SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side) UNITED STATES DEPARTMENT OF THE INTERIOR

30-045- 24977 5. LEASS DESIGNATION AND SERIAL NO.

GEOLOGICAL	SF-077382	SF-077382		
APPLICATION FOR PERMIT TO DI	RILL, DEEPEN, OR PLUG	BACK 6. IF INDIAN, ALLOTTEE OF	TRIBE NAME	
O. TYPE OF WORK	EPEN [] PLUG B		E	
OTHER CONSTRUCTION	SINGLE MUL ZONE ZONE	IPLE X 8. FARM OR LEASE NAME		
NAME OF OPERATOR		R. P. HARGRAVE	"H"	
AMOCO PRODUCTION COMPANY		9. WELL NO.		
Address of operator	top NM 97401	10 FIRID AND 1990) OR 3	WII DUAT	
501 Airport Drive, Farming		10. FIELD AND 1991, OR W. Z. Undesignated	Gallup/	
At surface 870' FSL and 910' FEL, Sec	Basin Dakota			
As proposed prod. zone		AND SURVEY OR AREA		
Same			Section 9, OW	
1. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOW	N OR POST OFFICE*	12. COUNTY OR PARISH 1	S. STATE	
9.7 Miles Southeast of Bloom		San Juan	<u>New Mexico</u>	
5. DISTANCE FROM PROPOSED* LOCATION TO NEAREST	16. NO. OF ACRES IN CHASE	17. NO. OF ACRES ASSIGNED TO THIS WELL		
PROPERTY OF TRANSPIRING, FT. (Also to hearest Grig. noit line, if any)	2523.52 19. PROPOSED DEPTH	20. RUTARY OR CABLE TOURS		
S. DISTANCE FROM PROPOSED LOCATION* TO NUMBER WELL DEBLLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 375		_		
OR APPLIED FOR, ON THIS LEASE, FT. 375	0' 6882'	Rotary 22. APPROX. DATE WORK	WILL START*	
6316' GL		As soon as permit	ted .	
	ED CASING AND CEMENTING PROC			
SIZE ON POSE SIZE OF CASING WEI	GHT PER FOOT SETTING BEPTH	QUASTIFY OF CUMENT		
	32.3# H-40 300'	300 sx Class B x 2% C	`aCl2-Ciro	
	26# K-55 6882'	1st Stage		
		2nd Stage- 650 sxlx 6		
.	ı		plug/sx,.8%	
This application to drill an infil			$1 \times 100 \text{ sx Cl}$	
pursuant to Order No. R-1670-V app		B N	leat (Tail in	
Max 22, 1979. This well will qual of the Natural Gas Policy Act unde	•	The state of the s		
or the hererer sus rorrey her unde	order No. 14-1075-1.	DV Tool set at 48131.	-IVFN	
The gas from this well is dedicate	d to Southern Union		riarn /	
Cas Company.	-	THORIZED ARE APR	2 1981	
This action is subject to administra	DRILLING OPERATIONS A SUBJECT TO COMPLIANCE			
appeal pursuant to 30 CFR 290.	"GENERAL REQUIREMEN"	2" (SIL CO	N. COM.	
	GENERAL MEGOMETICA	DIS	ST. 3	
s an our space benceme proposer isogram: If proposed	is to doepen or plug back, give data of	present productive zone and proposed i	zew productive	
me . If proposal is to drill or deepen directionally, give the center program. If the	portinent data on subsurface Leation	and measured and frue vertical depths.	Give blowout	
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Original Signed By W. L. Peterson	numer Dietrich Eng	z pape i i i i i i i i i i i i i i i i i i i		
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NMOCC,

SUPPLEMENTAL INFORMATION TO FORM 9-331C

R. P. HARGRAVE "H" NO. IE 870' FSL & 910' FEL, SECTION 9-T27N-RIOW SAN JUAN COUNTY, NEW MEXICO

Tertiary Nacimiento The geologic name of the surface formation is the

Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

FORMATION	<u>DEPTH</u>	ELEVATION
Ojo Alamo	948	5381
Kirtland	1340	4989 '
Fruitland	1928	4401
Pictured Cliffs	2195	4134
Chacra (if present)	3539 *	2790 '
Mesaverde Cliff House Point Lookout	3719 ' 4532 '	2610 ' 1797 '
Callup	5730 ¹	599 '
Dakota	6602	- 273
TD	6882 '	- 553
Estimated KB elevation:	6329 '	APR 2 1981

OIL CON. COM. Drilling fluid to TD will be a fresh water, low solids non-dispers system. Open hole logging program will include logs from TD to below surface casing:

> SP-Dual Induction-GR FDC-CNL-GR

Completion design will be based on these logs. No cores or drill stem tests will be taken.

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.

