

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)Form approved.
Budget Bureau No. 42-R1425.UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract 146		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache		
c. NAME OF OPERATOR AMOCO PRODUCTION COMPANY			7. UNIT AGREEMENT NAME		
d. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, New Mexico			8. FARM OR LEASE NAME Jicarilla Contract 146		
e. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1570' FNL & 1110' FWL Section 3 T25N R5W At proposed prod. zone Same			9. WELL NO. 35		
f. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 17 miles North Northeast of Counselor, New Mexico			10. FIELD AND POOL, OR WILDCAT Otero Chacra/Gonzales Mesaverde		
g. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1110'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW/4 NW/4 Section 3 T25N R5W		
h. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 179'			12. COUNTY OR PARISH Rio Arriba		
i. ELEVATIONS (Show whether DE, RT, GR, etc.) 6602' GL.			13. STATE New Mexico		
j. PROPOSED CASING AND CEMENTING PROGRAM			14. NO. OF ACRES IN LEASE 2557.20		
k. SIZE OF HOLE 12-1/4"			15. NO. OF ACRES ASSIGNED TO THIS WELL 160-159.35		
l. SIZE OF CASING 8-5/8" (New)			16. PROPOSED DEPTH 5355'		
m. WEIGHT PER FOOT 24# K-55			17. ROTARY OR CABLE TOOLS Rotary		
n. SETTING DEPTH 300'			18. APPROX. DATE WORK WILL START* As soon as permitted		
o. QUANTITY OF CEMENT 315 sx Class "B" w/2% CaCl2-circ					
p. STAGE 1- 495sx Class "B" Neat-circ					
q. STAGE 2- 870sx Class "B" 50:50 POZ, 6% gel, 2# med tuf plug/sx, and 0.8% FLA. Tail in w/100 sx Class "B" Neat-circ.					
r. DV Tool at 3879'					
s. Cement Basket at 3850'					

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-5 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.

This action is subject to administrative
appeal pursuant to 30 CFR 290.

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.

APPROVED
AS AMENDEDSIGNED
(This space for Federal or State official use)
NOV 18 1980
JAMES F. SIMS
DISTRICT ENGINEER

TITLE District Engineer

DATE October 29, 1980

PERMIT NO.

APPROVAL DATE

APPROVED BY
CONDITIONS OF APPEAL, IF ANY:

