SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

30-045-72294

| UNITE | | | |
|-------------------|----|-----|----------|
| DEPARTMENT | OF | THE | INTERIOR |

| | DEPARTMEN | T OF THE I | NTERIOR | | , | | AND OFFICE AND |
|---|---|--------------------|----------------------|-----------|----------------------|---|-----------------|
| GEOLOGICAL SURVEY | | | | | 5. LEASE DESIGNATION | | |
| | GEOLG | GICAL SURV | E.Y | | | SF 07813 | <u> </u> |
| APPLICATIO | N FOR PERMIT | TO DRILL, | DEEPEN, OR | PLUG ! | BACK_ | 6. IF INDIAN, ALLOTTE | E OR TRIBE NAME |
| la. TYPE OF WORK | | | | | | 7. UNIT AGREEMENT M | LAME |
| DF | RILL 🗷 | DEEPEN | | PLUG BA | CK 📙 | 1. CHIL AGREEMENT P | AME |
| b. TYPE OF WELL | GAS [▼] | | SINGLE 🐨 | MULTI | PLE [| S. FARM OR LEASE NA | 34 W |
| WELL | WELL OTHER | | SINGLE ZONE | ZONE | | | |
| 2. NAME OF OPERATOR | | | | | | Sandoval Gas | COM "A" |
| | UCTION COMPANY | | | | | 9. WELL NO. | |
| 3. ADDRESS OF OPERATOR | | | | _ | | la · | |
| | t Drive, Fermin | | | | | 10. FIELD AND POOL, | OR WILDCAT |
| 4. LOCATION OF WELL (At surface | Report location clearly an | d in accordance wi | th any State require | ements.*) | | Blanco Mesav | erde |
| | PML & 1590' PM | L | | | | 11. SEC., T., R., M., OR AND SURVEY OR A | |
| At proposed prod. zo | one | | | | | NE/4 NW/4 Se | |
| ne proposed product | Same | | | | | T-30-N, R-9- | • |
| 14. DISTANCE IN MILES | AND DIRECTION FROM NE. | AREST TOWN OR POS | T OFFICE* | | | 12. COUNTY OR PARISE | 1 13. STATE |
| Approximatel | y 5 miles north | east of Bla | nco, New Me | zico | | San Juan | Hew Mexico |
| 15. DISTANCE FROM PRO- LOCATION TO NEARE | | | 16. NO. OF ACRES | IN LEASE | | F ACRES ASSIGNED HIS WELL | |
| PROPERTY OR LEASE | | 1150' | 320 | | | 320 | • |
| 18. DISTANCE FROM PRO | | | 19. PROPOSED DEP | тн | 20. ROTA | RY OR CABLE TOOLS | |
| OR APPLIED FOR, ON T | DRILLING, COMPLETED, THIS LEASE, FT. | 2025' | 4900* | | | Rotary | |
| 21. ELEVATIONS (Show w | hether DF, RT, GR, etc.) | | | | | 22. APPROX. DATE W | ORK WILL START* |
| 5712' est | . CL | | | | | December | , 1976 |
| 23. | | PROPOSED CASI | NG AND CEMENT | ING PROGE | AM | | |
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER I | COOT SETTI | NG DEPTH | | QUANTITY OF CEME | NT |
| 12-1/4" | new 9-5/8" | 32.34/H-4 | 0 | 250* | | 280 ex | |
| 0 5 / 1 1 | 'ett | 304 /2 1 | | 24£ \$ | | E40 | |

Amoco proposes to drill the above well to prevent drainage caused by offsetting infill drilling. The well will be drilled through the Mesaverde formation using rotary tools with drilling mud as a circulating media from surface to 2825' and with gas as a circulating media from 2825' to TD. The 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 on completion.

The acreage is dedicated to El Paso Natural Cas Company.

DEC 10 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.

| preventer program, if any. | 1 4.7 | |
|--|---------------------|-----------------------|
| signed The Printing execution. | TITLE Area Engineer | DATE December 9, 1976 |
| (This space for Federal or State office use) | | |
| PERMIT NO. | APPROVAL DATE | |
| APPROVED BY | TITLE | DATE |

*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.

