SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved.
Budget Bureau No. 42 Place

UNITED STATES

reverse side) DEPARTMENT OF THE INTERIOR

77		Darcat	1 110.	42-K14	25.
కర	-0	40	45	26	P) 01
5. LEASE	DESIG	NATION	AND 8	ERIAL NO	DØ

GEOLOGICAL SURVEY							ION AND SERIAL NO.
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					SF 078199	•	
APPLICATION	IN FOR PERMIT	IO DRILL	, DEEF	PEN, OR PLUG	BACK	6. IF INDIAN, ALLOT	TEE OR TRIBE NAME
IA. TIPE OF WORK						-	
Di	RILL 🗶	DEEPEN		PLUG BA	CK []	7. UNIT AGREEMEN	P NAMP
b. TYPE OF WELL				1 200 07			
	WELL OTHER			SINGLE MULT	IPLE [0 7171	
2. NAME OF OPERATOR				ZONE ZONE		8. FARM OR LEASE	NAME
MOCO	TIBANIAN TAN AMERICA					Houck Gas C	om "A"
ADDRESS OF OPERATOR	PRODUCTION COM	ANI				9. WELL NO.	
						3.4	
501 AT	Report location clearly an	HMINGTON.	a MK	7401		10. FIELD AND POOL	OR WILDCAT
At surface	Report location clearly an	d in accordance v	vith any	State requirements.*)		1	
1020 m	Blanco Mesaverde						
At proposed prod. zo	NL & 790 FWL, S	section o'	1-43-	N, N-9-W		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
	NE/4 NV/4 Sec. 6						
4. DISTANCE IN MILES	AND DIRECTION FROM NE	ADPOT MOUN OF TO				T-29-N. R-9	
			ST OFFIC	E+		12. COUNTY OR PARIS	SH 13. STATE
5. DISTANCE FROM PROP	Sw of Blanco,	NOK.				30 	
LOCATION TO NEARES	T		16. No	O. OF ACRES IN LEASE	17. NO. 0	F ACRES ASSIGNED	NH NH
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)			то тн		HIS WELL		
8. DISTANCE FROM PROI	POSED LOCATIONS	770	10-	264		264	
TO NEAREST WELL, I OR APPLIED FOR, ON TH	RILLING COMPLETED	_	19. PF	GOPOSED DEPTH	20. ROTAL	RY OR CABLE TOOLS	
1. ELEVATIONS (Show whether DF, RT, GR, etc.)		3640'	1	48501		Rotary	
to ELEVATIONS (Show Wh	etner DF, RT, GR, etc.)					22. APPROX. DATE V	FORK WILL CO. D
5742 CI							OBE WILL START
3.		PROPOSED CAS	INC. ANY			September	1977
	·		.NG ANI	CEMENTING PROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO		OOT SETTING DEPTH		OHANDING OF COLUMN	
12=1/4"	0. 5/011					QUANTITY OF CEMENT	
8-3/4"	9-5/8"	32.34		250'	·	250 ax	
4 - 4 - 1		201		27621	-	460 az	
6-1/4"	4-1/2" 10.54		,	48501			
		1	4030		310 ex		

This well will be drilled to prevent drainage from offset wells. The well will be drilled through the Mesaverde formation using rotary tools. Fresh mud will be used for circulation from 2762' to surface and gas from TD (4850') to 2762'. Goupletion design will be based upon open hole logs. A diagram and acreage plat are attached. A copy of all logs will be filed with your office on completion. The acreage is dedicated to El Paso Natural Gas Company.

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 depths. Give blowout SIGNED Area Engineer (This space or Federal or State office use) PERMIT NO. APPROVAL D. TITLE CONDITIONS OF APPROVAL, IF ANY: 4 1977 AUG *See Instructions On Reverse Side

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 a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form 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. 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, slowing 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. GOVERNAENT PRINTING OFFICE: 1974-781-025/VIII-239

