

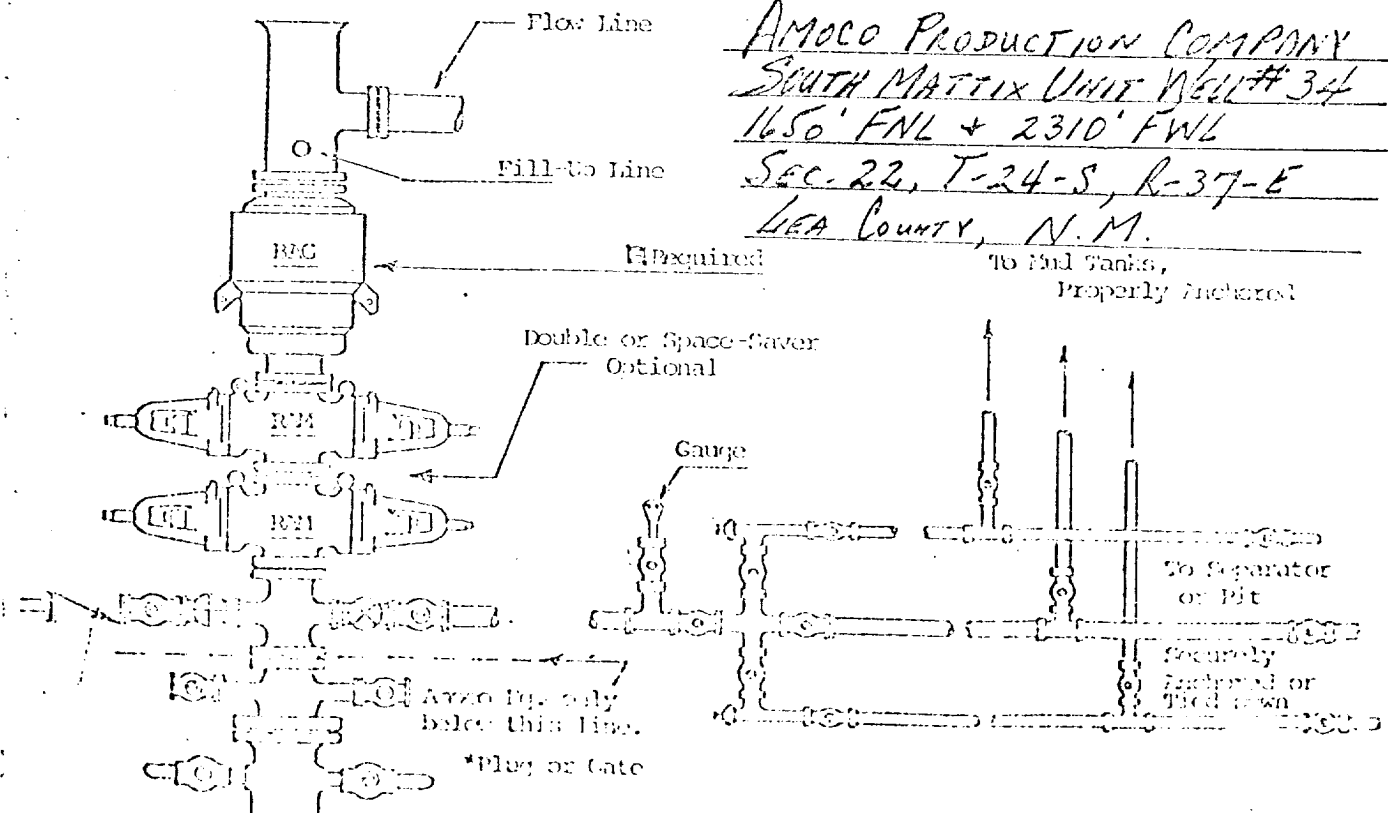
2. BOP'S AND ALL FEATHERS MUST BE IN GOOD CONDITION AND OILED AT 3000 PSI MIN. PINE
3. DEBITENT THROUGH WHICH DEBITENT PASS SHALL BE AT LEAST AS LARGE AS CASING SIZE BEING DRILLED THROUGH.
4. DEBITENT ABOVE BOP'S SHALL BE SAME SIZE AS LAST CASING SIZE.
5. UPPER KILLY COCK IS REQUIRED AND SHALL BE 3000 PSI MIN. PINE.
6. T. I. W. OR CYPERBEE SAFETY VALVE SHALL BE AVAILABLE ON RIG FLOOR WITH CONNECTION OR SUBS TO RUN ANY TOOL JOINT IN THE STRING. VALVE TO BE FULL BORE LOOSE FIT.
7. VALVES NEXT TO SPONG SHALL BE 4". OTHER EQUIPMENT MAY BE 3" OR 4". ALL CROSS MANIFOLD EQUIPMENT SHALL BE RANGED. FLOW LINE FROM MANIFOLD TO BE MINIMUM OF 3" AND STRENGTH AS POSSIBLE WITH MINIMUM BENDS.
8. FLOW LINES FROM ACCUMULATOR TO BOP'S AND ALL BEFORE CONTROL FLOW LINES SHALL BE STEEL, AND RATED AT OR ABOVE MAXIMUM ACCUMULATOR PRESSURE. LINES SHALL BE ROUTED IN BUNDLES AND ADEQUATELY PROTECTED FROM DAMAGE.
9. USE RY'S IN FOLLOWING POSITIONS:*

