

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE  WATER SANDS \_\_\_\_\_ LOCATION INSPECTED GAS SUB. REPORT/abd. \_\_\_\_\_

\* Location Abandoned - well never drilled - 5-21-82

DATE FILED 2-6-81  
 LAND: FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. U-10152-A INDIAN \_\_\_\_\_

DRILLING APPROVED: 2-11-81

SPUDDED IN: \_\_\_\_\_  
 COMPLETED: \_\_\_\_\_ PUT TO PRODUCING: \_\_\_\_\_

INITIAL PRODUCTION: \_\_\_\_\_

GRAVITY A.P.I. \_\_\_\_\_

GOR: \_\_\_\_\_

PRODUCING ZONES: \_\_\_\_\_

TOTAL DEPTH: \_\_\_\_\_

WELL ELEVATION: \_\_\_\_\_

DATE ABANDONED: LA 5-21-82

FIELD: WILDCAT 796

UNIT: MIDDLE CANYON

COUNTY: GRAND

WELL NO. MIDDLE CANYON UNIT USA #27-12 API NO. 43-019-30776

LOCATION 2052 FT. FROM XX (S) LINE. 264 FT. FROM X (W) LINE. NW SW 1/4 - 1/4 SEC. 27

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
				16S	24E	27	TENNECO OIL COMPANY



# United States Department of the Interior

IN REPLY REFER TO  
3100  
(U-603)

BUREAU OF LAND MANAGEMENT  
Moab District  
Grand Resource Area  
P.O. Box M  
Moab, Utah 84532

Oct. 16, 1980

M.L. Freeman  
Tenneco Oil Co.  
Penthouse  
720 South Colorado Blvd.  
Denver, CO 80222

Reference: Staking Request (PER)  
Well: 27-12 Toc Brown A-USA  
Section 27, T. 16 S., R. 24 E.  
Grand County, Utah

Dear Mr. Freeman:

This office has no objections to staking the above referenced locations. Would you include your bond number when submitting your application to drill. In addition you should be knowledgeable that Grand County requires a permit if you plan to use a county road as a portion of your access road. You should contact the Grand County Road Supervisor. An archaeological clearance must be obtained after staking the site(s).

Sincerely yours,

M. Scott Packer  
Acting Area Manager

RECEIVED

OCT 22 1980

TENNECO OIL CO.  
DENVER

12

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
 Tenneco Oil Company

3. ADDRESS OF OPERATOR  
 P.O. Box 3249, Englewood, Colorado 80155

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface 2051.6 FSL, 264.2 FWL **NW SW**  
 At proposed prod. zone same as above

5. LEASE DESIGNATION AND SERIAL NO.  
 U-10152-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
 Middle Canyon

8. FARM OR LEASE NAME  
 Middle Canyon Unit USA

9. WELL NO.  
 27-12

10. FIELD AND POOL, OR WILDCAT  
~~Dryden Canyon, Morrison~~ **Wildcat**

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA  
 Sec. 27, T16S, R24E

12. COUNTY OR PARISH | 13. STATE  
 Grand | Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 23 miles NNW of Westwater, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)      264.2'

16. NO. OF ACRES IN LEASE      1280

17. NO. OF ACRES ASSIGNED TO THIS WELL      360

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH      ±7036' **Entrada**

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)      7130' GR

22. APPROX. DATE WORK WILL START\*  
 Feb./March 1981

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7" new	23#	±2850'	Circulate to surface
6 1/4"	4 1/2" new	10.5#	±7036'	Cover all productive zones

Set 1-3 joints of 9 5/8" casing as needed to be used as conductor pipe.

See attached.

Pre-stake clearance attached.

Archaeological survey ordered.

APPROVED BY THE DIVISION  
OF OIL, GAS, AND MINING

DATE: 2-11-81  
BY: M. J. Minder

FEB 11 1981

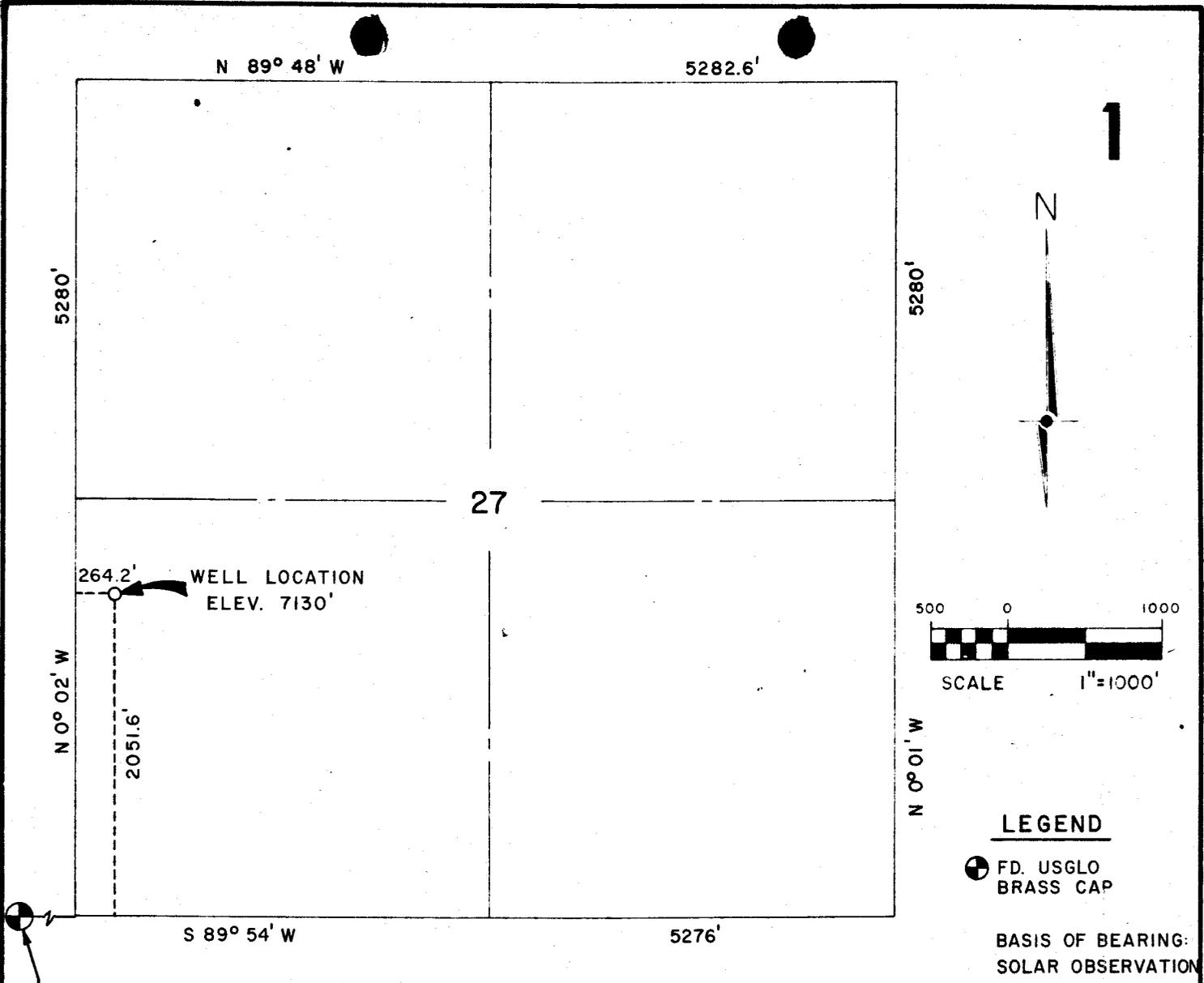
DIVISION OF  
OIL, GAS & MINING

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.

24. SIGNED R. A. Mishler TITLE Sr. Production Analyst DATE February 3, 1981  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:



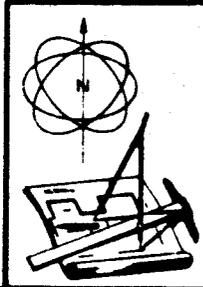
S. W. COR.  
SEC. 28  
T. 16 S., R. 24 E.  
SLB & M

WELL LOCATION  
 2051.6 FT. N.S.L. — 264.2 FT. E.W.L.  
 SECTION 27, T.16S., R.24E S.L.B.M.  
 GRAND COUNTY, UTAH

**SURVEYOR'S CERTIFICATE**

I, Edward A. Armstrong, a registered land surveyor in the State of Utah, do hereby certify that this survey was made under my direct supervision and that this plat represents said survey.

*Edward A. Armstrong*  
 EDWARD A. ARMSTRONG P.E. & L.S. 4464



ARMSTRONG ENGINEERS and ASSOCIATES, INC. ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING 861 ROOD AVENUE - GRAND JUNCTION, COLORADO 81501 - (303) 245-3861	
SCALE 1"=1000'	TENNECO OIL
DATE 10/20/80	TENNECO BROWN A USA 27-12
DRAWN BY MEL	JOB NUMBER
CHECKED BY EAA	803035
DATE OF SURVEY 10/7/80	<b>SHEET 1 of 5</b>

**DUPLICATE**  
UNITED STATES

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1425.

