SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES				
DEPARTMENT	OF	THE	INTERIOR	

		OF THE INT	FDIOD	reverse side)	30-039-21999
			LICION		5. LEASE DESIGNATION AND SERIAL NO.
		GICAL SURVEY			Jicarilla Contract 148 6. IF INDIAN, ALLOTTER OR TRIBE NAME
APPLICATION	N FOR PERMIT T	O DRILL, DEE	PEN, OR P	LUG BAC	.K
1a. TYPE OF WOLK			5 1.1	10 04 614 [Jicarilla Apache
	LL X	DEEPEN 🗌	PLU	JG BACK (
b. TYPE OF WELL	ıs 🗔		SINGLE X	MULTIPLE	S. FARM OR LEASE NAME
WELL W 2. NAME OF OPERATOR	ELL X OTHER		ZONE LA	ZONE	Jicarilla Contract 148
	CTION COMPANY				9. WELL NO.
3. ADDRESS OF OPERATOR	711011 0011111				17
501 Airport	Drive, Farming	ton, New Mexi	co 87401		10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (R. At surface	eport location clearly and	in accordance with an	y State requirement	nts.*)	<u>Basin</u> Dakota
	70' FEL, Section	n 15, T-25-N,	R-5-W		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
At proposed prod. zon		•			NE/4 SE/4 Section 15
	Same				T-25-N, R-5-W 12. COUNTY OR PARISH 13. STATE
	AND DIRECTION FROM NEAR				
20 miles no	orthwest of Cou	nselors, New 1	Mexico	LEASE 17	Rio Arriba N. M.
LOCATION TO NEAREST PROPERTY OR LEASE I	INP PT	_			TO THIS WELL /
(Also to nearest drlg	g. unit line, if any) 8/		2560.00	20	. ROTARY OR GABLE TOOLS
18. DISTANCE FROM PROP TO NEAREST WELL, DO OR APPLIED FOR, ON THE	RILLING, COMPLETED,	1	8000'		Rotary
21. ELEVATIONS (Show who		1			22. APPROX. DATE WORK WILL START*
	888' GL				March 18, 1979
23.		ROPOSED CASING A	AND CEMENTING	PROGRAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING D	ЕРТН	QUANTITY OF CEMENT
12-1/4"	8-5/8 "	24#	300'		200 sx
7-7/8"	4-1/2"	10.5#	8000'		2300 sx
	İ		ı	ı	
The above well i will be drilled be based on open	with a low soli	ds non-disper	sed mud sys	stem. Com	kota Field. The well mpletion design will n completion.
1	<u> </u>				
		_			
The gas from thi	s well is dedic	ated to North	west Pipeli	ine Corpo	ration.
Additional infor Point Surface Us	mation required	by NTL-6 for			201423

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depens. Give blowout preventer program, if any.

24. SIGNED _

(This space for Federal or State office use)

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

PERMIT NO. _

TITLE

JAN 1 8 1979

of Frank

*See Instructions On Reverse Side

U. S. OFOLOGICAL SURV

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Well No. Operator JICARILLA CONTRACT 148 17 AMOCO PRODUCTION COMPANY Township Unit Letter 15 Rio Arriba 25N Actual Footage Location of Well: East feet from the South 1520 feet from the line and Dedicated Acreage: Producing Formation Ground Level Elev. 320 Acres Basin Dakota 6888 Dakota 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 best of my knowledge and belief. √nome J. L. KRUPKA Position DISTRICT ENGINEER U. S. DEOLOGICAL SURY AMOCO PRODUCTION COMPANY **DECEMBER 12, 1978** Sec 15 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my 8701 knowledge and belief.

1500

2000

1980 2310

1320 1650

1000

500

SUPPLEMENTAL INFORMATION TO FORM 9-331C REQUIRED BY NTL-6 JICARILLA CONTRACT 148 NO. 17 1520' FSL, 870' FEL, Section 15, T-25-N, R-5-W Rio Arriba County, New Mexico

The geologic name of the surface formation is the Tertiary San Jose.

