SUBMIT IN TRIPLICATE®

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

(May 1963)	HMIT	D STATES		(Oth	er instructi reverse side	nns on e)	30-039-2235-2
	DEPARTMENT	ľ	5. LEASE DESIGNATION AND SERIAL NO.				
			Jicarilla Contract 124				
GEOLOGICAL SURVEY APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK							6. IF INDIAN, ALLOTTEE OR TRIBE NAME
APPLICATION	FOR PERMIT TO	O DRILL, D	EEPE.	N, OR P	LUG BA	4CK	Jicarilla Apache
1a. TYPE OF WORK DRIL	L 🗵	DEEPEN []	PLU	JG BACI	< 🗆 🗎	7. UNIT AGREEMENT NAME
b. TYPE OF WELL			81N ZON	CLE X	MULTIPLI ZONE		S. FARM OR LEASE NAME Jicarilla Apache Tribal
WELL WEI	DE CAS OTHER						9. WELL NO.
	DUCTION COMPANY					· ·	4
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, New Mexico 87401							10. FIELD AND POOL, OR WILDCAT EAST.
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)							Lindrith Gal-Dakota West 11. SEC., T., B., M., OR BLK.
At surface 1650' FSL and 1850' FEL, Section 23, T25N, R4W							NW/4, SE/4, Section 23,
At proposed prod. zone							T25N, R4W
14. DISTANCE IN MILES A	Same ND DIRECTION FROM NEAR	EST TOWN OR POS	r OFFICE	•			12. COUNTY OR PARISH 13. STATE
10.5 miles	s West of Gavila	an, New Mex	cico				Rio Arriba New Mexico
15 DISTANCE FROM PROPOS			16. NO	OF ACRES IN	LEASE	17. NO. TO T	HIS WELL
LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drig.	unit line, it any	1650'	l 	2560.0		20. ROTA	RY OR CABLE TOOLS
18. DISTANCE FROM PROPO	SED LOCATION*	2700 † :	19. PR	7824	-		Rotary.
OR APPLIED FOR, ON THE	S LEASE, FI.		<u> </u>			<u>'</u>	22. APPROX. DATE WORK WILL START®
21. ELEVATIONS (Show when 6974 GL	ther Dr. RI, did cally						As soon as permitted
23.	P	ROPOSED CASI	NG AND	CEMENTIN	G PROGRA	. M	
	SIZE OF CASING	WEIGHT PER F	00Т	SETTING	DEPTH		QUANTITY OF CEMENT
SIZE OF HOLE	8-5/8" (New)	24# K-5	5	30	0'	315 s	Class "B" w/2% CaCl2-circ.
<u>12-1/4"</u> 7-7/8"	5-1/2" (New)	17# N-8		782	4!	Stage	I-360 sx Class "B" 50:50 5% gel, 0.8% FLA, and 2 lbs
						med to	of plug/sx. Tail in w/125
!		1				sx Cla	ass "B" Neat-circ.
The above well.	is heina drille	ed to test	the G	allup an	id thin	Stage	2- 950 sx Class "B" 65:35
Dakota formatio	ns10.				٠.	POZ,	6% gel, 0.8% FLA, and 2 lbs
The gas from th	is acreage is o	ledicated t	o Gas	Co. of	Hew	mediu	m tuf plug/sx. Tail in w/ x Class "B" Neat-circ.
Mexico.	•	[]		VED		100 5	+105615'
•						DV	10000000000
		MAY	$\left[\frac{9.1}{2}\right]$	1980	ļ	شايسېد پېښېسې د	
	Th.	Gron	129	god	\		
		1/10	15 intil	ENGINEER	J &		
		100				North Jac	
				•		1883년 (1).	
							100 A
ADAGE DESCRIP	E PROPOSED PROGRAM: If	proposal is to de	epen or	plug back, glv	e data on n	resent-pr	oductive zone and proposed new productive red and true vertical depths. Give blowout
zone. If proposal is to	diffi of decircu arrests	ally, give pertine	nt data	on subsurface	locations #	ilo mener	red and true vertical depths. Give blowout
preventer program, if an	- A A	1					
BIGNED	. E Jack	U,	ITLE	Distric	et Engi	neer	March 27, 1980
(This space for Fed	eral or State office use)				_	Ī.	ERELVER
•	•			APPROVAL DA	ATK		
PERMIT NO.							ADD 1.1.1000
APPROVED BY			TITLE				DAIN HABU
CONDITIONS OF APPRO	VAL, IF ANY:				,		S. GEOLOGIOAL STRVEY
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OIL CONSERVATION DIVISION

