SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNITED STATES DEPARTMENT OF THE INTERIOR

30.	045-24662	
	DESIGNATION AND SERIAL NO.	

GEOLOGICAL SURVE	Υ	SF-077382
APPLICATION FOR PERMIT TO DRILL, D	EEPEN, OR PLUG BA	ACK 6. IE INDIAN, ALLOTTES OR TRIBE NAME
DRILL DEEPEN		
b. Type of well on [7] 015 [7] [MF]]]	SINGLE MELTIPL	S. FARM OF LEASE NAME
OIL GAS WELL OTHER INFILL 2. NAME OF OPERATOR	ZONE ZONE	R. P. Hargrave "J"
AMOCO PRODUCTION COMPANY		9. WELL NO.
3. ADDRESS OF OPERATOR		HE BELLEVILLE
501 Airport Drive, Farmington, New Mexit. (Report location clearly and in accordance with	CO 8740 any State requirements.*)	10. FIELD AND POOL, OR WILDCAT Basin Dokota
At surface 1540' FNL and 1520' FWL, Section 3, T271 At proposed prod. zone	N, RIOW	11. SEC., T., E., M., OR BLK. AND SURVEY OF AREA SE/4, NW/4, Section 3
Same		T27N, RIOW
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST	OFFICE*	= 12. COUNTY OR PARISH 13. STATE
8 miles Southeast of Bloomfield, New Me:		San Juan New Mexico
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OF LEASE LINE, FT. (Also to nearest drig, unit line, if any)	16. No. OF ACRES IN LEASE 2523.52	17. NO. OF ACRES ASSIGNED TO THIS WELL E W 320,46
18. DISTANCE FROM PROPOSED LOCATION*	19. PROPOSED DEPTH	20. ROTARY OR CABLE TOOLS
OR APPLIED FOR, ON THIS LEASE, FT. 2925	6587 '	Rotary 22. Approx. Dats work will spain*
21. ELEVATIONS (Show whether DF, RT, GR, etc.)	·.	As soon as permitted
6060 GL	G AND CEMENTING PROGRA	
		QUANTITY OF CEMENT
SIZE OF HOLE SIZE OF CASING WEIGHT FOR FO		300 sx Class B x 2% CaCl2-circ
12-1/4" 8-5/8" (New) 24# K-7-7/8" 4-1/2" (New) 10.5# K-		1st Stage- 37[sx Cl B 50:50 POZ
DRILLING OPERATIONS AUTHORISED ARE This action i	s subject to administrative	2nd Stage-1064 sx (x 6% gel,2% med
SUPPEROF TO TO VILLA DE WOLH ATTACHED Appeal gursu	isht to 30 CFR 290.	tuf plug/sx,.8%
This application to drill an Infill Basin	n Dakota weli'is	FLA x 100 sx Ct
pursuant to Order No. R-1670-V approved	by the NMOCD on	B Neat (Tail in
May 22, 1979. This well will qualify un	der Section 103	dirc.
of the Natural Gas Policy Act under Orde	r No. R-1670-7.	DV Tool set at 4571'.
The gas from this well is dedicated to S	outhern Union	
RECEIVED		
		OFFERE
OCT 7 198		
THE OFFICE OF THE STEPLEY	- 1	Nov
U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.	0	181980
	\",	CON COM
IN ABOVE SPACE DESCRIBE PROPOSED PROCEAM: If proposed is to deep	oon or place back wire date on	prosent productive rose and processed new productive
zone. If proposal is to doll or deepen directionally, give pertinent preventer programs, if uny.	t data on sphsurface locations as	nd measured and felie vertical depths. Give blowout
SIGNED Wide Peterson Jan TH	_{rus} <u>District Engin</u>	neer October 3, 1980
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
	•	
APPEOVED BY THE CONDITIONS OF APPENDIX, IF ANY!	TLE	DATE

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.

