SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

	approved		10 50 115-
Budget	Bureau	No.	42-R1425.

UNITED STATES

		IT OF THE INTE	RIOR	Side)	30-139-27-57.1 5. LEASE DESIGNATION AND SERIAL NO.
	GEOL	OGICAL SURVEY			Jicarilla Contract 146
APPLICATION	Y FOR PERMIT	TO DRILL, DEEP	EN, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE OR TRIDE NAME
la. Type of work DS	ILL 🕅	DEEPEN [PLUG BA		Jicarilla Apache
b. TYPE OF WELL OIL G. WELL WELL W	AS SELL STEER	\$ 2	MULTI	PLE X	8, FARM OR LEASE NAME
2. NAME OF OPERATOR					Jicarilla Contract 146
AMOCO PRODUCE.	CTION COMPANY			<u> </u>	9. WELL NO.
501 Airport Linearing of Wall (R At surface	eport location clearly a d 1120' FEL, S ne	gton, New Mexicond in accordance with any ection 10, T25N,	State requirements.*)		33 10. FIRED AND POOL, OR WILDCAT Otero Chacra/ Gonzales Mesavende E., 11. sec., T., R., M., OR BUX. AND SURVEY OR AREA SE/4, SE/4, Section 10,
4. DISTANCE IN MILES	Same and direction from Ni	CAREST TOWN OR POST OFFIC)E *		T25N, R5W
15 miles No	rth Northeast	of Counselor, Ne	ew Mexico		Rio Arriba New Mexico
LOCATION TO NEAREST	OSED* T	16. N	O. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE I (Also to nearest dri. (S. DISTUNCE FROM PROP	g. unit line, if any)	970'	2557.20	20 2071	160 7/60 RY OR CABLE TOOLS
TO NEAREST WELL, D OR APPLIED FOR, ON TH	RIGHANG, COMPERTER,	1072'	5553 '	20. 101.	•
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)				ROTARY 22. APPROX. DATE WORK WILL START*
6883' GL		<u> </u>			As soon as permitted
		PROPOSED CASING AN	D CEMENTING PROGE	AM	in a second
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		P QUANTITY OF CEMENT
12-1/4"	8-5/8" (New)		300'		Class B w/2% CaCl2-circ
7-7/8"	5-1/2" (New)	15.5# K-55	55531		1: 400 sx CI B Neat-circ 2: 720 sx CI B 50:50 POZ
develop the Ot The well will using native m with a low sol design will be logs will be f mation require	rero Chacra/Gor be drilled to hud. The well ids nondispers based on oper filed upon com ed by NTL-6 for	above dual well above dual well above dual well rate cas will then be dread mud system. A hole logs. A bletion. Addition the applications plan are atta	reserves. ing point illed to TD Completion copy of all onal infor- n to drill	Ťail i	med tuf plug/sx and .8% n w/100 sx Cl B Neat-cir
		edicated to EL P			
Gas Co.			ALLI		1007 (2 1 P.E)
	drill or Jeepen directic	f proposal is to deepen or mally, give pertinent data	plug thek, OCTa 10 on suffering locations of OIL CON. (ind measur COM.	uctive zone and proposed new productive d and true vertical depths. Give blowout
826NED	PPROVED	TOTAL	District Engir		DATE October 1, 1980
PERMIT NO.	SAMENDE!	,	APPROVAL DATE		
A PURIOVED BY	HAMES F. SIMS				DATE

