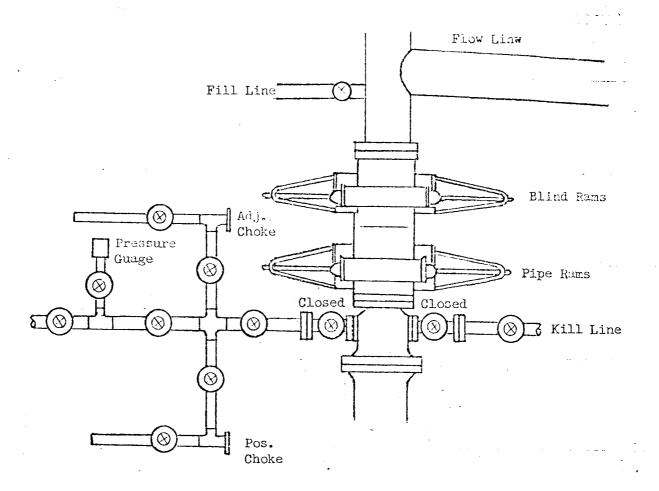
| DEPARTMEN | T OF THE INTERIOR | 5. LEANE DENIGNATION AND BERIAL NO. SF-079511-A |
|--|---|---|
| APPLICATION FOR PERMIT | TO DRILL, DEEPEN, OR PLUG BACK | 6. IF INDIAN, ALLOTTER OR TRIBE NAME |
| 11, 2.00 11, 0.10 10, 10, 10, 10, 10, 10, 10, 10, 10, 1 | TO SHIELD BLOCK | |
| DRILL D | DEEPEN [] PLUG BACK [] | 7. UNIT AGREEMENT NAME |
| OIL CAR WELL OTHER 2. NAME OF OPERATOR | NINGLE MULTIPLE ZONE ZONE | 8. FARM OR LEASE NAME Archuleta |
| TENNECO OIL COMPANY 3. ADDRESS OF OTERATOR | | 9. WELL NO #1A |
| 1860 Lincoln St., Suite 120 4. Location of West (Report location clearly and At Surface | 00, Denver, Colorado 80295 | 10. MIRLD AND POOL OR WILDCAT Blanco Mesa Verde 11. SEC., T., R., M., OR BLK. |
| At proposed prod. zone 2134 FNL | AND SURVEY OR AREA | |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEA 1/2 MI. NW of Archuleta, N.M. | REST TOWN OR FOST OFFICE. Stake is 200' North of road. | Sec.19, T30N, R8 W |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST | 16. NO. OF ACRES IN LEASE 17. NO. TO | San Juan New Mexico OF ACRES ASSIGNED 342.54 |
| PROPERTY OR LEASE LINE, FT. (Also to dearest delg. unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, | | /2 of Sec. 19, NW/4 of Sec. 30 |
| or applied for, on this lease, ft. 21. Elevations (Show whether DF, RT, GR, etc.) | +5013' R | Otary 22. APPROX. DATE WORK WILL START* |
| 5747' GL | PROPOSED CASING AND CEMENTING PROGRAM | June 12, 1977 |
| SIZE OF HOLE SIZE OF CASING | WEIGHT PER FOOT SETTING DEPTH | QUANTITY OF CEMENT |
| 12-1/4" 9-5/8" 8-3/4" 7" | | to circulate to surface to cement to surface csq. |
| 6-1/8" 4-1/2" | 10.5# ± 2688'-5013' Suff | . to cement to 7" csg. |
| - The geologic name of this sur | rface formation is (San Jose Eocene/ | NAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX |
| &3Formation Tops (Estimated) | 0.400 | |
| Pictured Cliffs Cliff House | + 2,488 'Possible oil o + 4,213 'Possible oil o | |
| Menefee Point Lookout | + 4,293 'Possible oil o + 4,668 'Possible oil o + 4,893 ' | r gas producer |
| Mancos Shale | + 4,893 | r gas producer |
| new casing to + 2988 ' and cir | ng to ±200' and circulate cement to rculate cement up through the 9-5/8" csg. to T.D. and circulate cement b series w/a 3000 psi. rating. | csq. Run a 4½" csq. liner |
| size drill pipe in the hole. | ic, double ram, 10". One set of ram One set of blind rams at all times f line will be 2" with variable chok | . Fill line will be 2", kill |
| - We will use; spud mud from 0-conditions from +200'-+2988; | -+200'; Gel Chemical w/low solids as Compressed gas from +2988'to T.D | needed to maintain good hole |
| c. Mud monitoring will be v | se at all times. rill pipe will be present on floor a visual, no abnormal pressures are an sed when drilling with gas. | t all times. COM. ticipa bed in this area |
| | the completion of this well. No co will be run. Any other evaluation 1 be conducted as needed. | |
| No abnormal pressures or tempequipment. | peratures are anticipated. See poin | t #5 for blowout prevention |
| D-The drilling of this well wil Southern Union Gathering Co. | ll take approximately eight days. T | he gas is contracted to |
| IN ABOVE SPACE DESCRIBE PROFOSED PROGRAM: If zone. If proposal is to drill or deepen directions preventer program, if any. | proposal is to deepen or plug back, give data on present pro ally, give pertinent data on subsurface locations and measur | oductive zone and proposed new productive ed and true vertical depths. Give blowout |
| BIGHED AND MILES | Div. Production Manage | ** ** RECEIVED |
| (This space for Federal or State office use) | | APR 1 8 1977 |
| PERMIT NO. | APPROVAL DATE | |
| CONDITIONS OF APPROVAL, IF ANY: | TITLE | BULLS. GEOLOGICAL |