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

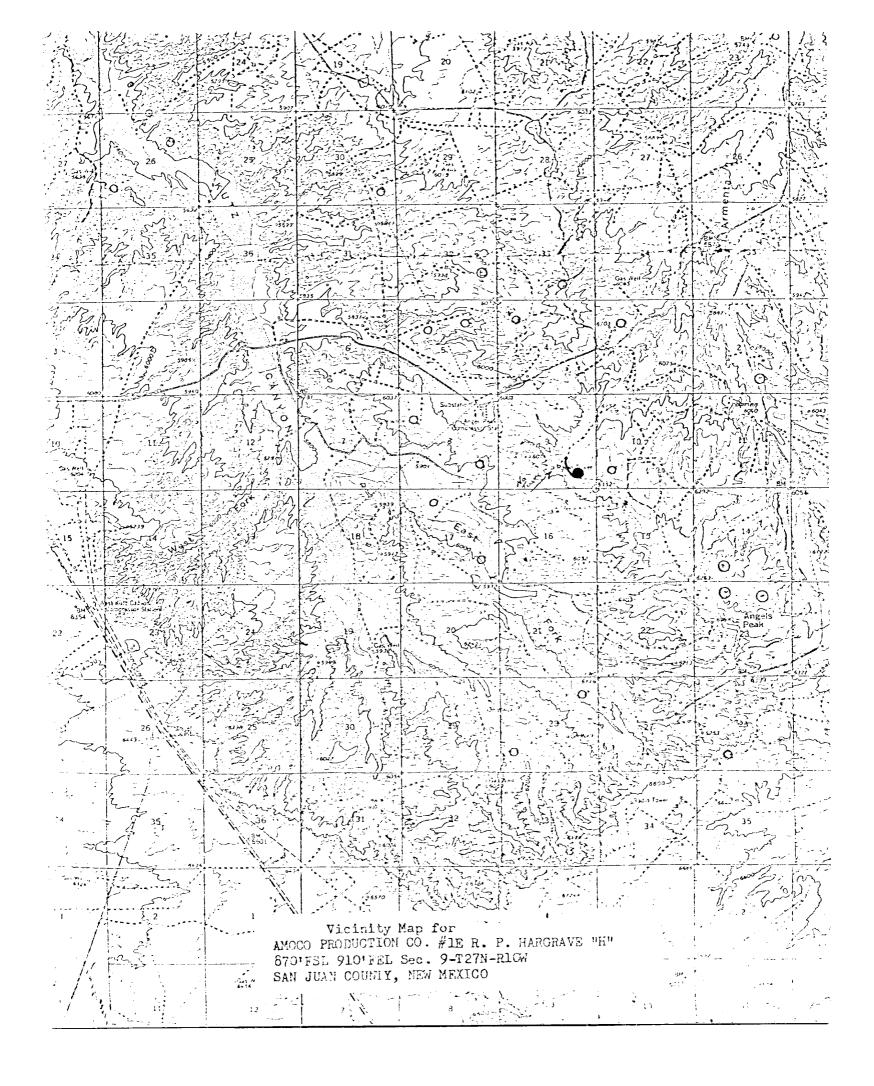
P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

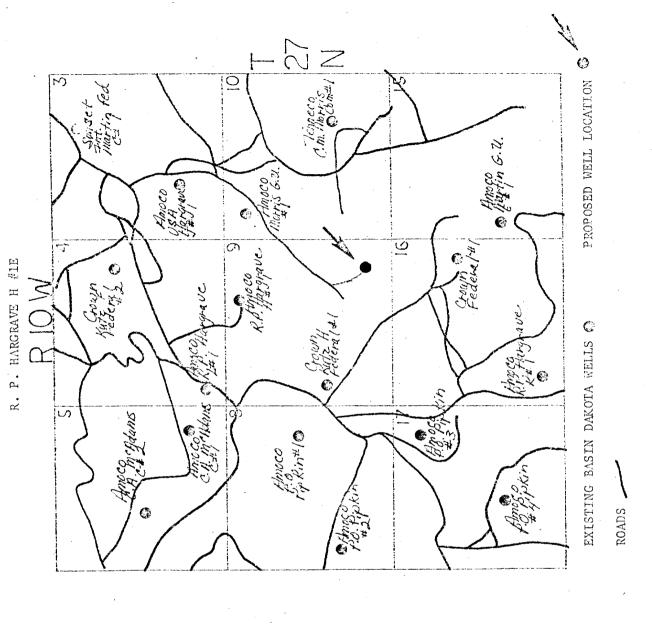
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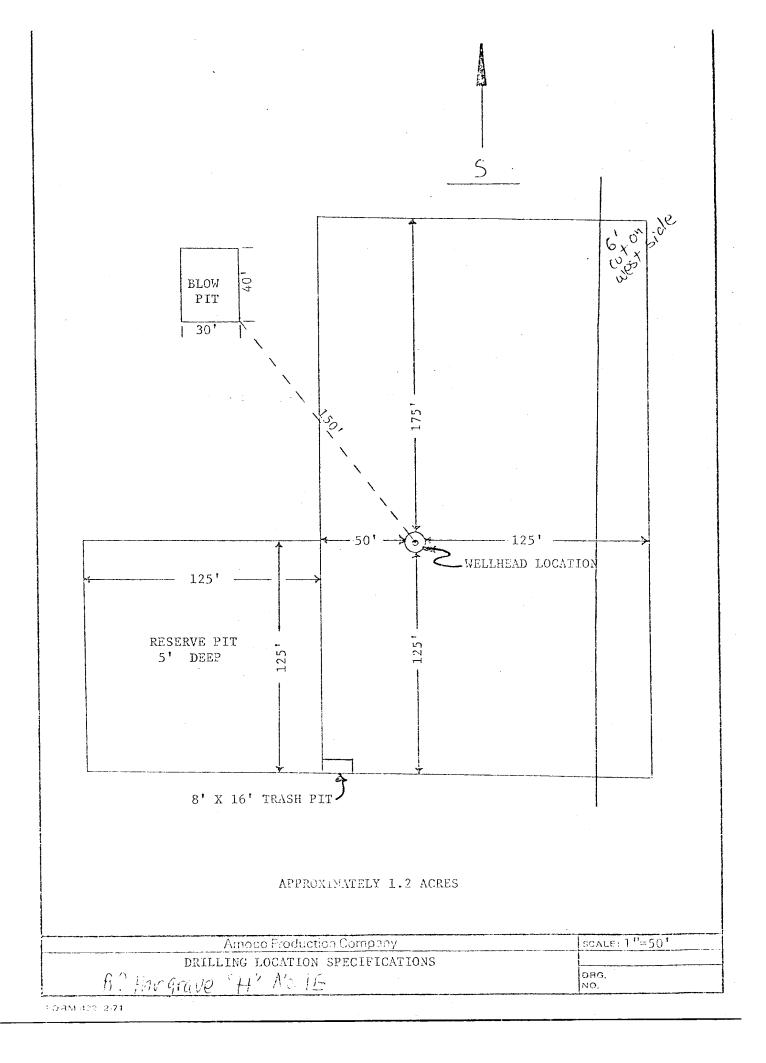
FORM 24-11