TITLE

DATE

N1000

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

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

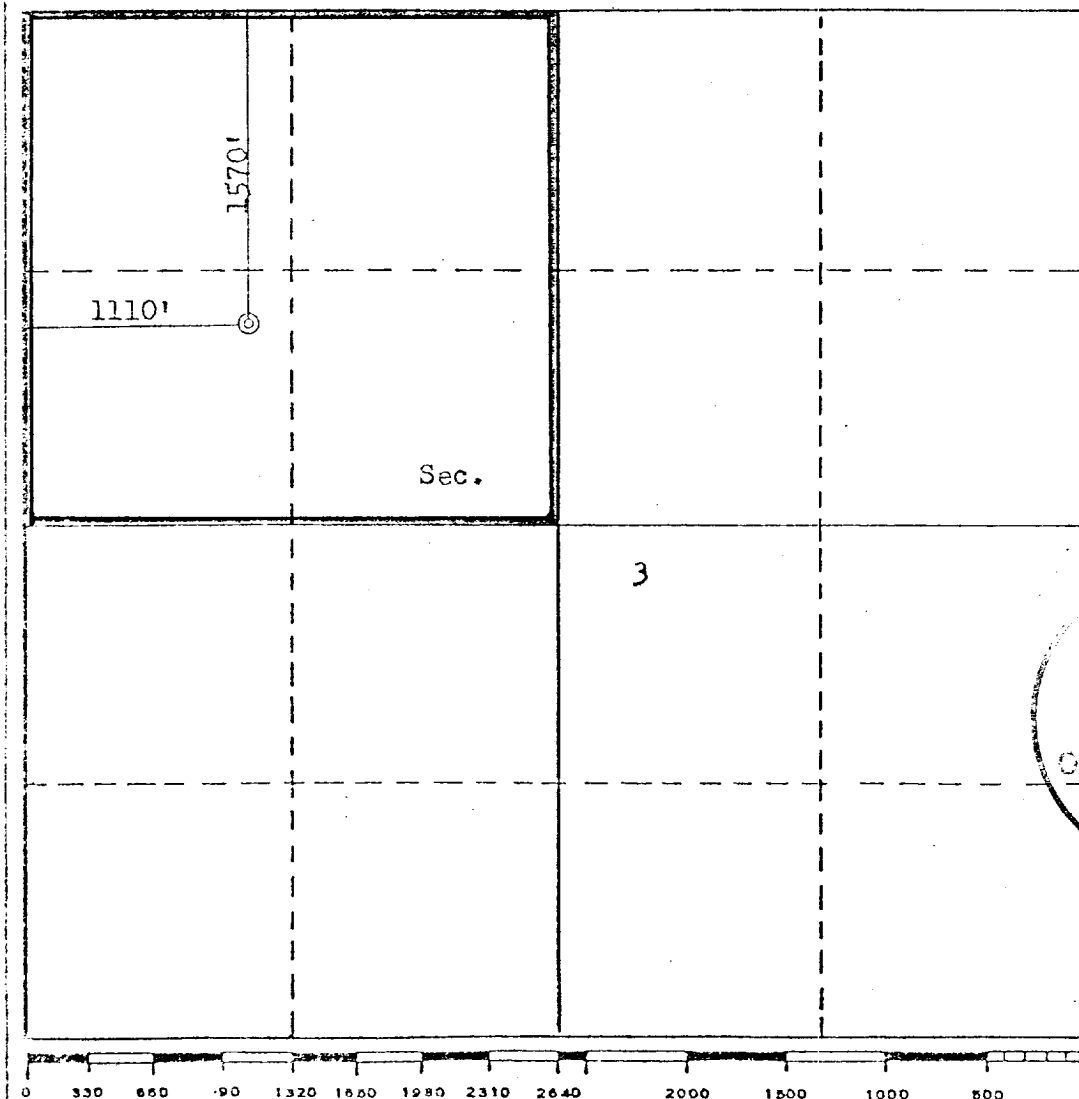
Operator AMOCO PRODUCTION COMPANY			Lease JICARILLA CONTRACT 116		Well No. 35
Unit Letter E	Section 3	Township 25N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 1570 feet from the North line and 1110 feet from the West line					
Ground Level Elev. 6602	Producing Formation Chacra/Mesaverde		Pool Otero Chacra/Gonzales MV	Dedicated Acreage: 159.35 160 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.



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 actual surveys made by me or under my supervision, and that the same are 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. 35
 1570' FNL & 1110' FWL, SECTION 3, 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	2405 '	4210 '
Kirtland	2499 '	4116 '
Fruitland	2719 '	3896 '
Pictured Cliffs	2859 '	3756 '
Chacra (if present)	3779 '	2836 '
Mesaverde	Cliff House 4602 '	2013 '
	Point Lookout 5105 '	1510 '
Gallup	'	'
Dakota	'	'
TD	5355 '	1260 '

Estimated KB elevation: 6615 '

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.

