SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

30-039-. 2 Z4 00 5. LEASE DESIGNATION AND SERIAL NO.

UNITE	D S	STATE	<u> </u>	•
DEPARTMENT	OF	THE	INT	'ERIOR

GEOLOGICAL SURVEY

Jicarilla	Contract	146

DATE

APPLICATION	N FOR PERMIT T	O DRILL, I	DEEPE	N, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR THIED NAME	
In TYPE OF WORK	AND THE RESERVE AND THE PARTY OF THE PARTY O			PLUG BAC		Jicarilla Apacha 7. UNIT AGRESMENT NAME	
DRI - b. type of well-	LL 🖾	DEEPEN [J	PLUG BAC	-y [_]		
	st. 🗵 ornea			NGLE MULTIPI	ぶ 因	S. FAUM OR LEASE NAME	
2. NAME OF OPERATOR						Jicarilla Contract 146	
	OCTION COMPANY					9. WELL NO.	
COL Almoort	Drive, Farmingt	on New Me	vico	-87401		29 10. FINED AND POOL, OR WILDCAR	
t. LOCATION OF WELL (E.	eport location clearly and	in accordance wit	h any B	tate regoiremenis.	~ <	Otero Chacra/ Blanco Pictured Cliffs	
At surface	0.401 [[[]] 0]		. 64	and the second second	٠,٠	11. SSC., T., D., M., OR BUK.	*
$\bigvee_{\mathbf{At}} 870^{\circ}$ from and	840' FEL, Sect	ion 9, 125	l, 代が :	Maria Com		NE/4, NE/4, Section 9	
	Same				الرينينيت الاا	Γ25N, R5W	
	AND DESCRION FROM NEAR				11 12	Die Appile May May 100	
15-1/2 mile: 15, pistance record record	s North Northeas	st of Couns		, New Meallon		Rio Arriba New Mexico	
LOCATION TO NEADES. PROPERTY OR LEASE !	r ANE, FT.	8401		2557.20		160 a 160	
(Also to tearest dr). 18. bustance from trop	GRED LOCATION*		19. Pr	0P08140 1-82336	20. ROTA	RY OR CABLE TOOLS	
TO NEATERY WELL, D OR APPLED FUL ON TH	EHLING, COMPLETED,	19761		3953 '		Rotary	
21. ELEVATIONS (Show wh	ther DF, UT, GR, etc.)			The second secon		22. APPROX. DATE WORK WILL START*	
6743! GL		<u>.</u>				As soon as permitted	
23.	P	ROPOSUD CASI	NG ANI	CEMENTING PROGRA	W		
SIZE OF FOLE	SAME OF CASING	WEIGHT TERT	(16.7)	SECTION FOR TH		QUANTITY OF CEMENT	
12-1/-"	3-5/8" (New)	24# K-	-55	1 3001		x Class "B" w/2% CaCl2-ci	
7-7/8"	5-1/2" (Now)	15.5#_K-	-55	39531		1-190 sx Class "B" Near-	
				Till In the		2-520 sx Class "8" 50:50	
-Amoro proposes	to drill this (dual well 🕯	ou <u>.</u> To fu	nthen davelop		l, 2# med tuf plug/sx, an FLA. Tail in w/70 sx Clas	
the Otero Chac	ra/Blanco Pictur	ed Cliffs	rese	rves. The well		eat-circ.	,
	d to the surface				DV To:	ol at 3143".	
	will then be do ud system. Com				,		
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	ddilional infor						
	n to drill and a	a multi-po	int s	unface use			
plan are attac	hed.					CEPTI	
The gas from t	his well is ded	icaled to B	T Pa	so Natural Gas	Co.		
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						OIL CON OF	
The At the special policy and	s informace program: If	proposal is to dec	pen or)	dug back, give data on p	resent prod	tuctive cone OISipopera new productive	
zone. If proportion to preventer process, if as	drill or deepen directions	My, give pertinen	t data (on subsarfa o locations to	nd incoming	d and the vertical destine. Give blowest	
21.	· · · · · · · · · · · · · · · · · · ·						
K.F.	Dog routing	zo:	er v	District Engir	teer	nurs July 18, 1980	
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· · · · · · · · · · · · · · · · · · ·	eral or State office use)					•	
EXECUTE NO. Free	Warrely -			APPROVANTATE	· · · · · · · · · · · · · · · · · · ·		
for						·	