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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See attached.

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Archaeological survey ordered.

**RECEIVED**  
MAY 4 1981

DIVISION OF  
OIL, GAS & MINING

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24. SIGNED R. A. Mishler TITLE Sr. Production Analyst DATE February 3, 1981  
 R.A. Mishler

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY W. T. Mautner TITLE FOR E. W. GUYNN DISTRICT ENGINEER DATE MAY 01 1981

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

\*See Instructions On Reverse Side

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

NOTICE OF APPROVAL

State 046 Production Facilities and Flowline NOT Approved

United States Department of the Interior  
 Geological Survey  
 Oil and Gas Operations  
 2000 Administration Building  
 1745 West 1700 South  
 Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator/Project Name Tenneco Middle Canyon Unit USA 27-12  
 Project Type Development Gas Test (Unit Obligation Well)  
 Project Location 2051.6' FSL, 264.2' FWL, Sec. 27, T16S, R24E, Grand Co., Utah  
 Date Project Submitted February 6, 1981

FIELD INSPECTION

Date March 12, 1981

Field Inspection  
 Participants

- Bob Mishler - Tenneco
- Dallas Galley - Galley Construction
- Dan Naylor - Northwest Pipeline
- Elmer Duncan, Mical Walker - BLM
- Glenn Doyle - USGS

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

April 8, 1981  
 Date Prepared

Glenn M. Doyle  
 Environmental Scientist

I concur

4/17/81  
 Date

E. W. [Signature]  
 District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Correspondence (date)	Phone check (date)	Meeting (date)						
Public health and safety					1, 2			3/12/81	
Unique characteristics					1, 2				
Environmentally controversial					1, 2		6		
Uncertain and unknown risks						4			
Establishes precedents					1, 2				
Cumulatively significant					1, 2		6		
National Register historic places	1-3/30/81								
Endangered/threatened species	1-3/30/81								
Violate Federal, State, local, tribal law						4			3

See BLM stipulations

COMMON REFERENCE LIST

NEPA Categorical Exclusion Review

1. SMA Input
2. Reviews, reports, or information received from Geological Survey (CD, GD, WRD, TD).
3. Lease Stipulations/Terms
4. Application to Drill
5. Operator correspondence
6. Field observation
7. Private Rehabilitation Agreement



# United States Department of the Interior

IN REPLY REFER TO

3109  
(U-603)

BUREAU OF LAND MANAGEMENT  
Moab District  
Grand Resource Area  
P.O. Box M  
Moab, Utah 84532

MAR 27 1981

Memorandum

To: Oil & Gas Office, U.S.G.S. Conservation Division,  
P.O. Box 3768, Grand Jct., CO 81501

From: Area Manager, Grand

Subject: Tenneco Oil Company  
Middle Canyon Unit 27-12, Lease #U-10152-A  
NW/SW Section 27, T. 16 S., R. 24 E. SLB&M  
Grand County, Utah

On March 24, 1981 a representative from this office met with Glenn Doyle, USGS, and Bob Mishler agent of the Tenneco Oil Company for an inspection of the above referenced location. Subject to the attached conditions and written approval from USGS, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Tenneco Oil Company.

Enclosures (5)  
1-Reclamation Procedures  
2-Seed Mixture  
3-Suggested Colors -Production Facilities  
4-Appendix I  
Construction & Maintenance Requirements  
5-Map - Typical Road Section

U. S. GEOLOGICAL SURVEY  
OIL AND GAS OPERATIONS  
RECEIVED

MAR 30 1981

GRAND JUNCTION, COLORADO

## STANDARD STIPULATIONS FOR OIL & GAS EXPLORATION

Contact this office at least 48 hours prior to beginning construction of access road and pad.

Stockpile the surface 12 inches of topsoil in a wind-row on the north end of the location.

The upper banks (uphill side) of all cuts will be rounded during construction of the access road and pad.

Notify the BLM District Archaeologist if cultural material from subsurface deposits is exposed during the operation.

The trash cage will be at the location and fenced with fine mesh wire during drilling operations.

The "blooey" line will be centered and directed into the pit.

If production is obtained, the access road will be upgraded to BLM specifications for long-term roads as outlined in the surface use standards section of the "Oil & Gas pamphlet (joint BLM, USGS and USFS publication).

If production is obtained, all production facilities will be painted. See enclosed suggested colors for production facilities.

Rehabilitation of the site and access road will be accomplished in accordance with the enclosed restoration procedures.

Production facilities and pipeline route are approved on this location under lease rights.

As agreed upon at the pre-drill field examination -

### New Access

1. Surface disturbance will be kept to a minimum along the flagged route (for approximately two miles) from Tenneco Well 33-2 in NE/NE Section 22, T. 16 S., R. 24 E., through Section 28 and to Tenneco Well 27-12 in NW/SW Section 27, T. 16 S., R. 24 E.
2. Trees (pinon & juniper) removed from the access road during road construction will be bucked into 8 foot lengths or shorter and stacked along the road, but off the travel surface.
3. Where its possible to save topsoils along the access road, topsoils and surface vegetation will be windrowed along the up-slope side.

4. Low water crossings will be installed at each drainage channel for water control.

#### Location

1. Trees (pinon & juniper) removed from the pad will be bucked up to 8 foot lengths or shorter and stacked behind topsoil on the north end of the pad. Other vegetation removed from the pad will be stacked in the same area.
2. An area at least two cat blades wide will be cleared to mineral soils behind the blooie pit for fire prevention.
3. Banks of soil along the outside and at each end of the reserve pit and flare pit will be 2.5 feet higher than the well location. Banks will be compacted with machinery during construction and wide enough at the top for a cat to drive over. Reserve pit(s) slopes will maintain at least a 1.5:1 ratio.
4. Pit(s) will be fenced on three sides during well drilling and on the fourth side prior to rig removal. Fence will consist of five strands of barbed wire, on each side.

#### Restoration

##### Producer

1. The disturbed surface area not needed for production will be contoured to resemble the surrounding terrain, topsoils scattered over the area, ripped and seeded. If the seed is broadcast over this area, 2.5 times the amount per acre shown in the stipulations will be used, and seed will be covered by using a harrow or similar drag. (This area is defined as that portion of the disturbed surface from 15 feet outside the anchors or deadmen, to the outside edge of the well pad).

##### Non-Producer

1. Restoration of the access road and well pad will be in accordance to part 10 in your 13 point plan, plus the surface operating standards handbook, 2nd edition as published by USFS, USGS & BLM.
2. Following the recontouring, scattering of topsoils evenly over the pad and road, ripping and seeding of the disturbed area, both the access road and pad will be closed to all vehicular travel.

## RECLAMATION PROCEDURES IN GRAND RESOURCE AREA

1. Disk or rip pads and access roads.
  - a. Overlap passes in order to insure complete treatment.
2. Contour pads and access roads.
  - a. Lay berms into centers.
  - b. Use cut material for fill areas.
  - c. Lay stockpiled surface soil over top of pads and spread evenly.
  - d. On highly erosive soils, it may be more beneficial to grade slopes to reduce steepness.
  - e. Do not smooth pads out, leave a roughened surface. On steeper slopes and slopes with clayey soils scarify or serrate the ground in order to increase water infiltration and reduce erosion.
3. Water bar roads where required by this office.

* 2 percent	Grade	-	200 ft. intervals
2-4 percent	Grade	-	100 ft. intervals
4-5 percent	Grade	-	75 ft. intervals
5 percent	Grade	-	50 ft. intervals

\* Actual spacing may vary according to soil stability. Lighter textured soils will require more frequent water bars. When natural drainage ways are present, water bars are to be constructed to make maximum use of them. Plan operations so that natural drainage ways do not become blocked.
4. Seed roads and pads in the fall (Oct. through mid-Dec.).

SEED MIXTURE

<u>Species</u>		<u>Rate</u>
<b>Grasses</b>		
		<b>lb/acre</b>
Oryzopsis hymenoides	Indian rice grass	1
Agropyron intermediate	Intermediate wheatgrass	1
Elymus canadensis	Wildrye	1
<b>Forbs</b>		
Sphaeralcea coccinia	Globemallow	1
Medicago sativa	Alfalfa (Nomad)	1
<b>Browse</b>		
Purshia tridentata	Bitterbrush	1
Cercocarpus montanus	Mountain mahogany	<u>1</u>
		7



# United States Department of the Interior

IN REPLY REFER TO

BUREAU OF LAND MANAGEMENT

## SUGGESTED COLORS TO PAINT OIL & GAS PRODUCTION FACILITIES

### Cisco Desert and Flats below the Bookcliffs:

Dynasty Green	(Sears)
Tumbleweed	(Pratt & Lambert)
Desert Tan	-----
Sage Gray	(Pratt & Lambert)

### Bookcliffs Region:

Sage Gray	(Pratt & Lambert)
Sea Life	(Pratt & Lambert)
Dynasty Green	(Sears)

Similar hues other than the ones mentioned above must be approved by the Grand Resource Area Manager.