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

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

| | | All distances must be | Lease | | | | Well No. |
|---|----------------------------------|--|-------------------------|---------|--------------|--|---------------------------------|
| , arxier | | | | | | | |
| Amoco Production Company Sandoval Gas Col Unit Letter Section Township Range County | | | | | | | |
| _ | | 30 North | 9 We | st | 1 | n Juan | |
| C Actual Footage Loc | 35 ation of Well: | 30 NOT CIT | | | l | | |
| 1150 | | orth line on | 1590 | feet | t from the | West | line |
| Ground Level Elev. | Producing Fo | | Pool | | | D | edicated Acreage: |
| 5712 | Mes | averd e | B1a | nco M | ses averde | | 320 / Acres |
| | Jodina | ited to the subject | well by colored no | encil o | r hachure m | arks on the | nlat helow |
| 1. Outline th | e acreage dedica | ned to the subject | well by colored po | chell o | i nacharo m | direction the | prat Bolow. |
| | nan one lease is nd royalty). | dedicated to the we | ell, outline each a | ınd ide | ntify the ow | vnership the | reof (both as to working |
| | | lifferent ownership is unitization, force-poo | | well, | have the in | terests of a | ll owners been consoli- |
| Yes | □ No If a | nswer is "yes;" type | of consolidation | | | | |
| | | | | | | | |
| If answer | is "no," list the | owners and tract des | scriptions which h | nave ac | ctually been | consolidate | ed. (Use reverse side of |
| this form i | f necessary.) | | | | | | |
| No allowal | ble will be assigr | ed to the well until a | all interests have | been o | consolidate | d (by commi | ınitization, unitization, |
| forced-poo | ling, or otherwise |) or until a non-stand | ard unit, eliminati | ing suc | h interests. | , has been a | pproved by the Commis- |
| sion. | | | | | | | |
| | | | | | | | CERTIFICATION |
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| | 150 | | 1 | | | • | tify that the information con- |
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| | O : I | | Well 1 | | | Destormy F | nowledge and belief. |
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| \D' | | • | l | | | | Montgomery |
| | + - - - | + | | | | | Engineer () |
| | 1 | | | | | Position | |
| | 1 | | 1 | | | AMOCO PI | RODUCTION COMPANY |
| 1 | | | | | | Company | |
| 1 | İ | | j | | | Nove | ember 30, 1976 |
| | 1 | | ļ í | | I 1 | Date | |
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CERTIFICATION SANDOVAL GAS COM "A" NO. 1A 1150' FNL & 1590' FWL, SECTION 35, T-30-N, R-9-W

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.

December 9, 1976

Date

Name and Title

DEVELOPMENT PLAN SANDOVAL GAS COM "A" NO. 1A 1150' FNL & 1590' FWL, SECTION 35, T-30-N, R-9-W SAN JUAN COUNTY, NEW MEXICO

The proposed location has sagebrush, snakeweed, and various herbs and grasses as vegetation. The geological name of the surface formation is the Animas. A new 200' x 20' road will be built to the new location. The new road will tie directly into an existing road. No construction materials will be used for building the location; dirt will be leveled at the well site. No location cut will be required. Verbal approval of the drill site has been obtained from Mr. Bob Moore, BLM; Mr. Ray Swanson, USGS, and Mrs. Nancy S. Hewett, Archaeologist.

Arrangements are being made to haul water from an irrigation ditch, approximately 4 miles. Drilling fluid to 2825' will be a low solids, non-dispersed drilling mud, and the well will be gas drilled from 2825' to TD (4900'). Upon completion the location will be cleaned up and leveled. Drilling mud and water will be hauled away and the reserve pit backfilled. Attached is the BLM seeding plan to be followed for this well. In addition, all surface equipment will be painted green so as to follow BLM requirements.

