

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

30-045-22206

5. LEASE DESIGNATION AND SERIAL NO.
SF 076215B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
McBreen Gas Co.

9. WELL NO.
1A

10. FIELD AND POOL, OR WILDCAT
Blanco Masoverde

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
**NW 1/4 NW 1/4 Section 6
T-31-N, R-10-W**

12. COUNTY OR PARISH
San Juan

13. STATE
New Mexico

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR

301 Airport Drive, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

525' NW 1/4 & 365' NW 1/4, Section 5, T-31-N, R-10-W

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approx. 1.4 mi. N/W of Cedar Hill, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)**525' NW**

16. NO. OF ACRES IN LEASE

4017. NO. OF ACRES ASSIGNED
TO THIS WELL**320.13 320.12**18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.**180'**

19. PROPOSED DEPTH

5200'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6073' GL

22. APPROX. DATE WORK WILL START*

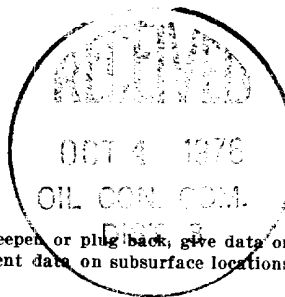
October, 1976

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	32.36	250'	280 SK
8-3/4"	7"	23.8	3306'	800 SK
6-1/4"	4-1/2"	10.56	3106-5431'	330 SK

Amoco proposes to drill the above well to prevent drainage caused by offsetting infill drilling. The well will be drilled through the Masoverde formation using rotary tools with gas as a circulating media from 3306' to TD. Completion design will be based on open hole logs. A diagram and acreage plat are attached. A copy of all logs will be filed with your office upon completion. The acreage is dedicated to El Paso Natural Gas Company.

RECEIVED
SEP 30 1976

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 preventer program, if any.

24. SIGNED [Signature] TITLE **Senior Engineer** DATE **Sept. 24, 1976**

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:*clal*

*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. 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, showing 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.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-132
Supersedes C-128
Effective 1-1-66

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

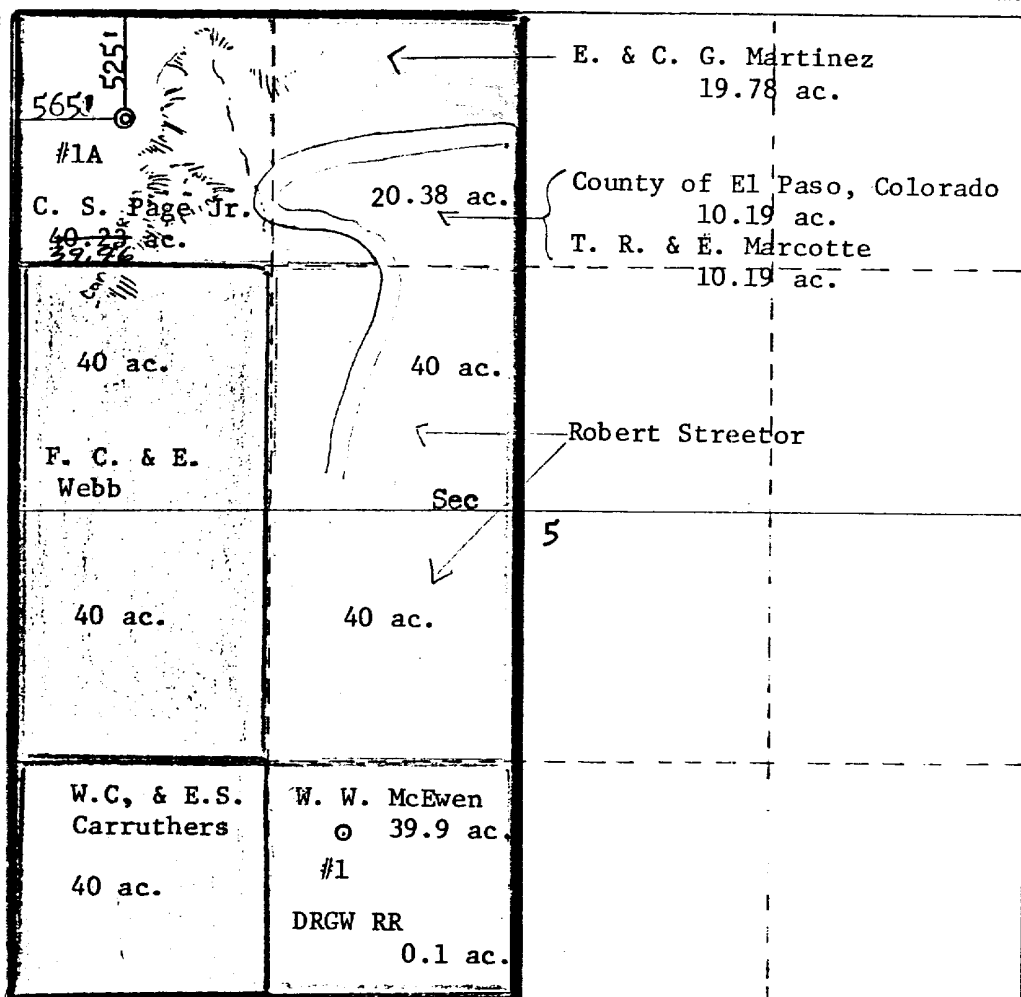
Operator: Amoco Production Company			Lease: McEwen Gas Com		Well No. 1A
Unit Letter D	Section 5	Township 31N	Range 10W	County San Juan	
Actual Footage Location of Well: 525 feet from the North line and 565 feet from the West line					
Ground Level Elev. 6073 est.	Producing Formation Mesa Verde		Pool Blanco Mesaverde	Dedicated Acreage: 320.13 ^{320.12} 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 interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse 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 Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name