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distances must be	rom the outer be	oundaries of	the Section.	
Operator			Lease			Well No.
	ction Company	у	Houck G	as Com		1_A
	Section	Township	Range		County	1
C	6	29N	9W		San Juan	
Actual Footage Loca	tion of Well:	••	1100		1.7c ==	
1020	feet from the	North line and	790	fee	t from the West	line Dedicated Acreage:
Ground Level Elev:	Producing For			Mesave	rde	264.0 Acres
5742	Mesa Ver					<u></u>
2. If more the interest an 3. If more tha	an one lease is d royalty). n one lease of d	ifferent ownership is	ll, outline ea	ch and ide	entify the ownership	thereof (both as to working
dated by co	ommunitization, u No If a s "no," list the	nnitization, force-pool	ing. etc? of consolidat	ion		dated. (Use reverse side of
No allowab	necessary.) le will be assign ing, or otherwise	or until a non-standa	ll interests h rd unit, elim	ave been inating su	consolidated (by conchinterests, has be	ommunitization, unitization, en approved by the Commis-
328-71 1315	.), '	2630-7				CERTIFICATION
7901		·		1310.1' 1309.4h	Position Company AMOCO	ty certify that the information conherein is true and complete to the my knowledge and belief. I. L. KRUPKA AREA ENGINEER D PRODUCTION COMPANY JULY 28, 1977
	Sec 6			2619.54	bate Sur Date Sur June Registe and I	29. 1977 red Professional Engineer. and Surveyor B. Kerr Jr.
111.51 150	55.521	2657.821			3950) FORM 24-1

HOUCK GAS COM "A" NO. 1A 1020 FNL & 790 FWL, SECTION 6, T-29-N, R-9-W 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 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.

JULY 28, 1977

Date

AREA SUPERINTENDENT

Name and Title

DEVELOPMENT PLAN HOUCK GAS COM "A" NO. 1A 1020 FNL & 790 FWL, SECTION 6, T-29-N, R-9-W SAN JUAN COUNTY, NEW MEXICO

The proposed location is located on coarse sandy soil with juniper and pinon pine trees, snakeweed, rabbit brush, Morman tea, prickly pear, and Challa cacti. The geological name of the surface formation is the Nacimiento. No new road will be required. No construction materials will be required to build the location, and the location will be leveled and cleaned up upon completion.

The water will be hauled to the location from a ditch in Blanco, over existing roads. The hole will be drilled using fresh mud from surface to 2762' and gas from 2762' to TD (4850). Upon completion the location will be cleaned, leveled, and the reserve rit will be backfilled. Attached is the BLM seeding plan to be followed for this well.

There are no airstrips in the vicinity.

The estimated tops of important geological formations bearing hydrocarbons are:

FORMATION	DEPTH	ELEVATION
Pictured Cliffs Cliffhouse Menefee	2362' 3950' 4109'	+3393' +1805' +1646'
Point Lookout	4563	+1192'

Estimated KB elevation: 5755'

The proposed setting depths of each casing string and type of cement to be used for each is as follows:

DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
250 ' 2762 '	9-5/8" 7"	3 2.3 # 20#	12-1/4" 8-3/4"	250 - Class "B", 2% CaCl ₂ . 360 - Class "B", 2% CaCl ₂ , 2# Med. Tuf Plug/sx.
2762-48	50' 4-1/2"	10.5#	6-1/4"	100 - Class "B" Neat. 260 - Class "B" 50:50 Poz, 2% Gel, 2# Med Tuf Plug/sx, 0.2% Friction Reducer.
				-50 - Class "B" 50:50 Poz, 2% Gel.

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

Amoco plans to run the following logs from TD to intermediate casing: Induction Gamma Ray, Density Gamma Ray. No cores or Drill Stem Tests will be taken.

Our experience in this area has shown no abnormal pressures, temperatures, or hydrogen sulfide gas will be encountered.

Our proposed starting date is September 1977, and a three week operation is anticipated.

BLM SEEDING REQUIREMENTS IN THE FARMINGTON RESOURCE AREA

- 1. SEED MIXTURE 2
- 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:

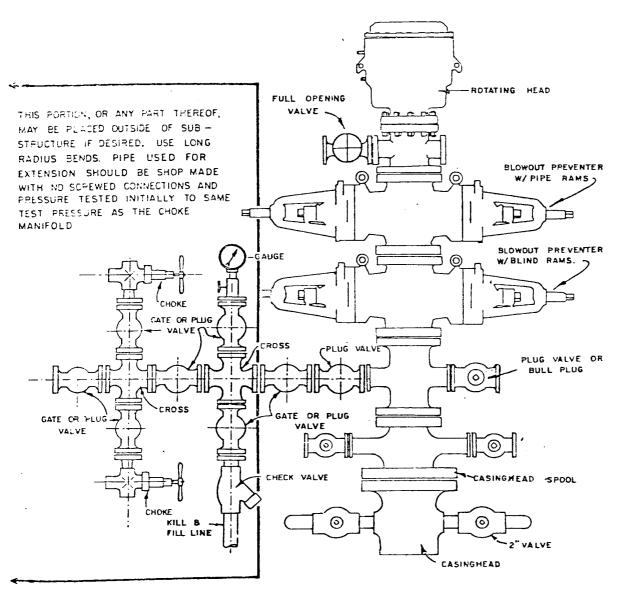
CRESTED WHEATGRASS (Agropyron desertorum) - 3½ lbs.

