

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-22486

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO

Jicarilla Contract 146

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jicarilla Contract 146

9. WELL NO.

36

10. FIELD AND POOL, OR WILDCAT

Otero Chacra/ Gonzales Mesaverde

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

NE/4, NE/4, Section 4,

T25N, R5W

12. COUNTY OR PARISH

Rio Arriba

13. STATE

New Mexico

14. NO. OF ACRES IN LEASE

2557.20

15. NO. OF ACRES ASSIGNED TO THIS WELL

159.35 + 159.35 = 318.70

16. PROPOSED DEPTH

5342'

17. ROTARY OR CABLE TOOLS

Rotary

18. APPROX. DATE WORK WILL START

As soon as permitted

12. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

13. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

SINGLE ZONE ☐

MULTIPLE ZONE ☒

1. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

2. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, New Mexico 87401

3. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

A 340' FNL and 1030' FEL, Section 4, T25N, R5W

At proposed prod. zone

Same

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

17 miles North Northeast of Counselor, New Mexico

5. DISTANCE FROM PROPOSED

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.

(Also to nearest ddy. unit line, if any)

840'

6. DISTANCE FROM PROPOSED LOCATION

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

155'

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

6615' GL

8. PROPOSED CASING AND CEMENTING PROGRAM

9. QUANTITY OF CEMENT

10. SIZE OF HOLE

11. SIZE OF CASING

12. WEIGHT PER FOOT

13. SETTING DEPTH

14. DRILLING OPERATIONS AUTHORIZED ARE

SUBJECT TO COMPLIANCE WITH ATTACHED

"GENERAL REQUIREMENTS"

Amoco proposes to drill this 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 dedicated to El Paso Natural Gas Co.

15. IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed for 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.

16. SIGNATURE OF OPERATOR

17. TITLE

18. DATE

19. PERMIT NO.

20. APPROVAL DATE

21. APPROVED BY

22. CONDITIONS FOR APPROVAL, IF ANY

23. HOLD MRC-104 for plat at 3 in

24. NMCC



PA Drury

District Engineer

July 18, 1980

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS FOR APPROVAL, IF ANY

Hold MRC-104 for plat at 3 in

NMCC

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

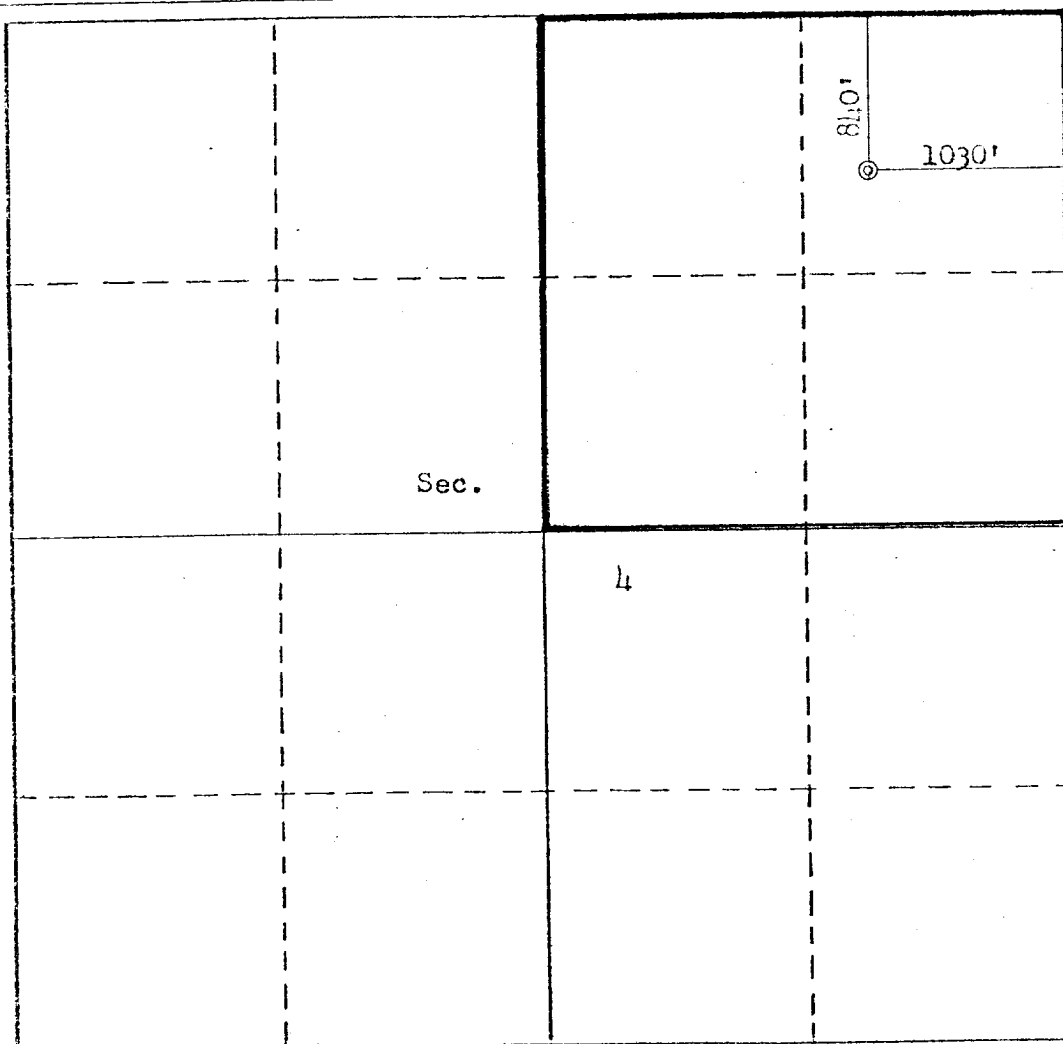
Operator AMOCO PRODUCTION COMPANY		Lease JICARILLA CONTRACT 146		Well No. 36
Unit Letter A	Section 4	Township 25N	Range 5W	County Rio Arriba
Actual Footage Location of Well: 810 feet from the North line and 1030 feet from the East line				
Ground Level Elev. 6615	Producing Formation Chacra	Pool Otero Chacra	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

R. A. Downey

Name

R.A. DOWNEY

Position

DISTRICT ENGINEER

Company

AMOCO PRODUCTION COMPANY

Date

MAY 28, 1980

I hereby certify that the well location shown on this plat was plotted from field notes of a duly licensed surveyor 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

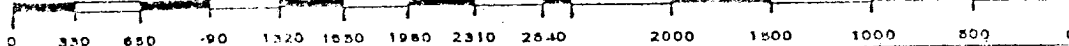
May 22, 1980

Registered Professional Engineer and/or Land Surveyor

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

Certificate No.

3950



SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA CONTRACT 146 NO. 36
840' FNL & 1030' FEL, SECTION 4, 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	2346 '	+4282 '
Kirtland	2496 '	+4132 '
Fruitland	2761 '	+3867 '
Pictured Cliffs	2856 '	+3772 '
Chacra (if present)	3776 '	+2852 '
Mesaverde	Cliff House 4586 '	+2042 '
	Point Lookout 5050 '	+1578 '
Gallup	'	'
Dakota	'	'
TD	5342 '	1286 '

Estimated KB elevation: 6628 '

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:

