"GENERAL REQUIREMINAS"

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425, 30-039-22345-

UNITED STATES

DEPARTMENT OF THE	114 1 17 17 1	O.C.	ļ	5. LEASE DESIGNATION	AND SERIAL NO.	
GEOLOGICÁL SURV	Jicarilla Cor	itract 155				
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK				6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
1a. Type of Work	Jicarilla 7. UNIT AGREEMENT N	Apache				
DRILL DEEPEN		PLUG BAC	$K\sqcup I$	T. VALL AND MARKET	, , , , , , , , , , , , , , , , , , ,	
b. Type of Well OIL WELL WELL OTHER NF L	SINO ZON	GLE MULTIPL ZONE	* 🗀 🖠	8. FARM OR LEASE NAM	f E	
WELL WELL OTHER INFILL 2. NAME OF OPERATOR	ZON	E 0/21 20/48		Jicarilla Cor	itract 155	
AMOCO PRODUCTION COMPANY				9. WFLA. NO.	The second secon	
3. ADDRESS OF OPERATOR		27401		19E	M. W. I. I. C. A. W.	
501 Airport Drive, Farmington, New 4. LOCATION OF WELL (Report location clearly and in accordance w	W Mexic	(6 6/401 (6 5 % (16 5) (5.*)		Pasin Da		
At surface				11. SEC. T. R. M. OR	RLK.	
1775' FSL and 1840' FEL, Section 2	29, 126	N, RoW		NW/4, SE/4,		
Same				T26N, F		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR PO				12. COUNTY OF PARISH Rio Arriba	New Mex	
18 miles North of Counselors, New	Mexico	OF ACEES IN LEASE	17, No. C	F ACRES ASSIGNED	I MEM MEX	
10. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 1775	10.13.	2477,56	10 11	HIS WELL 320		
(Also to nearest drig, unit line, if any)	19. PEO	POSED BEPTH	20. ROTA	RY OR CABLE TOOLS		
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2050		7277		Rotary	,	
21. ELEVATIONS (Show whether DF, RT, GR, etc.)				22. APPROX. DATE WO		
6443' GL				As soon as	permitted	
23. PROPOSED CAS	ING AND	CEMENTING PROGRA	M			
SIZE OF HOLE SIZE OF CASING WEIGHT PER	F00T	SETTING DEPTH	- <u>-</u> -	QUANTITY OF CEME		
	55	300' 7277'	Stace	x Class "B" W/ I-410 sx Clas	<u>2% CaCl2-circ.</u> s "B" 50:50	
7-7/8" 4-1/2" (New) 11.6# K-	- 22	1213		6% gel, 0.8% F		
	ļ			uf plug/sx. Ta		
This application to drill an Infill Bas	sin Dak	ota well is		ass "B" Neat-c		
pursuant to Order No. R-1670-V approved	by th	e NMOCD on		2-DV tool set		
May 22, 1979. This well will qualify upon the Natural Gas Policy Act under Ord	inder S Hor No	ection 103		sx Class "B" 6 1, 0.8% FLA, a		
			tuf p	lug/sx. Tail i	n w/ 100 sx	
The gas from this well is dedicated to	NOTTHW	lesi riperine.		"B" Neat-circ		
			فنيعين		•	
			A CONTRACTOR OF THE PARTY OF TH		Section 1995	
L'O						
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AY 7 G 1980		
·				7.24		
			A. C. C.			
			`\. 	dusting gang and propo	end new productive	
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to done. If proposal is to drill or deepen directionally, give pertin	leepen or p ent data o	lug back, give data on p n subsurface locations u	resent pro nd measur	ed and frue vertical dep	ths. Give blowout	
preventer program, if any.						
BE J. O.		District Engi	noor	DATE Apr	1 7 1980	
SIGNED TIC PARTIES	TITLE	_DISTITUTE ENGI	11661	PATE NPI		
(This space for Federal or State office use)				For the second s		
PERMIT NO.		APPROVAL DATE		PROVED	\	
			AS A	MENDED		
APLROVED BY CONDITIONS OF APPROVAL, IF ANY:	TITLE			PATE		
CONDITIONS OF APPROVAL, IF ANY:		an charged for	Da	un y him		
DRILLING OPERATIONS AUTHORIZED ARE	NMOC	30	75A	MES F. SIMS		
SUBJECT TO COMPLIANCE WHILE ATTACHED	E 7117 GD 6		DISTE	RICT ENGINEER	······································	

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO HERGY 415 MINERALS DEPARTMENT