STATE OF HEW MEXICO LHERGY ALS MINERALS OF PARTMENT

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

Form C-107 kerised 10-1-78

All distances must be from the cuter houndaries of the Section Well No. Cheralor JICARILLA APACHE TRIBAL 124 AMOOO PRODUCTION COMPANY Township Unit Letter Section Rio Arriba 25N LW 23 Actual Footage Location of Well; 1850 feet from the East South line and feet from the Dedicated Acreage: Producing Formation Ground Level Elev. Lindrith Gallup-Dakota West Gallup - Dakota 6974 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? If answer is "yes," type of consolidation _ Yes 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the B. E. FACKRELL Pesition DISTRICT ENGINEER Company AMOCO PRODUCTION COMPANY FEBRUARY 1, 1980 Sec. I hereby certify that the well location 23 shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same 18501 is true and correct to the best of my knowledge and belief. Date Surveyed January 500 1000 2000 1320 1680

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA APACHE TRIBAL 124 NO. 4 1650' FSL & 1850' FEL, SECTION 23, T25N, R4W 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:

FORMATION	DEPTH	ELEVATION
Ojo Alamo	2817 '	4170 '
Kirtland	3024 '	3963 '
Fruitland	3247 '	3740 '
Pictured Cliffs	3383 '	3604 '
Chacra (if present)	4246 '	2741
Mesaverde Cliff House Point Lookout	5048 ' 5335 '	1939 1 1652 1
Gallup	6664 •	323 •
Dakota	7546 •	- 559 •
TD	7824 •	-837 •

Estimated KB elevation: 6987

Drilling fluid to TD will be a fresh water, low solids non-dispersed mud si system. Open hole logging program will include logs from TD to below surface casing:

Induction Electric-SP-Gamma Ray Compensated Formation Density-Compensated Neutron-Gamma Ray

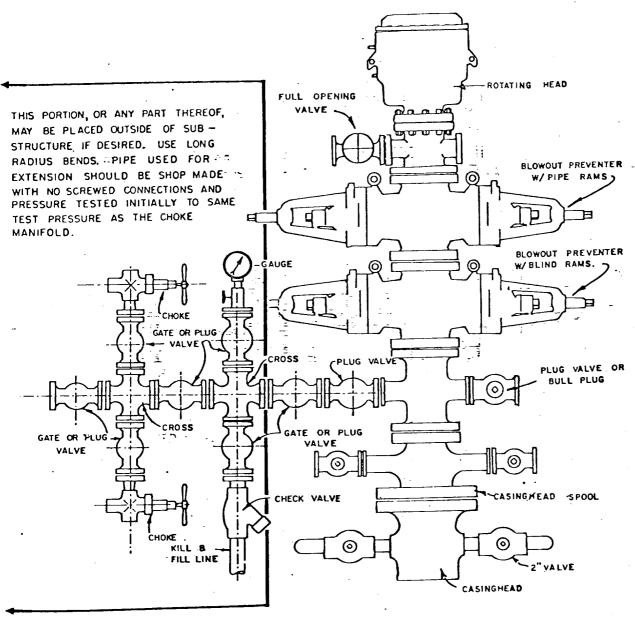
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 4 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.
- 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 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 APACHE TRIBAL 124 NO. 4 1650' FSL & 1850' FEL, SECTION 23, T25N, R4W 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 750 feet in length and 20 feet wide. Road to be bar ditched on two sides.
- 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 three 300-barrel tanks and facilities located at Jicarilla Apache Tribal 124 No. I, approximately one-half mile west.
- 5. Water will be hauled from Cottonwood Water Hole and Tapacito 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. 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 3-foot cut will be made on northwest 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.
- II. The general topography is a canyon bottom with southwesterly drainage and alluvial surface deposits. The soil is sandy, clayey loam. Vegetation consists of rabbitbrush, sagebrush, prickly pear, and native grasses.

