SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

| (Other instructions on reverse side) | 30-045-2276 |
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| PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 13-3/4" 9-5/8" 32.36 350° A70 SE Class "B" 8-3/4" 7" 206 2745' 310 SE Class "B" 6-1/4" 4-1/2" 11s 4801° 250 SE Class "B" The above well is being drilled to further develop the Massverde reservoir. The well will be drilled to the intermediate casing point using water and Beneat. The well will then be gas drilled to TD. Completion design will be based on open hole logs. The across is dedicated to El Paso Natural Gas Company. Attached is a Development Plan required by NTI-6. NABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone, and proposed new produce. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give bit reventer program, if any. 1. **ADDVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone, and proposed new productive program, if any. 1. **ADDVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone, and proposed new productive zone, and productive zo | PROPOSED CASING AND CEMENTING PROGRAM SIZE OF ROLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 13-1/4" 9-5/8" 32.38 350' 470 sx Class "B" 20\$ 2745' 310 sx Class "B" 4-1/4" 4-1/2" 119 4801' 250 sx Class "B" The shows well is being drilled to further develop the Masswords reservoir. The well will be drilled to the intermediate casing point using water and lengt. The well will then be gas drilled to TD. Completion design will be based on open hole logs. The acress is dedicated to El Paso Natural Cas Company. Attached is a Development Flam required by NTL-6. NAMOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive some, and proposed new productive representations and measured and true vertical depths. Give bit of the proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give bit of the proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give bit of the proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give bit of the proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give bit of the proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give bit of the proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. APPROVAL DATE DATE DATE DATE DATE DATE DATE DATE | | | 37 4 0. | 4074 | · | | | |
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| The above well is being drilled to further develop the Massverde reservoir. The well will be drilled to the intermediate casing point using water and Benest. The well will then be gas drilled to TD. Completion design will be based on open hole logs. The across is dedicated to El Paso Natural Gas Company. Attached is a Development Plan required by HTL-5. **Anove space describe proposed proceam: If proposal is to deepen or plug back, give data on present productive sone and proposed new product. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blue the proposed for Federal or State office use) **TITLE** **APPROVAL DATE** **DATE** **DATE | The above well is being drilled to further develop the Hoseverde reservoir. The well will be drilled to the intermediate casing point using water and Benex. The well will them be gas drilled to TD. Completion design will be based on open hole logs. The acrossa is dedicated to El Paso Natural Gas Company. Attached is a Development Flam required by NTI-6. NAROVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive some, and proposen new produce. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give by reventer program, if any. TITLE Area Engineer APPROVAL DATE APPROVAL DATE APPROVAL DATE APPROVAL DATE APPROVAL DATE TITLE APPROVAL DATE APPROVAL DATE APPROVAL DATE APPROVAL DATE APPROVAL DATE APPROVAL DATE | | | 32.36 | 3501 | _ | 470 sx Class "B" | | |
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| TITLE Area Engineer (This space for Federal or State office use) PERMIT NO | TITLE AREA BRESINGT (This space for Federal or State office use) PERMIT NO. APPROVED BY CONDITIONS OF APPROVAL, IF ANY: | The above we | all is being di | 11# | 4801* | LDL UDJ | 250 sx Clase "B" orde reservoir. ag water and | | |
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*See Instructions On Reverse Side

THE GROUPING PARTY

inter Wal

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 an 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 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. State or Federal office for specific instructions.

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

| | | VII distances must be | HOM | OF OUTER DOUBLE FIEL OF | the Section. | | | |
|---|------------------|-----------------------|-------|-------------------------|--------------|------------|--------------------|-------|
| Operator | | | Lea | \$e | | | Well No. | |
| Amoco Production Company | | | Н | leath Gas Com | uCu | | lA | |
| Unit Letter | Section | Township | | Range | County | | | |
| N | 31 | 30N | | 9W | San J | uan | | |
| Actual Footage Loc | ation of Well: | | | | | | | |
| 1190 | feet from the | outh line and | 85 | oot 0 | from the | West | line | |
| Ground Level Elev: | Producing For | nation | P∞ | 1 | | | Dedicated Acreage: | |
| 5756 | Mesa Ver | de | | Blanco Mesav | rerde | | 308.56 | Acres |
| 1. Outline th | e acreage dedica | ted to the subject w | ell l | by colored pencil o | r hachure | marks on t | he plat below. | |
| If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 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 | | | | | | | | |
| sion. | | | | | | | | |
| | | | | | | | CERTIFICATION | |

S/2 Sec 30 0 2610. Sec 31

Scale: 1"=20001

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|---|----|---|---|---|---|---|----|
| | | | | | | | |
| | | | | | | | |

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

None /

J. L. KRUPKA

Position

AREA ENGINEER

Compony

AMOCO PRODUCTION COMPANY

SEPTEMBER 21, 1977

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 TILLIN

Date Surveyed September 16, 1977 Registered Professional Engineer

and Land Surveyor

Fred B. Kerr Jr.