The estimated tops of important geological formations bearing hydrocarbons are:

FORMATION	DEPTH	ELEVATION
Pictured Cliffs Mesaverde Gallup Dakota	3101' 4751' 6351' 7301'	+ 3800' + 2150' + 550' - 400'
TD 8000'		

Estimated KB elevation is 6901'

The casing program to be used will include all new casing:

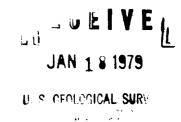
EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
300' 8000'	8-5/8" 4-1/2"	24# 10.5#	12-1/4" 7-7/8"	200 Class "B" 2% CaCl ₂ . 2200 Class "B" 6% Gel, 2# Med. Tuf Plug/sx. 100 Class "B" Neat.
				DV tool below MV.

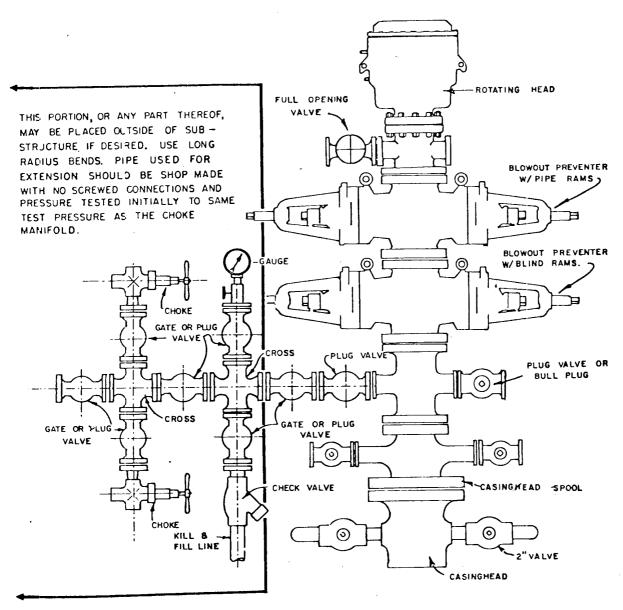
Amoco's standard blowout prevention will be employed; see attached drawing of our blowout preventer design.

Amoco will run an Induction Electric Survey from TD to 4500° and a Density - Gamma Ray Log from TD to 4500°. No cores or drill stem tests will be taken.

In the past, drilling in this area has shown that no abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.

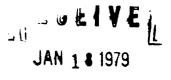
We will start operations as soon as well is permitted, and a three-week operation is anticipated.





BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4
OCTOBER 16,1969



U. S. GEOLOGICAL SURY

MULTI-POINT SURFACE USE PLAN

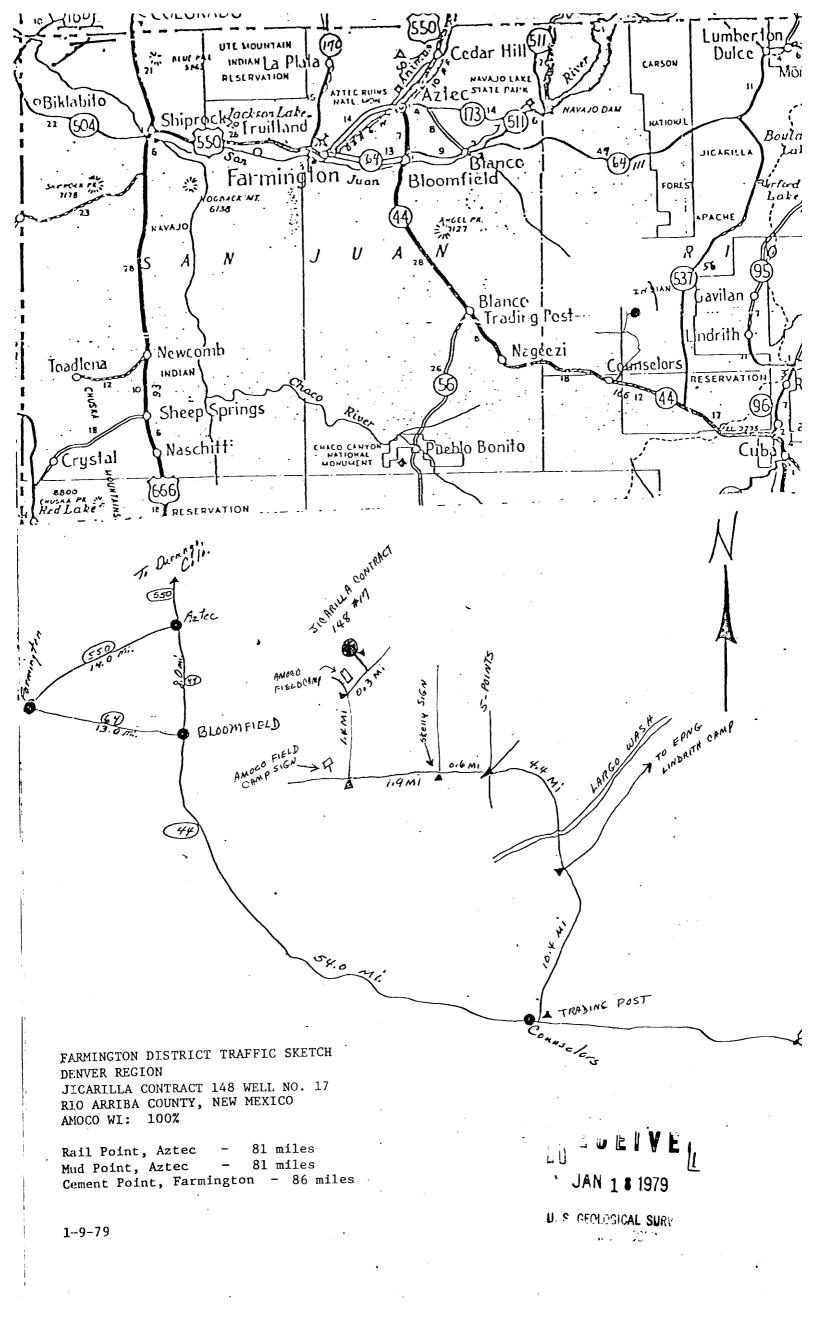
JICARILLA CONTRACT 148 NO. 17
1520' FSL & 870' FEL, SECTION 15, T25N, R5W
RIO ARRIBA COUNTY, NEW MEXICO