IND-SP-GR
FDC-CNL-GR

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

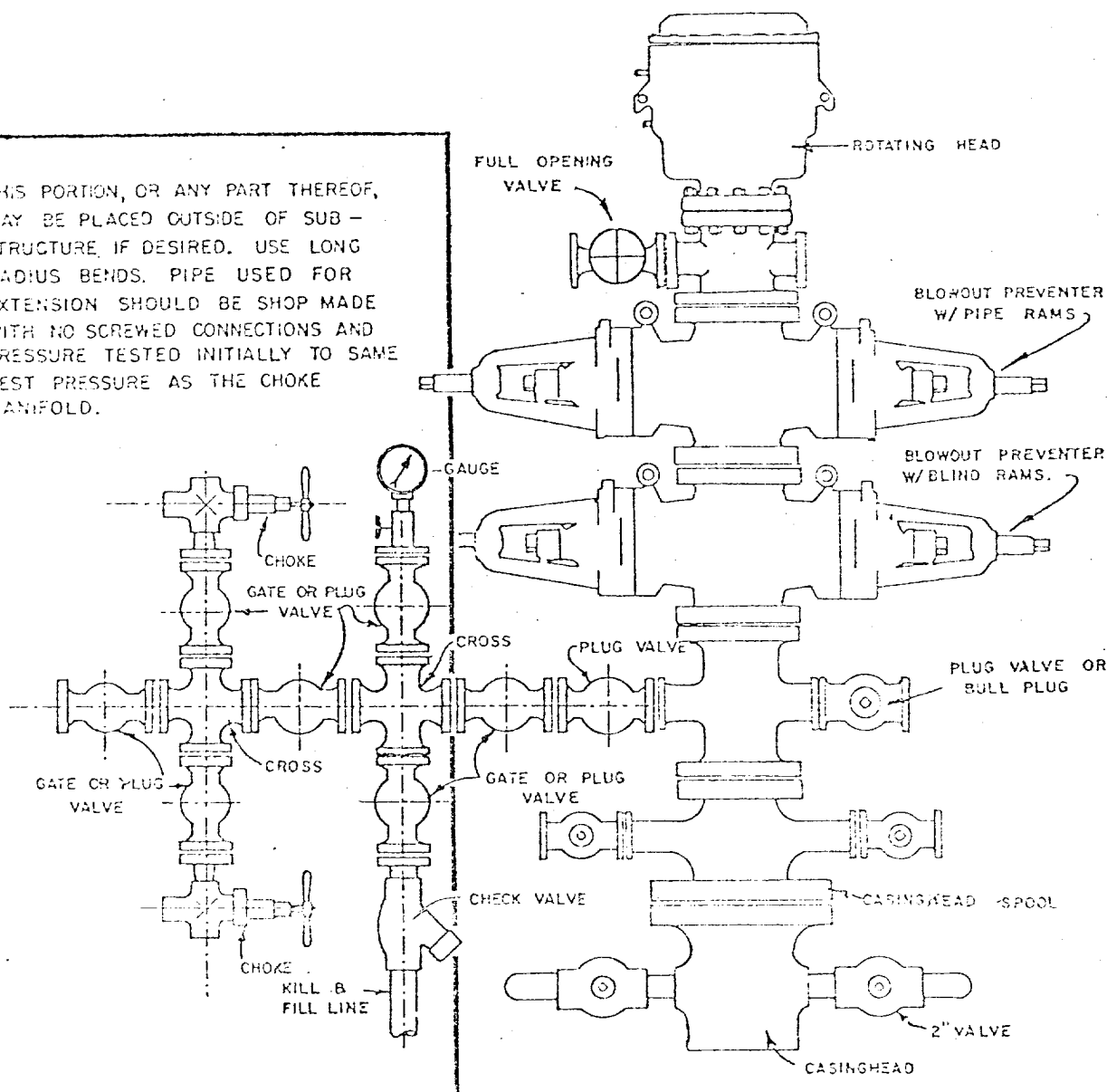
Operations will commence when permitted and last approximately 3 weeks.

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.

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

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 146 NO. 36
840' FNL & 1030' FEL, SECTION 4, T25N, R5W
RIO ARriba COUNTY, NEW MEXICO

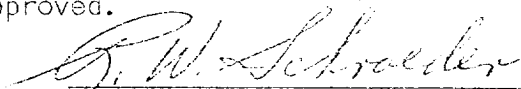
1. The attached topographic map shows the proposed route to the location.
2. It will not be necessary to build any access road.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
4. There is a 380-barrel tank and facilities located at Jicarilla Contract 146 Well No. 19, 200 feet south.
5. Water will be hauled from Tapacito water holes.
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 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 Indian Affairs.
11. The general topography is a flat area with sandy loam type soil; vegetation consists of sagebrush and native grasses.