All valves 2"

All BOPs, flanges, spools, valves, & lines must be series 900 or 3000 psi working press.

Choke manifold must be at ground level and extended out from under substructure.

TENNECO OIL COMPANY

REQUIRED MINIMUM BLOWOUT PREVENTOR

HOOKUP

Denver, Colorado

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

| | | All distances must be f | rom the outer boundaries | of the Section | |
|--|---|---------------------------|--------------------------|-----------------------|--|
| Operator | | | Leas e | | Well No |
| TENNE | CO OIL COM | IPANY | ARCHULET | ra | 1-A |
| Unit Letter | Section | Township | Range | Coun'y | |
| F | 19 | 30 NORTH | 8 WEST | SAN JUAN | |
| Actual Footage Loc 2134 | otion of Well: feet from the | NORTH line and | 1641 16 | , | line |
| Ground Level Elev. | Producing F | ormation | Pool | / | Dedicated Avereage: |
| 5747 | Blanco | o Mesa Verde | Blanco Mes | a Verde | 337.30^cres |
| 2. If more the interest and ro3. If more the by communitize | on one lease is d yalty); on one lease of d ation, unitization | edicated to the well, out | line each and ident | ify the ownership the | NW/4 of Sec. 19 NW/4 of Sec. 30 reof (both as to working I cwners been consolidated |
| necessary.) No allowable v | vill be assigned to | | s have been consolic | dated (by communitiz | ation, unitization, forced- y the Commission. |
| | | | • • • | CE | RTIFICATION |

N8705W N8705W SS. 53CA N8705W N8705W N8705W N8705W N8705W

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

Production And Nature Company
Tenneco Ova Company
Dote
April 12 3977 1463

I hereby certify but the well location shown on this plat was plotted from food hotoc-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

Registrates Professional Engineer
and/or Land Surveyor

James P. Leese
1463
Cettikate No

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-192 Supersedes C-128 Effective 1-1-55