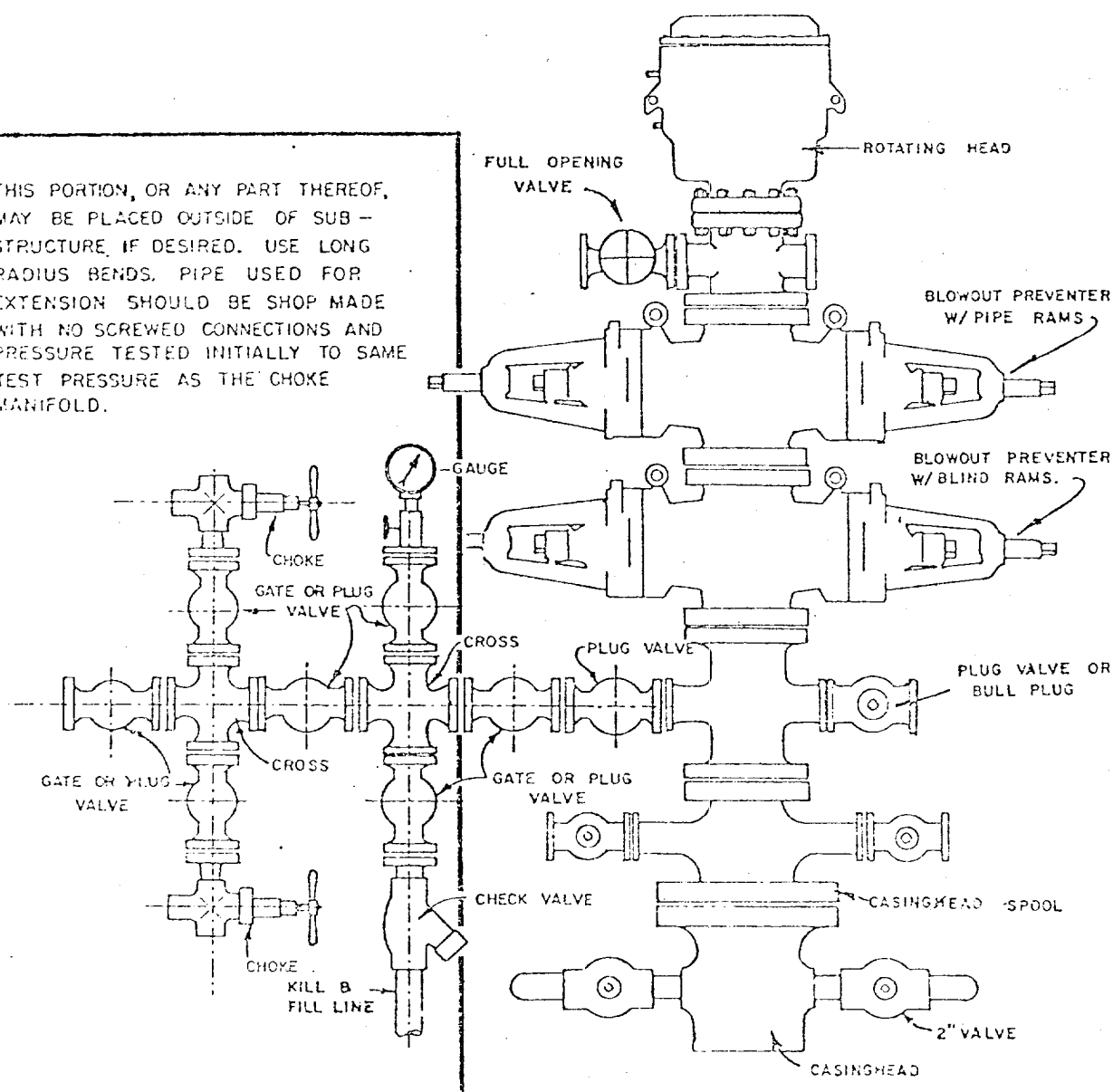
Operations will commence when permitted and last approximately 3 weeks.

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. 35
1570' FNL & 1110' FWL, SECTION 3, T25N, R5W
RIO ARriba COUNTY, NEW MEXICO

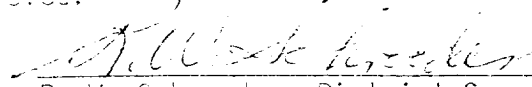
1. The attached topographic map shows the proposed route to the location.
2. It will not be necessary to build any access road.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
4. There is a 300-barrel tank and facilities located at Jicarilla Contract 146 Well No. 21E, approximately 250 feet east.
5. Water will be hauled from Tapacito Water Hole.
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 10-foot cut will be made on southeast 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 gentle slope with northerly drainage, with sandy loam soil; vegetation consists of sagebrush, pinons, 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 27, 1980


