SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

,	UNITE DEPARTMENT	D STATES OF THE I		reverse s	ide)	36 - 639 - 22534 5 Lease designation and serial no.
	GEOLOG	ICAL SURVE	ΣΥ			Jicarilla Contract 148
APPLICATIO	N FOR PERMIT TO	O DRILL, D	DEEPEN, OF	R PLUG E	BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAMS
a. Trker work	RILL 🖟	DEEPEN [PLUG BA		Jicarilla Abache
OU, TYPE OF WELL	NALL X OTHER		SINGLE X	MULTH ZONE	PLE	S. FARM OR LEASE NAME
NAME OF GREATOR	PRODUCTION COMPANY	/	\int_{0}^{∞}			Jicarilla Contract 148
ALOGO F. ADDRESS OF OPERATOR		·		3		24
501 Air V Liekwich of Will V	port Drive, Farm	ington, Ne maccordance wit	w Mexico h any Style requi	87.40% rements.1)		Otero Chacra
	L and 935' FWL, S	Section 14	, T25N, R5	Y - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		11. syc. t. R. M. OR BLK. AND STRVEY OF AREA NW/4, NW/4, Section 14 / T25N, R5W
4. DISTANCE IN MILES	AND DESCRICTION FROM NEARE	ST TOWN OR POST	OFFICE*			12, COUNTY OR PARISH 13, STATE
15. DISTANCE FROM PROF LOCATION TO NEXTED PROPERTY OR DAKES	87	ounselor, 935'	New Mexico 16. No. OF ACRE 25	S IN ITASE		I Rio Arriba New Mexico of ACRES ASSIGNED uns Well 160
is, bispanch phon pro	ESSED LOCATION* DOUBLESO, COMPLETED,	471	19. PROPOSED DE	21H 13'	20. Rota	Rotary
erentions (Show w 7001° 0	herber DF, RT, GE, etc.)					As soon as permitted
24.		OPOSED CASIA	G AND CEMEN	TING PROGR	ΔM	
SINE OF HOLE	SIZE OF CASING	WORTH PER FO	DT SATT	ING LEDTH		QUANTITY OF CEMENT
12-1/4"		24# K-5	5	3001		x Class "B" w/2% CaCl2-cir
		10.5#K-5		<u> -2:3'</u>		<u>x C1 8 50:50 POZ,6% g</u> el,2# uf plug/sx and .8% FLA.
					1	in 1/100 av Ol P Nort aira

Amboo probbses to drill the above well to further develop the Otero Chacra reserves. The wall will be drilled to the surface casing point using native mud. The well will then be drilled to TD with a low solids nondispensed 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.

is above to calcus mes processes producti. If proposal is to deepen or plus back, give dura on present productive z which IT proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and transfer to the subsurface locations and the subsurface locations and the subsurface locations and the subsurface locations are subsurfaced and the subsurface locations and the subsurfaced and the preventer program, if any.

	W.J. Peterson
(This species	* TO VIEW STREET VED
PARMIT NO. 2.	AR AMENDED

ENGINEER

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

THERSY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Form C-102 keylsed 10-1-78 P. O. HOX 2088

All distances must be from the cuter houndaries of the Section.

Character .	<u></u>	XII DISTANCES MOST IN II	Lease		<u></u>	Well No.	
Operator AMOGO PROF	ATTOMICON COMPAN	rv	(CONTRACT 1	18	24	
AMOCO PROD	UCTION COMPAN Section	Township	Range	County		<u> </u>	
D	14	25N	5W	Ric	Arriba		
Actual Footage Loc							
945		orth line and	935	feet from the	West	line	
Ground Level Elev:	1		P∞1 Otero Chac	.	Dedi	cated Acreage:	•
7001	Chac		L				Acres
 Outline th 	ne acreage dedica	ated to the subject w	ell by colored pen	cil or hachure	marks on the p	lat below.	
2. If more the interest a	han one lea se is nd royalty).	dedicated to the we	ll, outline each and	d identify the	ownership there	of (both as to	working
	communitization,	lifferent ownership is unitization, force-pool	ing. etc?		interests of all	owners been	consoli-
Yes Yes	No If a	nswer is "yes," type	of consolidation _				
7£	in "no" line the	owners and tract des	crintiane which has	ve actually he	en consolidated	I. (Use revers	e side of
	if necessary.)	owners and tract des	criptions which ha	to actually no	- Consolidated		
		ned to the well until a	ll interests have be	een consolidat	ted (by commun	itization, uni	tization,
forced-poo	oling, or otherwise) or until a non-standa	rd unit, eliminating	g such interest	s, has been ap	proved by the	Commis-
sion.				·- ·	× ,		
					C	ERTIFICATION	
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_	l		1		I hereby certi	fy that the inform	ation con-
説	1	•	1		i '	Is true and comp	
22.	I		ì	1	best of my kn	owledge and bell	ef.
935'	1		l		1 Q.A. K	louner	
	I		I		Name		
		_			R.A. DOWN	EY	
1	1	1	!		Position DISTRICT	FNCINEED	
	f		! !		Company	BUGTUEEK	_
	1		₹ 1		1	DUCTION CO	MPANY''
	1		<u>}</u>		Date		
	l Se	ec.	†		SEPTEMBER	5, 1980	
	i		1				
	1	31	!		1 1 1	المسطورية	II location
	1	114	1	15	ater . The	tliy that the we plat was plotted	
			1	KIA	[March 1998] W.	ial surveys made	
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	l] 		Date Surveyed		
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*		.7 7#=70001			Certificate No.		
	Sca	ale: 1"=1000"			3950	A	

