SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

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5.	LEASE	DESIGN	ATION	AND NEI	LIAL NO.

	DEPARTMENT	OF THE IT	MIEK	IUK		5. LEASE DESIGNATION AND SERIAL NO.
	GEOLOG	SICAL SURVE	Υ			SF-078766
APPLICATION	I FOR PERMIT T	O DRILL, D	EEPE	N, OR PLUG B	ACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
IA. TYPE OF WORK	LL X	DEEPEN [PLUG BAG		7. UNIT AGREEMENT NAME Rosa Unit
b. TYPE OF WELL OIL GA WELL WELL 2. NAME OF OPERATOR	S OTHER		811 ZO	NE X MULTIP	LK	8, farm or lease name
AMOCO PRODUCT	TION COMPANY					9. WELL NO. 69
4. LOCATION OF WELL (Re	Drive, Farmingt	on, New Mex in accordance wit	Cico h any S	87401 tate requirements.*)		10. FIELD AND POOL, OR WILDCAT Basin Dakota
790' FNL & 1	130' FWL, Secti	on 16, T-31	-N,	R6W		11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA NW/4, NW/4 Section 16
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE	*		T-3]-N, R-6-W 12. COUNTY OR PARISH 13. STATE
44.4 miles No	rtheast of Blan	co, New Med	cico			San Juan NM
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drlg	SED*	790 '	16. No	. of acres in lease 2552.71		OF ACRES ASSIGNED HIS WELL 320
18. DISTANCE FROM PROPORTION NEAREST WELL, DION APPLIED FOR, ON THI	OSED LOCATION* RILLING, COMPLETED,	2,500'		OPOSED DEPTH 8250	l _	RY OR CABLE TOOLS
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*
6371' GL						
<u></u>	P	ROPOSED CASIN	IG AND	CEMENTING PROGR	AM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	0 0T	SETTING DEPTH	_	QUANTITY OF CEMENT
13-3/4 "	10-3/4"	45#		300 '		SX_CMT
9-7/8 ''	7-5/8"	35#		3700'		SX CMT
6-3/4"	4-1/2	13.5#		8250 '	1200	O SX CMT

The above well is being drilled to develop the Dakota formation. Completion interval and stimulation program to be determined from study of open hole logs. The acreage is not dedicated to a gas sales contract. Additional information required by NTL-6 for the application to drill and a Multi-Point Surface Use Plan are attached.

8 1979 S. GEOLOGICAL SURVEY DURANGO, COLO. IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plumback, we 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 reasured and true vertical depths. Give blowout preventer program, if any. TITLE District Engineer DATE May 7, 1979 SIGNED (This space for Federal or State office use) APPROVAL DATE PERMIT NO. TITLE APPROVED BY CONDITIONS OF APPROVAL, IF ANY; och South

OIL CONSERVATION DIVISION

. STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-102 Revised 10-1-78

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

Operator			Lease			- 	Well No.
AMOCO PROD	UCTION COMPAN	<u>Y</u>	ROSA U	NIT	69		
Unit Letter	Section	Township	Range		County		
D	16	31N	6W		San J	van	
Actual Footage Loc	_	anth	1120			l.To.c.t	
790 Ground Level Elev.	feet from the N	orth line and	1130	feet	from the	West	line Dedicated Acreage;
6371	Dakota		l .	Dakota			320 Acres
1. Outline th	e acreage dedica	ted to the subject we	ell by colo	red pencil or	hachure	marks on the	plat below.
ì	an one lease is	dedicated to the well	l, outline e	ach and ider	ntify the o	wnership the	ereof (both as to working
ì		ifferent ownership is nitization, force-pooli		to the well, h	have the i	nterests of	all owners been consoli-
Yes	No If an	nswer is "yes;" type o	f consolida	ation		***	
	is "no," list the f necessary.)	owners and tract desc	riptions wl	nich have ac	tually bee	en consolidat	ted. (Use reverse side of
No allowai	ole will be assigne						nunitization, unitization, approved by the Commis-
							CERTIFICATION
1130'	1901		1			tained here	ertify that the information con- in is true and complete to the knowledge and belief.
			į			3.8.	Fachell
			 -			Norme B., E. FA	CKRELL
	!		1			Position DISTRICT	ENGINEER
	 		 			AMOCO PR	ODUCTION COMPANY
	l S	ec.	1.		Å	APRIL 20	, 1979
						•.	
	t I	16	į			i ·	certify that the well location his plat was plotted from field
	, †		1			1	ctual surveys made by me or
	1					under my s	upervision, and that the same
	l ·		. !	* **		1	d correct to the best of my
	1		I			knowledge	and belief.
	+ -						
	 					Date Surveye	GIREN LAND
	1 					April Registered P and/or Land	rolessional Engineer
			1			Frag Bo	13 Carlot
DESCRIPTION OF THE PROPERTY OF		0 2310 2640 2000	1500			Certificate N	S. P. KERR. JR.