	DRILLING	RUNNING CASING
UPPER RM	DRILL PIPE	CASING
LOWER RM	BLIND	BLIND

*AMOCO AREA SUPT. MAY VARY LOCATION OF RY'S.

10. CROSS MANIFOLD, BEYOND SECOND VALVE FROM CROSS MAY BE OPTIONALLY POSITIONED OUTSIDE OF SUBSTRUCTURE.
11. EXTENSIONS AND HANG WHEELS TO BE INSTALLED AND PLACED AT ALL TIMES.
12. TWO INCH (2") LINES AND VALVES ARE PERMITTED ON THE KILL LINE.

NOTE: ALL UNRATED VALVES MAY BE PLUG OR GATE VALVE, INSTALLED TO RETAIN SEAL.



Attachment to "Application for Permit to Drill", Form 9-331 C

South Mattix Unit Well No. 34, Unit F, 1650' FNL x 2310' FWL, Sec. 22
T-24-S, R-37-E, Lea County, New Mexico

1. Location

See attached Form C-102

2. Elevation

See attached Form C-102

3. Geologic name of surface formation.

Ogallala.

4. Type of drilling tools and associated equipment to be utilized.

See Form 9-331 C

5. Proposed drilling depth.

See Form 9-331 C

6. Estimated tops of important geologic markers.

Rustler 1030' Upper Yeso 5280'
Upper Paddock 4910'

7. Estimated depths at which anticipated water, oil, gas or other mineral-bearing formations are expected to be encountered.

Upper Paddock 4910'

8. Proposed casing program, including size, grade, and weight of each string and whether it is new or used.

<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>New or Used</u>
1050'	8 5/8"	24#	K-55 ST & C	New
6100'	5 1/2"	14-15.5#	K-55 ST & C	New

9. Proposed cementing program.

8 5/8" Casing - Sufficient cement to circulate to surface.
5 1/2" Casing - Sufficient cement to circulate to surface.

10. Blowout Preventer Program is attached.
11. Type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling, and the quantities and types of mud and weighting material to be maintained.
- Surf to 1050' - Native mud x fresh water.
1050' - 6100' - Brine water, native mud and sufficient commercial mud to maintain good hole conditions.
12. Testing, logging and coring programs to be followed with provisions made for required flexibility.
- 0' - 6100' Gamma Ray w/caliper, CNL.
0' - 6100' FDC.
0' - 6100' DLL w/Micro SFL.
13. Any anticipated abnormal pressure or temperatures expected to be encountered or potential hazards, such as hydrogen sulfide gas, along with plans for mitigating such hazards.
- None anticipated.
14. Anticipated starting date and duration of operation.
- | <u>Start</u> | <u>Finish</u> |
|------------------|-------------------|
| October 5, 1978. | November 5, 1978. |
15. Other facets of the proposed operation operator wishes to point out for the Geological Survey's consideration of the application.
- None.

ATTACHMENT TO FORM 9-331C

APPLICATION FOR PERMIT TO DRILL

LEASE South Mattix Unit WELL NO. 34
LOCATION Unit F, Sec. 22, T-24-S, R-37-E
POOL Fowler (Upper Paddock)
COUNTY Lea County, New Mexico

The undersigned hereby states that Amoco's representative, Mr. E.E. Pauley, personally contacted (Mrs. B.J. Doom) J.J. Smith, Jal, NM, the owner/lessee of the surface land where the proposed work is to be conducted and advised him of the proposed work, the construction site and pertinent roads included in the project. It is further stated that, upon being fully advised of the extent of the work and the effect upon the surface, said owner has consented to the said work and that agreement as to the compensation for damages to the surface estate has been reached.