R. W. Schroeder, District Superintendent

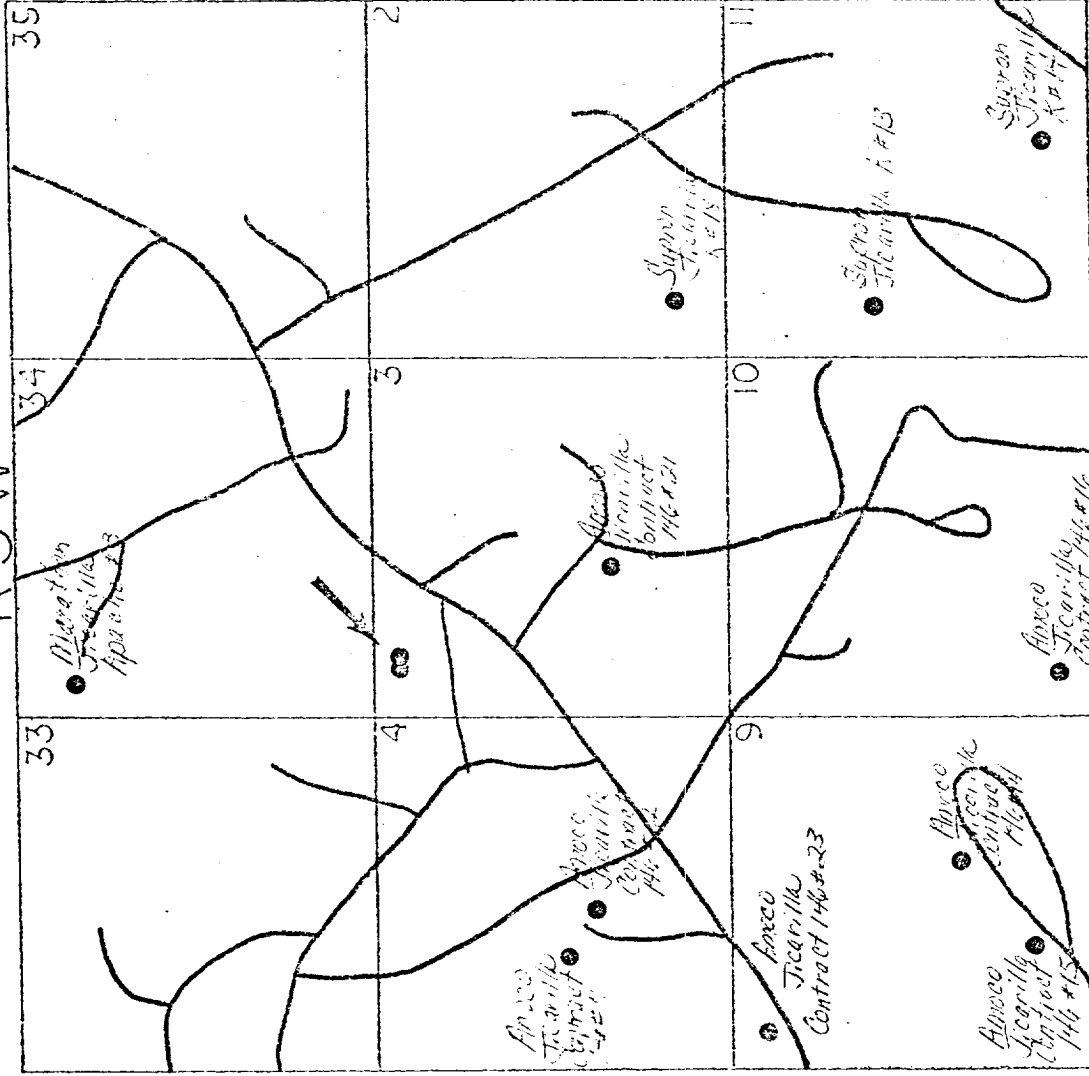


Vicinity Map for
AMOCO PRODUCTION COMPANY #35 JICARILLA CONTRACT 146
1570'FNL 1110'FWL Sec. 3-T25N-R5W
RIO ARriba COUNTY, NEW MEXICO