FROM : DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&amp;G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-10152-AOPERATOR: Tenneco OilWELL NO. 27-12LOCATION: NW $\frac{1}{4}$  NW $\frac{1}{4}$  SW $\frac{1}{4}$  sec. 27, T. 16S, R. 24E, S1MGrand County, Utah

## 1. Stratigraphy:

Wasatch	surface		
Mesaverde	635'		
Mancos	2335'	Morrison	6465'
Castlegate	2645'	Salt Wash	6765'
Mancos B	3355'		
Dakota silt	6220'	<u>TD</u>	<u>7036'</u>

## 2. Fresh Water:

Fresh water possible in Wasatch &amp; Castlegate

## 3. Leasable Minerals:

Coal : lower Mesaverde (1300' to 2000')

Gas : Dakota, Morrison

## 4. Additional Logs Needed:

Run resistivity, gamma, and density/porosity logs through coal zone.

## 5. Potential Geologic Hazards: none expected

## 6. References and Remarks:

Signature: Gregory W WoodDate: 2-25-81

TENNECO OIL COMPANY - 10 POINT PLAN

1. The geological name of the surface formation: *Wasatch*
- 2 & 3. Estimated Formation Tops:  
  
(See Attached Drilling Procedure)
4. Proposed Casing Program:  
  
(See Attached Drilling Procedure)
5. Blowout Preventors:  
Hydraulic double ram. One set of rams will be provided each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2". BOP's, drills and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC Log.
6. Mud Program: (Sufficient quantity of mud and weight material will be available on location).  
  
(See Attached Drilling Procedure.)
7. Auxiliary Equipment:
  - a. Kelly cock will be in use at all times.
  - b. Stabbing valve to fit drill pipe will be present on floor at all times.
  - c. Mud monitoring will be visual. No abnormal pressures are anticipated.
  - d. Floats at bits.
  - e. Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling operations are in progress.
8. Coring, Logging, and Testing Program:  
  
(See Attached Drilling Procedure)
9. No abnormal pressures, temperatures or potential hazards such as H<sub>2</sub>S are expected to be encountered.
10. The drilling of this well will start approximately *Feb/Mar '81* and continue for 10 to 12 days.

Your office will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.

TENNECO OIL COMPANY  
ROCKY MOUNTAIN DIVISION  
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD  
DENVER, COLORADO 80222

DRILLING PROCEDURE

DATE: January 30, 1981

LEASE: Middle Canyon Unit. USA

WELL NO.: 27-12

LOCATION: 2051.6 FSL, 264.2 FWL  
Section 27, T16S, R24E  
Grand County, Utah

FIELD: Middle Canyon

ELEVATION: 7130' G.L.

TOTAL DEPTH: 7036'

PROJECTED HORIZON: Morrison

SUBMITTED BY: Tom Dunning DATE: December 10, 1980

APPROVED BY:  DATE: 12/11/80

CC: Administration  
DSB Well File  
Field File

ESTIMATED FORMATION TOPS

Wasatch	Surface	
Mesaverde	636'	
Mancos	2336'	
Castlegate	2646'	Water
Mancos B	3356'	Gas
Dakota Silt	6222'	Gas
Morrison	6464'	Gas
Salt Wash	6766	Gas
Entrada	7186'	Gas
TD	7036'	

1. No abnormal pressures, temperatures or H<sub>2</sub>S is anticipated on this hole.
2. Reserve pit shall be fenced on 3 sides during drilling operations in order to comply with BLM and USGS regulations.

DRILLING, CASING, AND CEMENT PROGRAM

1. MIRURT.
2. Set 1-3 joints of 9 5/8" casing as needed to be used as conductor pipe.
3. Install casing head and nipple up rotating head and blooie line.
4. Drill 8 3/4" hole to 2850' or 200 feet into the Castlegate Formation.
5. Log well as per G.E. department recommendations.
6. Run 7", 23#, K-55, ST&C surface casing to T.D. Cement with sufficient volume to circulate cement to the surface.
7. WOC. Nipple up casing spool, BOP's rotating head, choke manifold, etc. Pressure test BOP's, manifold, etc. to 1000 psi for 15 minutes.
8. TIH and displace water in casing with air. Drill out shoe and dry up hole.
9. Drill 6 1/4" hole to T.D.
10. Log well as per G.E. department recommendations.
11. If well is productive, run 4 1/2", 10.5#, K-55, ST&C casing to T.D. Cement with sufficient volume to cover all possible productive zones.
12. If the well is non-productive, P & A as per Regulatory Agency Specifications.

CASING PROGRAM

CONDUCTOR:	30' to 125' as needed 9 5/8", 36#, K-55, ST&C.
SURFACE:	2850' 7", 23#, K-55, ST&C.
PRODUCTION:	7000' 4 1/2", 10.5#, K-55, ST&C. 36' 4 1/2", 11.6#, K-55, ST&C.

### MUD PROGRAM

0-125' Spud mud. Viscosity as needed to clean hole.

125-2850' Air or Air/Mist.

2850-7036' Air or Air/Mist.

NOTE: Should the hole become wet or encounter large gas flows which require mud up, keep the weight as low as possible, vis as needed, and W.L. + 6 cc.

### EVALUATION

#### Cores and DST's:

None.

#### Deviation Surveys:

0-125 Every 100' unless hole conditions prohibit running the surveys. Maximum deviation at T.D. 1°.

125-2850 Every 500' or on trips. Maximum deviation 1° per 100' or 3° at TD.

2850-7036 Every 500' or on trips. Maximum deviation 1° per 100' or 7° at TD.

#### Samples:

None.

#### Logs:

Surface Hole - as specified by G.E. Department.

Production Hole - as specified by G.E. Department.

### BLOWOUT EQUIPMENT

1. Double ram hydraulic with pipe and blind rams operated by an accumulator.
2. Rotating head on air or air/mist holes.
3. Preventors must be checked for operation every 24 hours. This check must be recorded on the IADC Drilling Report Sheet.

## REPORTS

Drilling Reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud cost, deviation surveys, and other pertinent information to be called into Division Office by 7:30 A.M. Monday thru Friday.

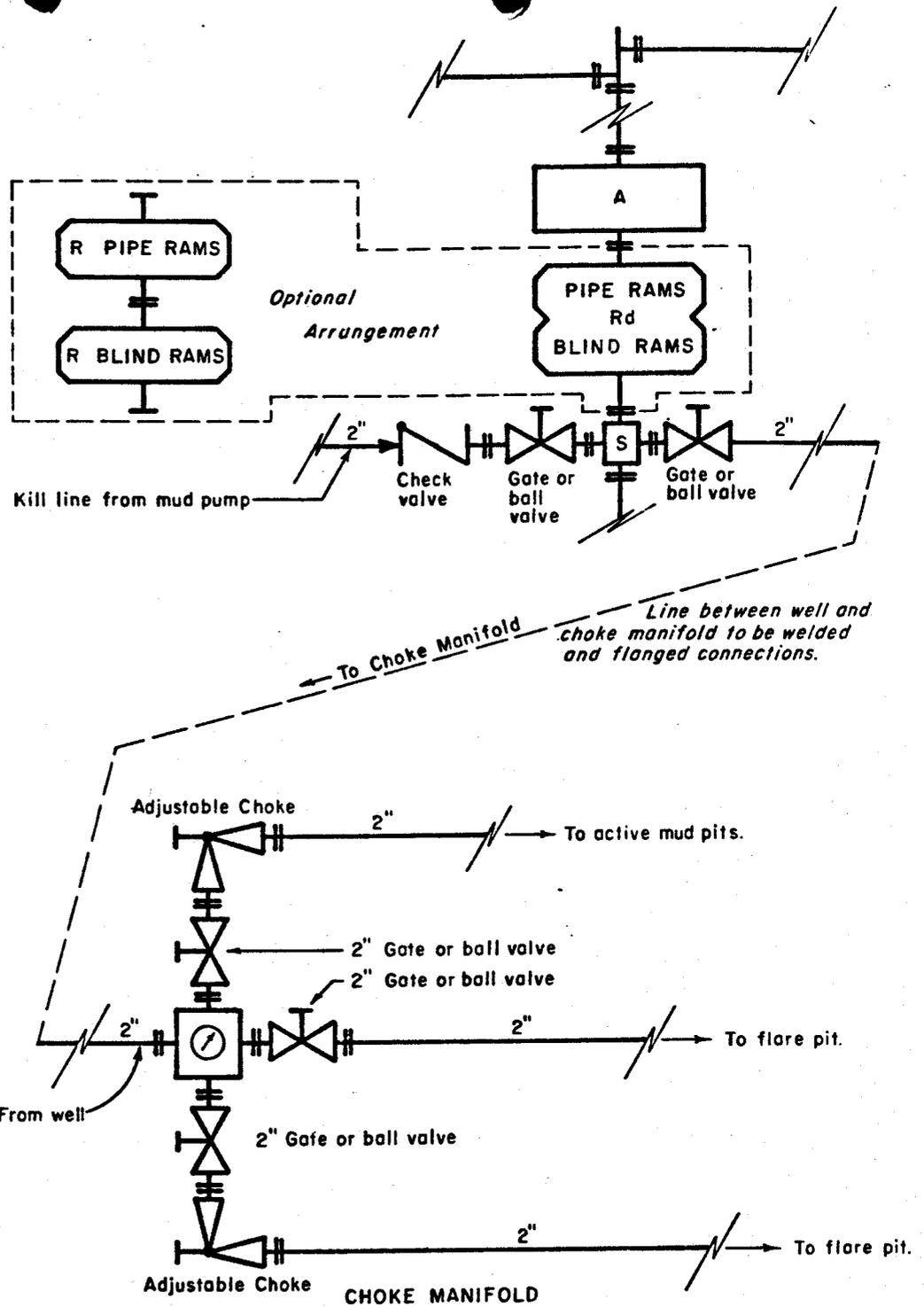
TENNECO OIL COMPANY  
P.O. BOX 3249  
ENGLEWOOD, COLORADO 80155  
PHONE: 303-740-4800