If the well is a producer, all pits will be cut, filled and leveled as soon as practical after the pits are dry. If the well is a dry hole, pits will be filled as above, a dry hole marker will be installed, and the location and pad will remain intact.



D.R. Couch
Administrative Analyst (SG)

9-15-78

Date

Proposed Development Plan for Surface Use

Amoco Production Company's South Mattix Unit Well No. 34, Unit F, 1650' FNL x 2310' FWL, Sec. 22, T-24-S, R-37-E, Lea County - (Development Well).

1. Existing roads including location of exit from main highway.

Detailed map showing drillsite location in relation to the nearest town and all existing roads within one mile of the wellsite are shown on Exhibit A. From Jal, go north on Highway 18 six miles to Jal Cooper Cemetery turnoff. Turn east on caliche road and go 2.2 miles, and south on dirt road .2 miles. See Exhibit A.

2. Planned access roads.

No new road required.

3. Location of existing wells.

All existing wells within one mile radius are shown on Exhibit C.

4. Location of tank batteries and flow lines.

Well will be tied into existing facilities.

5. Location and type of water supply.

Fresh and brine water will be hauled by Commercial Hauler from Eunice, NM.

6. Source of construction materials.

Caliche will be obtained from an existing pit located approximately 2½ miles NW of location. (SW/4 of NW/4, Sec. 17, T-24-S, R-37-E). See Exhibit C.

7. WASTE DISPOSAL -

- a. Drill cuttings will be disposed of in the reserve pit.
- b. Drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry.

- c. Trash, waste paper, garbage and junk will be burned or buried with a minimum of 24" cover. Waste material will be contained to prevent scattering by wind prior to ultimate disposal.
- d. Any produced water will be contained in tanks and be disposed of in an approved manner. Oil produced will be stored in tanks until sold, at which time it will be hauled from location.
- e. Current laws and regulations pertaining to disposal of human waste will be complied with.
- f. If productive, maintenance waste will be placed in special containers and buried or hauled away periodically.

8. ANCILLARY FACILITIES -

No camps, airstrips, etc. will be constructed.

9. WELLSITE LAYOUT -

- a. Size of Drilling Pad - 150' x 220' x 6"
- b. Compacted - Caliche
- c. Surfaced - No.
- d. 450' square area around wellsite has been cleared by archaeologist.
- e. See Exhibit D.

10. RESTORATION OF SURFACE -

Producing Well - all pits will be cut, filled, and leveled as soon as practical to original condition with rehabilitation to commence following removal of drilling and completion equipment. Rehabilitation to be completed in 180 days if possible.

Dry Hole - same as above with dry hole marker to be installed and surface reseeded if required.

11. OTHER INFORMATION -

- a. Terrain - relatively flat.
- b. Soil - Hard and rocky.
- c. Vegetation - sparse - mesquite, broom snakeweed, cactus, and various grasses.
- d. Surface Use - grazing. (See Archaeological Report Attached)
- e. Ponds and Streams - None.
- f. Water Wells - None.
- g. Residences and Buildings - None.
- h. Arroyos, Canyons, etc. - None.
- i. Well Sign - Posted at drillsite.
- j. Open Pits - All pits containing liquid or mud will be fenced.
- k. Archaeological Resources - Drillsite, which is in nearly flat, semi-arid, desert country, is in a low environmental risk area. The total effect of drilling and producing in this area would be minimal. No known archaeological, historical, or cultural sites exist in the drill or road areas.

12. OPERATOR'S REPRESENTATIVE -

Field personnel responsible for compliance with development plan for surface use is:

J. H. Hankins, Senior Drilling Foreman
P. O. Drawer "A"
Levelland, TX 79336
Office Phone: 806-891-3103

LEASE & WELL NUMBER South Mattix Unit Well N-. 34
LOCATION Unit F, 1650' FNL X 2310' FWL, Sec. 22, T-24-S, R-37-E, Lea County

Certification: The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

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.

9-15-78
DATE

J.H. Hawkins Sr. Drlg. Foreman
NAME AND TITLE