

UTAH OIL AND GAS CONSERVATION COMMISSION

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

* Location Abandoned - Well never drilled - ~~3-18-82~~
7-9-82

DATE FILED 5-12-81

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-15996 INDIAN

DRILLING APPROVED: 6-~~30~~-81

SPUDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: LA ^{July 9} ~~March 18, 1982~~

FIELD: WILDCAT 3/86

UNIT: TUSHER CANYON

COUNTY: GRAND

WELL NO. TUSHER CANYON UNIT USA #1-2 API NO. 43-019-30814

LOCATION 387.4' FT. FROM (N) LINE. 1705.3' FT. FROM (E) LINE. NW NE 1/4 - 1/4 SEC. 1

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
------	------	------	----------	------	------	------	----------

20S	18E	1	TENNECO OIL COMPANY				
-----	-----	---	---------------------	--	--	--	--

2

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, CO 80155

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
 387.4' FNL, 1705.3' FEL
 At proposed prod. zone
 same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approx. 18 miles NE of Green River, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) unit boundary
 Approx. 1 1/2 miles from

16. NO. OF ACRES IN LEASE
 2469.76

17. NO. OF ACRES ASSIGNED TO THIS WELL
 Approx. 393 acres

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

19. PROPOSED DEPTH
 ±6150'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 ground 5855'

22. APPROX. DATE WORK WILL START*
 May/June, 1981

5. LEASE DESIGNATION AND SERIAL NO.
 USA U - 15996

6. IF INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Tusher Canyon

8. FARM OR LEASE NAME
 Tusher Canyon Unit USA

9. WELL NO.
 1-2

10. FIELD AND POOL, OR WILDCAT
 Entrada Test, Wildcat

11. SEC., T., R. M., OR BLE. AND SURVEY OR AREA
 Sec 1, T20S, R18E

12. COUNTY OR PARISH
 Grand

13. STATE
 Utah

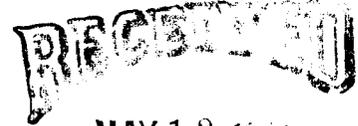
23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7" new	23#	±1500'	Circulate to surface
6 1/2"	4 1/2" new	10.5#	±6150'	Sufficient to cover all productive zones

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

Pre-stake clearance attached.

An archaeological survey has been ordered.



MAY 12 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.

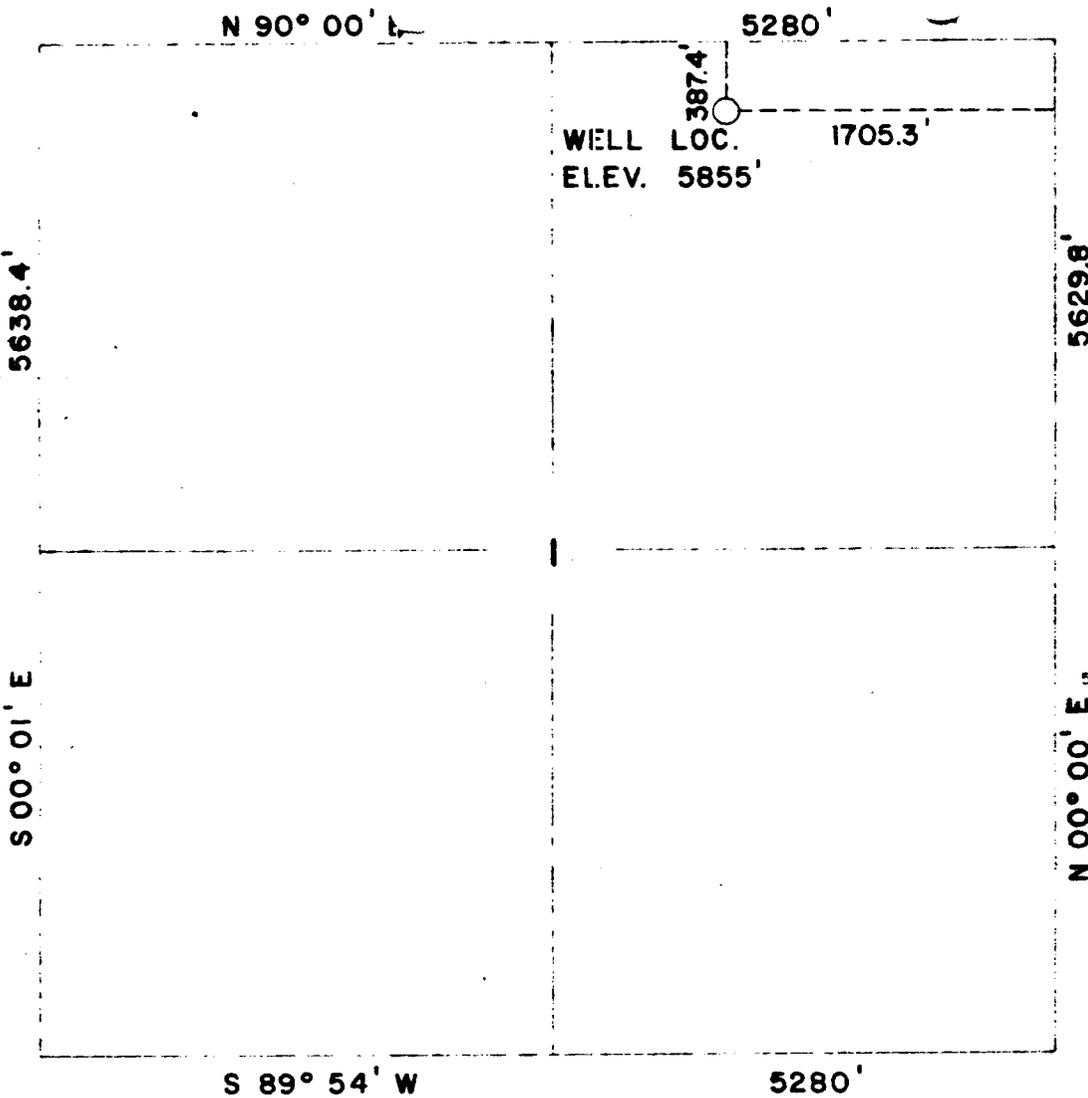
24. SIGNED R. A. Mishler TITLE Sr. Prod. Analyst DATE May 6, 1981
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
 DATE: 6-29-81
 BY: M. F. Minder



