1a. TYPE OF WORK

b. TYPE OF WELL

2. NAME OF OPERATOR

3. ADDRESS OF OPERATOR

At proposed prod. zone

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE,

69181 GL

(Also to nearest drig, unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION*
TO NUMBER WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

WELL

At surface

 $\overline{23}$.

DRILL 🗵

well 🖂

AMOCO PRODUCTION COMPANY

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

OTHER

501 Airport Drive, Farmington, New Mexico 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)

940' FSL and 1020' FWL, Section 13, T25N,

SUBMIT IN TRIPLICATE*

(Other instructions on

PLUG BACK

MULTIPLE ZONE

17. NO

16C

Form approved. Budget Bureau No. 42-R1425.

reverse side)

20-1729-17483

UNITE				
DEPARTMENT	OF	THE	INTERIOR	

GEOLOGICAL SURVEY APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

DEEPEN [

SINGLE

 $\langle \times \rangle$

16. NO. OF ACRES IN LEASE

2560

5665

19. PROPOSED DEPTH

PROPOSED CASING AND CEMENTING PROGRAM

	5. LEASE DESIGNATION AND SERIAL NO.
_	Jicarilla Contract 148
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	Jicarilla Apache
	7. UNIT AGREEMENT NAME
	÷
	S. FARM OR LEASE NAME
	Jicarilla Contract 148
	9. WELL NO.
_	22
6	10. FIELD AND POOL, OR WILDCAR Blanco Pictured Cliffs Otero, Chacra -Gonzales MesaVo
	Otero: Chacra-Gonzales MesaVo
e 7	11. SEC. T., B., M., OR BLEACE AND SURVEY OR AREA
	SW/4, SW/4, Section 13,
	T25N, R5W
	12. COUNTY OR PARISH 13. STATE
1	Rio Arriba New Mexico
т.	DF ACRES ASSIGNED
	4 160 4 160
	RY OR CABLE TOOLS
	Rotary
	22. APPROX. DATE WORK WILL START*
	As soon as permitted

SETTING DEPTH WEIGHT PER FOOT SIZE OF CASING SIZE OF HOLE 24# 3001 12-1/4" 8-5/8" (New) K - 5556651 7-7/8" 15.5# K-55 5-1/2!! (New) to administrative This action is sup $S \square$ appeal purecent to 30 GAR 290,

14 miles North Northeast of Counselor, New Mexico

9401

18131

Amoco proposes to drill this dual well to further develop the Otero Chacra/Mesaverde/Pictured Cliffs reserves. Production from the Chacra and Mesaverde formations will be commingled down hole and dualed with the Pictured Cliffs. The well will be drilled to the surface casing point using native mud. The well will then be drilled to TD with a low solids nondispersed 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 not dedicated to a gas sales contract.

QUANTITY OF CEMENT 315 sx Class "B" w/2% CaCl2-circ Stage I: 400 sx CI B Neat-circ Stage 2: 735 sx CI B 50:50 POZ, 6% gel, 2# med tuf plug/sx and 0.8% FLA. Tail in w/100 sx of Class "B" Neat-circ. Cement basket at 4185'. DV tool at 4135'.

> OIL CON. COM DIST. 3

productive IN AN AN AND SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive a zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true ertical depths. Give blowout preventer program, if any,

SIGNED	P. A. Downey on	TITLE	District Engineer	DATE	August 6, 1980
(This space	Ar Federal or State office use)				
PERMIT NO	A		APPROVAL DATE		
APPROVED BY	Buce Winns ?	TITLE		DATE	
CONDITIONS	FARPROVADOR ENCONCER				

ch 3 ml

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

All distances must be from the outer boundaries of the Section.

