SUBMIT IN TRIPLICATE.

Form approved, Budget Bureau No. 42-R1425,

(Niay (Ma)	HALLT	ED STATES		r mstructions on everse side)	n /
		OF THE INTER		everse side)	36-634-22562
		5. LEASE DESIGNATION AND SERIAL NO.			
		SICAL SURVEY			Jicarillo Contract 148
APPLICATION	FOR PERMIT T	O DRILL, DEEP	EN, OR PL	UG BACK	6. IF INDIAN, ALLOTTEE OR TRUE NAME
: TYPE OF WORK					Jicarilla Apache
DRI	LL 凶	DEEPEN [PLU(G BACK 🗌	7. UNIT AGREEMENT NAME
5. Type of well		,	ingre 🔯	MULTIPLE []	
WELL OF W	ELL OTHER	Z-1	ONE X	ZONE	S. FARM OR LEAGE NAME
SOLVER OF OBESTAGE					Jicarilla Contract 148
AMOCO PRODUCTI	ICN COMPANY				
ADDRESS OF OPERATOR		May May Lag	07401	Ġ	10. FISED AND POOL, OR WILDCAT
501 Airport Dr	rive, Farmington	, New Mexico	87401	· ·	1
E DOCATION OF WHILE (II At surface	eport location clearly and	in accordance with any		<u> </u>	Otero Chacra Cxt
1120' FNL & 1	760' FWL Section	13 T25N R5W	REC	FIVE	AND SURVEY OR AREA
At proposed prod. zon	re.			EIVED	NE/4 NW/4 Section 13 T25N R5W
same	AND DIRECTION FROM NEAR	ner court on bose orne	Moto	1080	12. COUNTY OF PARISH 13. STATE
		i		- 10017	
TH MITES 1987 C 5. DISTANCE VROM PROPE	of Counselor, Ne		U. S. GEOLO O. CF YERES IS I	Figet Bluers	OF ACRES ASSIGNED
LOCATION TO NEAREST	.	- L.	60	TOU, 11 To	THIS WELL
(Also to nearest data	ans, FT. 20 4. unit fine, if any)	1		160	
N. DISTANCE FROM PROP TO NEAREST WELL, D	SHLLING, COMPLETED, EAL		norosed beeth 24		TARY OR CABLE TOOLS
ON MEETING FOR ON TH	,,, i.m.,, 111	1 40		Rota	
ELEVATIONS (Show who	ether DF, RT, GR, etc.)			7 3	22. APPROX. DATE WORK WILL START*
7364 GL				A La	As soon as permitted
	I,	ROPOSED CASING AN	D CEMENTING	PROGRAM /	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DE	PTH	QUANTITY OF CEMENT.
12-1/4	8-5/8 (new)	24# K-55	₹™300 [*]	315	sx class "B" w/25 CaCl2-circ.
7-7/8	4-1/2 (new).	10.6# K-55	4624'		sx class "B" 50:50 POZ, 6% gel.
					ed tuf plug/sx and .8% FLA.
	i	*	1 .	l Tail	in w/75 sx class "B" Neat-circ
·					
Ambdo proposes	s to drill the a	bove well to f	urther dev	elop the O	tero Chara reserves.
The well will	be drilled to t	he surface cas	ing point	using nativ	ve mud. The well will
then be drille	ed to TD with a	low solids non	dispersed	mud system	. Completion design
					Ited upon completion.
			or the appl	ication to	drill and a multi-
point surface	use plan are at	tached.		-	

The gas from this well is not dedicated to a gas sales contract.

is above space tweetime endinger endinant: If proposal is to deepen or plug back, give data on present the late of proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measures. osąń new productive lepths. Give blowout - conter program, if any, S10 N 50 (This space for Polyral or State office use)

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

P. O. BOX 2088 ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501 All distances must be from the outer hounderles of the Section

Form C-102 Revised 10-1-78

es must be from the cuter houndaries of the Section.