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

| Operator | | | Lease | | Well No. |
|-----------------------------|--|--|--|--|--|
| • | il Company | | Archuleta | | 1A |
| Unit Letter F | Section 19 | Township 30 North | Range 8 West | San Juan | |
| Actual Footage Loca 2134 | | orth line and | | t from the West | line |
| Ground Level Elev: 5747 | Producing Form | Mesa Verde | Blanco Mesa V | erde / | Dedicated Acresge: 342.54 Acres |
| | | ted to the subject we dedicated to the well | | | ne plat below. W/2 of Sec NW/4 of Sec hereof (both as to working |
| 3. If more tha | id royalty). in one lease of d ommunitization, u | ifferent ownership is o nitization, force-pooli | dedicated to the well, | have the interests of | all owners been consoli- |
| X Yes | No If an | nswer is "yes," type o | f consolidation Com | munitization | · |
| this form i | f necessary.) ble will be assign ling.or otherwise) | ed to the well until all or until a non-standar | interests have been d unit, eliminating suc | consolidated (by con | nmunitization, unitization, approved by the Commis- |
| 17.7/5 | N8793 | 38.75C | <i>f.</i> | I hereby | CERTIFICATION certify that the information con- erein is true and complete to the ny knowledge and belief. |
| 82.08 | 1641 | .19 | 15.02/1 | Company | duction Analyst o Oil Company |
| W.8503/ | 301, 22.79 | - + | 1007.85 m.//0/N | shown o notes o under m is true | y certify that the well location in this plat was plotted from field foctual surveys made by me or y supervision, and that the same and correct to the best of my lige and belief. |
| | N8785W | NSSE | 5'W 38,62Ch, | l - | eyed d Professional Engineer nd Surveyor |
| | in in the second se | | OIL CI | Certificat | e No. |

Existing Roads: 1. See surveyors plat for actual staking. a. The well site is located approximately ½ mile NW of Archuleta, N.M. b. See Exhibit "B" for access roads. С. d. Not applicable See Exhibit "B" for one mile radius road map.
Plan to construct 100 ' of 14' wide road to well site. We will construct water bars where necessary, and slope road through all arroyos. е. f. Planned Access Roads: See Exhibit "B". a. Width=14' b. С. No turnouts. Drainage=Water bars will be constructed where required to prevent erosion. d. Road will be cut into any arroyos and sloped across the bottom to maintain normal е. drainage. Cuts or fills will be kept to a minimum. f. No gates or cattle guards are needed. Road is center line flagged. g. Location of Existing Wells.

a. See Exhibits "B" and "C" for well locations. 3. Location of Existing and/or Proposed Facilities.

a. See Exhibit "B" and "C". Lines are buried. This is expected to be a dry gas well. If condensate is encountered, a 300 bbl b. steel tank painted green to match the surrounding area, will be set on a gravel base near the well as shown on Exhibit "A". A dirt bank will be erected around thank to contain any spills. The possible spill area will be fenced. If well is productive, pits will be backfilled, leveled and reseeded as soon as с. practical to original contours. Location and type of Water Supply 5. Water will be hauled from the San Juan River, or El Paso water wells. a. Trucks will be used to haul water. Ь. c. No water well will be drilled. Source of Construction Materials 5. No construction materials will be used. Surface soil will be stockpiled. a. We will not be getting any construction materials from Federal or Indian lands. ь. No construction materials will be used. c. No access roads for construction materials will be needed. d. Methods for Handling Waste Disposal 7. Cuttings will be disposed of in the reserve pit. a. Drilling fluids and produced water will be collected in the reserve pit and b&c hauled away to an approved disposal system or a separate disposal application will be submitted. Any produced oil will be run to the tank (see 4:8) All detrimental waste will be hauled away, burned or buried with a minimum d&e cover of 24" of dirt. After the rig moves out, See 4:C. If unproductive, a dry hole marker will be f. installed and all pits will be filled, leveled and entire location reseeded to your specifications. Roads will be leveled and reseeded. **Ancillary Facilities** 3. No camps or airstrips will be needed in the drilling of this well. Well Site Layout. See Exhibit "A". a. Pits will be unlined. h. Plans for Restoration of Surface. 10. See 4:C and 7:A-F BLE SEEDING REQUIREMENTS IN THE FAR-HINGTON RESOURCE AREA We will use seed mixture (XX, 2). A disc-type drill set for 8"-10" rows with two boxes for various seed sizes will used. The seed will drilled on the contour not less than $\frac{1}{2}$

JUNITION OUT TELE

deep or more than 1" deep, followed by a drag, packer, or roller to compact and cover the seed adequately. Where slopes are to steep for contour drilling, a "cyclone" hand seeder or similar broadcast needer will be used. Seed will then be covered by whatever means are practical. The following species in lbs. pure-live-seed per acre will used:

SEED MIXTURE 1

SPECIES

SEED MIXTURE 2

2-\frac{1}{2} lbs.

Smooth Brome (Bromus inermis)

1 lb.

Nomed Alfalfa (Medicago sitiva)

1 lb.