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

Form C-102 kevised 10-1-78

		All distances must be	from the cuter	troundertre ef	the Section		
Cycrator Lo			Lease				Well No.
AMOCO PRODU	UCTION COMPANY				<u> </u>	19-E	
Unit Letter	Section	Township	Range	_	County	\	
J	29	26N		W	Rio A	lrrib a	
Actual Footoge Loc 1775		South line o	1840) _{(ee}	et from the	East	line
Ground Level Elev.	reet from the		Pool			Ded	icated Acreage:
6443	Dakot		Basi	n Dakote			E 320 Acres
		ted to the subject					at below. of (both as to working
3. If more than	nd royalty). an one lease of d		is dedicated				owners been consoli-
this form i	is "no," list the if necessary.)	ed to the well until	escriptions v	vhich have a	consolidate	ed (by commun	Use reverse side of nitization, unitization, proved by the Commis-
	1					CI	ERTIFICATION
	 			 		tained herein	
	 	Sec.		 - - Tribal No. 155		Company AMOCO PRO Date FEBRUARY	DUCTION COMPANY
	 		17751 @	1840' 1840		pate Surveyed January Registered Pro and/or Lands	Personal Engineer dry of the Control
						Gentische No	THEO E KERN.

SUPPLEMENTAL INFORMATION TO FORM 9-331C JICARILLA CONTRACT 155 NO. 19E 1775' FSL & 1840' FEL, SECTION 29, T26N, 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:

FORMATION	<u>DEPTH</u>	ELEVATION
Ojo Alamo	2250 '	4206
Kirtland	2385	4071
Fruitland	2641	3815
Pictured Cliffs	2779 '	3677 '
Chacra (if present)	3660 '	2796
Mesaverde Cliff House Point Lookout	4435 1 5039 1	2021 . 1417
Gallup	6129 '	327
Dakota	6944 '	- 488 '
TD	7277 '	-821 ¹

Estimated	КВ	elevation:	6456

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:

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

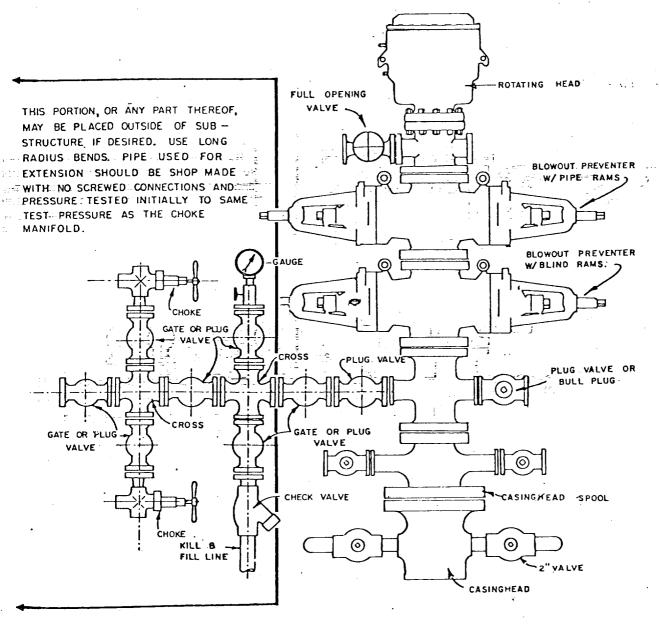
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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.
- 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 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 155 NO. 19E 1775' FSL & 1840' FEL, SECTION 29, T26N, R5W RIO ARRIBA COUNTY, NEW MEXICO