SUPPLEMENTAL INFORMATION TO FORM 9-33]C REQUIRED BY NTL-6 ROSA UNIT NO. 69 790' FNL & 1130' FWL, SECTION 16, T31N R6W RIO ARRIBA COUNTY, NEW MEXICO

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

The estimated tops of important geological formation bearing hydrocarbons are:

FROMATION	DEPTH	ELEVATION
Pictured Cliffs	3300 '	+3084'
Mesaverde	5500 '	+ 884'
Dakota	8050 '	-1666'

TD 8250'

Estimated KB elevation is 6384'

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

EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
300 '	10-3/4"	45 <i>#</i>	13-3/4"	300 Class "B" 2% CaCl ₂
3700 '	7-5/8''	35#	9-7/8"	750 SX Class "B" 50:50 Poz 6% Gel
				100 SX Class "B" Neat
8250 '	4-1/2"	13.5#	6-3/4"	1100 SX Class "B" 50:50 Poz 6% Gel
				100 SX Class "B" Neat

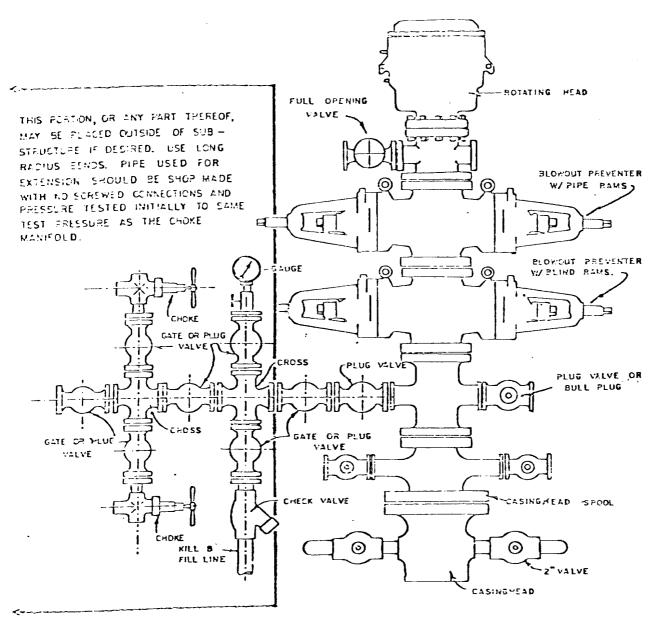
Amoco's standard blowout prevention will be employed; see attached drawing of our blowout preventer design.

Drilling fluid to TD will be a low solids non-dispersed mud system.

Amoco will run an Induction Electric Survey from TD to 300' and a Density-Gamma Ray Log from TD to 300'. 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 operation as soon as well is permitted, and a three week operation is anticipated.