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA CONTRACT 148 NO. 24 945' FNL & 935' FWL, SECTION 14, T25N, R5W RIO ARRIBA COUNTY, NEW MEXICO

The	geologic	name	of	the	surface	formation	is	the	Tertiary San Jose
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Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

FORMATION	<u>DEPTH</u>	ELEVATION
Ojo Alamo	. 2700 '	4312
Kirtland	2882 '	4130
Fruitland	3054 '	3958 '
Pictured Cliffs	3243 '	3769
Chacra (if present)	4133 1	2879 '
Mesaverde Cliff House Point Lookout	1	1
Gallup	•	•
Dakota	1	
TD	4213	2799

Estimated	КВ	elevation:	7012

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: Sunf-TD FDC-CNL-GR: Sunf-TD GR: 0-2000'

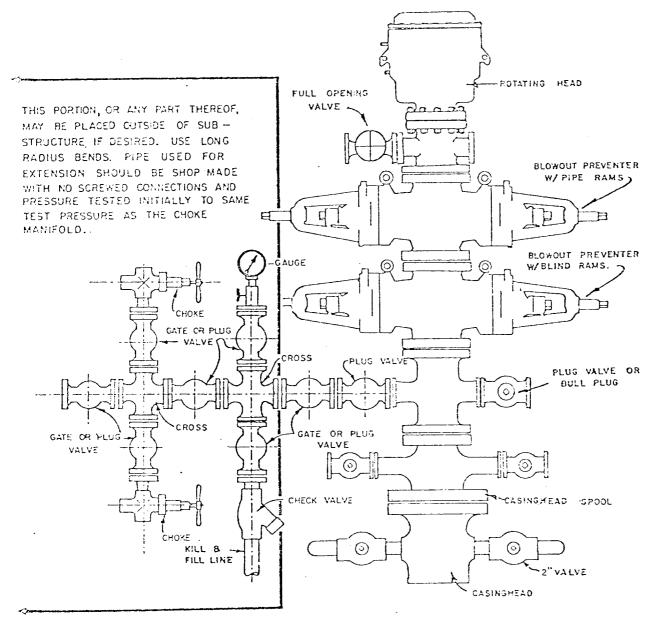
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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 16,1959

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 148 NO. 24 945' FNL & 935' FWL, SECTION 14, 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 are 380-barrel tanks and facilities located at Jicarilla Contract 148 Well No. 10, approximately three-fourths mile south.
- 5. Water will be hauled from Tapacito Wash.
- 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.
- 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 southwest 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.
- The general topography is a broken terrace top with northwesterly drainage, sandstone outcrops, with a sandy clay loam soil; vegetation consists of pinon and cedar trees, sagebrush, rabbitbrush, and native grasses.

