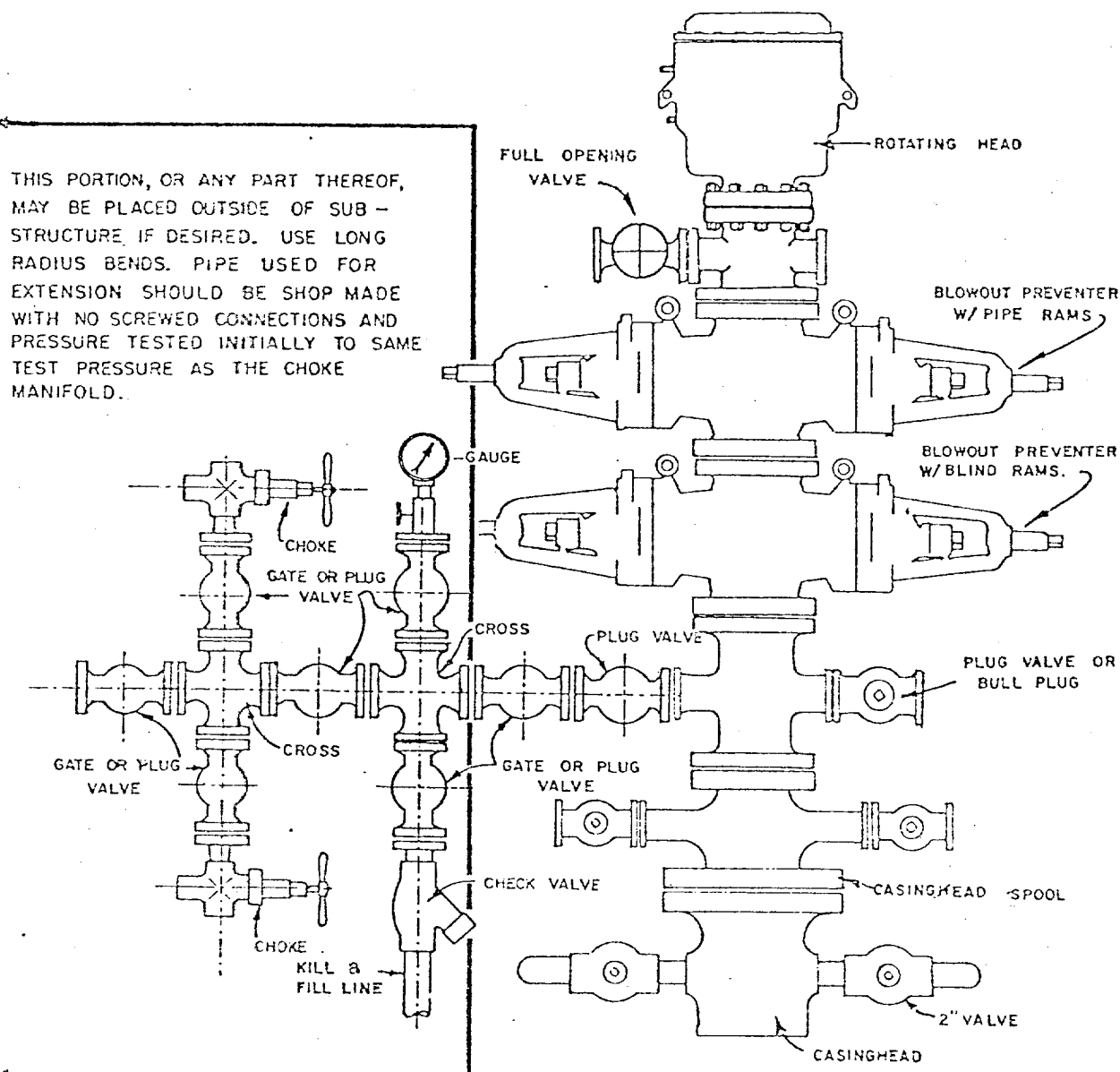
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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 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 155 NO. 27
1685' FSL & 1570' FEL, SECTION 32, T26N, R5W
RIO ARRIBA COUNTY, NEW MEXICO

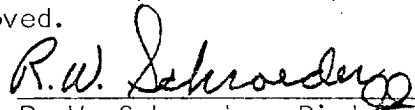
1. The attached topographic map shows the proposed route to the location.
2. It will not be necessary to build any access road.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
4. There is a 380-barrel tank and facilities located at Jicarilla Contract 155 Well No. 23, approximately one-fourth mile southwest.
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 3-foot cut will be made on southeast 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 rincon with southwesterly drainage, alluvial surface deposits, and sandstone outcrops, with a sandy clay loam soil; vegetation consists of pinon and juniper, sagebrush, and native grasses.