		Vit distances must a				Well No.
Operator	wanton compan	137	Lease	RILLA CON	Polem 11.9	23
AMOCO PRODUCTION COMPANY low Section Township			JIUA Range		County	
Unit Letter	Section	1		W	Rio Arrib	
<u>C</u>	13	25N	12	144	NIO ATTIC	,,
Actual Footage Loc		Nonth	and 1760)	wast West	,,
1120	feet from the	North line	Pool	/ feet	from the WESC	line Dedicated Acreage:
Ground Level Elev.	Producing For		1	ra Chacra		160
7364	Chacra					
2. If more th interest ar	nan one lease is nd royalty).		well, outline	each and ide	ntify the ownersh	ip thereof (both as to working
dated by control Yes If answer this form in No allowed	ommunitization, No If a is "no," list the f necessary.)	unitization, force-punswer is "yes;" ty owners and tract of	ooling. etc? pe of consolid descriptions w l all interests	lation thich have ac have been c	tually been cons	olidated. (Use reverse side of communitization, unitization,
forced-poo sion.	ling, or otherwise	or until a non-star	ndard unit, eli	minating suc	h interests, has	been approved by the Commis-
1760'	1120		 		tain best Q.	reby certify that the information con- ed herein is true and complete to the t of my knowledge and belief. A. Nouny DOWNEY
	 Se	ec.	 		Compo AMO Date	TRICT ENGINEER
		1	3	0/2	Oco She wind	ereby certify that the well location whom this plat was plotted from field as pf actual surveys made by me or try supervision, and that the same fruit and correct to the best of my will dge and belief.
					Regis and/o	Surveyed ay 27 1930 tered refessional Engineer r Lond Surveyor red B. Kerr Jr
0 330 650	90 1320 1550 19	80 2310 2640	2000 1500	1000	500 0 39	950

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA CONTRACT 148 No. 23 1120' FNL & 1760' FWL, SECTION 13, T25N, R5W RIO ARRIBA COUNTY, NEW MEXICO

The	geologic	name	of	the	surface	formation	is	the	Teritiary San Jose	
-----	----------	------	----	-----	---------	-----------	----	-----	--------------------	--

Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

FORMATION	DEPTH	ELEVATION
Oje Alamo	3109 '	4268
Kirtland	3269 '	4108 '
Fruitland	3479	3898 '
Pictured Cliffs	3649 '	3728 '
Chacra (if present)	4534 1	2843 '
Mesaverde Cliff House Point Lookout	1	1
Gallup	ľ	1
Dakota	1	•
TD	4624 '	2753

 ţ

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:

Completion design will be based on these logs. We cores or drill stem tasks will be taken.

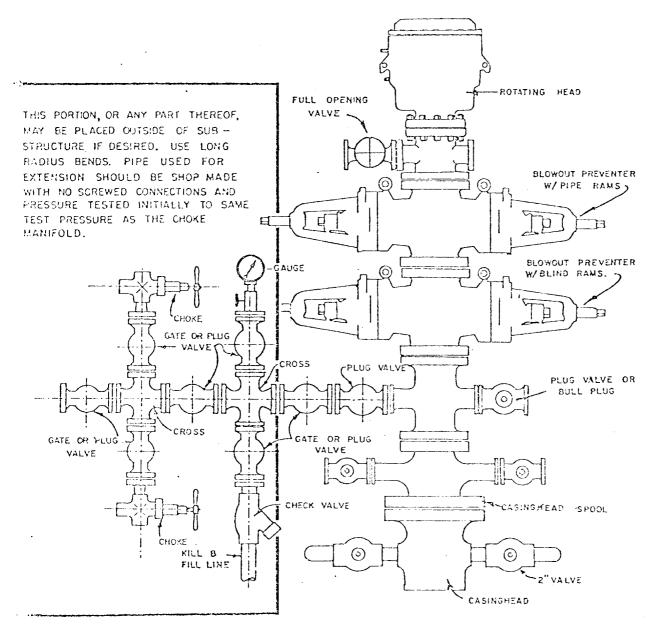
Operations will commence when permitted and lest approximately 3 weeks.

