In. TYPE OF WORK

b. TYPE OF WELL

WELL 2. NAME OF OPERATOR

At surface

3. ADDRESS OF OFFRATOR

12-1/4"

18. DISTANCE FROM DE POSID ECCATION*
TO NEWHEST WEST, FAILERS, COMPLETED,
OR APPLIED FOR ON THIS HEASE, FT.

21. ELEVATIONS (Show stather DF, RT, GR, etc.)

SUBMIT IN TRIPI

S-5/8" (New)

4-1/2" (New)

_____300!

4291'

_24.0#_K-55--

_9.5#_K-55_

rm 9-331 C						SUBMIT IN TRIPLICATE		Form approved. Budget Bureau No. 42-R1425.	
May 130%	UNITED STATES (Other instructions of reverse side)								
	DEPART	MENT	OF THE I	NTERI	OR		ĺ	5. LEASE DESIGNATION AND SERIAL NO.	
	G	EOLOG	SICAL SURV	ΕY				Jicarilla Contract 148	
APPLICATIO	N FOR PERM	T TIN	O DRILL,	DEEPEN	1, OR P	LUG BA	.CK	6. IF INDIAN, ALLOTTEE OR TEIBE NAME Jicarilla Apache	
	RILL 🛛		DEEPEN		PLI	JG BA C K		7. UNIT AGREEMENT NAME	
TYPE OF WELL	GAS OTH	IER		SING	ELE Z	MULTIPLE ZONE		S. FARM OR LEASE NAME	
NAME OF OPERATOR AMOCO PR	DEUCTION COM	1PANY						Jicarilla Contract 148	
ADDRESS OF OFFRATOR				······································				10. FIELD AND POOL, OR WILDCAT	
501 Aiccort Drive, Farmington, New Mexico 87401							-		
tocarion of well (Report location clearly and in accordance with any State requirements.*)						Otero Chacra O.			
1050' FNL x 1090' FEL						11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA			
At proposed prod. z: Same	one							NE/4 NE/4 Section 24	
DISTANCE IN MILES	AND DIRECTION FRO	M NEAR	EST TOWN OR POS	ST OFFICE*				12. COUNTY OR PARISH P. STATE	
16 miles '	ortheast of	Сона	selor New	Mexic			į	Rio Arriba New Mexico	
LOCATION TO NEAREST						F ACRES ASSIGNED			
PROPERTY OF LEASE LINE, FT. (Also to nearest drig, unit line, if any)				·					
TO NEAREST WEST, LAM LING, COMPLETED,					29. ROTAI	ARY OR CABLE TOOLS			
OR APPLIED FOR ON THIS LEASE, FT. 215! 4291 RELEVATIONS (Show of their DF, RT, GR, etc.)					Ro	22. APPROX. DATE WORK WILL START*			
	retner DF, KT, GK,	eic.)							
			ODOGED ALA		(1733-4733-7777-77	1 TIN () (1) 1 2 5		IAs soon as permitted	
		P]	ROPOSED CASI	NG AND	CEMENTING	FROGRAM			
E.OH SO HALL	SIZE OF CASI	NG	WEIGHT PER FOOT SETTI		SETTING I	H793		QUANTITY OF CEMENT	
2-1/4"	8-5/8" (New	24 N# K-	K-55 300' 31		315	Sex Clase R. v. 29, Carla Rina		

865 sx Class B 50:50 Poz w/6% gel 2# med tuf plug/sx and .8% FLA.

Tail in w/100 sx Class B Neat-Circ. Amoco processes to drill the above well to further develop the Otero Chacra reserves. The well will be drilled to the surface casing paint using native mud. The well will then be drilled to TD with a low solids nondispersed mud system. Completion design will be cased 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 multipoint surface use plan are attached.

The gas from this well is not dedicated.

