

Thems 15 and 18: If wall is to be in the control of The transformation of the state However, when the state of the THE STATE STATE OF THE STATE OF Thems 15 and 18: 17 well is to be, or has been directions, or appropriate of accounts and any operations of any appropriate of accounts and 18: 17 well is to be, or has been directions, or appropriate of accounts. General: This form is designed for submitting proposals to local and the submitted for state in the state in the submitted for state in the state in the state in the submitted for state in the state in the state in the submitted for state in the sta

p Ž

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section. Well No. Operator Amoco Production Company Shane Gas Com County Township Section San Juan 29N Actual Footage Location of Well: 1870 West line line and feet from the feet from the Dedicated Acreage; Ground Level Elev: Producing Formation BLANCO MESAVERDE Mesa Verde 5917 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? If answer is "yes," type of consolidation __ Yes 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 Commis-5212,681 CERTIFICATION I hereby certify that the information contained herein is true and complete to the of my knowledge and belief. Name J. L. KRUPKA Position AREA ENGINEER Company AMOCO PRODUCTION COMPANY JULY 19, 1977 I hereby certify that the well location shown on this plat was plotted from field es of actual surveys made by me or 0 under my supervision, and that the same true and correct to the best of my June 29, 1977 Registered Professional Engine Fred B. Yerr Certificate No. 5126.881 3950

SCATE: 7 7=1000 f

SHANE GAS COM NO. 1A 830 FSL & 1870 FWL, SECTION 14, 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 subcontractors in conformity with this plan and the terms and conditions under which it is approved.

JULY 19, 1977

Date

AREA SUPERINTENDENT

Name and Title

DEVELOPMENT PLAN SHANE GAS COM NO. 1A 830 FSL & 1870 FWL, SECTION 14, T-29-N, R-9-W SAN JUAN COUNTY, NEW MEXICO

The proposed location has sage brush and a few cedar trees as vegetation. The soil is sandy. The geological name of the surface formation is the Nacimiento. No new road will be required. 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. Leigh Freeman, USGS; and Ms. Dabney Ford, Archaeologist.

Arrangements are being made to haul water from the San Juan River, approximately 5 miles. Drilling fluid to 2860' will be a water and Benex and the well will be gas drilled from 2860' to TD (5000'). 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	2461'	+3469'
Cliffhouse	4116'	+1814'
Menefee	4294'	+1636'
Point Lookout	4809'	+1211'

Estimated KB elevation: 5930'

EST. DEPTH	CSG. SIZE	WEIGHT	HOLE SIZE	SACKS CEMENT - TYPE
250 ' 2860'	9-5/8" 7"	32.3# 20#	12-1/4" 8-3/4"	265 - Class "B", 2% CaCl ₂ . 500 - Class "B", 6% Gel, 2# Med. Tuf Plug/sx.
2660-5000 '	4-1/2"	10.5#	6-1/4"	50 - Class "B", 2% CaCl ₂ . 200 - 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 blow-out preventer design.

Amoco plans to run the following logs from TD to 2860': Induction-Electric, Density-Gamma Ray. No cores or Drill Stem Tests will be taken.

In the past, drilling in this area has shown that no abnormal pressure, temperatures, or hydrocarbon gas will be encountered.

We will start operation as soon as well is permitted, and a three-week operation is anticipated.

BLM SEEDING REQUIREMENTS IN THE FARMINGTON RESOURCE AREA

- 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:

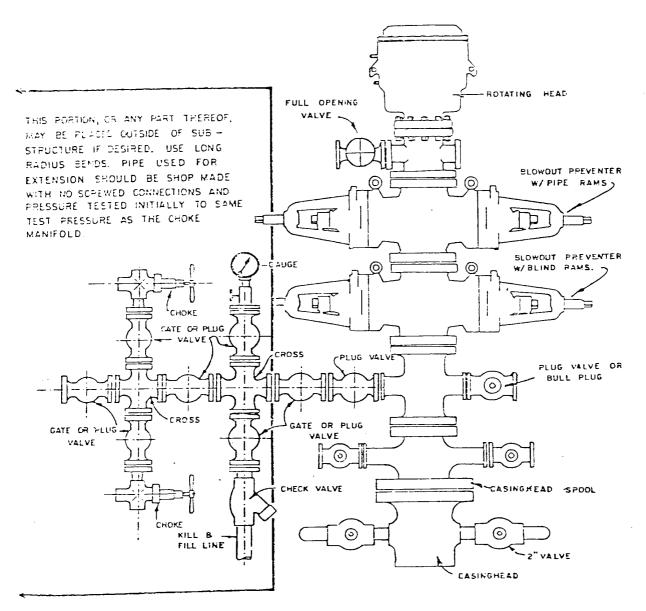
CRESTED WHEATGRASS (Agropyron desertorum) - 34 1bs.