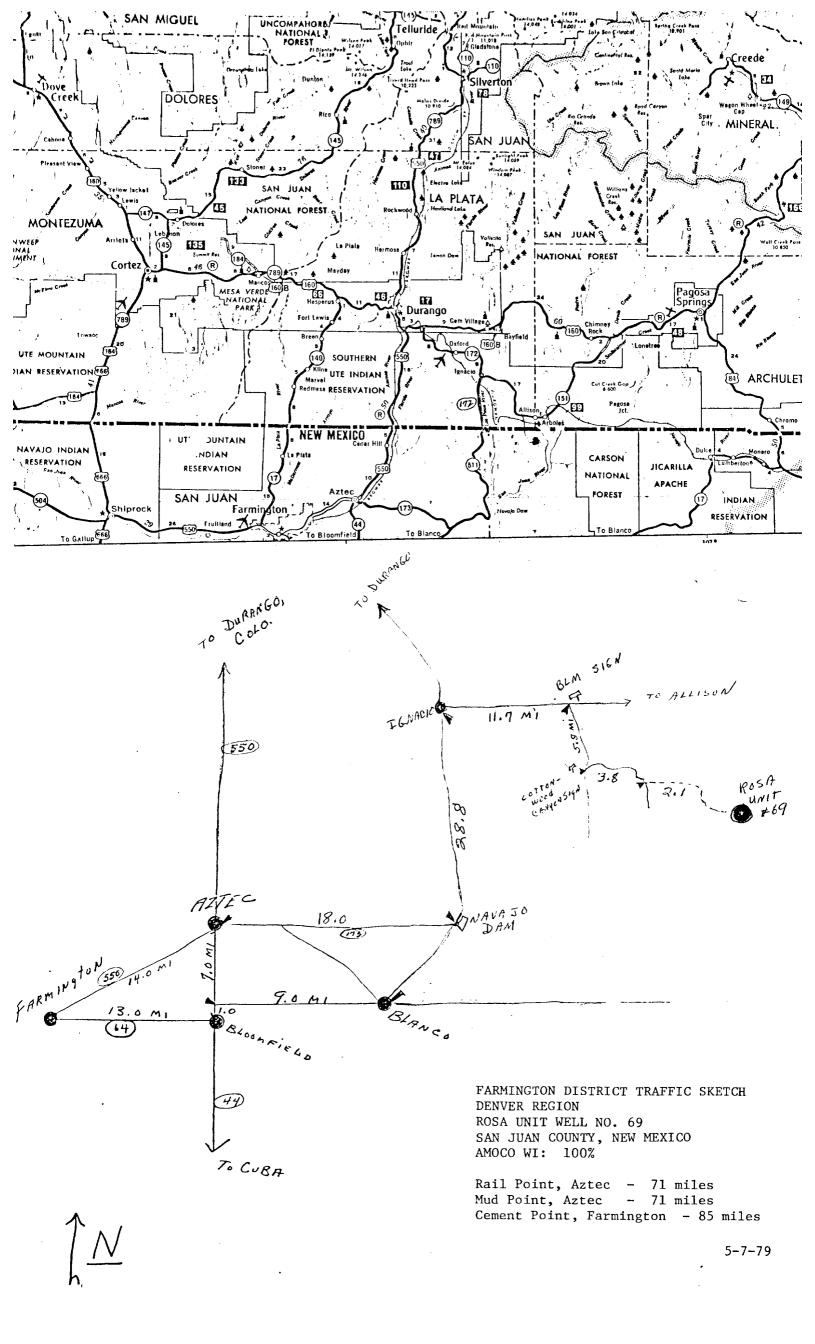
BLOWOUT PREVENTER HOCKUP

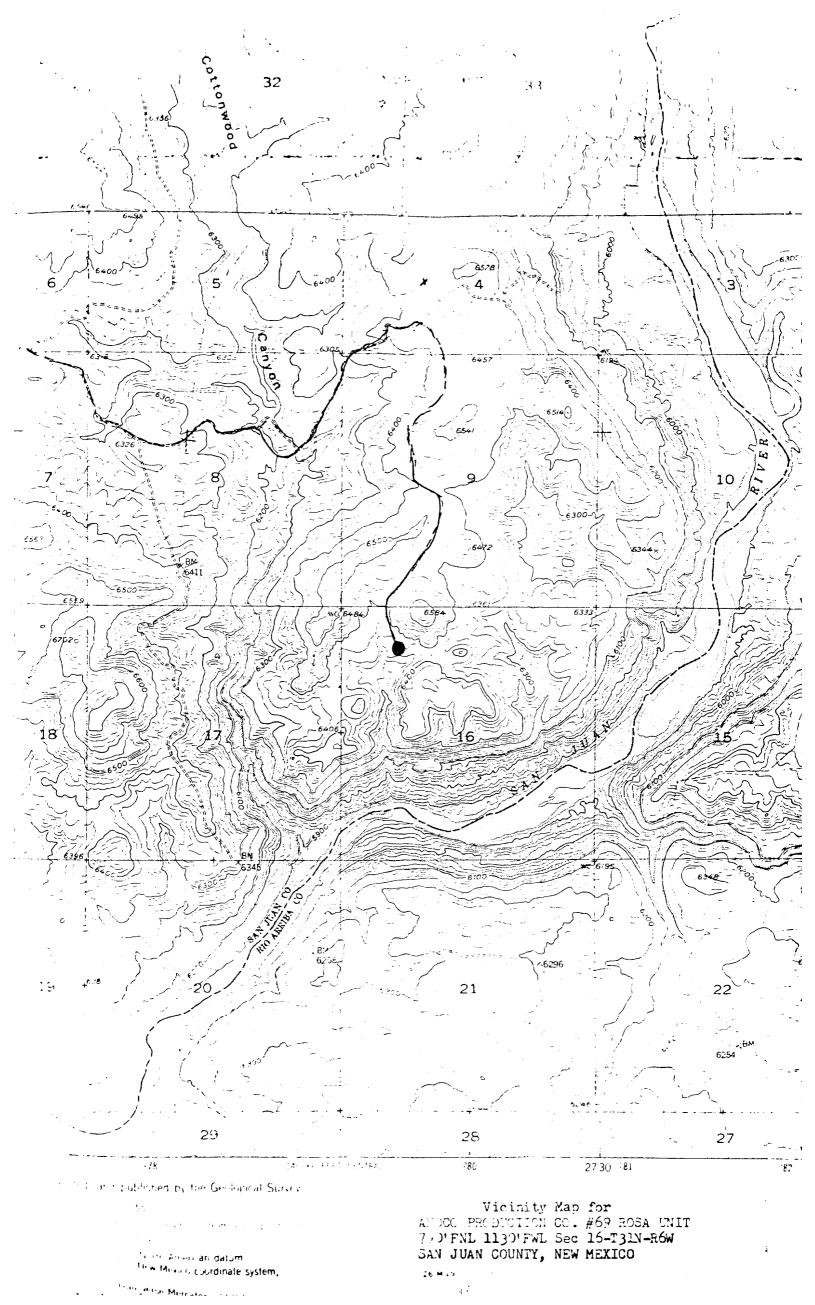
EXHIBIT D-4 OCTOBER 16,1

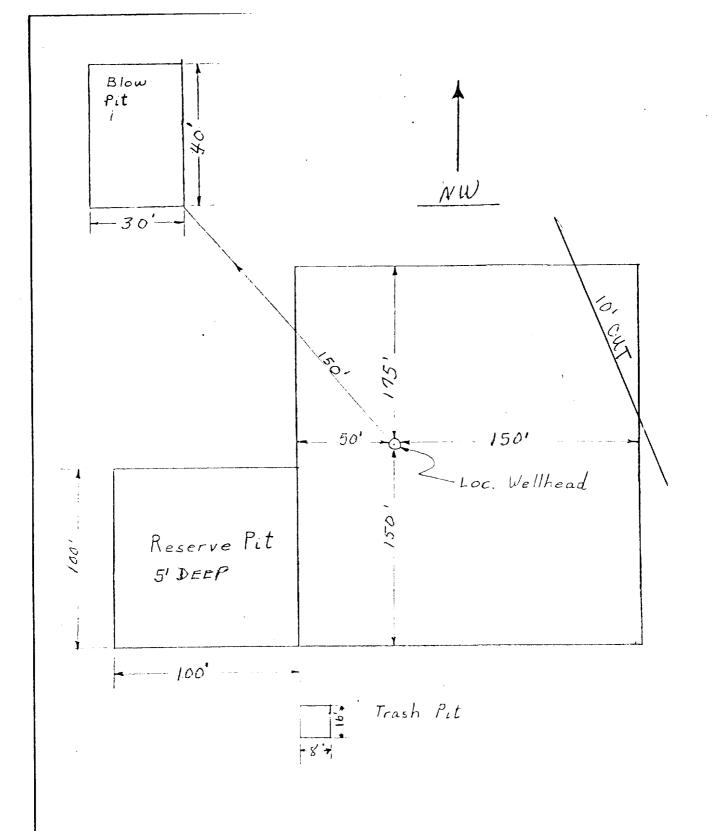
MULTI-POINT SURFACE USE PLAN

ROSA UNIT NO. 69 790' FNL & 1130' FWL, SECTION 16, T31N, R6W SAN JUAN COUNTY, NEW MEXICO

- 1. The attached road map and sketch show the proposed route to the location and distances from towns.
- 2. It will be necessary to blade and improve 3.8 miles of existing road and build 2.1 miles of new road 20 feet wide, subject to BLM approval.
- 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 no storage tanks or facilities located within a one-mile radius of the proposed location.
- 5. Water will be hauled out of Amoco water hole 11 miles northeast of location.
- 6. No construction materials will be hauled in for this location. Will use existing material at location.
- 7. A 100' X 100' pit will be constructed 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 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 10-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. Drainage ditches will be built to handle run-off. Reseeding of the site will be carried out as detailed in attached Seeding Plan.