There are neither airstrips nor camps in the vicinity.

The estimated tops of important geological formations bearing hydrocarbons are:

| Formation | Depth | Elevation |
|-----------------|---------------|-----------|
| Pictured Cliffs | 2430 ¹ | +3295 |
| Cliffhouse | 4020' | +1705' |
| Menefee | 4215 ' | +1510' |
| Point Lookout | 4610 ' | +1115' |

Estimated KB elevation: 5725'

| Est. Depth | Casing Size | Weight | Hole Size | Sacks Cement - Type |
|-----------------------|--------------|--------------|-------------------|---|
| 250 ' 2825' | 9-5/8" 7" | 32.3# 20# | 12-1/4" 8-3/4" | 250 - Class "B", 2% CaCl ₂ . 490 - Class "B", 6% Gel, 2# Med. Tuf Plug/sx. 50 - Class "B", 2% CaCl ₂ . |
| 2625-4900 ' | 4-1/2" | 11# | 6-1/4" | 195 - Class "B", 50:50 Poz, 6% Gel, 2# Med. Tuf Plug/sx, 0.2% friction reducer. 75 - Class "B", 50:50 Poz, 6% Gel. |

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

Amoco plans to run the following logs 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 pressures, temperatures, or hydrogen sulfide gas will be encountered.

Our proposed starting date is in December, 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:

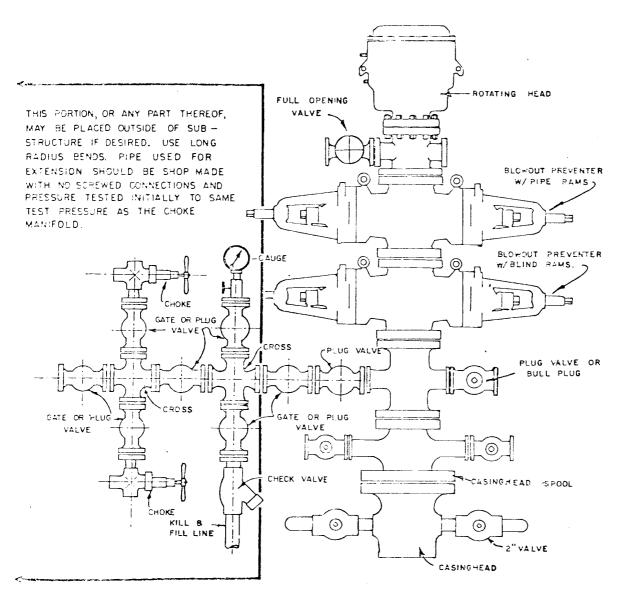
CRESTED WHEATGRASS (Agropyron desertorum) - 3½ lbs.

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

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

WINTERFAT (Eurotia lanata) - ½ lb.

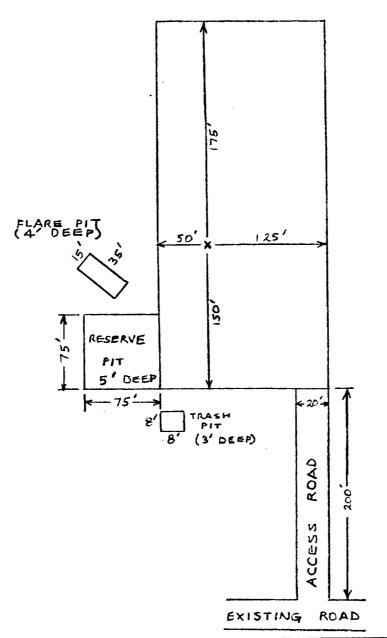
ALKALI SACATON (Sporobolus airoides) - 3/4 lb.



BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4
OCTOBER 16,1969

NORTH



| | SCALE: NONE | |
|------------------|--------------------------------|---------------------|
| LOCATION DIAGRAM | SANDOVAL GAS COM "A" NO. 1A | |
| | WL, SECTION 35, T-30-N , R-9-W | DRG. 12-9-76 NO. |