### Office Directory

Don S. Barnes	740-4814
John W. Owen	740-4810
Tom Dunning	740-4813
Jack Magill	740-4802
Dale Kardash	740-4809

In case of emergency or after hours call the following in the preferred order.

- (1) Don S. Barnes                      740-4814    Office  
    Division Drilling Engineer      936-0704    Home
- (2) John W. Owen                     740-4810    Office  
    Project Drilling Engineer        795-0221    Home
- (3) Mike Lacey                        797-2651    Home  
    Division Production Manager



All equipment to be 3,000 psi working pressure except as noted.

- Rd Double ram type preventer with two sets of rams.
- R Single ram type preventer with one set of rams.
- S Drilling spool with side outlet connections for choke and kill lines.
- A Annular type blowout preventer.

**ARRANGEMENT B**

**TENNECO OIL COMPANY  
ROCKY MOUNTAIN DIVISION  
REQUIRED MINIMUM  
BLOWOUT PREVENTER AND  
CHOKES MANIFOLD**

I. EXISTING ROADS

A. Proposed Well Site Location:  
See Exhibit 1

B. Planned Access Route:  
See Exhibits 4 & 5.

C. Access Road Labelled:

Color Code: Red - Improved surfaced roads  
Blue - New access road to be constructed

D. Not applicable, the proposed well is a development well.

E. The existing roads are shown in Exhibits 4 & 5.

F. Existing Road Maintenance or Improvement:

The existing road will not require improvement. However, this road, along with the new access road, may require occasional grading to return the road surface to a cross section necessary for proper drainage.

II. PLANNED ACCESS ROUTE

A. Route Location - (See Exhibits 4 and 5 )

The planned new access route was selected to provide the shortest distance to the well site with acceptable grades from the main connector road. Temporary access will be built initially. If the facility is productive, the temporary road will be improved as follows:

1. Width:

The average disturbed width will be 26 feet. The average traveled surface width will be twenty feet. Road construction will be in accordance with typical roadways requested by the U.S. Bureau of Land Management.

2. **Maximum Grades:**  
Grades will be kept to a minimum using all available engineering techniques. It is, however, impossible to give a percent grade until the road has been aligned to the satisfaction of the surface management agency. We will have grades that are safe and passable under adverse weather conditions and that utilize the existing topography and surface geological conditions.
3. **Turnouts:** Turnouts are not required
4. **Drainage Design:**  
Prior to construction of the new access road, the brush and topsoil will be windrowed to each side of the alignment outside construction limits. The subgrade surface will be a minimum elevation of one foot above ditch grade. The road surface will be center crowned and the inslopes will have a maximum slope of 3:1 and fill slopes will be a maximum of 2:1.
5. **Culverts Use, Major Cuts and Fills:** Culverts will be placed as needed and suggested by the BIM.  
  
Max: cut -  
Max: fill -
6. **Surfacing Material:**  
The proposed permanent access road will be constructed with native material.
7. **Gates, Cattleguards, Fence Cuts:** Not needed.
8. **New portion of road will be center flagged.**

### III. LOCATION OF EXISTING WELLS

The proposed well is a development well. Exhibit 7 shows existing wells within a one mile radius.

- |                                     |               |
|-------------------------------------|---------------|
| A. Water Wells:                     | See Exhibit 7 |
| B. Abandoned Wells:                 | "             |
| C. Temporarily Abandoned Wells:     | "             |
| D. Disposal Wells:                  | "             |
| E. Drilling Wells:                  | "             |
| F. Producing Wells: See Exhibit     | "             |
| G. Shut-In Wells:                   | "             |
| H. Injection Wells:                 | "             |
| I. Monitoring or Observation Wells: | None. "       |

IV. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. Existing facilities within one mile owned or controlled by Lessee/  
Operator:

1. Tank batteries - See Exhibit 7
2. Production facilities - "
3. Oil gathering lines - "
4. Gas gathering lines - "
5. Injection lines - "
6. Disposal lines - "

B. New facilities in the event of production:

1. New facilities: May consist of a well head, condensate tank, production unit, meter house, all of which would remain within the disturbed area. Exhibit 6 shows our most typical arrangement for this area.
2. Dimensions of the facilities are shown in Exhibits 2 and 3 .
3. Construction will be to strip the topsoil, level drilling pad. Dehydrator pits will be constructed with soil materials native to the site. Construction methods will be employed to assume that no drainage flows are impounded to prevent the loss of any hydrocarbon from the site. This is to be done in a manner to facilitate rapid recovery and clean up.
4. Protective measures to protect wildlife and livestock:  
Dehydrator pits shall be overhead flagged should any hydrocarbon material be present on the surface. The dehydrator pits shall be fenced to prevent entry of livestock or wildlife.

C. Plan for rehabilitation of disturbed areas no longer need for operations after construction completed:

Upon completion of well, areas required for continued use will be graded to provide drainage and minimize erosion. Those areas not required for continued usage will be graded to provide drainage and minimize erosion. Those areas unnecessary for use will be graded to blend with the surrounding topography. Topsoil will be replaced on those areas and seeded according to BLM specifications.

V. LOCATION AND TYPE OF WATER SUPPLY

- A. The water source is to be from a legal private source, Frank Spadafora.
- B. Water transportation system: Water to be hauled in trucks from an undetermined pick up point.
- C. Water wells: None

VI. SOURCE OF CONSTRUCTION MATERIALS

A. Materials:

Construction materials will consist of soil encountered with the boundaries of the proposed site. Topsoil will be stripped to a depth of six inches and stockpiled in an area that does not interfere with operations.

B. Land Ownership:

The planned site and access roads lie on Federal land administered by the United States Department of Interior, U.S. Bureau of Land Management.

C. Materials foreign to site: N/A

D. Access road shown under Exhibit 5.

VII. METHODS OF HANDLING WASTE MATERIALS

A. Cuttings:

Will be contained within the limits of the reserve pit.

B. Drilling fluids:

Will be retained in the reserve pit.

C. Produced fluids:

No substantial amount of water is expected. The amount of hydrocarbon that may be produced while treating will be retained in the reserve pit. Prior to clean up operations the hydrocarbon materials will be skimmed or removed as the situation would dictate.

D. Sewage:

Sanitary facilities will consist of at least one chemical toilet and after the completion of operations the sewage will be removed and disposed of elsewhere.

E. Gargage:

A burn cage will be used to burn all flammable material. The small amount of refuse will be removed from the site and disposed of at a legal and environmentally acceptable location.

F. Clean up of well site:

After drilling, the surface of the drill pad will be cleaned and graded to accommodate a completion rig. The "mouse hole" and "rat hole" will be backfilled to prevent injury and hazard for livestock. Reserve pit will be fenced until dry and it can be backfilled and restored to natural terrain.

VIII. ANCILLARY FACILITIES

None required.

IX. WELL SITE LAYOUT

A. See Exhibits - 2 & 3

1. Location of pits:
2. Rig Orientation:

B. Pits will be unlined, unless otherwise required.

X. PLANS FOR RESTORATION OF SURFACE

A. Reserve Pit Cleanup:

The pit will be fenced prior to rig release and shall be maintained until cleanup. Prior to backfill operation, any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pit shall be backfilled with soil excavated from the site and with soil adjacent to the reserve pit. The restored surface of the reserve pit will be contoured to prevent impoundment of any drainage flows. The gradient of the surface will be maintained to prevent sudden acceleration of drainage flows which could cause continued erosion of the surface. Following backfill completion, topsoil removed from the disturbed areas will be replaced in a uniform layer. The reserve pit will be seeded per Bureau of Land Management recommendation during the appropriate season following final restoration of the site.

B. Restoration Plans - Production Developed:

The reserve pit will be backfilled and restored as described under Item A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography. Topsoil will be placed on these areas and seeded. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to production facilities under inclement conditions. Following final improvement and surfacing of that portion of new access road, the topsoil windrowed to each side of the alignment will be placed on the cut slopes. Following depletion and abandonment of the site, restoration procedures will be those that follow under Item C.