- 11. The general topography and soil characteristics are a sloping terrain, sandy and rocky soil, and dense cedar trees.
 - Representatives of the U. S. Geological Survey's Durango Office and Bureau of Land Management's Farmington Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by Jean Hooten, Archeologist, from San Juan College.
- 12. A Certification Statement by Amoco's representative is included.







APPROXIMATELY 1.2 Acres

SCALE: NONE	Amoco Production Company
	DRILLING LOCATION SPECS
DRG.	
NO.	TROSA UNIT NO. 69

BLM SEEDING REQUIREMENTS IN THE FARMINGTON RESOURCE AREA

- 1. SEED MIXTURE 1
- 2. TIME:

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

3. 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.

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

CRESTED WHEATGRASS (Agropyron desertorum) 2½ 1bs.

SMOOTH BROME (Bromus inermis)

2½ 1bs.

FOURWING SALTBUSH (dewinged) (Atriplex conescens) 1/2 1b.

NOMAD ALFALFA (Medicago sitiva)

1 1b.

ROSA UNIT NO. 69 790' FNL & 1130' FWL, SECTION 16, T31N, R6W SAN JUAN 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

Amoco Production Company's Representative:

R. W. Schroeder

is approved.

505-325-8841; Home: 505-325-6164 Phone: Office:

Address: 501 Airport Drive

Farmington, NM 87401