Fourwing Sulthush (devinged) (Atripley conescens)

1 lb. Nomad Alfalfa (Medicago sitiva)

½ lb. Fourwing Saltbush (devinged) (Atriplex conescens)

2-½ lbs. Crested Wheatgrass (Agropyron desertorum)

Sand Dropseed (Sporobolus cryptandrus)

Winterfat (Eurotia lanata)

Alkali Sacaton (Sporobolus airoides)

Alkali Sacaton (Sporobolus airoides)

Prior to rig release, pits will be fenced and so maintained until clean up. С.

d. If any oil is on the pit, it will be removed or flagged.

- Rehabilitation operations will be done during the best weather conditions to e. promote regrowth in area. All seeding will take place weeken says a and Sept.
- 11. Other information.
 - Site is located at the base of big cliff W/sand for soil The vegetation is predominately Juniper with almost no grass.

The surface possibly used by wildlife. b.

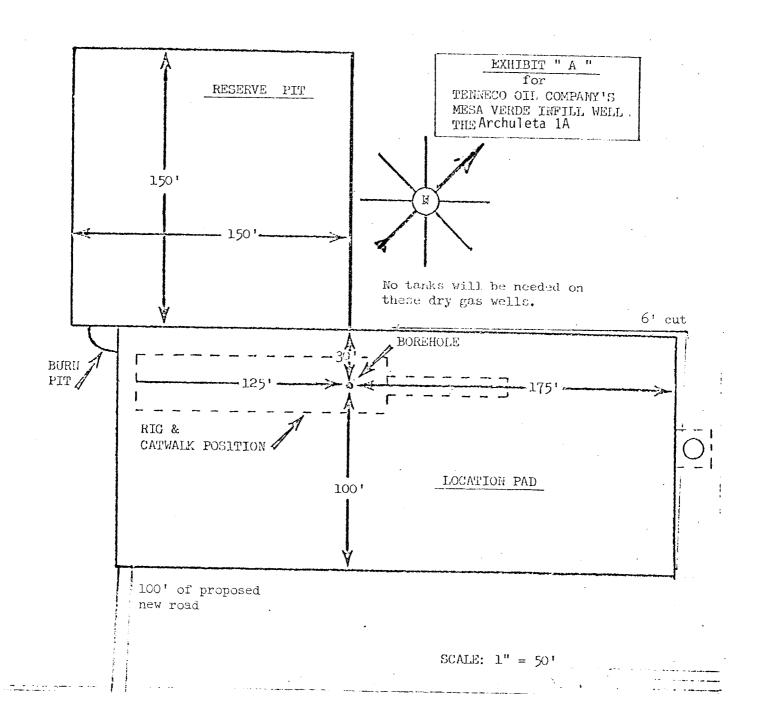
- No open water, occupied dwellings, archaeological, historical or cultural sites С. will be disturbed by this location.
- 12-
- Operator's Representative.

 a. Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows: Darrell Brown, 1860 Lincoln, Suite 1200, Denver, Colorado 80295 Office=303-292-9920 ext. 254 Home=303-771-8297
- 13-Certification.

I hereby certify that I, or persons under my direct supervision, have inspected. the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Tenneco Oil Company and its contractors and sub-contractors will conform to this plan.

-16-77 Date

D.E. Brown Division Drilling Engineer





DIRECTOR JOE D. RAMEY

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO 1000 RIO BRAZOS RD. - AZTEC

87410

LAND COMMISSIONER PHIL R. LUCERO

April 22, 1977



STATE GEOLOGIST EMERY C. ARNOLD

Mr, Ted Drake Tenneco Oil Company Suite 1200 Lincoln Tower Bldg. Denver, Colorado 80295

Re: Form C-102

Dear Ted:

Please file in duplicate form C-102 for Tenneco's Archuleta #1A and Florance #27A wells.

Outline the dedicated acreage as per instruction one,

The acreage currently assigned to the Archuleta #1 is 342.54 acres, being the #1 Section 19 and \$1 Section 30.

These plats for acreage dedication only do not need the surveyor's certification.