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

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

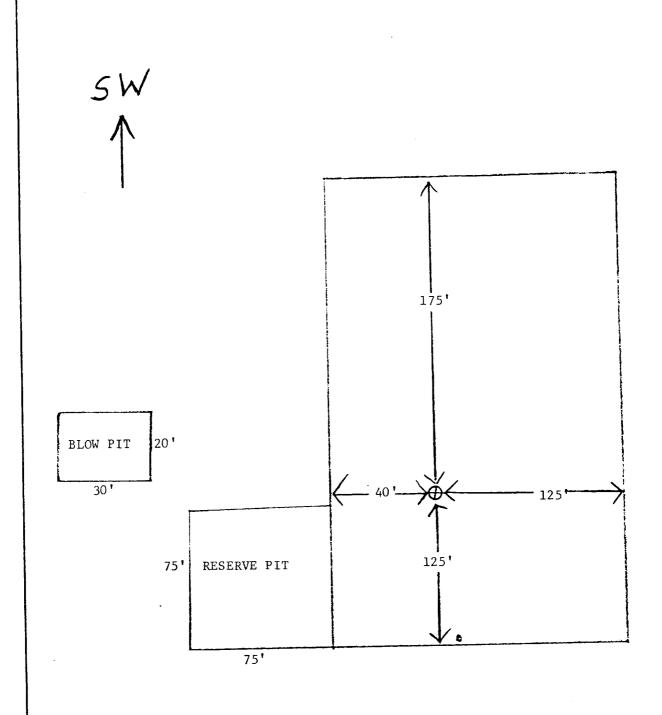
WINTERFAT (Eurotia lanata) - ½ lb.