Cperator			Lease				Well No.
AMOCO PRODUCTION COMPANY			1	HARGRAVE	n Ju		lE.
Unit Letter	Section	Township	Range		County		
F	3	27N	10W		San J	uan	
Actual Footage Location of Well:							
1540	feet from the Producing Fo	North line or	1520 IP∞1	feet	from the W		line Dedicated Agreage:
Ground Level Elev. 6060	Dakota		Basin I	Dakota			W/320.96 Acres
					h	orks on the	
1. Outline th	e acreage dedice	ited to the subject	well by colored	a pencit or	nachure m	iaiks on the	prac 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?							
ΜΛ Yes	□ No If a	nswer is "yes," type	e of consolidati	on Oper	ating Ag	greements	
		owners and tract de	scriptions which	ch have act	tually been	consolidat	ed. (Use reverse side of
	f necessary.)		1) (1	,	3:1.	1 /3	*******
No allowal	ble will be assign	ed to the well until	ali interests ha	ive been c	onsolidate	d (by comm	unitization, unitization,
-	ling, or otherwise	or until a non-stand	iara unit, elimii	Jating Suci	i interests	, nas been a	approved by the Commis-
sion.							
	1		i		11		CERTIFICATION
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Ī	! _		1			•	rtify that the information con-
l	017		1				in is true and complete to the
	1 4		1			best of my	knowledge and belief.
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			i			Name	940
1520'	+						CKRELL
1)20			į,			Position	T TMCINTED
Ļ	!		1			Company	T ENGINEER
f	! !		i	p ⁴			RODUCTION COMPANY
	i		! '		910	Date	
Ĭ.	1	Sec.	!		$HG(\cdot)$	MAY 20,	1980
	SF-017382			10	4 00		
	1				$\mathcal{D}_{i\in\mathbb{N}}$	or and	
· 2	1 .	3	i			I hereby o	certify that the well-location
li .	I					المعتفتين	his plat was plotted from field
i.	1 '		DEAF				ctual surveys made by me or
	 		RECE	IVEC)		upervision, and that the same d correct to the best of my
	i I		OCT 1	r: 1000		knowledge	• •
				<u>. 1980</u> .	_ 4 - 1		
	1		U. S. GEOLOGI	ICAL SHEWE	.		
1	1	. II L	FARMINGTO	DN. N. M.	'	Date Surveye	d (1583) (1)
i	i ⊙		1	-		May 13	1980
·	ì		i			Registered P	rotessional Engineer:
I I	i		1			and/or Last	Surveyor
	l		ŀ			Second	A TONAL
F	l	. I				Certificate N	Sokern Jr.
-	39-4410					3950	MERR, IR.

SUPPLEMENTAL INFORMATION TO FORM 9-331C

R. P. HARGRAVE "J" NO. IE 1540' FNL & 1520' FWL, SECTION 3, T27N, RIOW SAN JUAN COUNTY, NEW MEXICO

The	geologic	name	οf	the	surface	formation	is	the	Tertiary	Nacimiento	

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

FORMATION	DEPTH	ELEVATION
Ojo Alamo	979 '	+5094
Kirtland	1134'	+49391
Fruitland	1709'	+43641
Pictured Cliffs	1966	+4107'
Chacra (if present)	3056'	+3017
Mesaverde Cliff House Point Lookout	3536 ' 4371 '	+2537 ' +1702 '
Gallup	5511'	+ 562'
Dakota	6387 '	- 314'
TD	6587 '	- 514'

Estimated	KB	elevation:	6073 '

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:

SP-Induction-GR	BSC-TD
FDC-CNL-GR	BSC-TD

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.

MULTI-POINT SURFACE USE PLAN

R. P. HARGRAVE "J" NO. IE 1540' FNL & 1520' FWL, SECTION 3, T27N, RIOW SAN JUAN COUNTY, NEW MEXICO

- 1. The attached topographic map shows the proposed route to the location.
- 2. It will not be necessary to build 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.
- 4. There is a 380-Barrel tank and facilities located at R. P. Hargrave "J" Well No. I, approximately two-thirds mile south.
- 5. Water will be hauled from Kutz Wash water holes.
- 6. No construction materials will be hauled in for this location.
- 7. A 150' by 150' 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.
- 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-fcot cut will be made on north/northeast corner.
- 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 according to Eureau of Land Management specifications.
- II. The general topography is a terrain sloping to the northeast, with a sandy clayey spil; vegetation consists of juniper, sagebrush and native grasses.