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

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

As above space was like processed program: If proposal is to deepen or plug back, give detailed pressed broughtive zone and preposed new productive zone. If proposal is to drill or deepen directionally, give pertinent date on substrate locations and money true vertical depths. Give blowout presenter programs if u.v. preventer programs b). PATE - November 17, 1930 \$967800 APPROVED ୍ରମେ, COM: Conservation of A MENDED DIST. 3 e 10 3es DEC 23 1980 MILES F. SIMS . P.:53 DISTRICT ENGINEER

NMOCU

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA CONTRACT 148 NO. 29 1050' FNL & 1090' FEL, SECTION 24, 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:

FORMATIO	<u>ON</u>	DEPTH		ELEVATION	1
Ojo Alamo		2663	T	4236	T
Kirtland		2863	1	4036	1
Fruitland		3058	1	3841	•
Pictured C	Liffs	3238	1	3661	1
Chacra (if	present)	4108	t	2791	3
Masaverde	Cliff House Point Lookout		T T		1
Gallup					ŧ
Dakota			t		1
TD		4291		2608	1

Estimated KB elevation: 6899

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 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.

Just 's standard blowout prevention will be amployed (see attached drawing).

In the past, drilling in this area has shown that no abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.

OIL CONSERVATION DIVISION

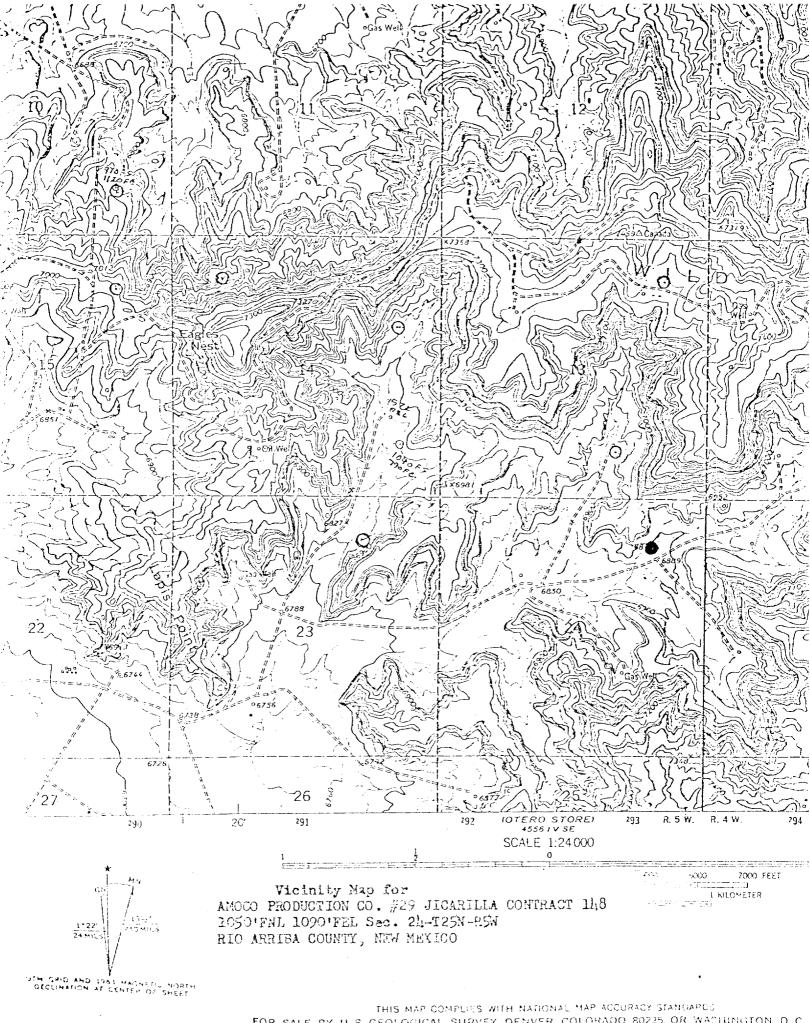
STATE OF NEW MEXICO HERGY AND MINERALS DEPARTMENT