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-102 kevised 10-1-78

All distances must be from the cuter boundaries of the Section.									
Operator			Lease				Well No.		
AMCCO PRODUCTION COMPANY		JIC	ARILLA COI	NTRACT 1	46	33			
Unit Letter	Section	Township	Rang		County				
P .	10	25N		5N	Rio	Arriba			
Actual Footage Loca	ation of Well:	<i>a</i>							
970	feet from the		e and 112	O fe	eet from the	East	line		
Ground'Lavel Elev.	Producing Fo		P∞l			Dedic	ated Acreage:		
6883	Chacre	/Mesaverde	Ute	ro Chacra	Gonzal	es MV E	160 Acres		
1. Outline the	1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.								
 If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli- 									
3. If more that dated by co	n one lease of dommunitization, a	ifferent ownershi mitization, force-	p is dedicated pooling.etc?	to the well	, have the	interests of all o	wners been consoli-		
Yes	No If a	nswer is "yes," ty	ype of consoli	dation					
If answer i	s "no," list the necessary.)	owners and tract	descriptions v	which have a	actually be	en consolidated.	(Use reverse side of		
	•	ed to the well ust	il all interests	have been	1: 1	. 1 /1	• • • • • • •		
forced-pool	ing or otherwise	or until a non-sta	n an meresis	nave been	consolidat	ted (by community	ization, unitization,		
sion.	ing, or otherwise,	or until a non-sta	ndard unit, er	iminating su	icn interest	s, has been appro	oved by the Commis-		
2.0									
						CER	TIFICATION		
	!								
					1	I hereby certify	that the information con-		
	.				1	l .	true and complete to the		
			·			best of my knowl			
į	1		ļ		I	100	٨		
	1 .				1	C. A. A	louney		
	_ +	·				Name			
•	i					R.A. DOWNE	Y		
	1					Position	MATMERO		
						DISTRICT E	NGINEER		
	i		; !			Company AMOCO DDOD	UCTION COMPANY		
	i			•			OCTION COMPANY		
	l s	ec.	1			MAY 28, 19	80		
						1111 20, 19			
					100				
	1	1		1		I hereby certify	that the well location		
	1		1	· · ·	2	郷 だんはく なっ	at was plotted from field		
	1				007	notes of actual	surveys made by me or		
	1			2,000	OIL CO	W 1+341 1	sion, and that the same		
	1		ļ	, in	L	Cas true and con	rect to the best of my		
	1	H			3 C 1	knowledge and be	lief.		
 	-+				-	- in the second			
	1 :		1	a 112	201				
	1		1	9	= <u>-</u>	Date Surveyed			
	I		1			May 22, 15	380		
	1		i			Registered Proless	tonat Engloser		
	I		1	0		and/or Land Survey	空(0)高)		
				97.0		tu Ba	ou a		
L		<u> </u>				Fred B. Ke	rr Jr.		
9 330 550 -95	1320 1030 1930	2210 2440	2000	7	4	Certificate No.			

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA CONTRACT 146 NO. 33 970' FSL & 1120' FEL, SECTION 10, 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:

FORMATION	DEPTH	ELEVATION
Ojo Alamo	2508 1	4388 ¹
Kirtland	2708 †	4188 '
Fruitland	2938 **	3958 '
Pictured Cliffs	3093 '	3803 ¹
Chacra (if present)	3958 '	2938 '
Mesaverde Cliff House Point Lookout	4768 ' 5223 '	2128 ' 1673 '
Gallup	1	i
Dakota	. • • • • • • • • • • • • • • • • • • •	
TD	5553 '	1343

Estimated	ΚB	elevation:	6896
			Value

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:

> IND-SP-GR FDC-CNL-GR

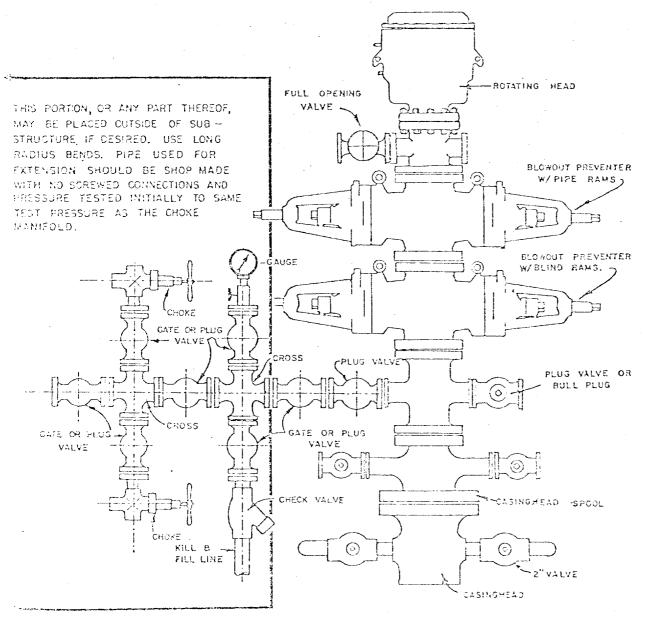
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 3 weeks.