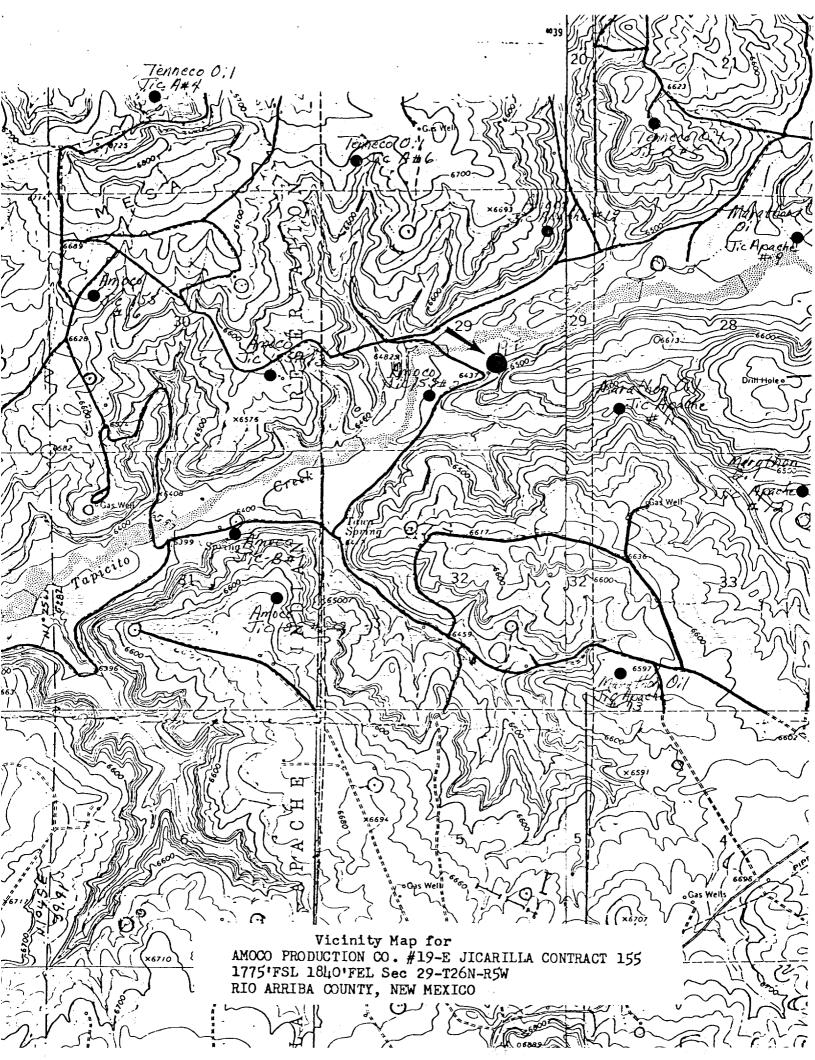
- 1. The attached topographic map shows the proposed route to the location.
- 2. It will not be necessary to build any access road. Location is 135 feet east of Amoco's Jicarilla Contract 155 No. 8
- Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
- 4. There is a 380-barrel tank and facilities located at Jicarilla Contract 155 Well No. 20, approximately one-half mile west.
- 5. Water will be hauled from 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 south 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 flat, in canyon bottom, in edge of Tapacito Wash, with sandstone bluffs. The soil is sandy, clayey loam, with vegetation of pinon, juniper, rabbitbrush, saltbush, sagebrush, and native grasses.

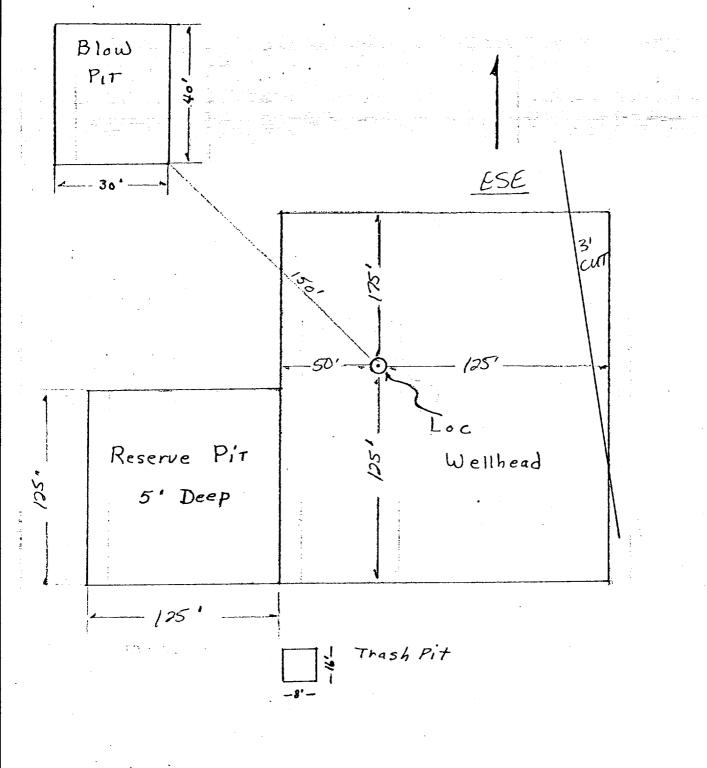
Representatives of the U.S. Geological Survey's Durango Office and the Jicarilla Tribe's Dulce Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

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 AMOCQ PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date April 2, 198	2 1980	J.	M.W. Schroeder				
Date April 2	., 1900	R. W.	Schroeder,	District	Superintendent		





Approximately 1.2 Acres

Amo	oco Production Comp	oany	SCALE:	NONE
Drilling	LOCATION	Specs	DRG,	
JUARILLA	CONTRACT	155 No 19E	NO.	