15"

24

9-7/8"

6-3/4"

### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

30-039-2139**5** 5. LEASE DESIGNATION AND SERIAL NO

UNITED STATES				
DEPARTMENT	OF	THE	INTERIOR	

47 070773 S. F. 078777 GEOLOGICAL SURVEY 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME PLUG BACK DEEPEN DRILL 3 Rosa Unit b. TYPE OF WELL SINGLE ZONE MULTIPLE 8. FARM OR LEASE NAME GAS WELL OIL WELL ZONE OTHER 2. NAME OF OPERATOR 9. WELL NO. AMOCO PRODUCTION COMPANY 59 3. ADDRESS OF OPERATOR 10. FIELD AND POOL, OR WILDCAT 501 Airport Drive, Farmington, New Mexico 87401 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) Basin Dakota 11. SEC., T., R., M., OB BLK.
AND SURVEY OR AREA
SW/4 NE/4 Section 30, 1630' FML & 1850' FEL, Section 30, T-31-M, R-4-W At proposed prod. zone T-31-H, R-4-W 12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* New Mexico Rio Arriba 54 miles northeast of Blance, New Mexico 17. NO. OF ACRES ASSIGNED 16. NO. OF ACRES IN LEASE 15. DISTANCE FROM PROPOSED\* 1630' PML TO THIS WELL LOCATION TO NEAREST PROPERTY OR LEASE LINE, 320 1630' 1920 (Also to nearest drlg. unit line, if any) 20. ROTARY OR CABLE TOOLS 19. PROPOSED DEPTH 18. DISTANCE FROM PROPOSED LOCATION\*
TO NEAREST WELL, DRILLING, COMPLE
OR APPLIED FOR, ON THIS LEASE, FT. COMPLETED, 8250 Rotary Neue 22. APPROX. DATE WORK WILL START\* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) Within 90 days 6533' est. GL PROPOSED CASING AND CEMENTING PROGRAM  $\overline{23}$ QUANTITY OF CEMENT WEIGHT PER FOOT SETTING DEPTH SIZE OF CASING SIZE OF HOLE

Hell to be drilled to develop Dakota formation. Completion interval and stimulation program to be determined from study of open hole logs.

300

38001

8250'

Copies of Location Plat, Development Plan, Topo Map, location and transportation sketch, and Amoco's blowout prevention hookup for this well are attached. Forest Permit is being prepared.

The gas purchaser will be Morthwest Pipeline Corporation.

40.5/

26.4#

11.6#

10-3/4"

7-5/8"

4-1/2"

OIL COM, COM, DIST. 3

300 ex - circ.

600 ax - circ.

600 ax - eirc.

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

venter program, n ang.		
SIGNED Herrican	Area Engineer	DATE April 13, 1977
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
APPROVED BY	TITLE	A D DATE
CONDITIONS OF APPROVAL, IF ANY:	$\mathcal{M}$	ti ti tana
We at	./·	

# Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, and the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone. . Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-781-025/VIII-239

All distances must be from the outer boundaries of the Section. Operator Legse Well No. Amoco Production Company Rosa Unit 59 Unit Letter Section Township Range County 31N ЬW Rio Arriba Actual Footage Location of Well: 1630 1850 feet from the North line and feet from the East line Ground Level Elev. Producing Formation Dedicated Acreage 6533 est Basin Dakota 320 Dakota Acres 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 interest of all owners been consolidated by communitization, unitization, force-pooling. etc? APR 22 1977 Yes No If answer is "yes," type of consolidation OIL CON. COM If answer is "no," list the owners and tract descriptions which have actually been consolidated (Sie rever 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. D. Montgomery 1850 Area Engineer AMOCO PRODUCTION COMPANY 4-12-77 Sec 30 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 knowledge and belief. Date Surveyed March 30. Registered Professional 0.2.9

1320 1650

1980 2310

2000

1500

1000

500

## ROSA UNIT NO. 59 1630' FNL & 1850' FEL, SECTION 30, T31N, R4W 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 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 subcontractors in conformity with this plan and the terms and conditions under which it is approved.

April 13, 1977

Date

Area Supt.

Name and Title

### DEVELOPMENT PLAN ROSA UNIT NO. 59 1630' FNL & 1850' FEL, SECTION 30, T31N, R4W RIO ARRIBA COUNTY, NEW MEXICO

The proposed location is in the Carson National Forest, a pinon-juniper forest. The ground cover on the location is sagebrush with a few cedar and pinon trees. The geological name of the surface formation is the Tertiary San Jose. Access will require the improving of 1000' of permanent existing road and 1000' of new road will be built across Cabresto Wash. The location is fairly level; material from high points will be used to level the location for proper drilling and no construction materials will be used for building the location.