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APPROVIDERY
CONDENDORS OF APPROVAL WANY:

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

P. O. BOX 2088 ENCAGY AND MINEPALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Form C-107 kevised 10-1-78

		All distances mu	of he from the cute	r hounderles of the Secti	m.	
Operator			Lease			Well No.
AMOCO PROD	UCTION COMPA	NY	JICA	ARILLA CONTRACT	145	29 .
Undt Letter	Section	Townsh!p	Rang			
Λ .	9	25N		W Ri	o Arriba	
Actual Footage Loca		1			- 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
870		North	ne and 840		Prot	
	feet from the		775 1474	feet from the		line
Ground Lovel Elev.	Producing Fe		Pool	,		dicated Acreage;
6743	Chacr	a/Picriceo Cu	rrs Oter	o Chacra/so BLA	vio PC	160 Acres
1 Outling the	s serves as dedic	stad to the out.	ant wall by an			1 . 1)
1. Outilite the	acronge courc	area to the subj	ect well by col	ored pencil or hachu	re marks on the p	iat below.
2. If more the interest an		dedicated to the	ne well, outline	each and identify th	e ownership there	of (both as to working
		different ownersh unitization, force		to the well, have the	e interests of all	owners been consoli-
Yes	No If a	inswer is "yes,"	type of consoli	dation		
If anewer:	s "no" list the	nwhere and troo	t descriptions	which have actually 1	Late Liference mage	. (Use reverse side of
	necessary.)	t the court in	r acacmpuons v	inion have actually t	con consumated	. tuse reverse side of
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No allowab	le will be assigr	ied to the well u	itil all interests	s have been consolid	ated (by commun	itization, unitization,
forced-pool	ing, or otherwise) or until a non-s	tandard unit, el	iminating such intere	sts, has been app	proved by the Commis-
sion.						
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•	. !	1	i	ص	tained herein	Is true and complete to the
-	1		1	L 8501	best of my kno	wledge and belief.
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SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA CONTRACT 146 NO. 29 870' FNL & 840' FEL, SECTION 9, T5N, 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:

FORMATIO	NC	DEPTH	ELEVATION
Ojo Alamo		2403 '	+4353
Kirtland		2608 '	+4148
Fruitland		2858	+3898
Pictured C	liffs	2973 '	+3783
Chacra (if present)		3868 '	+2888
Mesaverde	Cliff House Point Lookout	† †	1 • • • • • • • • • • • • • • • • • • •
Gallup		1	1
Dakota		t	1
TD		3953 T	+2803

Estimated	KB	elevation:	6756	T

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

Special Coal-Logging Program over Fruitland interval.

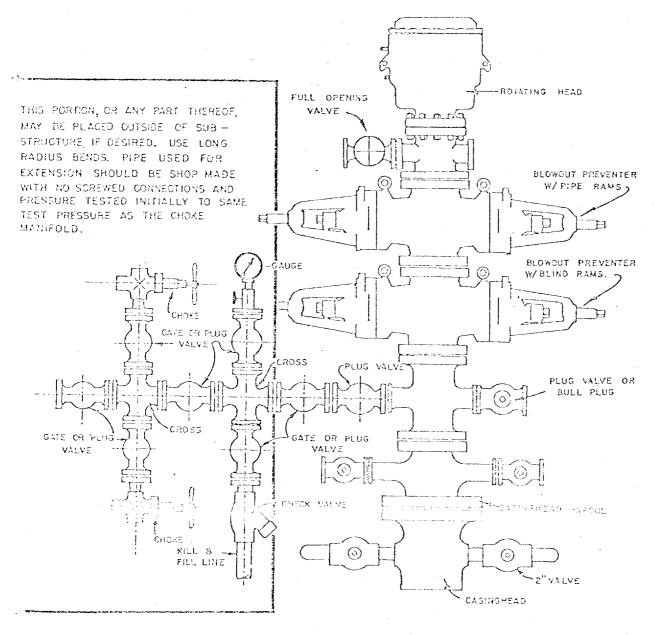
Completion design will be based on these logs. 4 rubber sleeve cores will be taken. No drill stem tests will be taken.