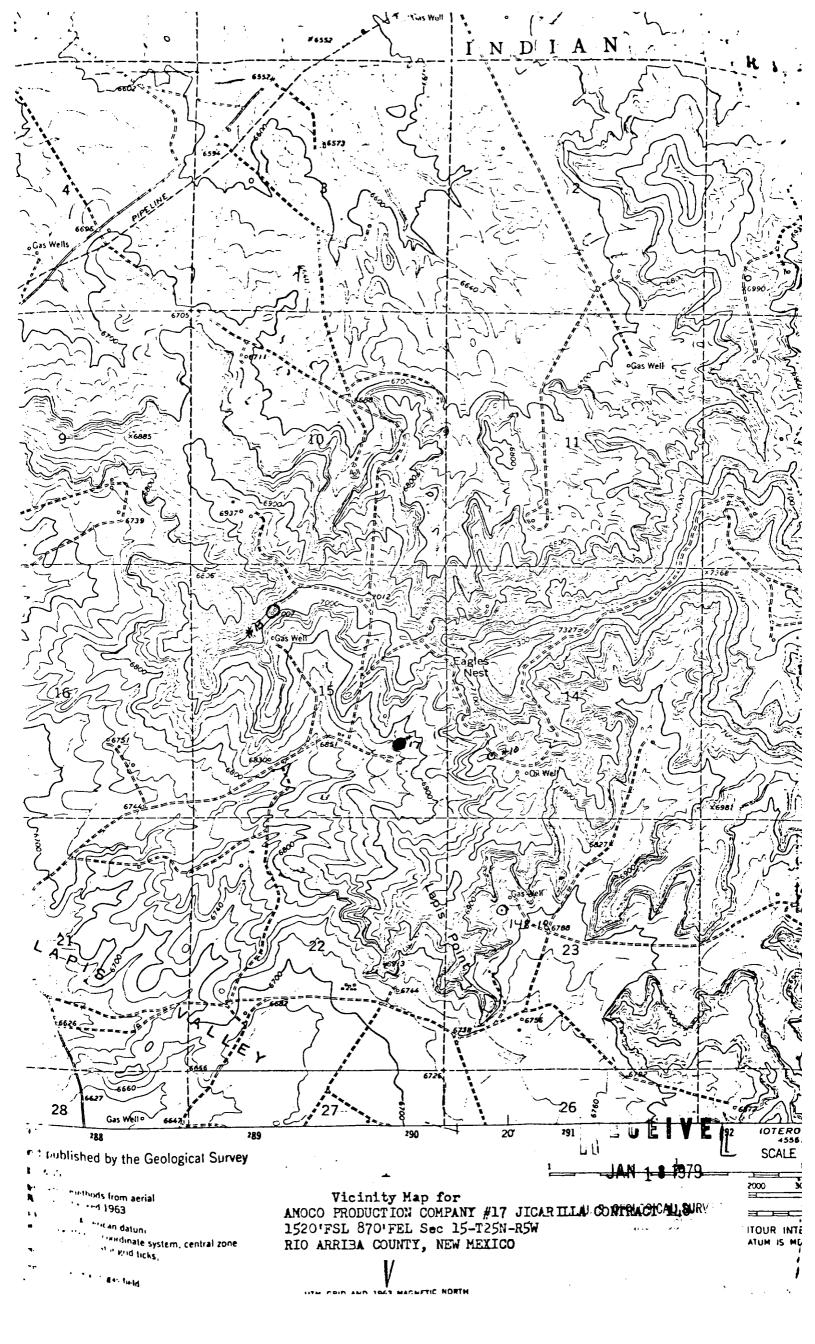
- 1. The attached road map and sketch show the proposed route to the location and distances from towns.
- 2. No new access road will be required. Existing road to Jicarilla Contract 148 Well No. 7 will be used.
- 3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the vicinity map.
- 4. There are 380-barrel storage tanks located at Jicarilla 148 No. 10 and Jicarilla 148 No. 13.
- 5. Water will be hauled by truck over existing roads from pits dug alongside Tapacito Wash.
- 6. No construction materials will be hauled in for this location.
- 7. A 100' X 100' pit will be built on location to hold all drilling waste. Upon completion of well, all waste and liquid will be pumped out and fluids will be bladed into roads.
- 8. There are no airstrips in the vicinity but Amoco Production Company's Field Camp is located three-tenths of a mile west of proposed location.
- 9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet. Well site is located in a flat area; therefore, no cuts will be necessary.
- 10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Drainage ditches will be built to handle run-off. Reseeding of the site will be carried out as detailed in the attached Seeding Plan.
- 11. The general topography is a gently rolling valley slope with sandy clay and loam soil. Vegetation consists of sagebrush and native grasses with a few pinon trees.