R5W

T 26 N

T 25 N

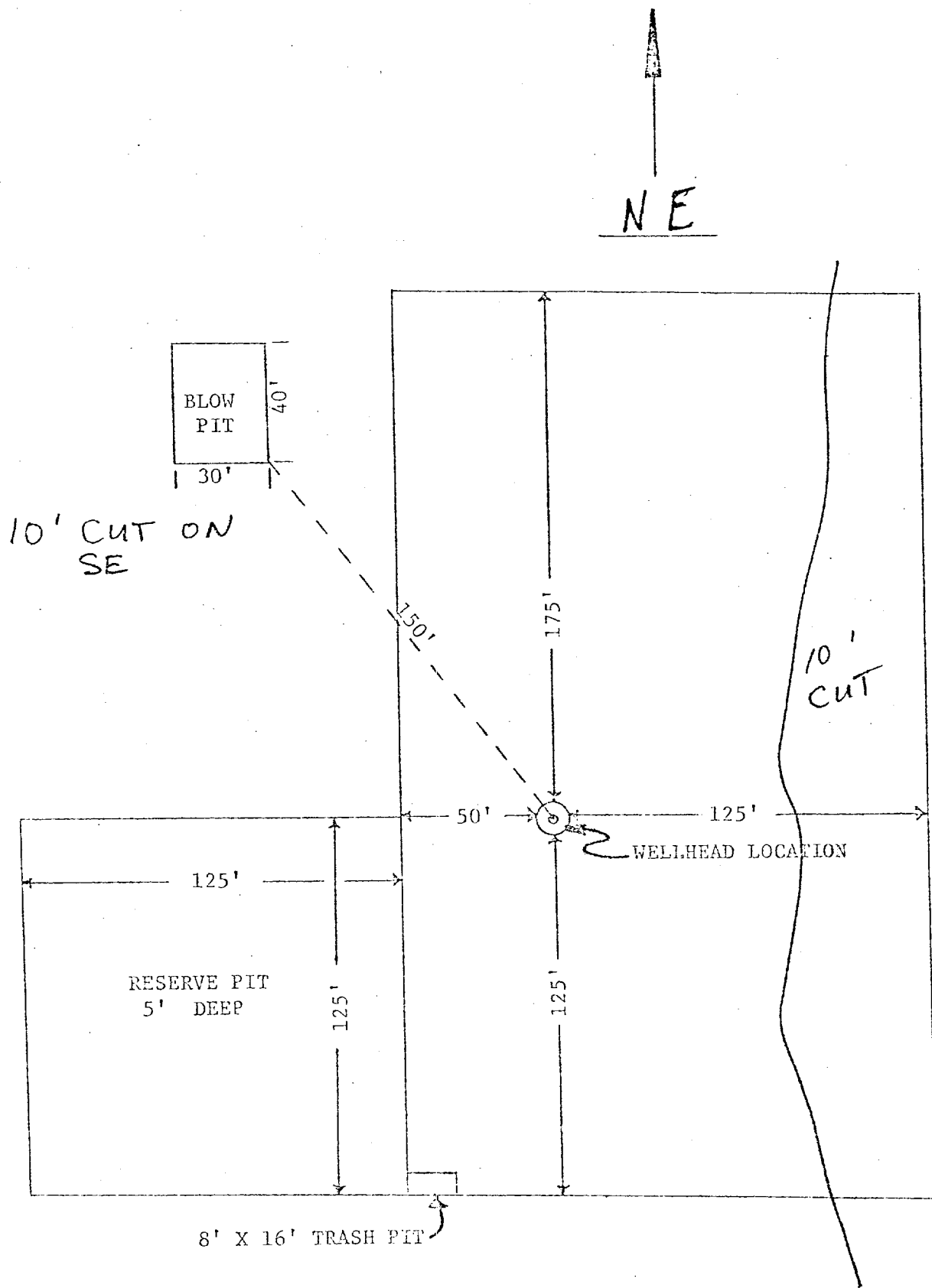


EXISTING OTERO CHACRA WELLS

PROPOSED WELL LOCATION

ROADS

EXISTING GONZALES MESAVERDE WELLS



APPROXIMATELY 1.2 ACRES

Amoco Production Company	SCALE: 1"=50'
DRILLING LOCATION SPECIFICATIONS	
JICARILLA CONTRACT 146 ALB. 35	DWG. NO.