#### SUBMIT IN TRI

UNITED STATES DEPARTMENT OF THE INTERIOR

)ther	instr	uctions	on
F	CAPSE	sidel	

PLICATE*	Form approved. Budget Bureau No. 42-R1425.
ions on e)	
	5. LEASE DESIGNATION AND SERIAL NO.
4CK	Jicarilla Contract 148 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
К 🗌	Jicarilla Apache 7. UNIT AGRZEMENT NAMB
E .	S. FARM OR LEASE NAME .
····	Jicarilla Contract 148  9. WELL NO.
	10. FIELD AND FOOL, OR WILDCAT
	$\mathcal{M}$
	Otero Chacra /SO Blanco P.C. 11. SEC, T. B. M., OB BLK. AND SURVEY OB AREA
	SE/4 NE/4, Section 14
	12. COUNTY OR PARISH 13. STATE
	Rio Arriba New Mexico
14. SO. 6	OF ACRES ASSIGNED HIS WELL
20. ROTA	LGQ RV OR CABLE TOOLS
í	22. APPROX. DATE WORK WILL START
	22. APPROX. DATE WORK WILL START
M	As soon as permitted
· · · · · · · · · · · · · · · · · · ·	QUANTITY OF CEMENT
315	sx Class E x 2% CaCl2-Circ
Ist	Stage- 250 sx(CL B 50:50 Poz
2nd	Stage; 475 sx(x 6% gel,2# med tuf plug/sx,.8%
the	FLA $\times$ 100 sx Cl
urface	B Neat (Tail in)
led to cesign	Circ
	e DV Tool/sētJat.33501.
	Francisco de Carlos
,	
Cons.	
IORIZED A	, ARE
ITH ATTA	
Tescut pro	ductive zone and proposed new productive
of measure	ed and tree vertical depths. Give blowous
eer	November 17, 1980

GEOLOGICAL SURVEY APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BA In TYPE OF WORK DEEPEN [ PLUG BAC DRILL M b. Type of well. SINGLE | WELL LX. OTHER AMOCO PRODUCTION COMPANY 3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington New Mexico, i. Locardos or while (Report location clearly and in accordance with any State requirements.\*)  $1850^{\circ}$  FNL  $\times$   $790^{\circ}$  FEL At proposed production 11. DISTANCE IN MILES AND DESECTION FROM NEAREST FOWN OR POST OFFICE\* 15 miles Northeast of Counselon, New Mexico 16. No. OF ACRES IN GEASE 10. DISTANCE FROM PER FORED OF OUR CONTROL OF NEARFORT PROPERTY OR LEAST LINE, FT. (Also to nearest delg. unit line, if any) \_\_\_2560\_ 10. Proposed delta 7901 18. DISTANCE FROM THE BUSINESS LOCATIONS
TO NEARTH WELL, DISLLING, COMPLETED,
OR APPLIZD FOR, ON URIS LEASE, PT. 21. FISVATIONS (Show whether DF, RT. CR, etc.) 6930 GL PROPOSED CASING AND CEMENTING PROGRA SETTING BETTH WEIGHT PER FOOT SIZE OF CASING SIZE OF HOLE 3001 24.0# K-55 8-5/8" (New) 12-14/" 15.5# K-55 5-1/2" (New) Among proposes to drill the above well to further develop Otero Cosona reserves. The well will be drilled to the su casing point using native mud. The well will than be dril TD with a low solids nondispersed mud system. Completion of 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 use

The gas from this well is dedicated to Northwest Piceline

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

plan are offsched.