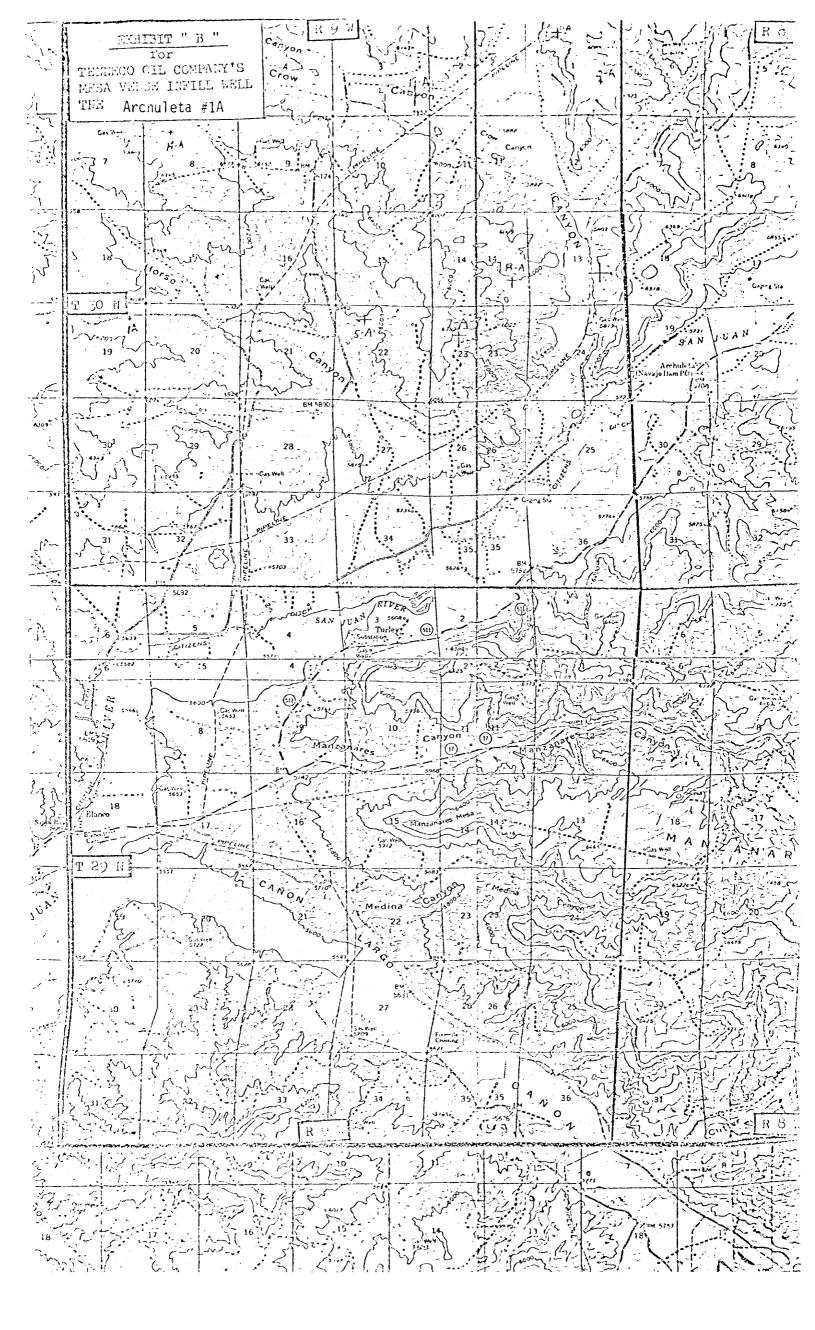
If there are questions, please call.