FOURWING SALTBUSH (dewinged) (Atriplex conescens) - ½ lb.

SAND DROPSEED (Sporobolus cryptandrus) - 3/4 lb.

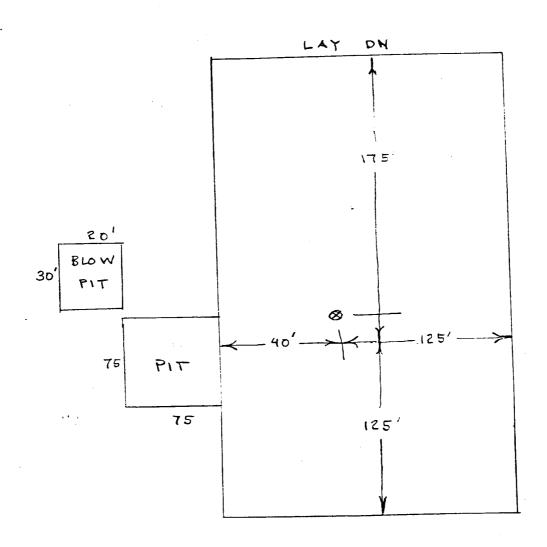
WINTERFAT (Eurotia lanata) - ½ lb.

ALKALI SACATON (Sporobolus airoides) - 3/4 lb.

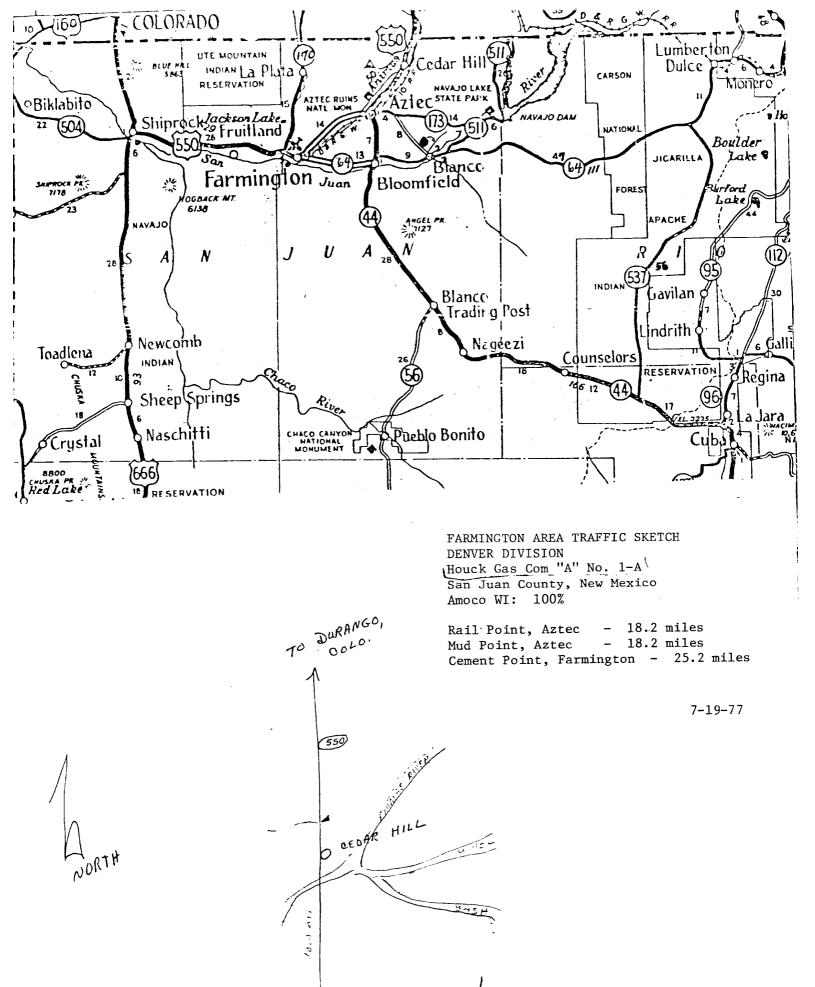


BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4 OCTOBER 16,1969



HOUCK GAS COM "A" IA SEC 31 T30N R9W 1025 FNL 790 FWL NE 14 NW 4



CO.R.D

64)

BARCO

FF

4

TO OUBA

FARMINGTON

9.0 Mi

BLOOM FIELD