Representatives of the U.S. Geological Survey's Farmington Office and the Eureau 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

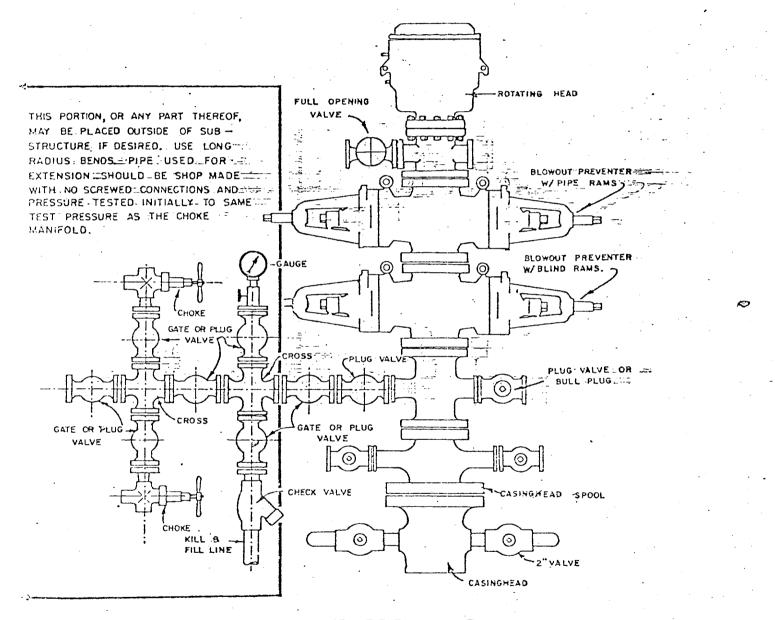
Phone: Office: 505-325-8841; Home: 505-325-6164 Address: 501 Airport Drive, Farmington, NM 87401

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 sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date September 29, 1980

R. W. Schroeder, District Superintendent

- 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 bocasing 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.