Operations will commence when permitted and last approximately β 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 Elewout 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 146 NO. 29 870' FNL & 840' FEL, SECTION 9, T5N, R5W RIO ARRIBA COUNTY, NEW MEXICO

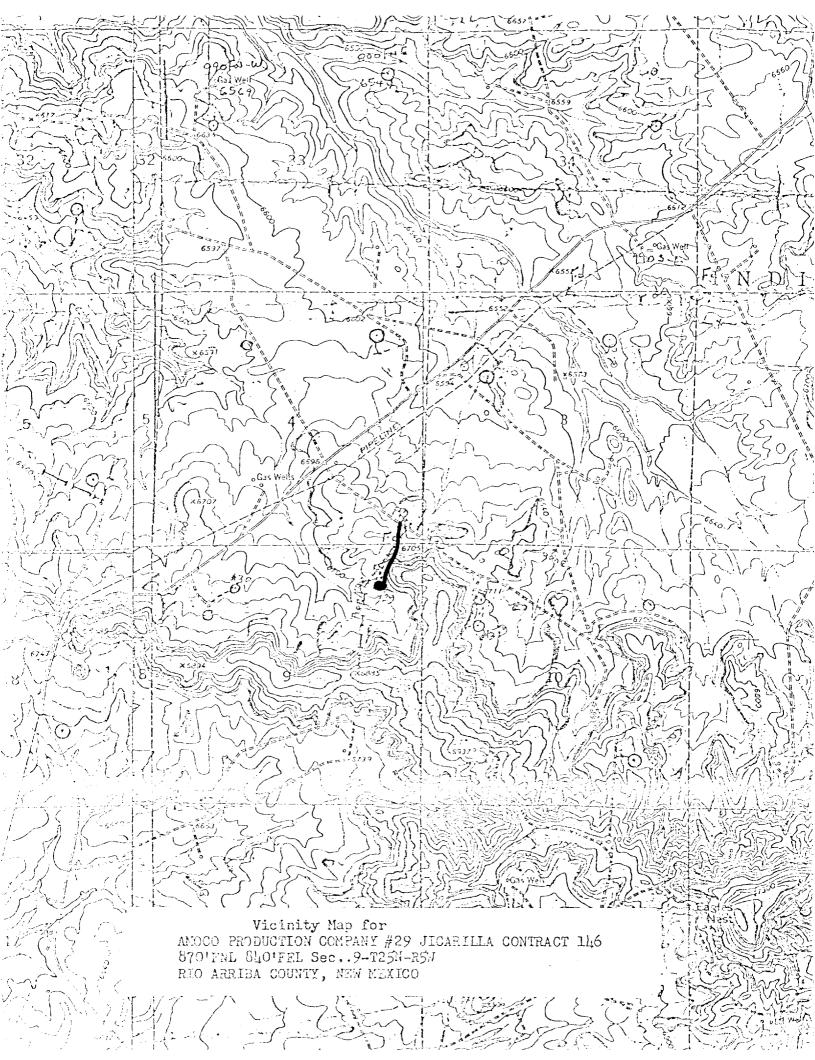
- The attached topographic map shows the proposed route to the location.
- An existing road three-eighths mile in length will be improved for an access road.
- Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
- There is a 300-barrel tank and facilities located at Jicarilla Contract 146 Well No. 22E, 2000 feet east.
- 5. Water will be hauled from Tapacito Water holes.
- No construction materials will be hauled in for this location. 6.
- 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.
- There are neither airstrips nor camps in the vicinity.
- The well site layout, reserve, burn and trash pits are shown on the attached 9. Drill Site Specification Sheet. A 6-foot cut will be made on northeast side.
- 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.
- The general topography is a sloping area with sandy loam-type soil; vegetation 11. consists of sagebrush, native grasses and juniper trees.