. Two's standard blowout prevention will be employed (see attached drawing).

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

MUDHSPHGR FDCHONLHOR

- Blowout Preventers and Master Valve to be fluid operated, and all fittings must be in good condition.
- Equipment through which bit must pass shall be as large as the inside diameter of the 2. casing that is being drilled through.
- Nipple above Blowout Preventer shall be same size or larger than BOP being drilled 3. through.
- All fittings to be flanged. 4.
- 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

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.

OCTOBER 16,1969

MULTI-POINT SURFACE USE PLAN

JICARILLA CONTRACT 148 NO. 23 1120' FNL & 1760' FWL, SECTION 13, T25N, R5W RIO ARRIBA COUNTY, NEW MEXICO

- I. 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 tanks and facilities located at Jicarilla Contract 148 No. 4, approximately 500 feet south.
- 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. An 8-foot cut will be made on north 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 mesa top with southerly drainage with a sandy clayey loam soil; vegetation consists of pinon, juniper, prickly pear, 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.

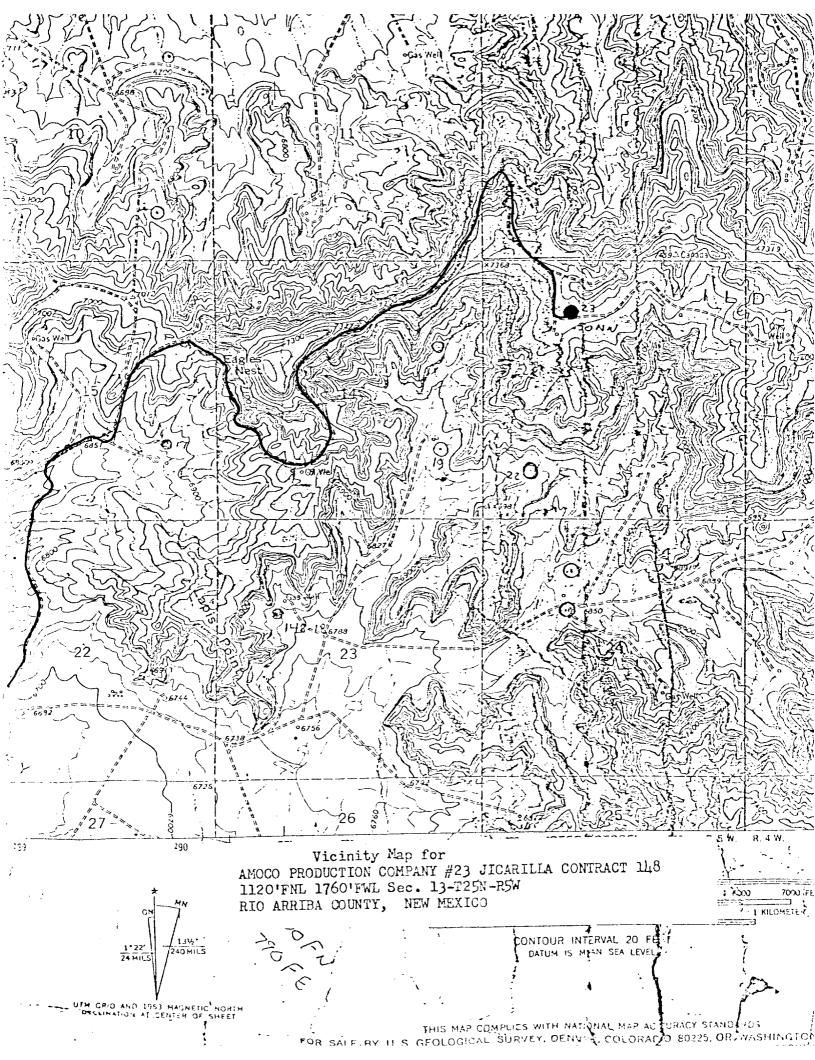
12. Operator's Representative: R. W. Schroeder