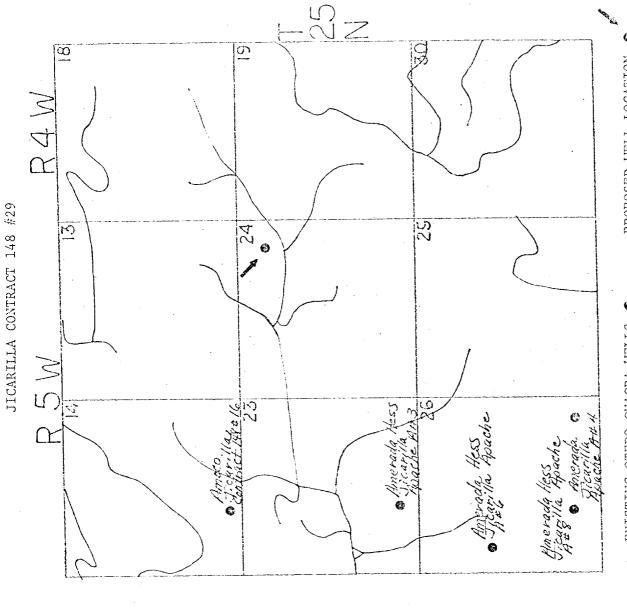
P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

EABU 01 41

		All distances must be fr	om the cuter hounderle	a of the Section.			
Cperator			Lease		-	Well No.	
AMOCO PRODUCTION COMPANY			JICARILLA C	CHTRACT 148		29	
Unit Letter	Section	Township	Range	County			
A	24	25N	5W	Rio A	rriba		
Actual Footage Loca	ation of Well:						
1050		rth line and	1090	feet from the E	ast	line	
Ground Level Elev:	Producing For	mation	Pool		Dedic	ated Acreage:	
<u>6886</u>	Chacra		Otero Chacr	3		160 Acres	
1. Outline th	e acreage dedica	ted to the subject w	ell by colored penc	il or hachure mai	rks on the pl	at below.	
interest ar	id royalty).	dedicated to the wel				of (both as to working owners been consoli-	
Yes	No If an	mitization, force-pool	of consolidation			(Vice anyone at least	
		owners and tract desi	criptions which have	e actually been t	onsondated.	(Use reverse side of	
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.							
					CE	RTIFICATION	
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			l	. N	cme		
· · · · · · · · · · · · · · · · · · ·	;			■	R.A. DOWNE	EY	
	1		!		osition		
	1			<u> </u>	DISTRICT E	ENGINEER	
	1		1		ompany	MODETON COMPANY	
	1			3 F		DUCTION COMPANY	
	Í		1	a !	ote e energane en	11 1000	
	S	ec.		<u> </u>	SEPTEMBER	11, 1900	
		214			shown on this	ify that the well location plat was plotted from field il surveys made by me or rvision, and that the some	
•	i 1		TO THE STATE OF TH		is true and c knowledge and	orrect to the best of my belief.	
· ···· ·	!				rate Surveyed		
:					July 30	1280, 3/2	
	; , , , , , , , , , , , , , , , , , , ,		 	6	egistored Profe ad Lond Sur Fred B.	stonal Englisher	
	Sca	le: l"=1000'			3950		