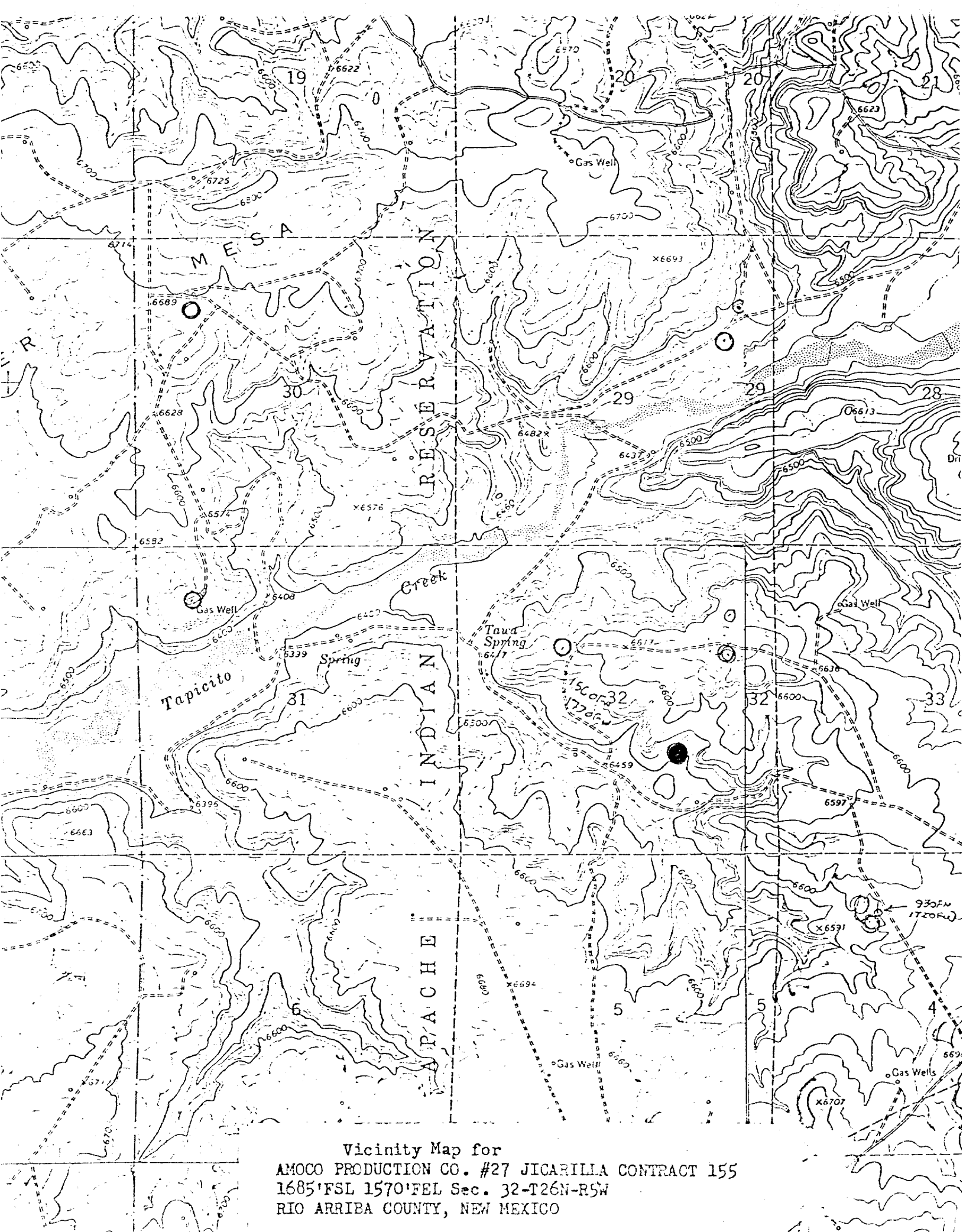
Representatives of the U. S. Geological Survey's Farmington Office and the Jicarilla Tribe's Dulce Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

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.