C. Restoration Plans - No Production Developed:

Of course the reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the drilling pad will be restored to its natural terrain and reseeded per Bureau of Land Management requirements.

XI. OTHER INFORMATION

- A. Surface Description: Location is on ridge top about 1½ miles NW of East Canyon. Principal vegetation is pinon & juniper, sage, cactus, mountain mahogany, and native grasses.
- B. Other Surface-use Activities: The surface is federally owned and managed by the BLM/USGS. The predominant surface use is mineral exploration and production with minimal grazing activity.
- C. Proximity of Water, Dwelling, Historical Sites:
1. Water: East Canyon lies approximately 1½ miles to the SE.
  2. Occupied Dwellings: Not existing.
  3. Historical Sites: An archaeological reconnaissance has been performed for this location and report is on file with the appropriate USGS/BLM offices.

XII. OPERATOR'S REPRESENTATIVE

Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

Donald Barnes  
P.O. Box 3249  
Englewood, Colorado 80155  
Phone: (303) 740-4814

R.A. Mishler  
P.O. Box 3249  
Englewood, Colorado 80155  
Phone: (303) 740-4825

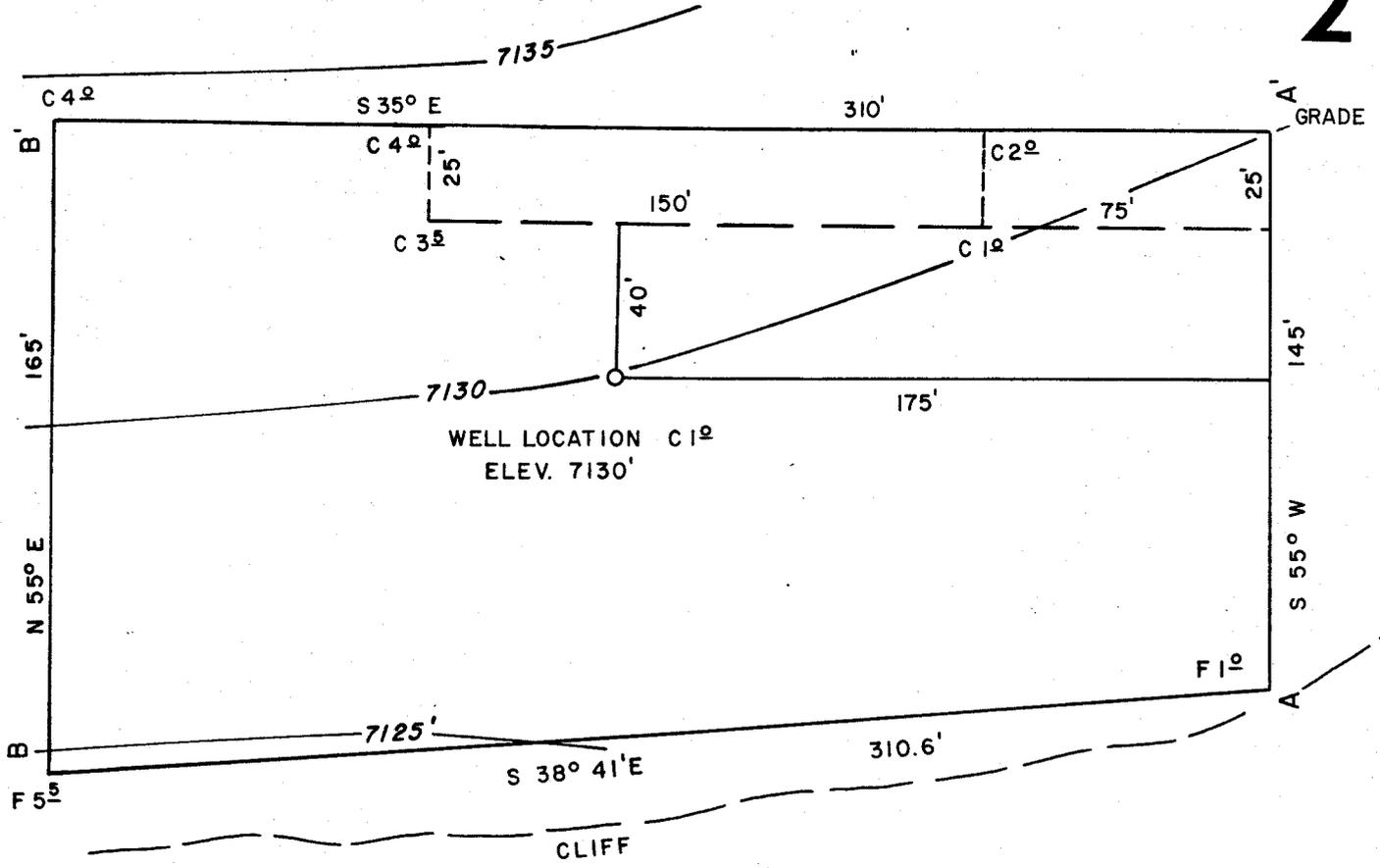
XIII. CERTIFICATION

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.

DATE: February 3, 1981



R. A. Mishler  
Sr. Production Analyst

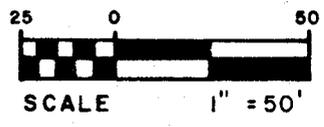
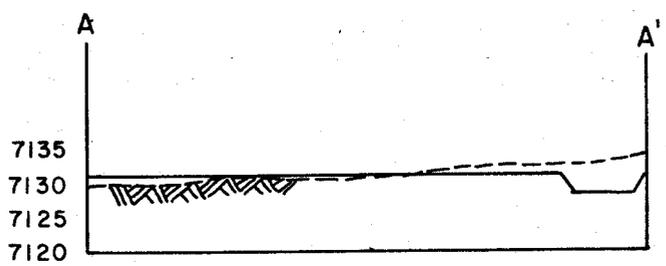
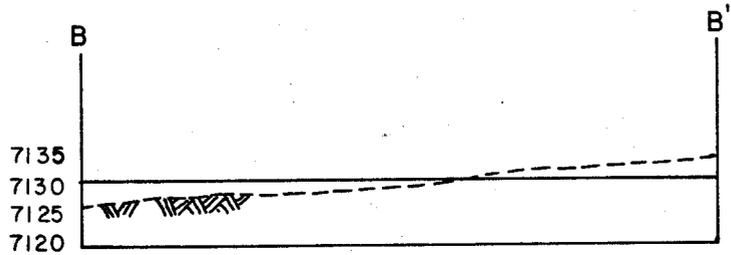


ELEV.  
REF. PT. 200 FT NORTH = 7132.9

ELEV.  
REF. PT. 200 FT EAST = 7136.9

**APPROX. EARTHWORK VOLUMES**

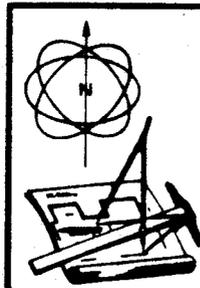
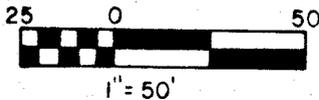
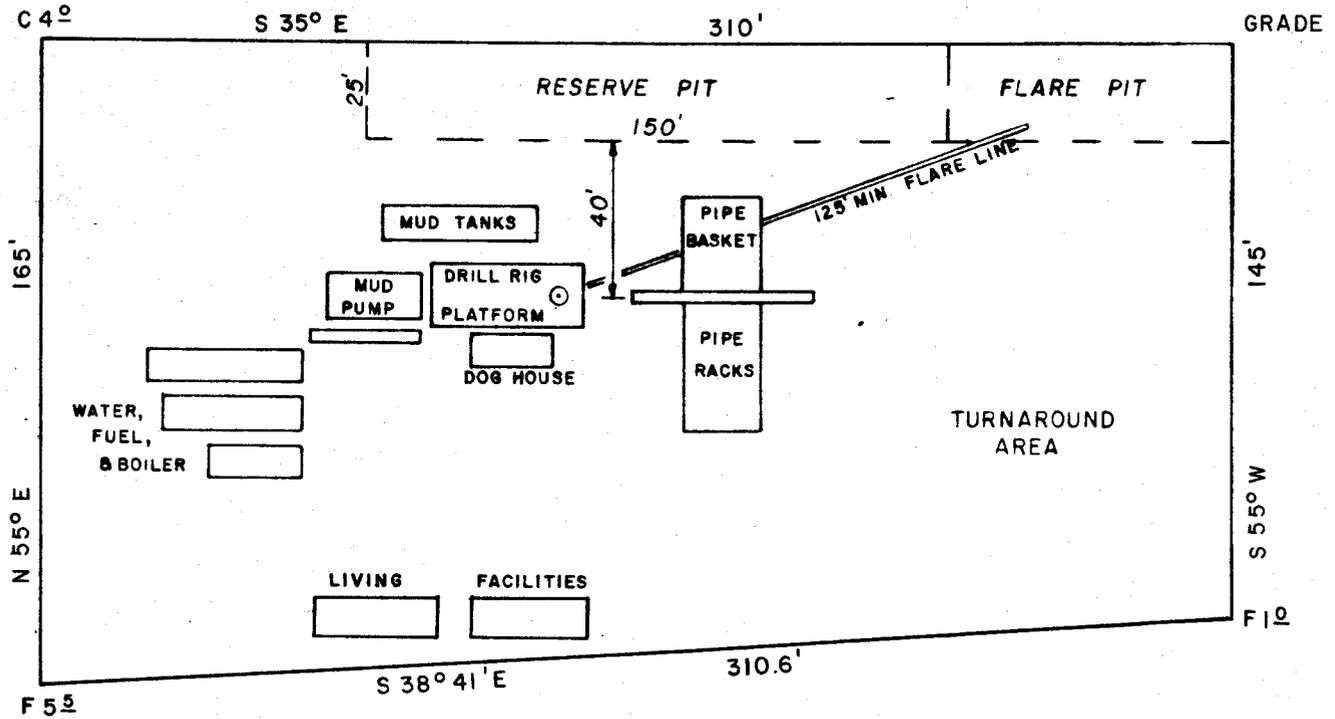
CUT = 1900 cu. yds.  
FILL = 1500 cu. yds