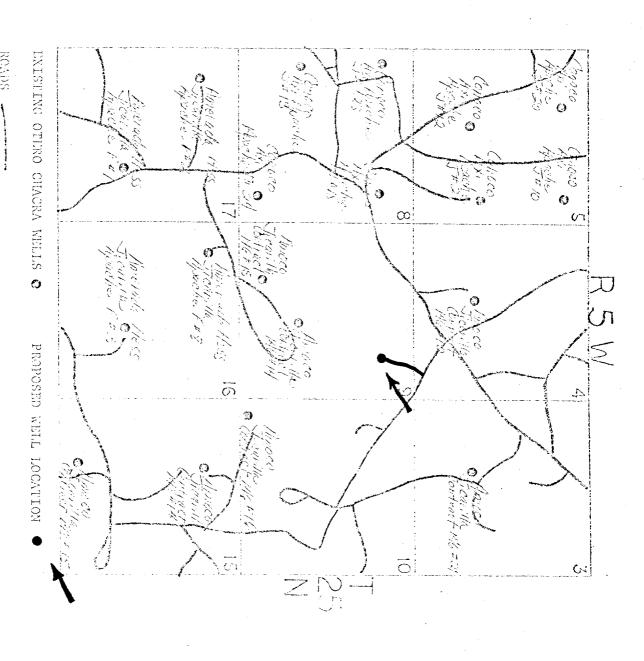
Representatives of the U. S. Geological Survey's Farmington Office and the Jicarilla Tribe's Dulce Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

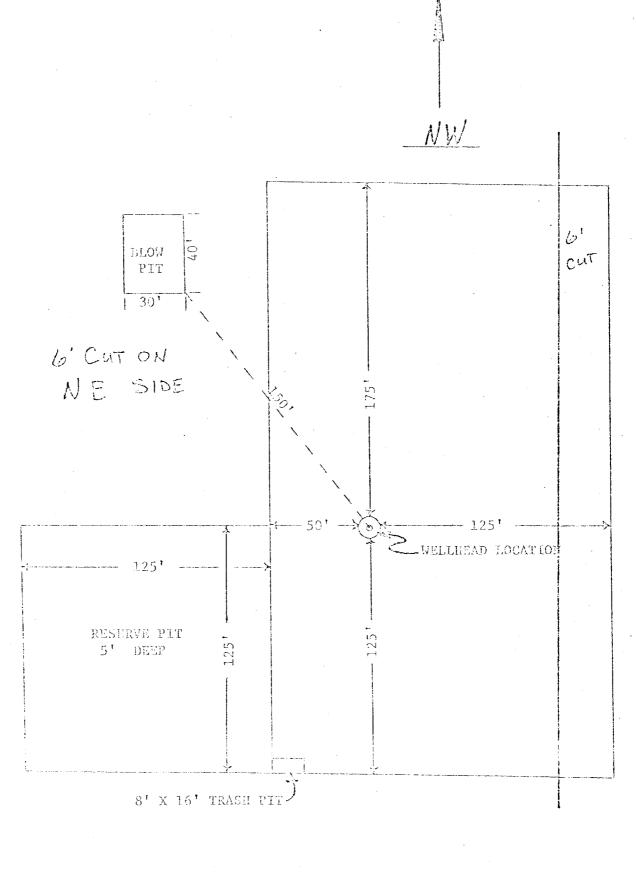
12. Operator's Representative: R. W. Schroeder

Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 8740!

Cortification: 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







APPROXIMATEUM 1.2 ACRES

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Amoco Production Company	SCALE: 1"=50"
DRILLING LOCATION SPECIFICATIONS	
SICARILLA CONTRACT 146 No. 29	DPS. MR.