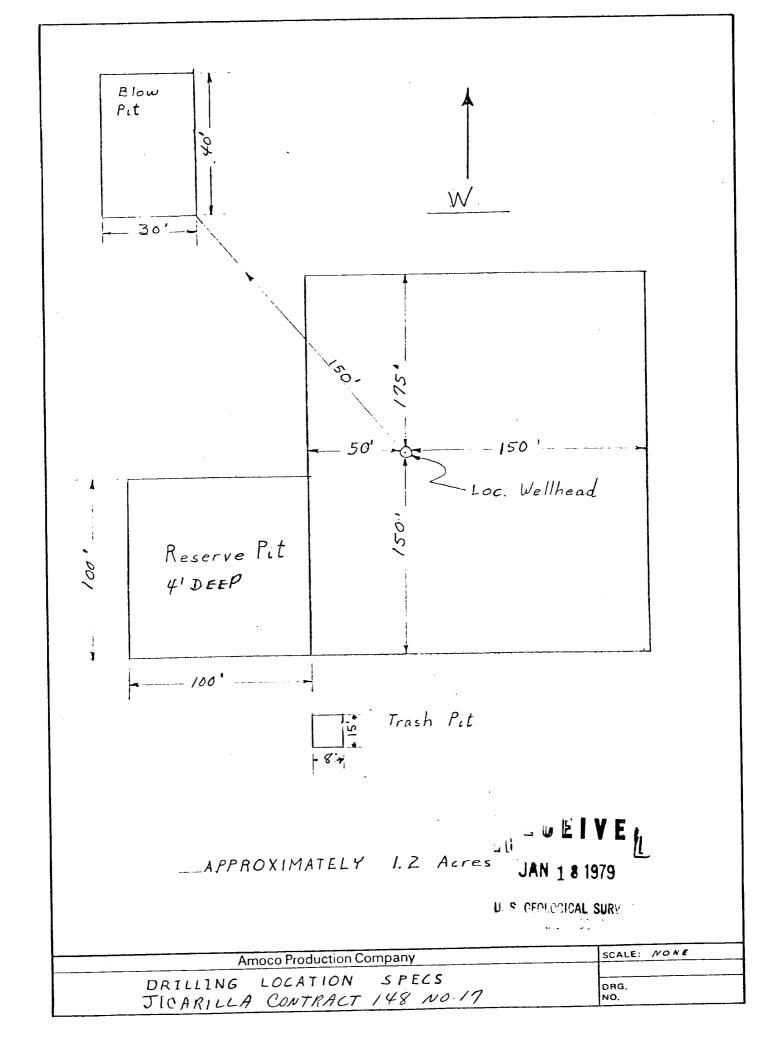
Representatives of the U. S. Geological Survey's Durango Office and Jicarilla Tribe's Dulce Office (John Keller and Gary Vicenti, respectively) inspected the site with Amoco personnel. Cultural resources inspection was conducted by Dabney Ford, Archaeologist from San Juan College

12. A Certification Statement by Amoco's representative is included.









SEEDING PLAN

1. TIME:

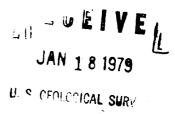
All seeding will take place between July 1 and September 15.

2. EQUIPMENT:

Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. The seed will be planted not less than one-half inch deep or more than one inch deep. The seeder will be followed with a drag, packer, or roller to insure uniform coverage of the seed, and adequate compaction. Drilling will be done on the contour where possible, not up and down the slope. Where slopes are too steep for contour drilling, a "cyclone" hand seeder or similar broadcast seeder will be used. Seed will then be covered to the depth described above by whatever means is practical.

3. SPECIES TO BE PLANTED IN POUNDS PURE-LIVE-SEED PER ACRE:

CRESTED WHEATGRASS	0.71 lbs.
RUSSIAN WILD RYE	0.86 lbs.
ORCHARD GRASS	0.298 lbs.
PERENNIAL RYE GRASS	0.57 lbs.
WESTERN WHEAT GRASS	1.43 lbs.
SMOOTH BROME	1.14 lbs.
INTERMEDIATE WHEAT	0.91 lbs.
PUBESCENT WHEAT GRASS	1.09 lbs.



JICARILLA CONTRACT 148 NO. 17 1520' FSL & 870' FEL, SECTION 15, T25N, R5W RIO ARRIBA COUNTY, NEW MEXICO

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 be 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.

January 10, 1979 Date

District Supt.

Amoco Production Company's Representative:

L. O. Speer, Jr.

Phone: Office: 505-325-8841; Home: 505-325-3247

Address: 501 Airport Drive Farmington, NM 87401

JAN 1 8 1979

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