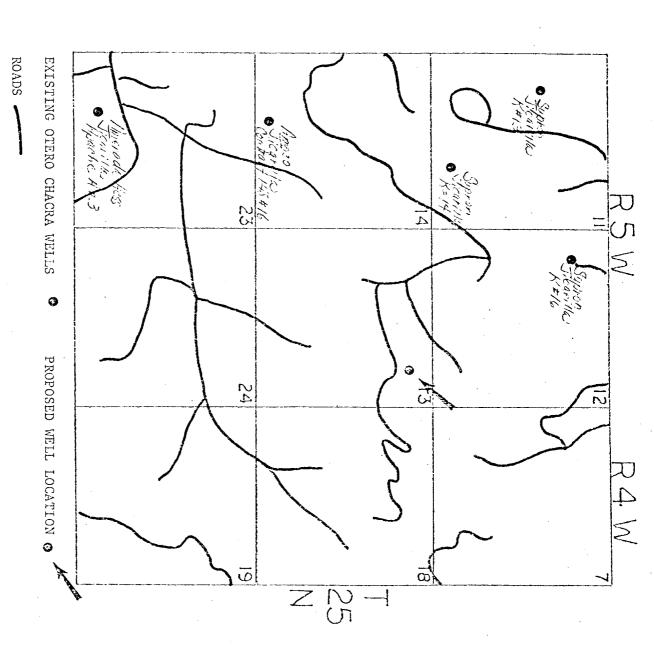
Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

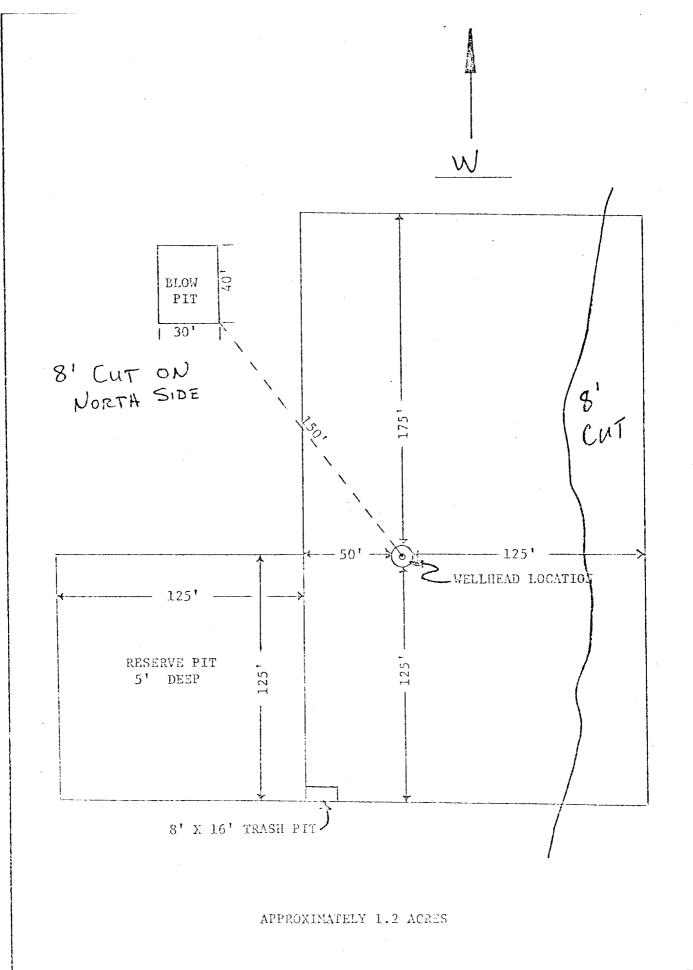
Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the 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







Amoco Production Company	SCALE: 1"=5()"
DRILLING LOCATION SPECIFICATIONS	
JICARILLA CONTRACT 148 #23	983. 3 3.