DRILLING OPERATIONS AUTH SUBJECT TO COMPLIANCE W "GENERAL REQUIREMENTS"

personter po	on the contraction proposed in the proposed is to drill or despen directionally, give ograph if any.	s to deeper a fight of the contract production delign substitution around the incustred	etive zone and proposed new productive and true vertical depths. Give blowout
SIGNED	W. L. Political	DECRIPTO ST Figinger	November 17, 1980
earlis sp	APPROVED' AS AMENDED	Ora Core	
(31 <b>27373</b> (314-)	FOR JAINES F. SIMS  DISTRICT ENGINEER	TITLE	OATS.
	sh S.w	MMOOC	

# SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA CONTRACT 148 MO. 26 970' FSL & 1790' FEL, SECTION 13, T25M, R 5W RIO ARRIBA COUNTY, NEW YEXIOO

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:

FORMATION	<u>DEPTH</u>	ELEVATION
Ojo Alamo	2629	4314
Kirtland	2829 '	4114
Fruitland	3024	3919 <b>'</b>
Pictured Cliffs	3204	3739 <b>'</b>
Chacra (if present)	4075	28ō9 <b>'</b>
Mesaverde Cliff House Point Lookout	1	Ť Ť
Gallup	, t	•
Dakota	t	t
TD	4257 <b>†</b>	2686 1

Estimated	KB	elevation:	6943	ŧ
-----------	----	------------	------	---

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  $\frac{1}{2\pi n}$  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, to peratures, nor hydrogen sulfide gas will be encountered.