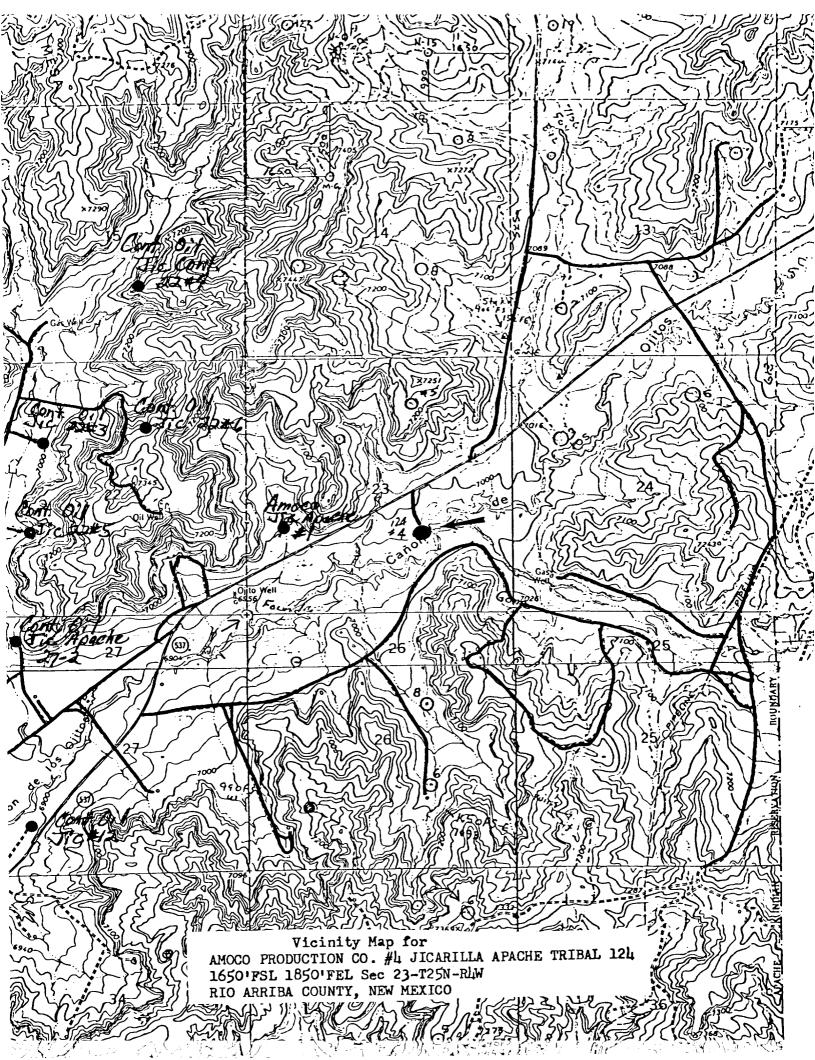
Representatives of the U. S. Geological Survey's Durango-Office and the Jicarilla Tribe's Dulce Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

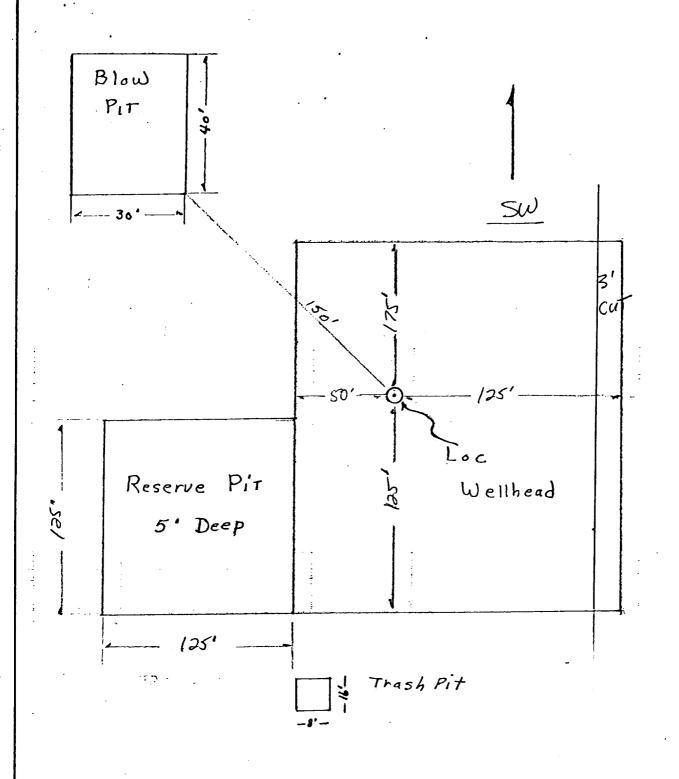
12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

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 March 25, 1980

R. W. Schroeder, District Superintendent





Approximately 1.2 Acres

Amoco Production Company	SCALE: NONE
Drilling Location Specs JICARIUA APACHE TRIBAL 124#4	DRG.