	<b>ARMSTRONG ENGINEERS and ASSOCIATES, INC.</b> ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING 861 ROOD AVENUE - GRAND JUNCTION, COLORADO 81501 - (303) 245-3861	
	SCALE 1" = 50'	<b>TENNECO OIL</b>
	DATE 10/20/80	BROWN A USA 27-12
	DRAWN BY MEL	<b>SHEET 2 of 5</b>
CHECKED BY EAA	DATE OF SURVY 10-7-80	<b>JOB NUMBER</b> 803035

# RIG LAYOUT

3



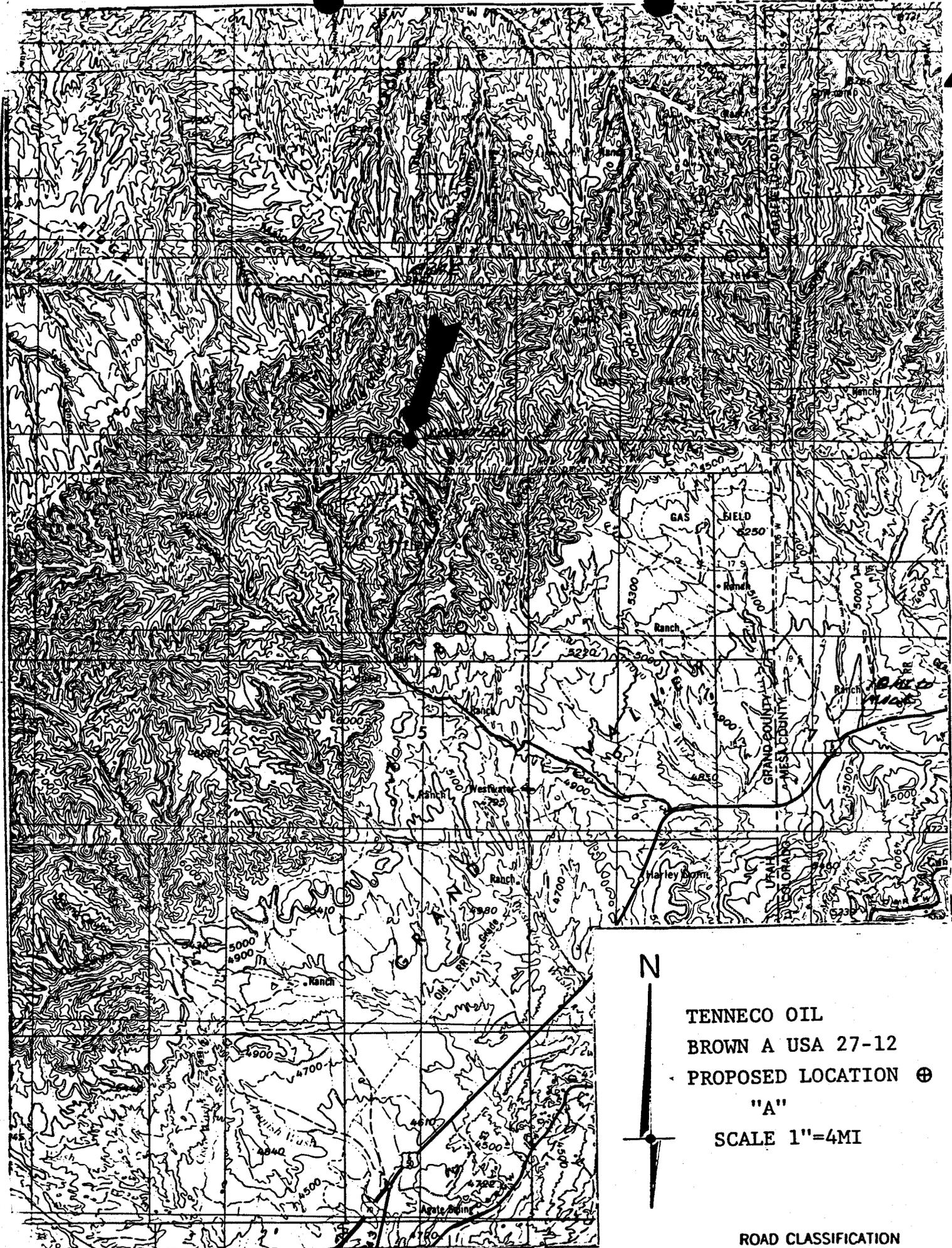
ARMSTRONG ENGINEERS and ASSOCIATES, INC.  
 ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING  
 861 ROOD AVENUE • GRAND JUNCTION, COLORADO 81501 - (303) 245-3861