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.

- 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 POP by closing both pipe and blind raws will be tested each trip or, on long bit runs, pipe raws will be closed once each 24 hours.

MULTI-POINT SURFACE USE PLAN

JICARILLA CONTRACT 146 NO. 33 970' FSL & 1120' FEL, SECTION 10, T25N, R5W 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 200 feet in length, 20 feet wide, and bar ditched on two sides.
- 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 is a 380-barrel tank and facilities located at Jicarilla Contract 146 Well No. 22, approximately one-half mile north.
- 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. An 8-foot cut will be made on west 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 an uneven, broken slope terrain, with drainage to the northeast, and sandy clay loam soil; vegetation consists of pinon and juniper trees, 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.

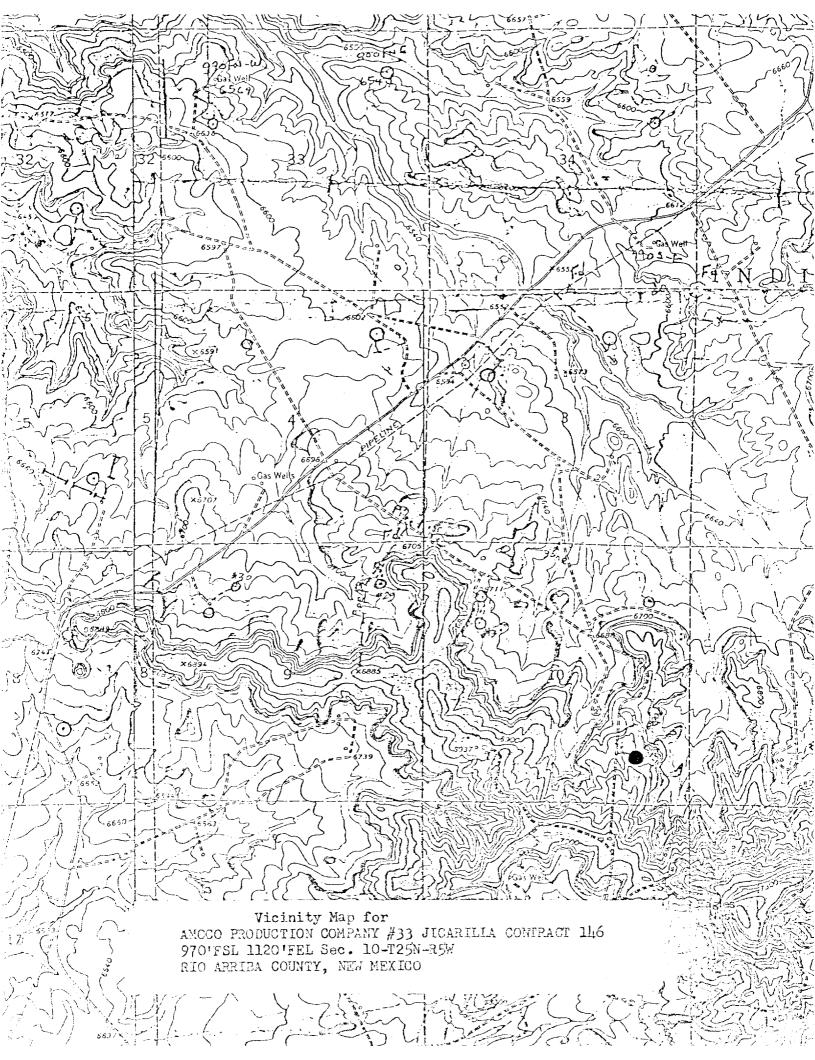
12. Operator's Representative: R. W. Schroeder