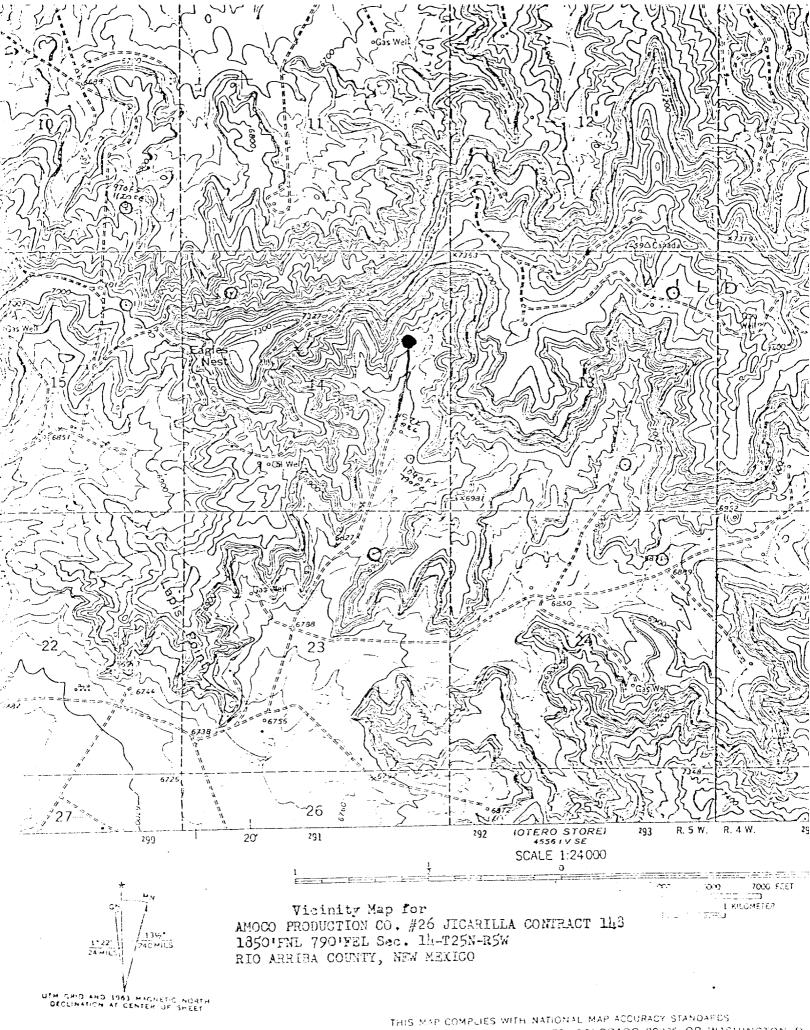
# OIL CONSERVATION DIVISION

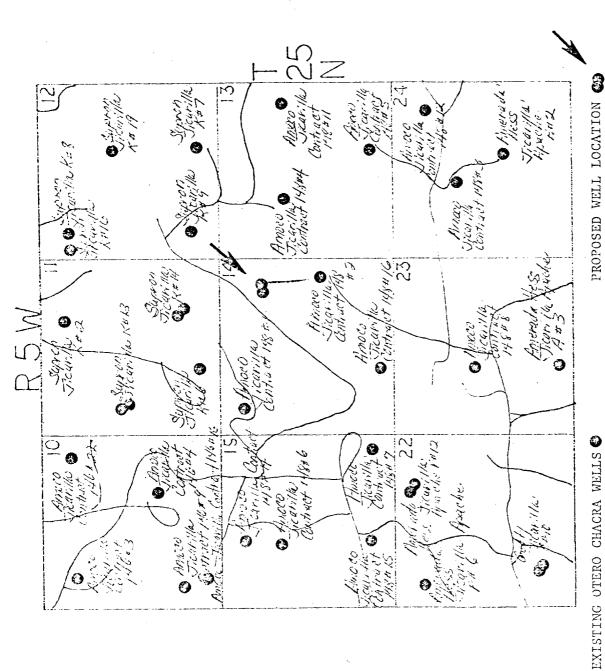
STATE OF NEW MEXICO

## P. O. BOX 2088 MERGY AND MINERALS CEPARTMENT SANTA FE, NEW MEXICO 87501

Form C-107 kevised 10-1-78

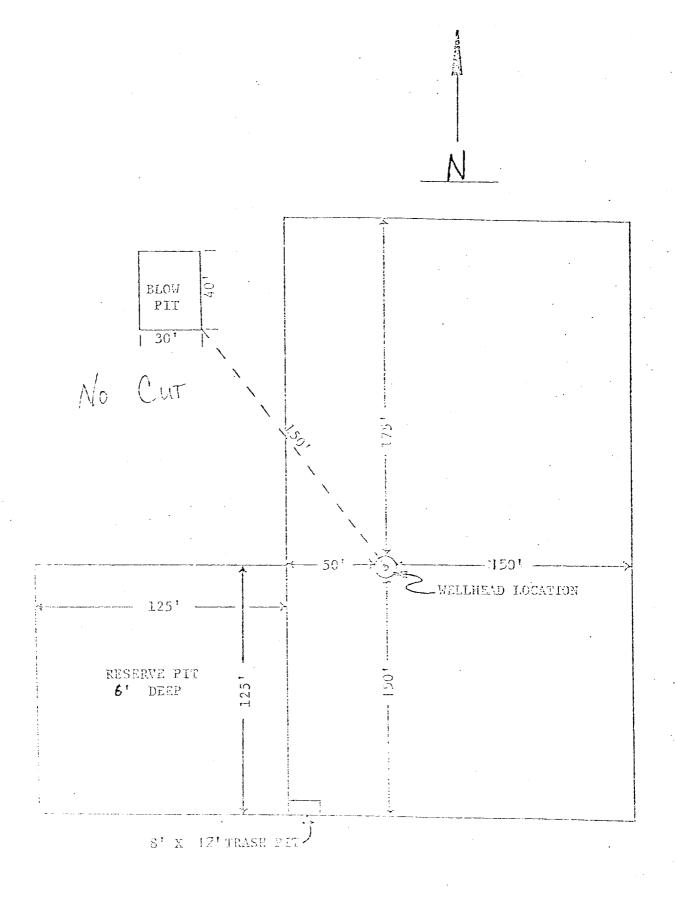
perator		<del></del>					
			Įı	.eα5 <b>e</b>			Well No.
AMOCO PRODUCTION COMPANY				JICARILLA C	ONTRACT 1	<u> </u>	26
	ction	Township		Range	County		
и	14	25N		5W	Ric	o Arriba	
tual Footage Location							
1850	eet from the	North	line and		feet from the	East	line
ound Level Elev:	Producing F		F	<sup>2∞1</sup> So. Blanco		Cliffs/	Dedicated Acreage:
6930		d Cliffs/Cha		Otero Chac			160 Acres
1. Outline the				ll by colored pend			he plat below. hereof (both as to working
interest and 3. If more than	royalty). one lease of munitization	different owner, unitization, fo	ership is d orce-poolir	edicated to the w	ell, have the	interests o	f all owners been consoli-
this form if r	"no," list the ecessary.)	gned to the wel	tract descr	iptions which hav	e actually be	een consolid	lated. (Use reverse side o nmunitization, unitization n approved by the Commis
					7		CERTIFICATION
					 790'	Name R. A.  Position DISTR Company AMOCO	certify that the information concerein is true and complete to the my knowledge and belief.  DOWNEY  CICT ENGINEER  PRODUCTION COMPANY
		Sec.	114			I hereb shown o notes o under m Is true	MBER 11, 1980  by certify that the well location this plat was plotted from field actual surveys made by me to any supervision, and that the same and correct to the best of midge and belief.
						July Registere and Lo Fred	d Professional Engineer and Surveyor