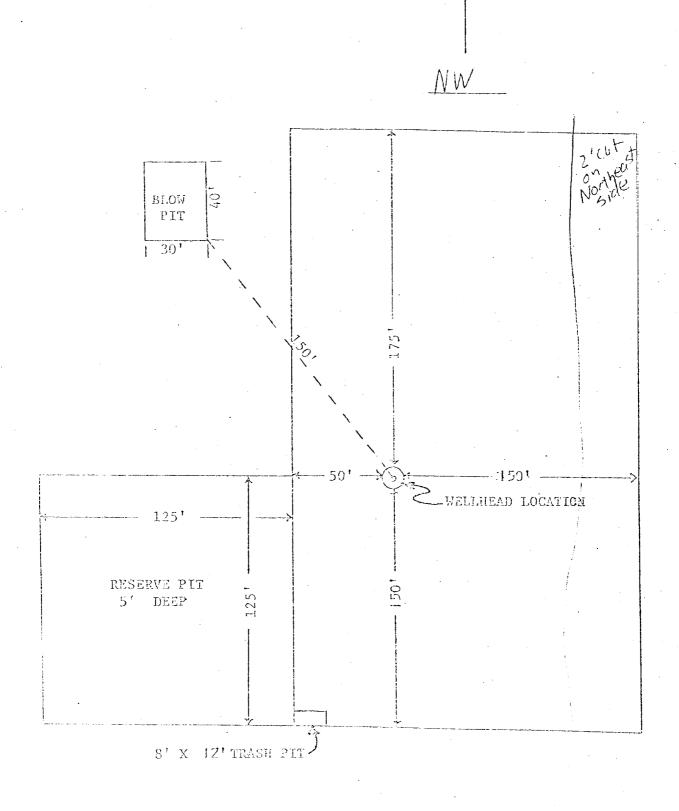




EXISTING OTERO CHACRA WELLS ©

PROPOSED WELL LOCATION ©

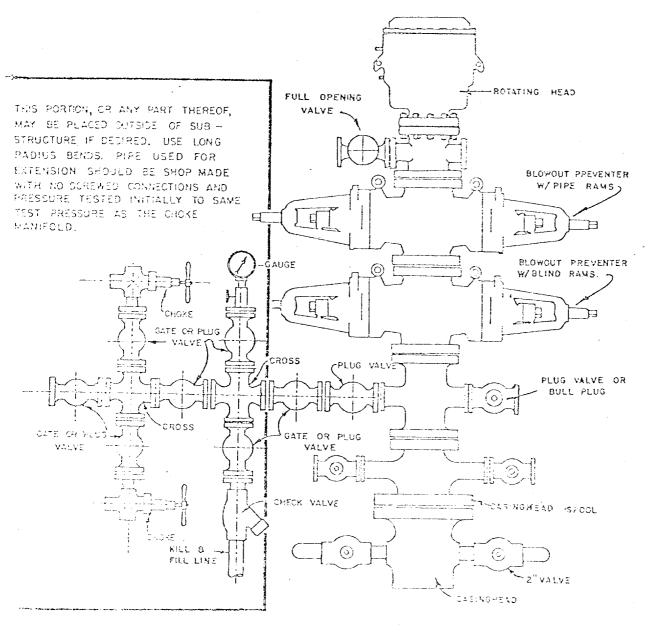
ROADS



APPROXIMATELY 1.2 ACRES

Amoco Production Company	scale: 1"=5()"
DRILLING LOCATION SPECIFICATIONS	
Treavilla Contract 148 No 29	086. 00.

- 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 Sarias = 900

EXHIBIT D-4

OCTOSER 16,1969

or, on length to runs, pipe rams will be closed each trip

MULTI-POINT SURFACE USE PLAN

JICARILLA CONTRACT 148 NO. 29 1050' FNL & 1090' FEL, SECTION 24, T25N, R5W RIO ARRIBA COUNTY. NEW MEXICO

- 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.
- There are two 380-barrel tanks and facilities located at Jicarilla Contract 148 well No. 10 (N-14-25N-12W).
- Water will be hauled from Largo Wash.
- 6. To construction materials will be hauted in for this location.
- 7. A 125' by 125' pit will be built on location to hold all drilling waste. Coon 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. that will be hauled away prior to back filling.
- There are neither airstrips nor camps in the vicinity.
- The well site layout, reserve, burn and trash pits are shown on the attached Crill Site Specification Sheet. A 2-foot cut will be made on northeast side.
- 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.
- The paneral topography is a canyon bottom with southwesterly drainage and 11. alluvial surface deposits, with a sandy clay loam soil. Vegetation consists, of samebrush, Russian thistle, preasewood, and brome grass.

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

12. Openstor's Representative: R. W. Schroeder

Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 331 Airport Drive, Farmington, NM 87401

Centilication: I hereby centify that I, or bensons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the straiters which presently exist; that the statements made in this plan are, to the statement by knowledge, true are correct; and, that the work associated with a state tions proposed herein will be denounced by AMOCO PRODUCTION COMPANY and the state to state and sub-contractors in conformity with this plan and the The second 17, 1980

-. A. Bohopeder, District Superintendent