M Actual Footage Loc 940 Ground Level Elev. 6918 1. Outline th 2. If more th dated by Yes If answer	reet from the Producing For Pictur Chacra The acreage dedicate than one lease is and royalty). The producing For Pictur Chacra The acreage dedicate than one lease of communitization, No If a "no," list the if necessary.)	South South red Cliffs Mesaverde ated to the s dedicated to different owner unitization, for answer is "ye owners and	the well ership is orce-poolis;' type o	Range 5W 1020 Po 5.Blan Ote: all by color t, outline e dedicated to the consolidate f consolidate	co Picturra Chacra red pencil o ach and ide	Rio t from the ced Clift Gonzal r hachure entify the contains the c	Arriba West fs/ es_MV marks on the	ereof (both as to working all owners been consoli-
M Actual Footage Loc 940 Ground Level Elev. 6918 1. Outline th 2. If more th dated by Yes If answer	Section 13 cation of Well: feet from the Producing For Pictur Chacra the acreage dedicates and royalty). The producing For Pictur Chacra and none lease is and royalty). The producing For Pictur Chacra The acreage dedicates and royalty). The acreage dedicates are producing for Pictur Chacra The acreage dedicates are producing for Picture C	South South red Cliffs Mesaverde ated to the s dedicated to different owner unitization, for answer is "ye owners and	ubject we the well ership is corce-poolis;" type o	Range 5W 1020 Po 5.Blan Ote: all by color t, outline e dedicated to the consolidate f consolidate	tee co Pictur ra Chacra red pencil o ach and ide to the well,	Rio t from the ced Clift Gonzal r hachure entify the contains the c	Arriba West fs/ es_MV marks on the	Dedicated Acreage: 160 Acres e plat below. ereof (both as to working all owners been consoli-
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5918 1. Outline the control of the	Producing For Pictur Chacra he acreage dedicate than one lease is and royalty). In one lease of communitization, No If a ''no,' list the if necessary.)	different owner unitization, for answer is "ye owners and	ubject we the well ership is corce-poolis;" type o	Ote: Ote: Il by color , outline e dedicated t ng. etc? f consolida	co Pictur ra Chacra red pencil o ach and ide to the well,	r hachure	fs/ es_MV marks on the ownership th interests of	Dedicated Acreage: 160 Acres e plat below. ereof (both as to working all owners been consoli-
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dated by Yes If answer	No If a 'no,' list the if necessary.)	answer is "ye owners and	s;' type o	ng. etc? f consolida	ation			
.1	if necessary.)	and to the well		riptions wh	hich have a	ctually be	en consolida	ted (Use reverse side of
No allowa forced-po- sion.		e) or until a no	ll until all on-standar	l interests d unit, elin	have been ninating suc	consolidat	ed (by com	munitization, unitization, approved by the Commis-
				1			1	CERTIFICATION
		Sec.		 			Name R.A. DO Position DISTRI Company AMOCO Date JUNE 3	CT ENGINEER PRODUCTION COMPANY , 1980
1020'	0,016		13		 		shown on nones of under my is not be knowned. Date Surve	27. 19800 LMD
					<u></u>		Cartificate	
	-	7			1000	500	3950	

SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA CONTRACT 148 NO. 22 940' FSL & 1020' FWL, SECTION 13, T25N, R5W RIO ARRIBA COUNTY, NEW MEXICO

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

FORMATIO	NO	DEPTH	ELEVATION
Ojo Alamo		2610 '	+4321
Kirtland		28001	4131
Fruitland		2990 '	3941
Pictured C	liffs	3150 '	3781 '
Chacra (if	present)	40351	2896 •
Mesaverde	Cliff House Point Lookout	4858 ' 5365 '	2073 ' 1566 '
Gallup		*	1
Dakota		t	. 1
TD		5665	1266 '

Estimated	KB	elevation:	6931	• †
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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:

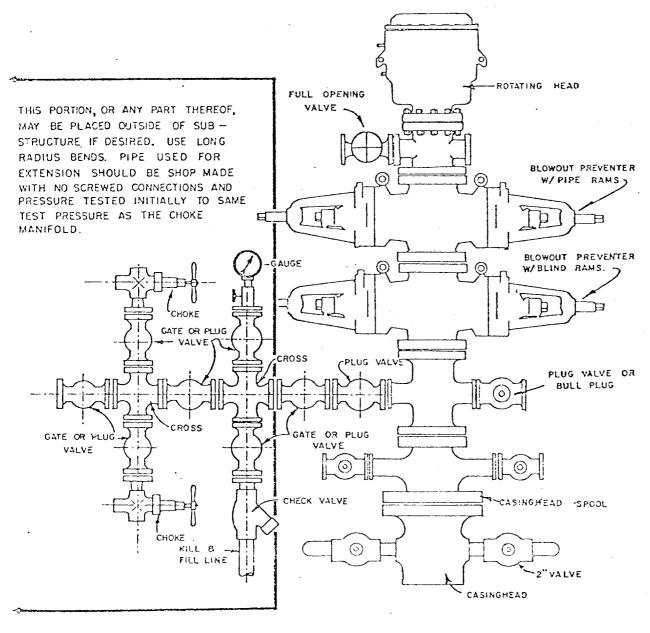
IND-SP-GR FDC-CNL-GR

Completion design will be based on these logs. No drill stem tests will be taken. Special coal logging program over Fruitland interval will be conducted. Three rubber sleeve cores (20' each) over intervals to be specified by wellsite geologist. Cores to be taken between approximately 3134-3184. 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.
- 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 148 NO. 22 940' FSL & 1020' 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 be necessary to build an access road approximately one-half mile in length and 20 feet wide. Road to be 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 are two 380-bbl. tanks & facilities at Jicarilla Contract 148 Well No. 10.
- 5. Water will be hauled from Tapacito water holes.
- 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 northeast 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 sloping area with sandy loam type soil; vegetation consists of sagebrush and native grasses with some junipers.

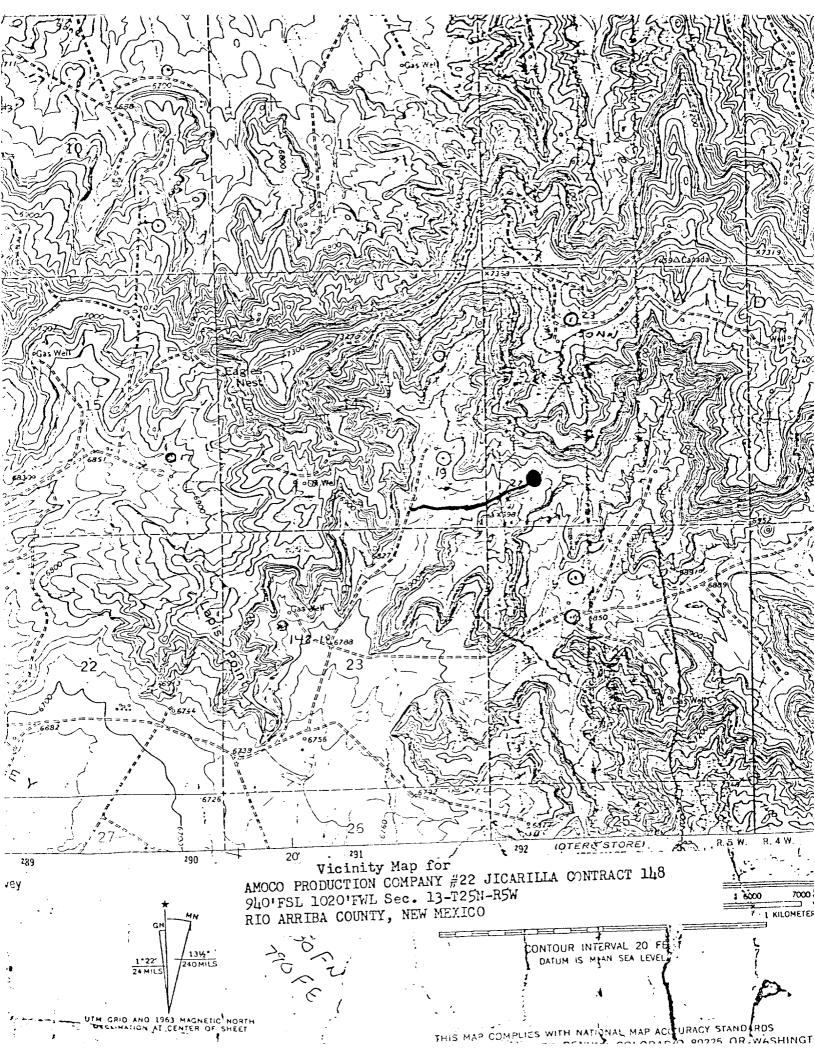
Representatives of the U. S. Geological Survey's Farmington Office and the Jicarilla Tribe's Dulce Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