SCALE 1" = 50'  
 DATE 10/20/80  
 DRAWN BY MEL  
 CHECKED BY EAA  
 DATE OF REVISION 10/7/80

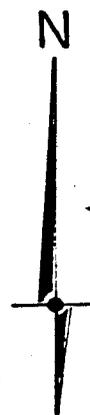
TENNECO OIL  
 BROWN A USA 27-12

SHEET 3 of 5

JOB NUMBER  
 803035



TENNECO OIL  
 BROWN A USA 27-12  
 PROPOSED LOCATION ⊕  
 "A"  
 SCALE 1"=4MI



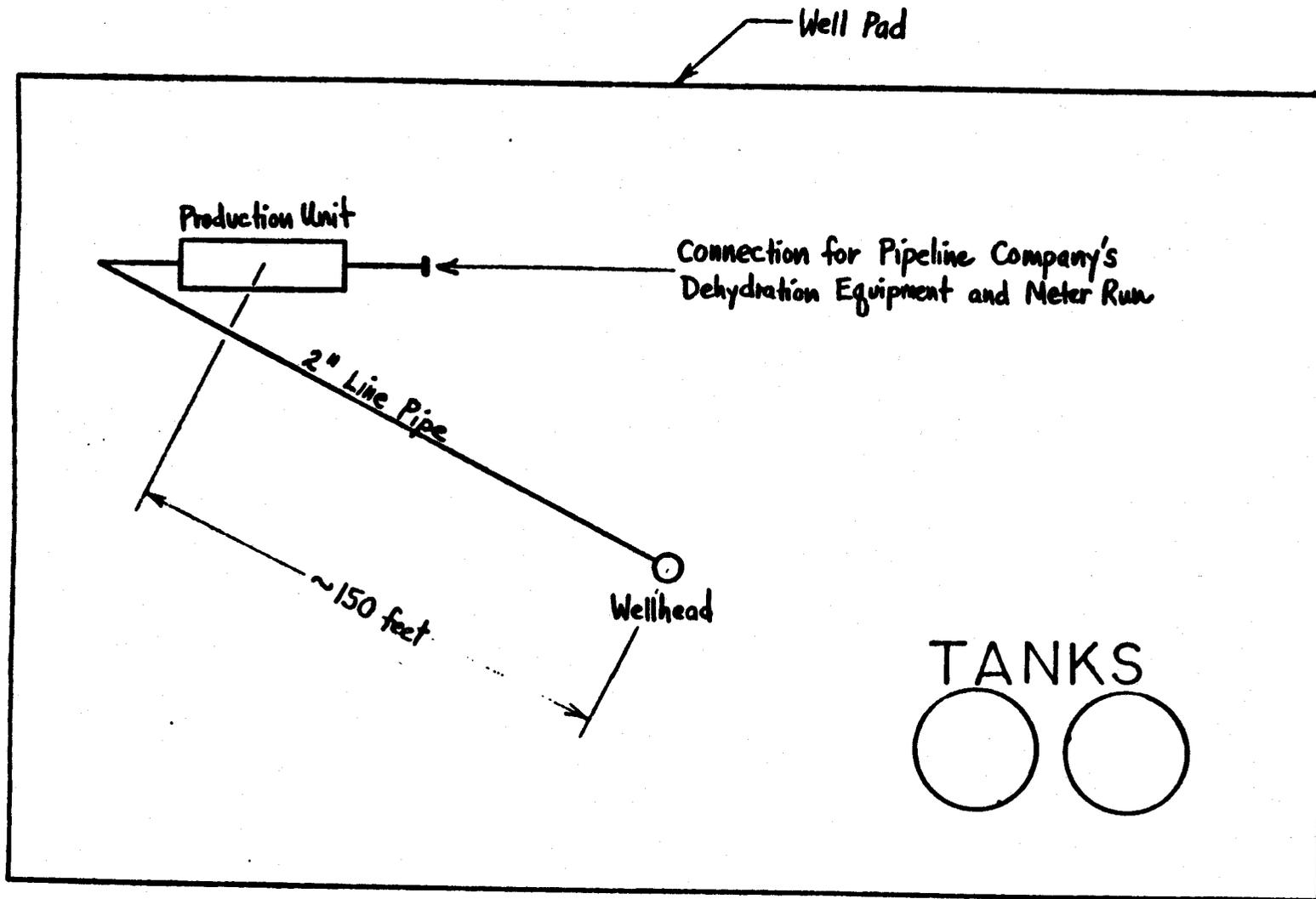
ROAD CLASSIFICATION

Light-duty ————— Unimproved dirt - - - - -

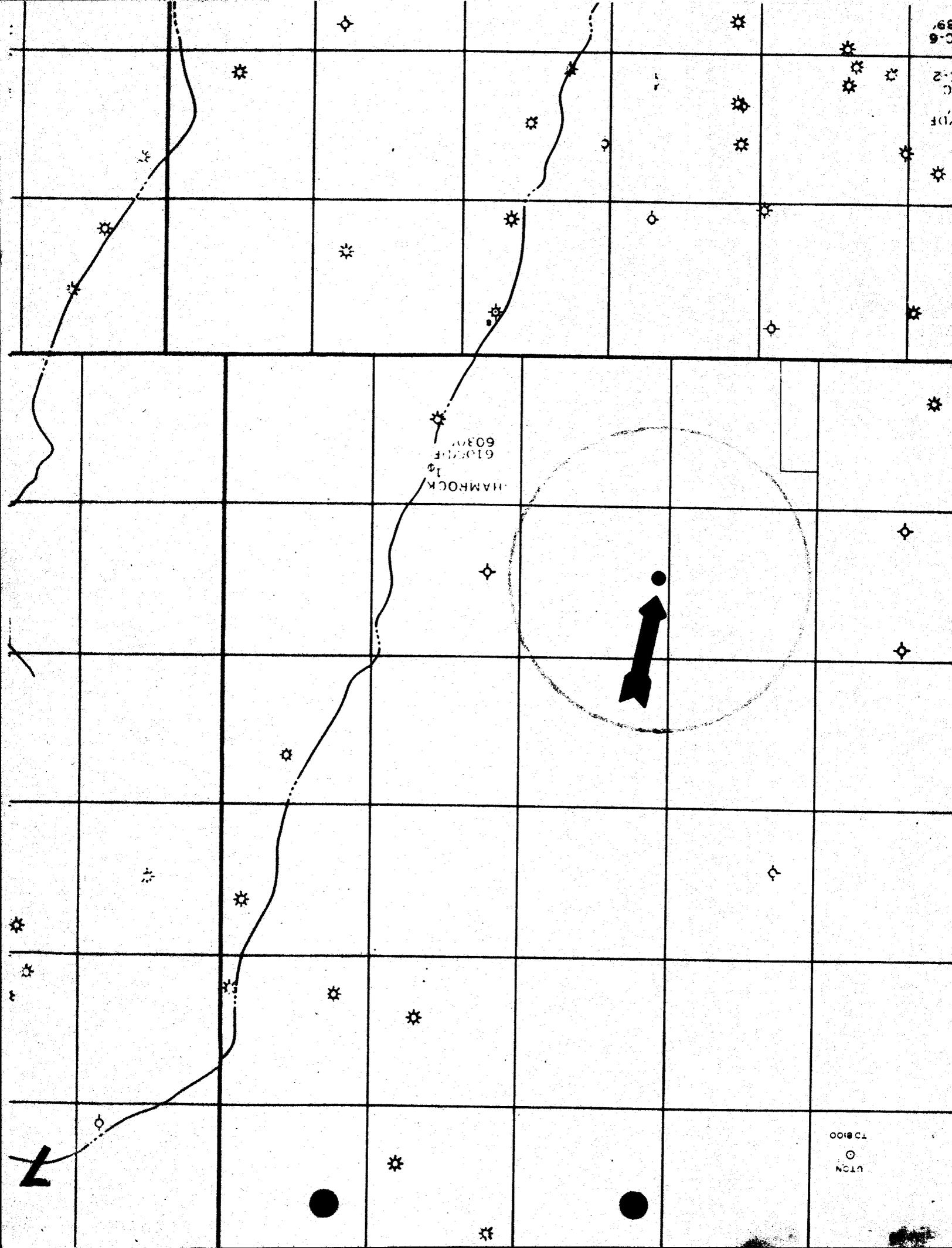


6

# PROBABLE EQUIPMENT INSTALLATION



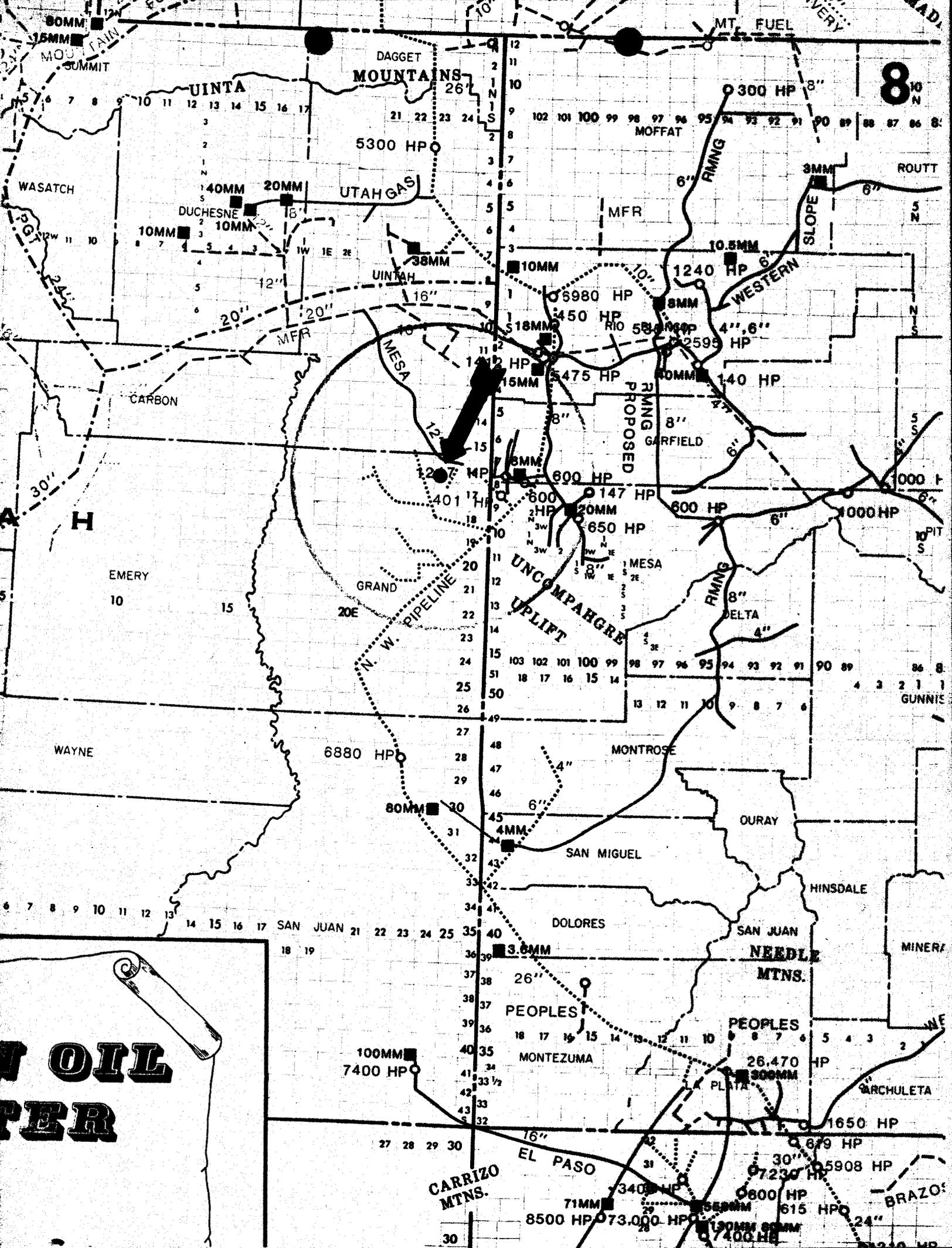
NOT TO SCALE



HAMROCK Is  
610304F

7

0018 CL  
N010



**W OIL  
PER**

8

DAGGET MOUNTAINS

UINTA MOUNTAINS

UTAH GAS

UINTAH

MESA

UNCOMPAHGRE UPLIFT

N. W. PIPELINE

WASATCH

CARBON

H

EMERY

WAYNE

6880 HPO

80MM

SAN MIGUEL

DOLORES

PEOPLES

MONTEZUMA

CARRIZO MTNS.