Preliminary approval has been obtained from the U.S. Forest Service and formal approval is presently being sought. Archaeological clearance has been applied for, but not yet granted. The U.S.G.S. has granted preliminary approval.

We anticipate hauling water from a proposed water hole in a wash approximately 1-1/2 miles west of the location (map attached). In the event of rejection of this proposal by the U. S. Forest Service, we will make arrangements to haul water by truck from the Gomez water hole at La Jara Wash over about 12 miles of permanent existing roads. Water will be used to drill the first 300', gel mud from 300' to 3800' and gas from 3800' to TD (8250'). A 150' x 150' pit will be built on location to hold all drilling waste and other trash, trees, and brush. Upon completion, all waste liquids will be hauled by truck and bladed into existing roads and the reserve pit will be covered. All the pits will be covered; the location pits and drilling site will be cleaned and reseeded to U. S. Forest Service specifications (seeding plan attached.)

There are no airstrips or camps in the vicinity.

The estimated tops of important geological formations bearing hydrocarbons are:

Formation	Depth	Elevation	
Fruitland-Pictured Cliffs	3000-3300 '	+3500-3200'	
Mesaverde	5500 '	+1000'	
Dakota	8050 '	-1500'	

Estimated KB elevation: 6546'

Est. Depth	Csg. Size	Weight	<u>Hole Size</u>	Sacks Cement - Type Cement
300 '	10-3/4"	40.5#	15"	300 - Class "B", 2% CaCl2.
3800 '	7-5/8"	26.4#	9-7/8"	600 - Class "B", 50:50 Poz, 6% Gel.
8250 '	4-1/2"	11.6#	6-3/4"	600 - Class "B", 50:50 Poz, 6% Gel.

Amoco's standard blowout preventer will be employed, see attached drawing for blowout preventer design.

Amoco plans to run the following logs: From 0 to 300' - Induction, Compensated Density. From 3800' to TD - Induction Gamma Ray, Formation Density. A 100' core will be taken from the Dakota formation. No drill stem tests will be taken.

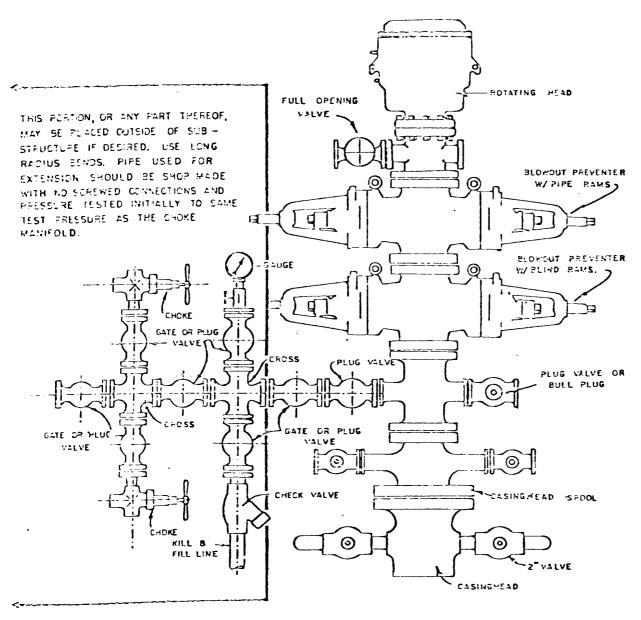
In the past, drilling in this area has encountered no abnormal temperatures or hydrocarbon gas.

We anticipate the starting date to be in June and expect a two week operation.

### SEEDING PLAN FOREST LANDS

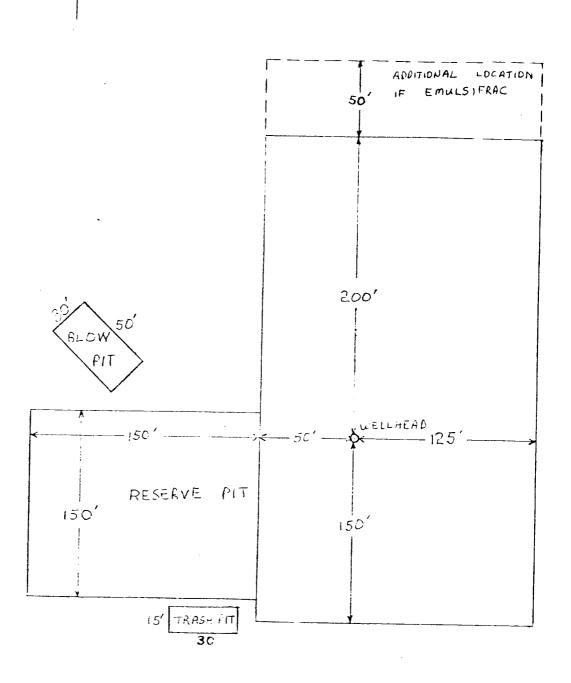
4 lbs./acre 6 lbs./acre 1 lb./acre 1 lb./acre