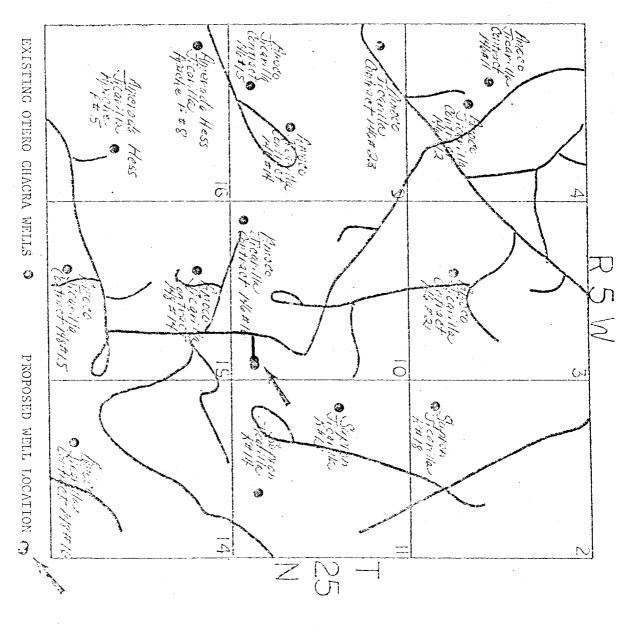
Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

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	١,	1980

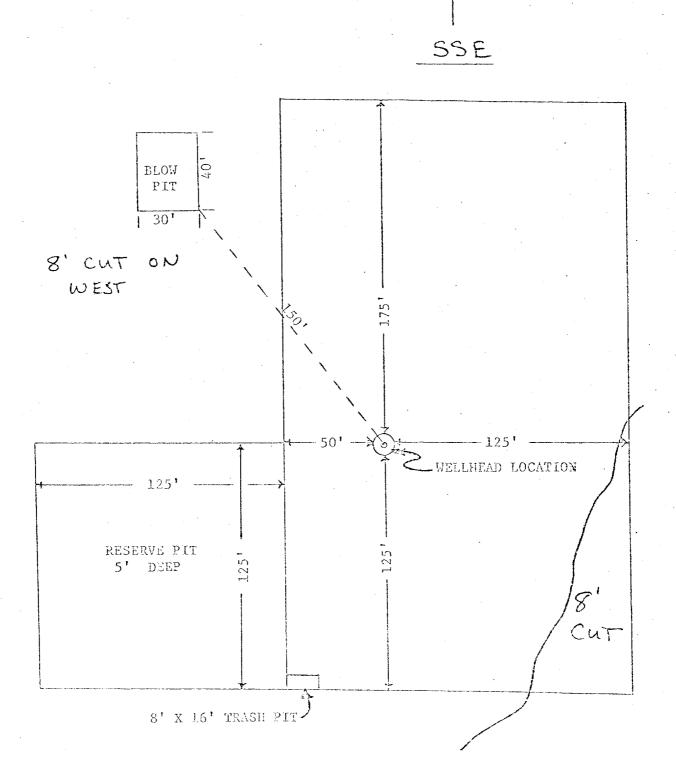
R. W. Schroeder, District Superintendent





EXISTING CONZALES MESAVERDE WELLS 9

ROADS +



APPROXIMATELY 1.2 ACRES

Amago Production Company	scale: 1"=501
DRILLING LOCATION SPECIFICATIONS	
JICARILLA CONTRACT 145 # 33	DRG. NO.
STARRICA CONTRACT ITS 11 23	