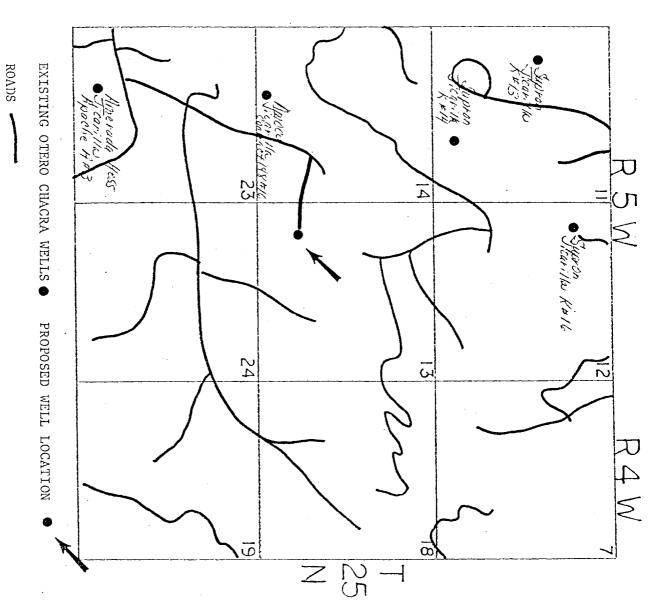
12. Operator's Representative: R. W. Schroeder
Phone: Office: 505-325-8841; Home: 505-325-6164
Address: 501 Airport Drive, Farmington, NM 87401

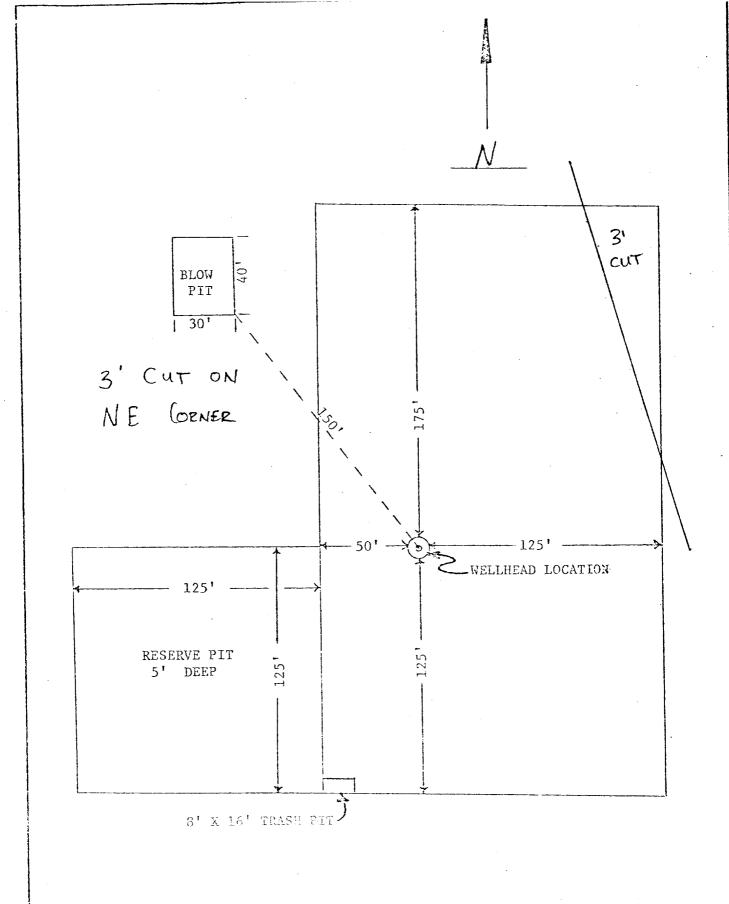
Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the 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 ______ June 25, 1980 _______ R. W. Schroeder, District Superintendent







APPROXIMATELY 1.2 ACRES

Amoco Production Company	SCALE: 1"=50"
DRILLING LOCATION SPECIFICATIONS	
	oag. No
JICAPILLA CONTRACT 140 MO. CC	14.7.