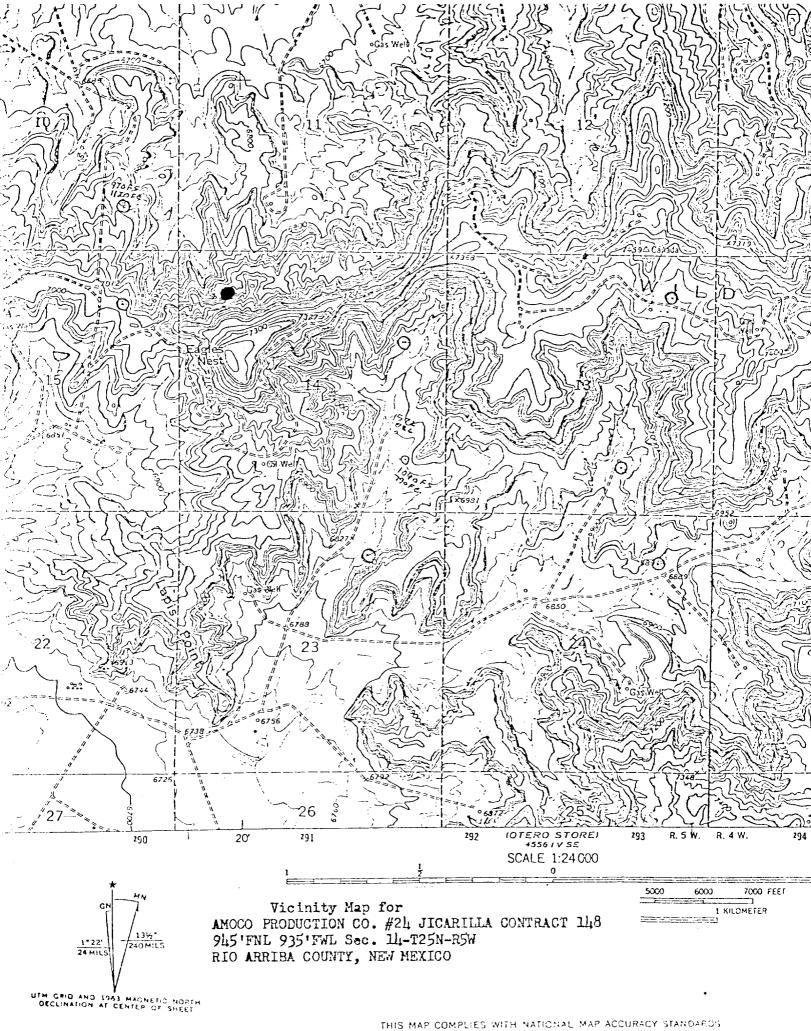
Representatives of the U. S. Geological Survey's Farmington Office and the Jicarilla Tribe's Dulce Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

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

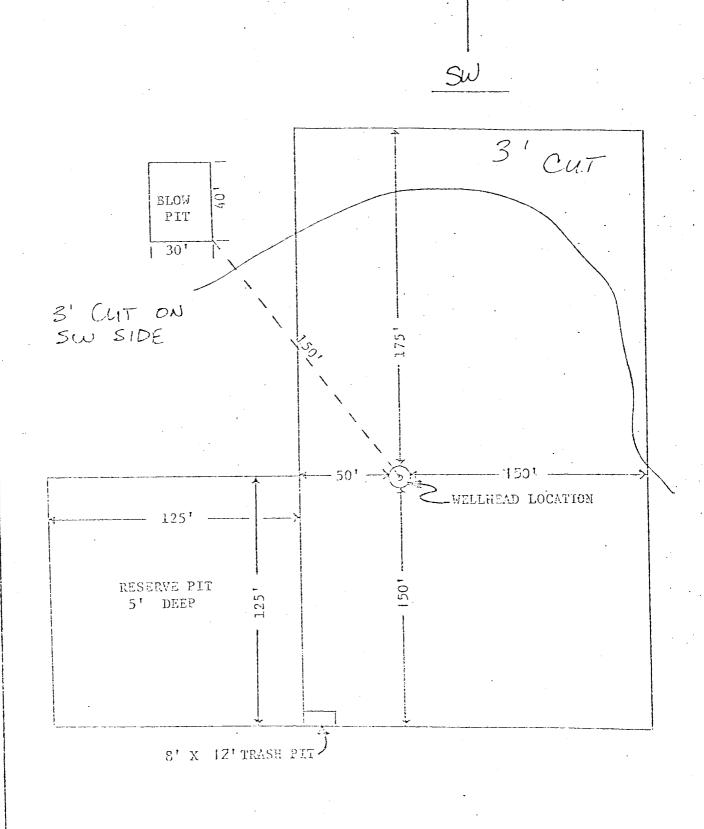
Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

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.

R. W. Schroeder, Distret Superintendent Date October 1, 1980



JICARILLA CONTRACT 148 #24



APPROXIMATELY 1.2 ACRES

Amogo Production Company		scale: 1"=50"
DRILLING LOCATION SPECIFICAT	TOMS	
JKARILIA CONTRACT 148	#24	DRG. NO.