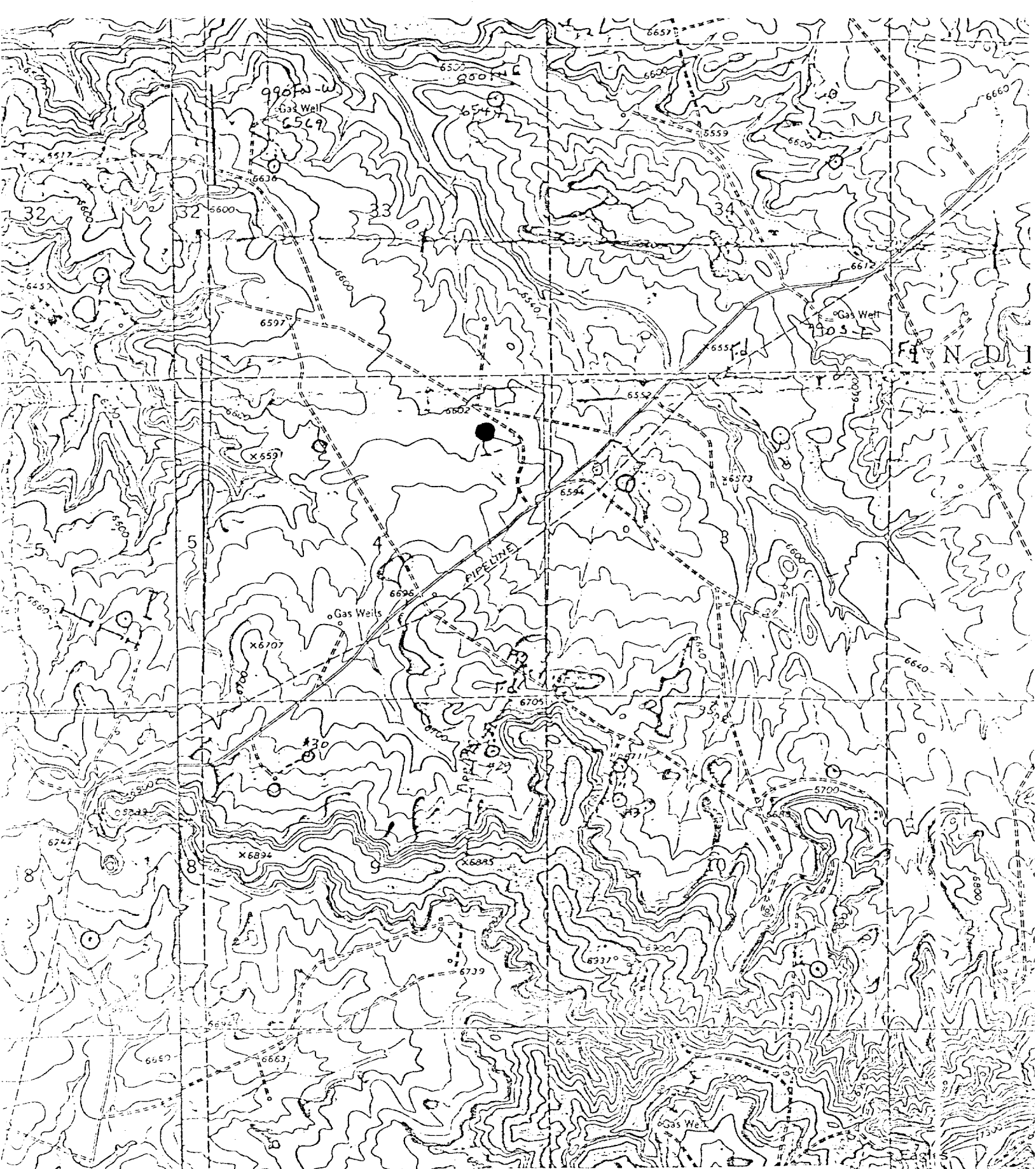
Representatives of the U. S. Geological Survey's Farmington Office and the Jicarilla Tribe's Dulce Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College

12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6134
Address: 501 Airport Drive, Farmington, NM 8740

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 June 25, 1980


R. W. Schroeder, District Superintendent



Vicinity Map for
AMOCO PRODUCTION COMPANY #36 JICARILLA CONTRACT 116
840'FNL 1030'FEL Sec. 4-T25N-R5W
RIO ARriba COUNTY, NEW MEXICO