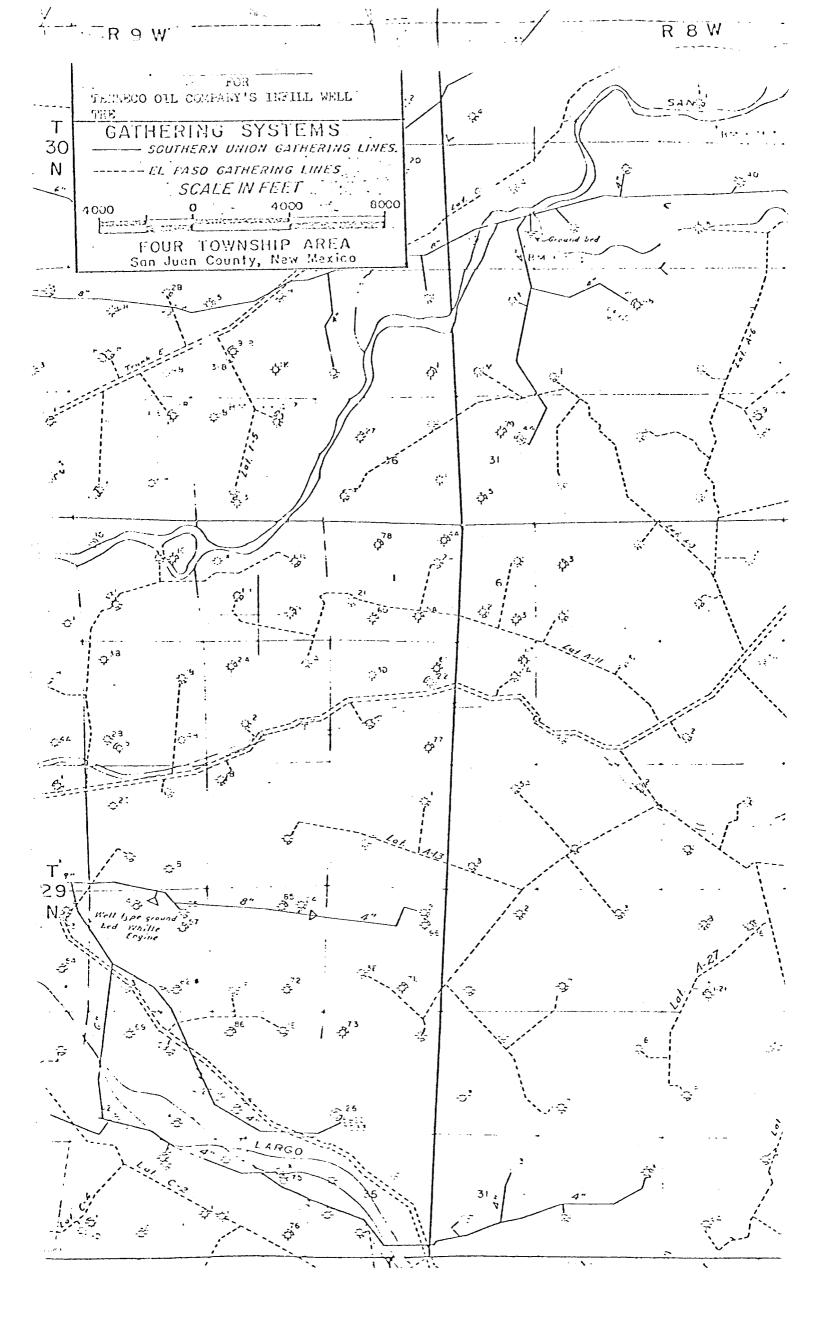
Yours very truly,

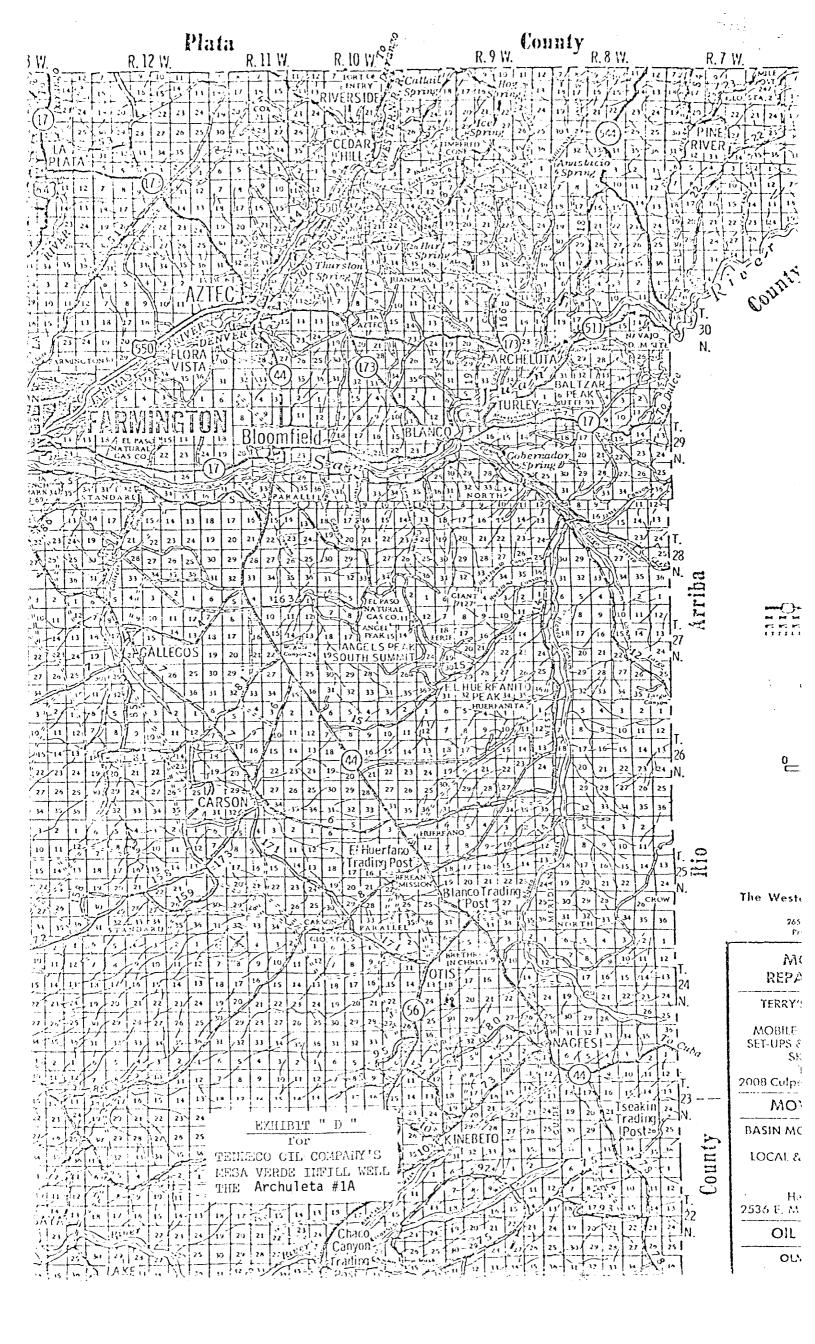
A. R. Kendrick

Supervisor, District #3

ARK:mc









DEPARTMENT OF THE INTERIOR UNITED STATES

To All Operators:

Effective July 1, 1975, to comply with MTL-6, all operators drilling upon federally supervised lands shall provide the following information Plug Back: on or with Form y-3310, "Application for Permit to brill, Deepen, or

- The geologic name of the surface formation.
- The estimated tops of important geologic markers.
- other mineral-bearing formations are expected to be encountered. The estimated depths at which anticipated water, oil, gas, or
- The proposed casing program, including the size, grade, and
- <u>ۍ</u> weight-per-foot of each string and whether new or used. The lessee's or operator's minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, pressure matings (or API series), and the testing procedures and testing frequency. redium or mediums to be employed for rotary drilling and The type and characteristics of the proposed circulating
- be stabbed into drill pipe when the kelly is not in the The auxiliary equipment to be used, such as (1) kelly cocks, (2) floats at the pit, (3) monitoring equipment on the mud system, (4) a sub on the floor with a full opening valve to 25,1103

the quantities and types of mud and weighting material to

be maintaines.

٠ ç: The testing, logging, and coming programs to be followed with provision made for required flexibility. And coming an improvision made for required flexibility. And content of the comparatures expected in the community and comparatures of the community of the co

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- ö The anticipated starting date and duration of the operations gos, along with plans for miticating such hazards.

Northern Rocky Mountain Area Checksheet inn NTL-6 Northbeint Recurrements to Accompany APO

- Existing mands a legible map showing: Proposed well site as staked. (Actual staking should include two each 200-foot directional inference stakes.)
 Foute and distance from mearest town or locatable reference
- ຸຕ point to where well access route leaves main road.
- ទ ព Access road(s) to location color-coded or labeled.
- If development well, all existing roads within a 1-mile radius If exploratory well, all existing moads within a 3-mile radius (including type of surface, conditions, etc.).