EL PASO

NEEDLE MTNS.

PEOPLES

PLATA

ARCHULETA

BRAZOS

100MM 7400 HPO

8500 HPO

73,000 HPO

600 HP

615 HPO

7400 HPO

679 HP

5908 HP

7230 HP

1650 HP

300MM

26,470 HP

3400 HP

600 HP

147 HP

600 HP

5980 HP

450 HP

5475 HP

12 HP

15MM

8MM

PROPOSED

UNCOMPAHGRE

MONTROSE

SAN MIGUEL

DOLORES

PEOPLES

MONTEZUMA

CARRIZO MTNS.

EL PASO

NEEDLE MTNS.

PEOPLES

PLATA

BRAZOS

ARCHULETA

100MM

10MM

\*\* FILE NOTATIONS \*\*

DATE: Feb. 10, 1981  
OPERATOR: Tenneco Oil Company  
WELL NO: Middle Canyon Unit # 27-12  
Location: Sec. 27 T. 16S R. 24E County: Grand

File Prepared:  Entered on N.I.D.:   
Card Indexed:  Completion Sheet:

API Number 43-019-30776

CHECKED BY:

Petroleum Engineer: M. J. Minder 2-11-81

Director: \_\_\_\_\_

Administrative Aide: Unit approval - ok on landrip for gas well, ok on formation

APPROVAL LETTER:

Bond Required:  Survey Plat Required:

Order No. \_\_\_\_\_ O.K. Rule C-3

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation 3rd Plotted on Map

Approval Letter Written

Hot Line  P.I.

February 13, 1981

Tenneco Oil Company  
P. O. Box 3249  
Englewood, Colorado 80155

Re: Well No. Middle Canyon Unit #27-12  
Sec. 27, T. 16S, R. 24E  
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer  
Office: 533-5771  
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30776.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

  
Michael T. Minder  
Petroleum Engineer

/ko  
cc: USGS



SCOTT M. MATHESON  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple

Salt Lake City, Utah 84116

(801) 533-5771

CHARLES R. HENDERSON  
*Chairman*

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
MAXILIAN A. FARBMAN  
EDWARD T. BECK  
E. STEELE McINTYRE

CLEON B. FEIGHT  
*Director*

October 14, 1981

Tenneco Oil Company  
P.O. Box 3249  
Englewood, CO 80155

Re: See Attached Sheet

Gentlemen:

In reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill this location at a later date, please notify this office.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

TERRI REID  
CLERK TYPIST

Well No. Middle Canyon Unit #23-6  
Sec. 23, T. 16S, R. 24E  
Grand County, Utah

Well No. Middle Canyon Unit #23-16  
Sec. 23, T. 16S, R. 24E  
Grand County, Utah

Well No. Middle Canyon Unit #27-1  
Sec. 27, T. 16S, R. 24E  
Grand County, Utah

Well No. Middle Canyon Unit #27-12  
Sec. 27, T. 16S, R. 24E  
Grand County, Utah

Well No. Federal 5-13  
Sec. 5, T. 17S, R. 24E  
Grand County, Utah

Well No. Hougen USA 15-9  
Sec. 15, T. 17S, R. 24E  
Grand County, Utah

Well No. Nataro 19-4  
Sec. 19, T. 17S, R. 24E  
Grand County, Utah

Well No. USA 15-7  
Sec. 15, T. 18S, R. 22E  
Grand County, Utah

Well No. Sulpher Canyon Unit #17-9  
Sec. 17, 18S, R. 24E  
Grand County, Utah

Well No. USA #12-10  
Sec. 12, T. 19S, R. 22E  
Grand County, Utah

**Tenneco Oil**  
**Exploration and Production**  
A Tenneco Company

Rocky Mountain Division

P.O. Box 3249  
Englewood, Colorado 80155  
(303) 740-4800

Delivery Address:  
6061 South Willow Drive  
Englewood, Colorado

October 23, 1981

OCT 26 1981

State of Utah  
Department of Natural Resources  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Attention: Ms. Terri Reid

RE: Status of Wells with APD's  
Approved by Your Office

Dear Ms. Reid:

In regards to your letter dated October 14, 1981, the following is a report on the drilling status on each of the wells mentioned:

Middle Canyon Unit #23-6  
Sec. 23, T16S R24E Grand, Utah

Federal APD's have been returned.  
This well has been scratched indefinitely.

Middle Canyon Unit #23-16  
Sec. 23, T16S R23E Grand, Utah

Location is built. State approval  
expires 2/20/82. Will drill in 1982.

Middle Canyon Unit #27-1  
Sec. 27, T16S R24E Grand, Utah

Federal APD's returned. This well has  
been scratched indefinitely.

Middle Canyon Unit #27-12  
Sec. 27, T16S R24E Grand, Utah

Location is built. State approval  
expires 2/82. Will drill in 1982.

TOC USA #5-13  
Sec. 5, T17S R24E Grand, Utah

Federal approval expires 9/19/81. Will  
send in extension request under separate  
cover.

Hougen USA #15-9  
Sec. 15, T17S R24E Grand, Utah

Federal APD will be filed under new name  
TOC/TXO #15-9

Nataro #19-4  
Sec. 19, T17S R24E Grand, Utah

Will not be drilled in 1981. Scratched  
from program indefinitely.



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

May 6, 1982

Tenneco Oil Exploration & Production  
P. O. Box 3249  
Englewood, Colorado 80155

Re: See attached

Gentlemen:

In reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse  
Clerk Typist

Well No. Middle Canyon Unit #23-16  
Sec. 23, T. 16S, R. 24E.  
Grand County, Utah

Well No. Middle Canyon Unit #27-12  
Sec. 27, T. 16S, R. 24E.  
Grand County, Utah

Well No. TOC TXO POGO USA #15-9  
Sec. 15, T. 17S, R. 24E.  
Grand County, Utah

Well No. Sulphur Canyon Unit #17-9  
Sec. 17, T. 18S, R. 24E.  
Grand County, Utah

Well No. Butler Canyon USA #3-16  
Sec. 3, T. 20S, R. 17E.  
Grand County, Utah

Well No. Butler Canyon USA #10-3  
Sec. 10, T. 20S, R. 17E.  
Grand County, Utah

# Tenneco Oil Exploration and Production

A Tenneco Company

Western Rocky Mountain Division

P.O. Box 3249  
Englewood, Colorado 80155  
(303) 740-4800

Delivery Address:  
6061 South Willow Drive  
Englewood, Colorado



May 18, 1982

State of Utah  
Natural Resources & Energy  
Oil, Gas & Mining  
Attn: Cari Furse  
4241 State Office Building  
Salt Lake City, UT 84114

Dear Ms. Furse:

In regard to your letter of May 6, 1982, Tenneco does not intend to drill the following wells:

*LA*  
~~Middle Canyon Unit 23-16  
Sec. 23, T16S, R24E  
Grand County, UT~~

✓ Butler Canyon USA 3-16  
Sec. 3, T20S, R17E  
Grand County, UT

✓ Middle Canyon Unit 27-12  
Sec. 27, T16S, R24E  
Grand County, UT

✓ Butler Canyon USA 10-3  
Sec. 10, T20S, R17E  
Grand County, UT

~~Sulphur Canyon Unit 17-9  
Sec. 17, T18S, R24E  
Grand County, UT~~

Tenneco plans to drill the following well at a later date:

TOC TXO POGO USA 15-9  
Sec. 15, T17S, R24E  
Grand County, UT

Sincerely

TENNECO OIL COMPANY

Denise Wilson  
Production Analyst

DW:jt

Oil and Gas Operations  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104-3884

May 21, 1982

Tenneco Oil Company  
P.O. Box 3249  
Englewood, Colorado 80155

LA  
RE Rescind Application for Permit  
to Drill  
Well No. 27-12  
Section 27-T16S-R24E  
Grand County, Utah  
Lease No. U-10152-A

Gentlemen:

The Application for Permit to Drill the referenced well was approved May 1, 1981. We are rescinding the approval of the referenced application, without prejudice, per your letter dated May 17, 1982.

If you intend to drill at this location at a future date, a new application for permit to drill must be submitted.

If you have any questions, please feel free to contact this office.

Sincerely,

E. W. Guynn  
District Oil & Gas Supervisor

RECEIVED

MAY 24 1982

DIVISION OF  
OIL, GAS & MINING

bcc: SMA  
State O&G ✓  
State BLM  
MMS-Vernal  
Well File  
APD Control

DH/dh