P. C. Ellison

Position

Sr. Engineer

Company

AMOCO PRODUCTION COMPANY

Date

September 24, 1976

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

August 25, 1976

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No.

3950

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

MCEWEN GAS COM NO. 1A
525' FNL & 565' FWL, SECTION 5, T-31-N, R-10-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.

September 27, 1976
Date

L.B. Lawrence Area Supt.
Name and Title

DEVELOPMENT PLAN
MCEWEN GAS COM NO. 1A
525' FNL & 565' FEL, SECTION 5, T-31-N, R-10-W
SAN JUAN COUNTY, NEW MEXICO

The proposed location is located on sandy loam soil with a moderate cover of cobblestones. The geologic name of the surface formation is Paleozoic Nacimiento. Approximately 250 feet of new road will be constructed to the location from the existing road.

Arrangements are being made to haul water from the Animas River. Drilling fluid to 3306' will be low solids, non-dispersed drilling mud, and gas drilled from 3306' to TD. Upon completion the location will be cleaned up, leveled and reserve pit backfilled. Attached is the BLM seeding plan to be followed for this well.

There are no airstrips or camps in the vicinity.

The estimated tops of important geological formations bearing hydrocarbons are:

<u>Formation</u>	<u>Depth</u>	<u>Elevation</u>
Pictured Cliffs	2906'	+3200'
Cliffhouse	4606'	+1500'
Menefee	4731'	+1375'
Pt. Lookout	5131'	+ 975'
Mancos	5281'	+ 825'
Estimated KB Elevation	6085'	

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

<u>Est. Depth</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Hole Size</u>	<u>Sx Cmt & Type Cement</u>
250'	9-5/8"	32.3#	H-40	12-1/4"	280 - Class "B" 2% CaCl ₂ .
3306'	7"	23#	K-55	8-3/4"	750 - Class "B" 2% Gel, 2# Med. Tuf Plug/sx. 50 - Class "B" Neat
3306-5200'	4-1/2"	10.5#	K-55	6-1/4"	255 - Class "B" 50:50 Poz, 2# Med. Tuf Plug/sx, 2% Gel, 0.2% Friction Reducer. 75 - Class "B" 50:50 Poz, 2% Gel.

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

Amoco plans to run the following logs: From 3373' to 250', Induction-Electric Survey; from 3373' to 1500', Density-Gamma Ray; from TD to the intermediate casing, Induction-Gamma Ray, Density-Gamma Ray. No cores or Drill Stem Tests will be taken.

Our experience drilling in this area has shown that no abnormal temperatures or hydrogen sulfide gas will be encountered. Abnormally high pressure is expected in the Fruitland formation. Mud will be weighted up in anticipation of this high pressure.

Our proposed spud date is October, 1976, 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) - $3\frac{1}{4}$ lbs.