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

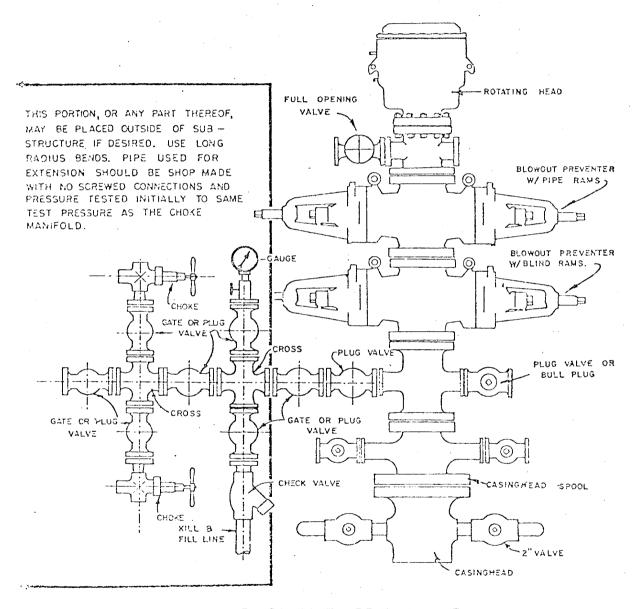
Sperator				Logae				w	il No.
AMOCO PRODUCTION COMPANY			R. P. HARGRAVE "H"			1E			
Unit Letter	Section	Township		Rang	•	County			
P	9	27N			LOW	Sar	ı Juan		· · · · · · · · · · · · · · · · · · ·
Actual Footage Loc				02.0			n 1		
870	OZ edt mort teet		line and	910		edt mont teel	East	lin-	
Ground Lavel Elev:				P∞l Un	designate in Dakota	ed Gallu	p/	1 .	Acreage:
5316		/Dakota		<u> </u>					0 / 320 Acres
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.									
interest a	and royalty).	different o	wnership is	dedicate					both as to working
dated by	communitization,								•
X Yes	☐ No If a	inswer is	"yes," type	of consol		_		g-All or	mers approved.
this form	if necessary.)				which have	· · · · · · · · · · · · · · · · · · ·	been conso		se reverse side of
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	oling, or otherwise) or until a	a non-standa	rd unit, e	liminating:	such inters	sts, has b	een approv	ed by the Commis-
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- 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 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 rans will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.

MULTI-POINT SURFACE USE PLAN

R. P. HARGRAVE "H" NO. 1E 870' FSL & 910 FEL, Section 9, T27N, R10W San Juan County, New Mexico

- 1. The attached topographic map shows the proposed route to the location.
- 2. It will be necessary to build an access road approximately 500' in length, and 20' wide.
- 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 is a 380-barrel tank and facilities located at R. P. Hargrave "H" No. 1 (B-9-27-10)
- 5. Water will be hauled from the San Juan River.
- 5. 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.
- 5. There are neither airstrips nor camps in the vicinity.
- 3. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet. A 6 foot cut will be made on the west 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 Land Management
- 11. The general topography is an uneven terrain with sandy loam soil. Vegetation consists of Juniper, sage and native grasses.

Representatives of the U.S. Geological Survey's Farmington Office and the Bureau of Land Management 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

Contification: 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, that of my knowledge, true and correct; and, that the work associated it 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.

11/12/80

R. W. Schroeder, District Superintendent