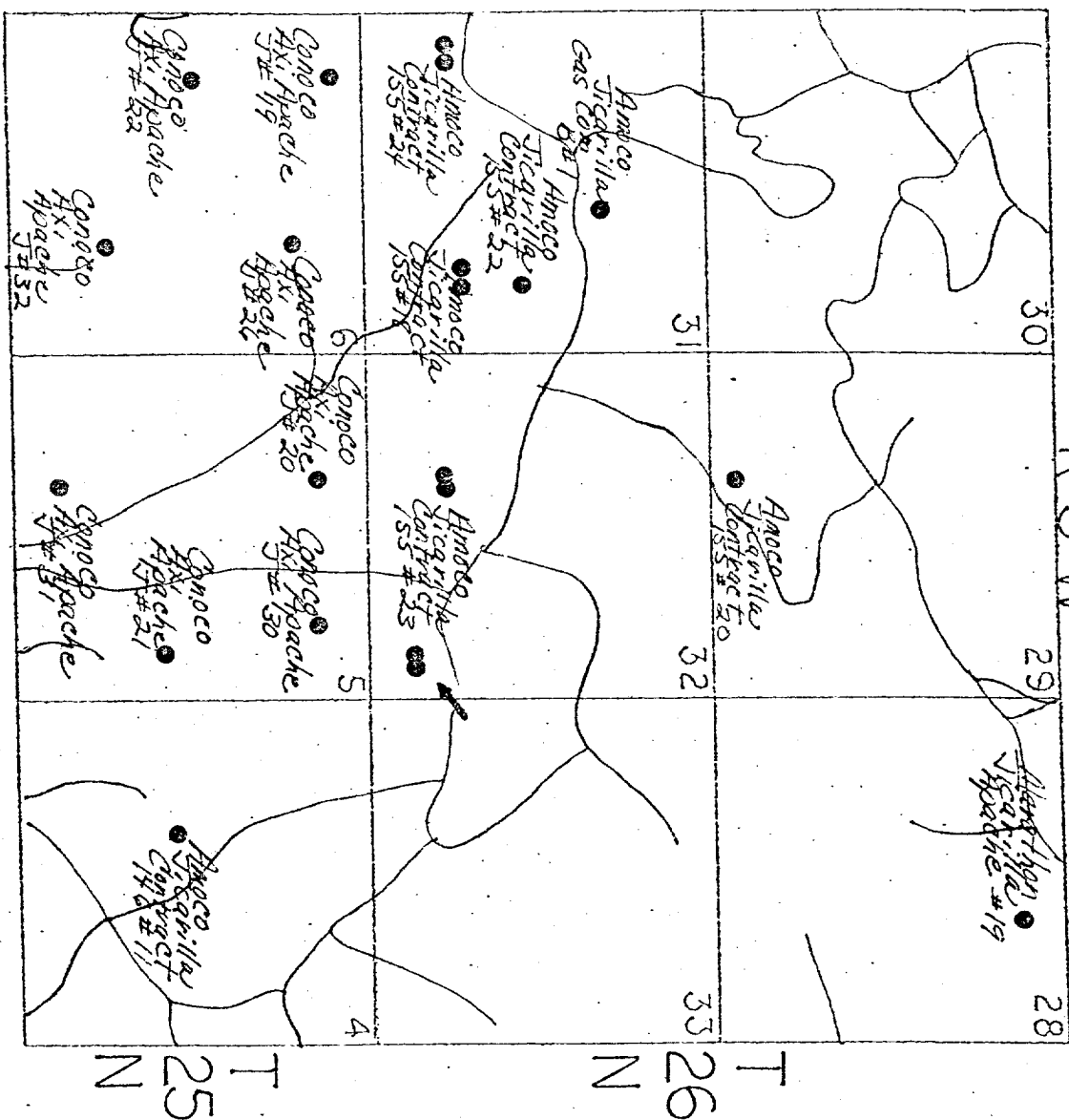
Date October 1, 1980


R. W. Schroeder, District Superintendent



Vicinity Map for
AMOCO PRODUCTION CO. #27 JICARILLA CONTRACT 155
1685'FSL 1570'FEL Sec. 32-T26N-R5W
RIO ARriba COUNTY, NEW MEXICO