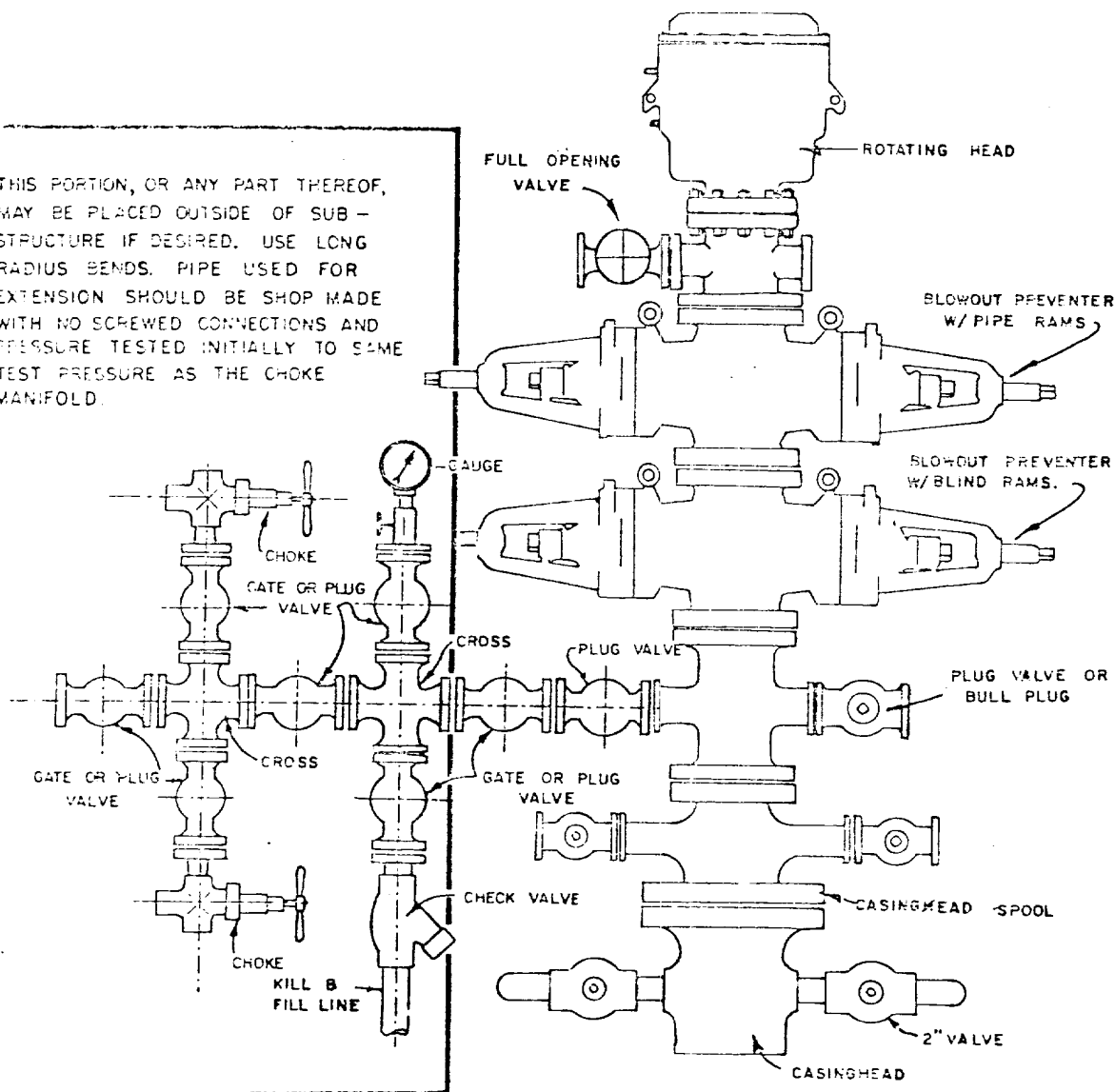
FOURWING SALTBUUSH (dewinged) (Atriplex canescens) - $\frac{1}{2}$ lb.

SAND DROPSEED (Sporobolus cryptandrus) - $\frac{3}{4}$ lb.