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

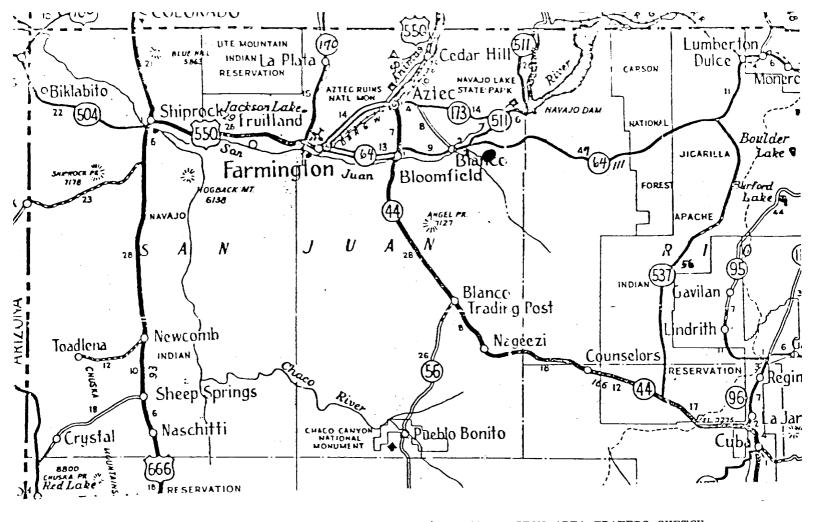


BLOWOUT PREVENTER HOOKUP

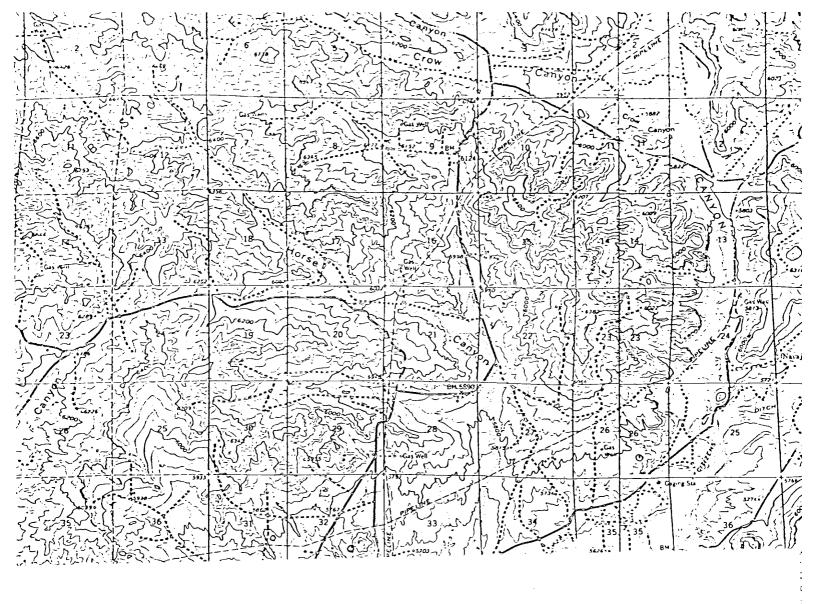
EXHIBIT D-4 OCTOBER 16,196



Amoco Production Company	SCALE:
Location Diagram: Shane Gas Com No. 1A Section 14-T29N-R9W, SE 1/4 SW 1/4, 830' FSL & 1870' FWL	None DRG. NO.



FARMINGTON AREA TRAFFIC SKETCH DENVER DIVISION



SIGNED

PERMIT NO. .

APPROVED BY

Property of the

(This space/for Federal or State office use)

CONDITIONS OF APPROVAL, IF ANY:

SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

30-045-22666

7/19/77

DATE

UNITED STATES DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL NO. GEOLOGICAL SURVEY 6. IF INDIAN, ALLOTTEE OR TRIBE NAME SF077184 APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME PLUG BACK 🗌 DEEPEN . DRILL 🖳 b. TYPE OF WELL MULTIPLE ZONE SINGLE ZONE S. FARM OR LEASE NAME **x** OIL OTHER Shane Cas Con 2. NAME OF OPERATOR 9. WELL NO. AMOCO PRODUCTION COMPANY 3. ADDRESS OF OPERATOR **1**A 10. FIELD AND POOL, OR WILDCAT 501 AIRPORT DRIVE, FARRIENCTON, NH 87401 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Blanco Mesaverde 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 830 FSL & 1870 FWL, Section 14, T-29-N, 8-9-W SE/4 SW/4 Sec. 14 At proposed prod. zone T-29-N R-5-W 12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* NO. OF ACRES ASSIGNED TO THIS WELL 4-1/2 miles east of Blanco, 141.

10. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. M 16. NO. OF ACRES IN LEASE 305.1 830 ¥13. 305.57 (Also to nearest drig. unit line, if any) 20. ROTARY OR CABLE TOOLS DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 1870' 50001 Rotary 22. APPROX. DATE WORK WILL START* 21. ELEVATIONS (Show whether DF, RT, GR, etc.) As soon as permitted 5917' GL 23. PROPOSED CASING AND CEMENTING PROGRAM QUANTITY OF CEMENT WEIGHT PER FOOT SETTING DEPTH SIZE OF CASING SIZE OF HOLE 2501 265 ex 32.3# 9-5/8 12-1/4 497 ax 2860' -3/4" 20# 274 ex 50001 6-1/4" 4-1/2 10.5# The above referenced well is being drilled to further develop the Mesaverde reservoir. The well will be drilled to the intermediate casing point using water and benex. The well will then be goo drilled to TD. Completion design will be based on open hole logs. Attached is a Development The acreage is dedicated to El Paso Natural Gas Company. Plan required by NTL-6. MECHNILL JUL 26 1977 U. S. GEGI COICAL & TOWER on present productive zone and proposed new productive IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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. $\overline{24}$

Area Engineer

APPROVAL DATE

TITLE _

TITLE _

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