Certificate No.

3950

HEATH GAS COM "C" NO. 1A 1190 FSL & 850 FWL, SECTION 31, T-30-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 be best of my knowledge, true |
| and correct; and, that the work associated with the operations proposed herein will be performed by <u>AMOCO PRODUCTION</u> |
| COMPANY and its contractors and sub-contractors in con- |
| formity with this plan and the terms and conditions under which it |
| is approved. |
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| 10/1/77 Area Supt. |
| Date |

Date

DEVELOPMENT PLAN

HEATH GAS COM "C" NO. 1A

1190 FSL x 850 FWL, SECTION 31, T-30-N, R-9-W SAN JUAN COUNTY, NEW MEXICO

The proposed location has sagebrush, some rabbit brush, a few cedar trees, and the soil is very sandy. The geological name of the surface formation is Nacimiento. A new 300' x 20' road will be built to the new location from an existing road that serves the W. D. Heath "B" Well No. 5. Material from high points will be used to level location for proper drilling. No material of any kind will be hauled in. Verbal approval of the drill site has been obtained from Mr. Bob Moore, BLM; Mr. Ray Foster, USGS; and Ms. Dabney Ford, Archaeologist.

Water will be hauled from the Blanco irrigation ditch over existing roads. Drilling fluids to 2745' will be a low solids, non-dispersed drilling mud, and the well will be gas drilled from 2745' to TD (4801'). Upon completion, the location will be cleaned up and leveled. Drilling mud and water will be hauled away and bladed into existing roads. All trash will be covered in trash pit. Drainage ditches will be built along road to location. 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 | 2345' | +3474' |
| Cliffhouse | 3934 ' | +1835' |
| Menefee | 4098' | +1671' |
| Point Lookout | 4539 ' | +1230' |

Estimated KB elevation: 5769*

| EST. DEPTH | CASING SIZE | WEIGHT | HOLE SIZE | SACKS CEMENT - TYPE |
|--------------------|-------------|--------|-----------|---|
| 350' | 9-5/8" | 32.3# | 13-3/4" | 470 - Class "B", 2% CaCl ₂ |
| 2745 ' | 7" | 20# | 8-3/4" | 410 - Class "B", 6% Gel, 2# Med Tuf Plug per sx. 100 - Class "B", 2% CaCl ₂ |
| 2545-4801 ' | 4-1/2" | 11# | 6-1/4" | 150 - Class 'B', 50:50 Poz, 6% Gel, 2# Med Tuf Plug per sx, 0.2% Friction Reducer. 100 - 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 as soon as well is permitted, and a three-week operation is anticipated.

BLM SEEDING REQUIREMENTS IN THE FARMINGTON RESOURCE AREA

- 1. SEED MIXTURE 2
- I. TIME:

All seeding will take place between July 1 and September 15.

EQUIPMENT:

Seeding will be done with a disc-type drill with two boxes for various seed size. 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:

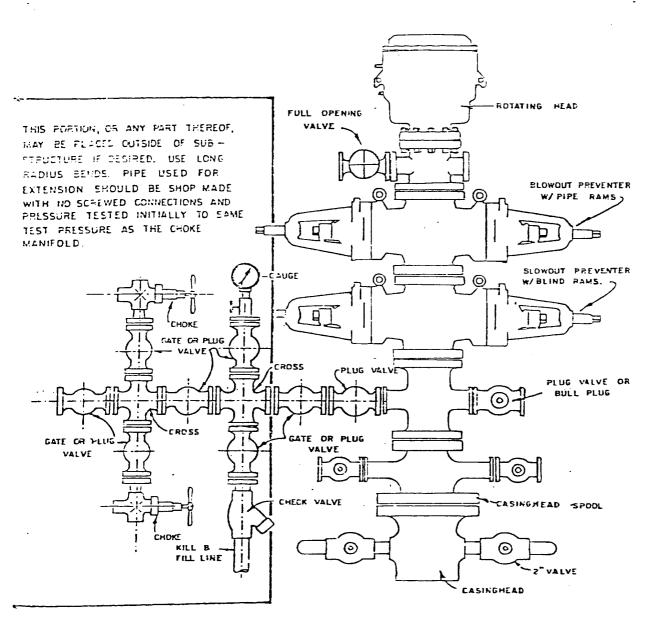
CRESTED WHEATGRASS (Agropyron desertorum) - 34 lbs.

FOURWING SALTBUSH (dewinged) (Atriplex conescens) - 1/2 lb.

SAND DROPSEED (Sporobolus cryptandrus) - 3/4 1L.

WINTERFAT (Eurotia lanata) - ½ lb.

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



BLOWOUT PREVENTER HOOKUP

EXHIBIT D-4
OCTOBER 16,1959