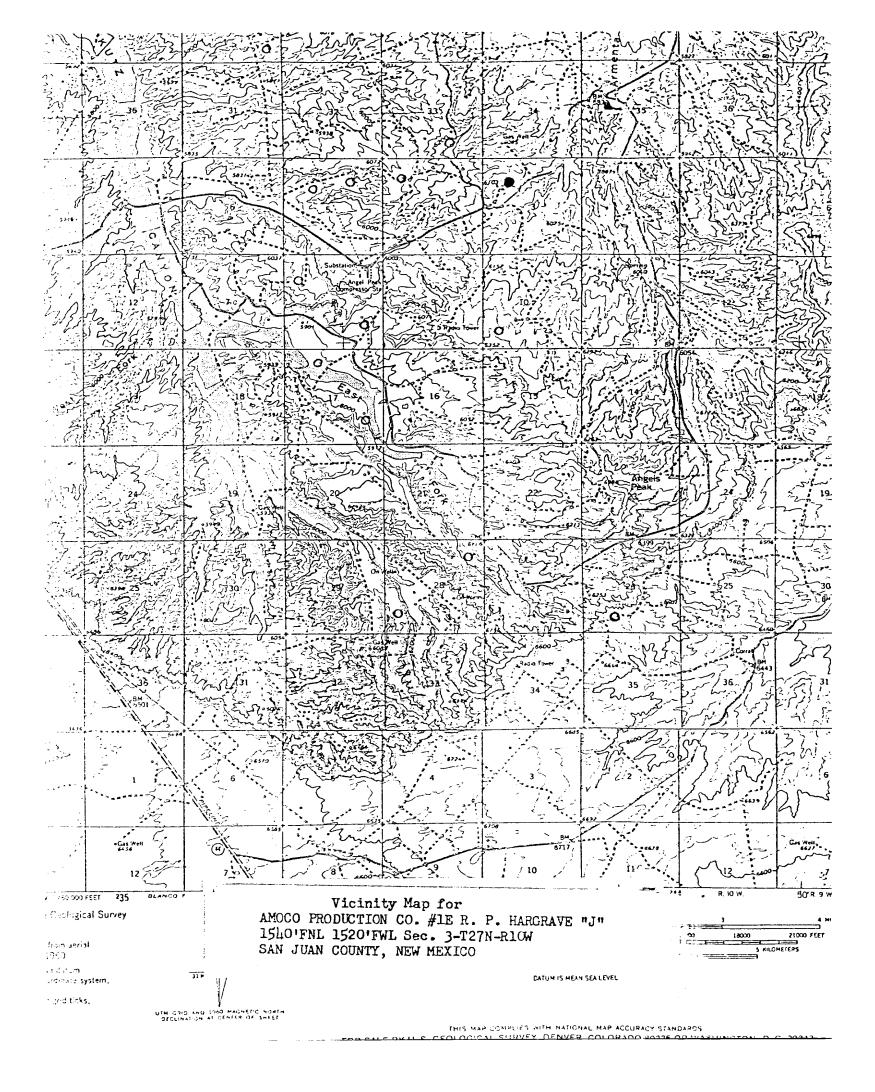


BLOWOUT PREVENTER HOOKUP

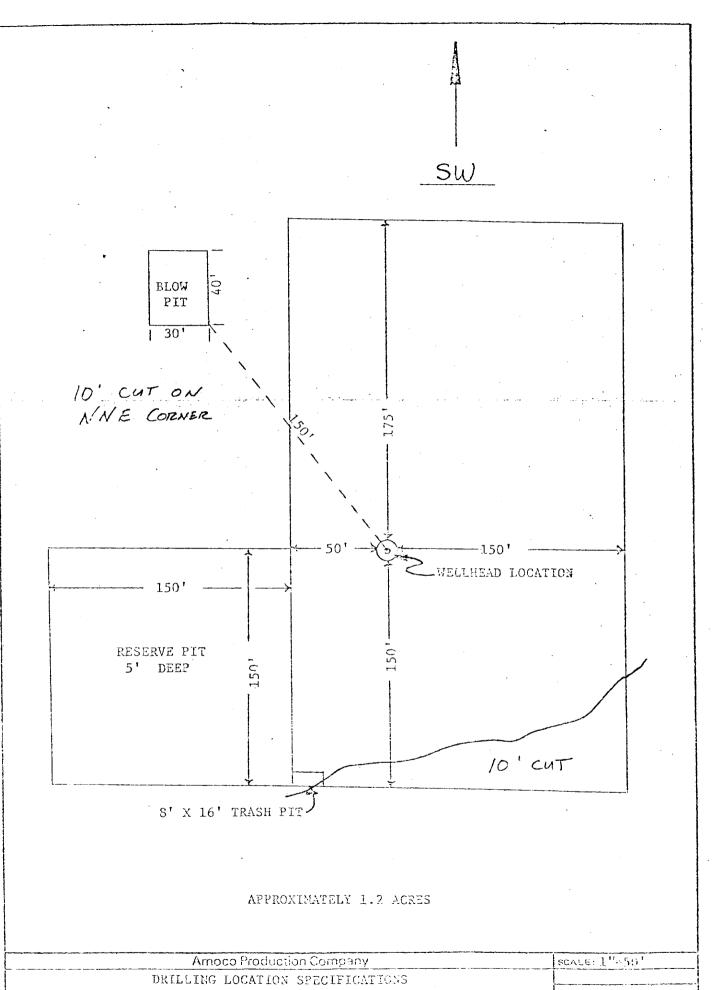
API Series # 900

EXHIBIT D-4
OCTOBER 16,1969

Operation of BOP by closing both pipe and blind rams will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.



R. P. HARGRAVE J #1E



R.P. Hargrave "J" No. 1E