?

5. Plans for improvement and/or maintenance of existing roads.

of well site.

Planned fecess Poads Man showing all necessary access roads to be constructed

- (f) Onstructed, showing:
 (2) Paximum grades
 (3) Tunnouts
 (4) Onathage design
 (5) Destroy and size of
- Location and size of culverts and brief description of any major outs and fills
- 838 Surfacing material
- constany gathor, cattleguerds, on fence cuts
 (lew on reconstructed roads are to be center-line flagged
 of them of line flagged.)

۳ Location of Existing Wells

development well, showing and identifying existing: Two-mile radius map if exploratory, or 1-mile radius map if

- Water wells
- Tempore by abandoned wells Disposal wells Orilling wells Abandoned wells

- Producing wells
- Shut-in wells
- Injection wells
- Monitoring or observation wells for other resources

۶ Location of Existing and/or Promosed Facilities

•

- Within 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator: Tank batteries
- Production facilities
- (2) Production facilities
 (3) Oil gathering lines
 (4) Gas gathering lines
 (5) Injection lines
 (6) Disposal lines
- 8 (Indicate if any of the above lines are buried.) If new facilities are contemplated, in the event of production,
- \exists
- Proposed location and attendant lines off of well pad by flagging if
- Dimensions of facilities
- (2) Protrective measures and devices to protect livestock Construction methods and materials
- Plan for rehabilitation of disturbed areas no longer needed and wildlife
- Location and Type of Water Supply for operations after construction completed.

<u>ب</u>

- A. 'Show location and type of water supply either on map or by written description.
- State method of transporting water, and show any roads or pipelines needed.
- potential hydrocarbon horizons.) If water well is to be drilled on lease, so state. (No APD for water well necessary, however, unless it will penetrate

<u>...</u>

7

Source of Construction Materials
A. Show information either on map or by written description.

•

- : Describe where materials, such as sand, gravel, stone, and Identify if from Federal or Indian land.
- under item Show any needed access roads crossing Federal or Indian lands

soil material, are to be obtained and used.

- Methods for Handling Waste Disposal
- Describe methods and location of proposed containment and disposal of waste material, including:
- 1) \ Sewage (2) Drilling fluids (3) . Produced fluids (oil, water)
- "Garbage and other waste material (Trash pits should be trash before being burned or buried.) fenced with small mesh wire to prevent wind scattering
- 6) Statement regarding proper cleanup of well site area

: Ancillary Lucilities

:=

center and directrib center lines to be staked on the ground.) location, area required, and construction methods. Identify all proposed camps and airstrips on a map as to their Site Layout

A plat (not less than 1" = 50') showing:

- Cross sections of drill pad with cuts and fills Location of mod tunks, reserve, lurn and trush pits, preacks, living facilities, and soil material stockpiles pipe
- Rig orientation, purking areas, and access roads
 Statement as to whether pits are to be lined or unlined.
 (Approval as used in this section means field approval of location. All necessary staking of facilities may be done at time of field inspection. A registered surveyor is not mandatory for title operations.)

for Restoration of Surface

<u>.</u>

State restriction progrem upon completion of operations,

- including:
 (1) Backfilling, leveling, contouring, and waste disposal; segregation of spoils materials as needed
- (2). Revegetation and rehabilitation including access roads (normally per BLM recommendations)
- (3). Prior to rig release, pits will be fenced and so maintained until cleanup
- (4) If oil on pit, remove oil or install overhead flagging(5). Timetable for commencement and completion of rehabilitation operations

Ξ. Other Information

- General description of:
- $\widehat{\Xi}$ and funa Topography, soil characteristics, geologic features, flora
- (2) Other surface-use activities and surface ownership of all
- Proximity of water, occupied dwellings, archeological, historical or cultural sites involved lands
- surface use and operations plan. tive who is respensible for assuring compliance with the approved lessee's or openator's representative. Include the name, address, and phone number of the lessee's or operator's field representa-
- <u>Certification</u>. 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 The following statement is to be incorporated

am familiar with the conditions as they uctually exist; that the statements made in this plan are, to the best of my knowledge, I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I true and correct; and that the proposed work performed by

to this plan. contractors and sub-contractors will conform

hame and Title

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