EXISTING SO. BLANCO PICTURED CLIFFS WELLS (\*) R.

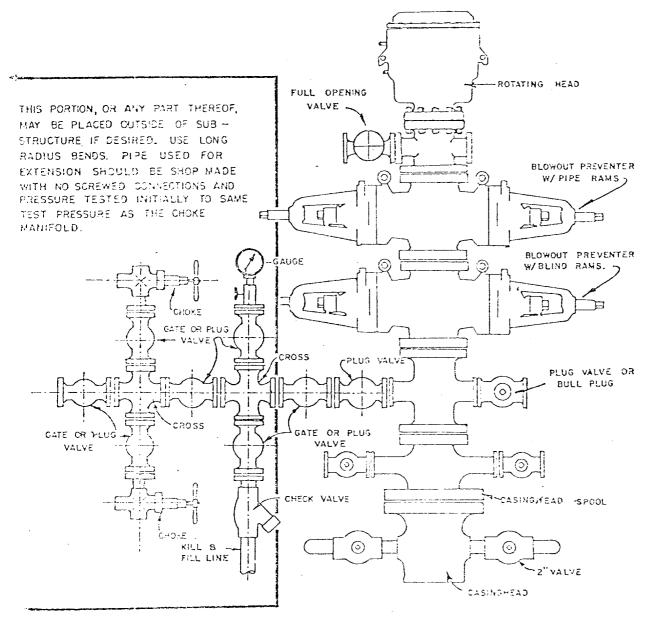
ROADS



APPROXIMATELY ILL MORES

Amuco Production Compa 🕢	suat a: L"=50"
DETELTING LOCATION SPECIFICALLIES	
MARILLA POPRACT 142 #26	foag. Imo.

- 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 rats 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. 26 1850' FNL & 790' FEL, SECTION 14, 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 build an access road approximately 3 miles in length, and 20 feet wide. Road to be 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 are two 380-barrel tanks and facilities located at Jicarilla Contract 148 Well No. 10 (N-14-25N-12W).
- 5. Water will be hauled from Largo 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. Unon 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 cut will not be necessary.
- 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.
- II. The general topography is a canyon bottom with southerly drainage, alluvial surface deposits, and sandstone outcrops, with a sandy clay loam soil. Vegetation consists of 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. Schnoeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Aircort Drive, Farmington, NM 87401

Certification: I hereby certify that I, or persons under my direct supervision, have instructed the proposed drillsite and access route, that I am fabiliar with the continue which presently exist; that the constructs made in this plan are, to the conditions proposed herein will be performed by AMOCO PRODUCTION COMPANY and its standard and sub-contractors in conformits with this plan and the term are conditions under which it is approved.

E. M. Chroeder, District Supprintendent