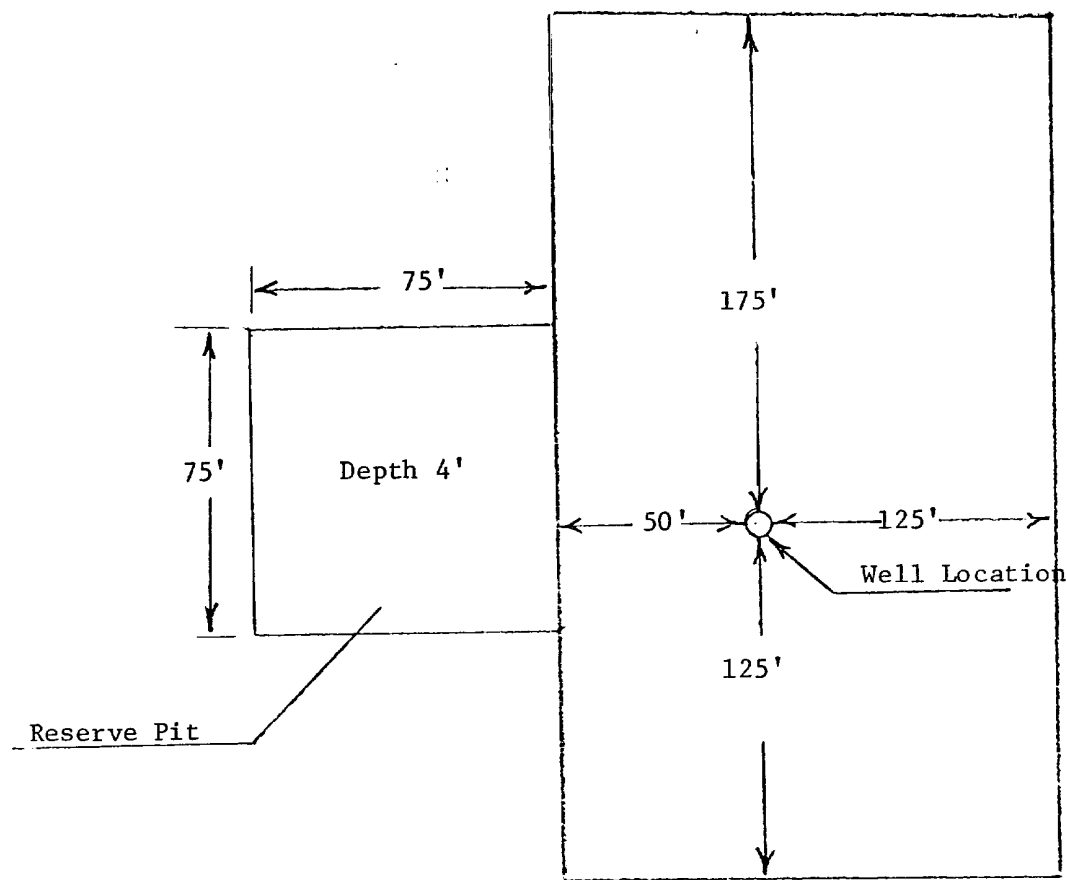
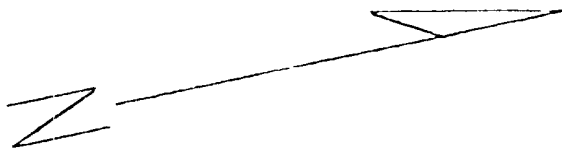
WINTERFAT (Eurotia lanata) - $\frac{1}{2}$ lb.

ALKALI SACATON (Sporobolus airoides) - $\frac{3}{4}$ lb.

THIS PORTION, OR ANY PART THEREOF, MAY BE PLACED OUTSIDE OF SUB-STRUCTURE IF DESIRED. USE LONG RADIUS BENDS. PIPE USED FOR EXTENSION SHOULD BE SHOP MADE WITH NO SCREWED CONNECTIONS AND PRESSURE TESTED INITIALLY TO SAME TEST PRESSURE AS THE CHOKE MANIFOLD.



BLOWOUT PREVENTER HOOKUP



Amoco Production Company		SCALE: None
MCEWEN GAS COM NO. 1A		
525' FNL & 565' FWL, SECTION 5, T-31-N, R-10-W		DRG.
SAN JUAN COUNTY, NEW MEXICO		NO. 9-22-76



Proposed Location
McEuen Gas Con. No. 1A

525 F.W.L. 5-5 T-31-N R-10-4
McEuen Gas Well