Crested Wheatgrass Pubescent Wheatgrass Ranger Alfalfa Weeping Lovegrass



BLOWOUT PREVENTER HOCKUP

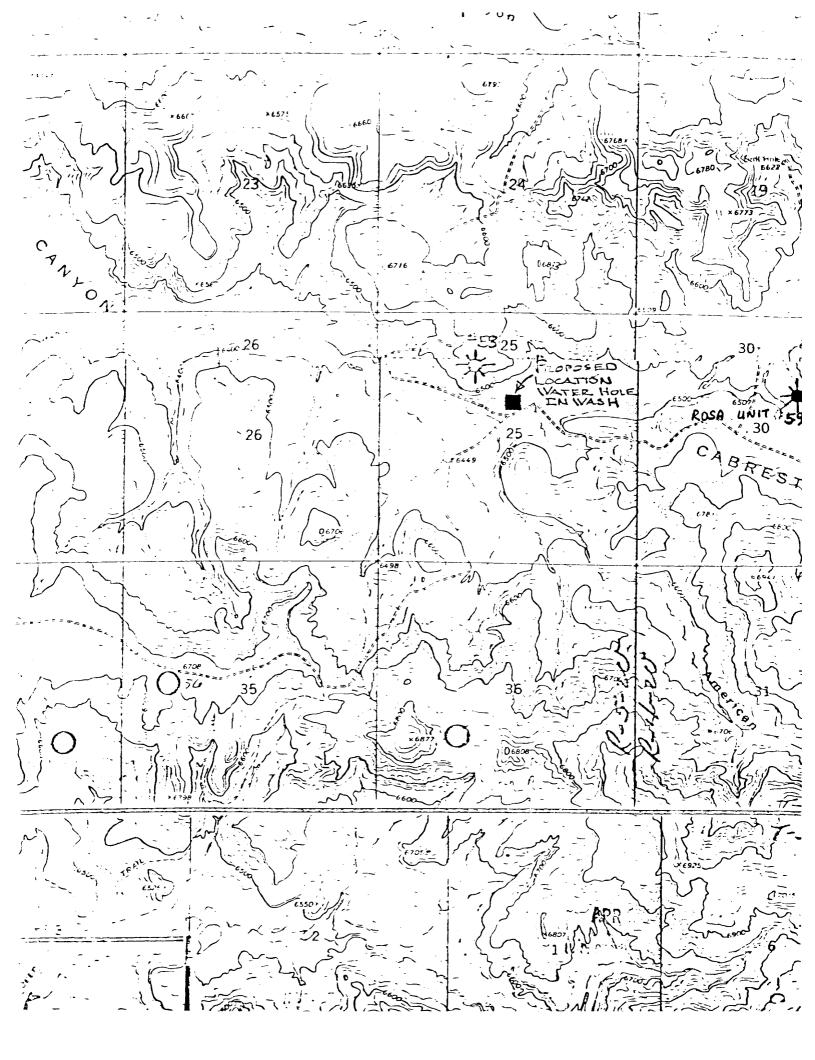
APR 1 OCTOBER 16, 1989

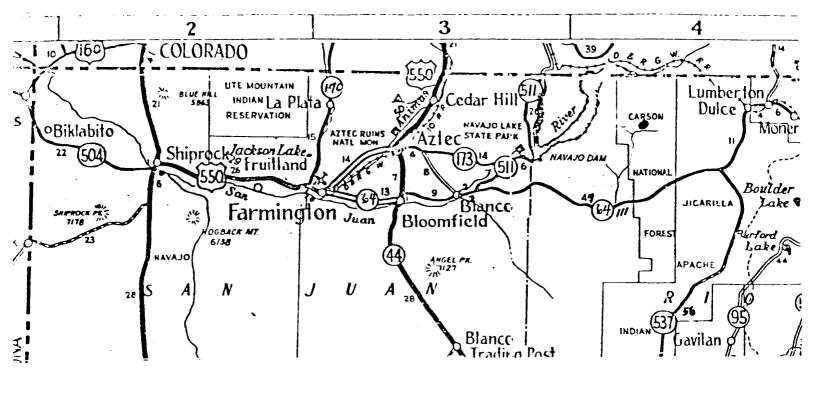


APR 1

p. 6. 6. ...

Amoco Pro	duction Compa	ny		SCALE: NONE
DRILLING LOCATION SKETCH :	ROSA	UNIT	= 59	DRG. NO.





FARMINGTON AREA TRAFFIC SKETCH DENVER DIVISION
Rosa Unit Well No. 59
Rio Arriba County, New Mexico
Amoco WI: 50%