R 5 W



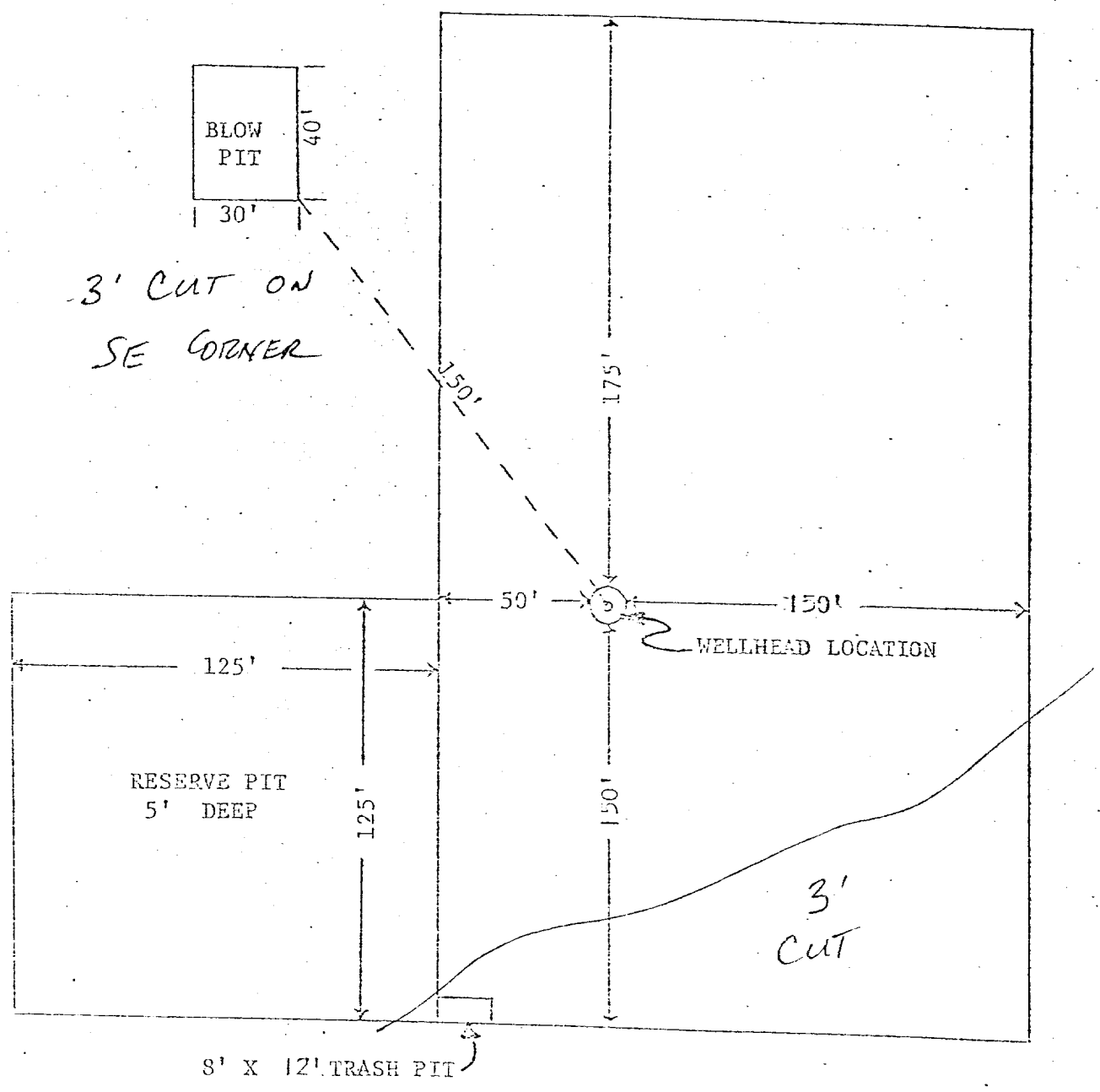
● EXISTING OTERO CHACRA WELLS

● EXISTING GONZALES MESAVERDE WELLS

— ROADS

● PROPOSED WELL LOCATION

WNW



APPROXIMATELY 1.2 ACRES

Amoco Production Company	SCALE: 1"=50'
DRILLING LOCATION SPECIFICATIONS	
JICARILLA CONTRACT 155 #27	DRG. NO.