1



LEGEND

 FD. USBLM
CADASTRAL
BRASS CAP

BASIS OF BEARING:
SOLAR OBSERVATION

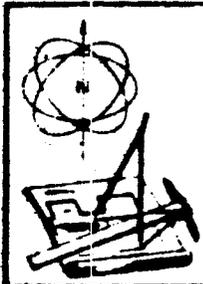
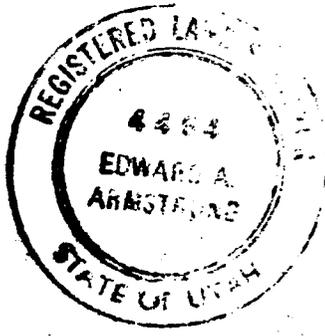
WELL LOCATION

387.4 FTS. N.L. - 1705.3 FT. W. E.L.
SECTION 1, T.20S., R.18E., 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) 245-5867	
SCALE 1" = 100'	TENNECO OIL TUSHER CANYON UNIT USA 1-2
DATE 4/28/81	JOB NUMBER 813283
BY PAP	
DATE 3/31/81	SHEET 1 of 5

TENNECO OIL COMPANY - 10 POINT PLAN

1. The geological name of the surface formation: Mesaverde
- 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 H₂S are expected to be encountered.
10. The drilling of this well will start approximately (May/June) 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.

DRILLING PROCEDURE

DATE: March 3, 1981

LEASE: Tusher Canyon Unit USA

WELL NO.: 1-2

LOCATION: 330' FNL, 1980' FEL
Section 1, T20S, R18E
Grand County, Utah

FIELD: Wildcat

ELEVATION: 5880' (Est. G.L.)

TOTAL DEPTH: 6150'

PROJECTED HORIZON: Entrada

SUBMITTED BY: Bruce Ladd DATE: 3/3/81

APPROVED BY: Tom Dunning DATE: 5/5/81

CC: Administration
DSB Well File
Field File

ESTIMATED FORMATION TOPS

Mesaverde	Surface
Mancos	1180'
Castlegate	1295' (Water)
Dakota Silt	5130' (Gas)
Dakota	5265' (Gas)
Morrison	5510' (Gas)
Entrada	6030' (Gas)
T.D.	6150'

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 bloopie line.
4. Drill 8 3/4" hole to 1500' 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:	0-1500	1500'	7", 23#, K-55, ST&C.
PRODUCTION:	0-6150	6150'	4 1/2", 10.5#, K-55, ST&C.

MUD PROGRAM

0-125 Spud mud. Viscosity as needed to clean hole.
125-1500 Air or Air/Mist.
1500-6150 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°.
125-1500 Every 500' or on trips. Maximum deviation 1° per 100' or 1½° at TD.
1500-6150 Every 500' or on trips. Maximum deviation 1° per 100' or 6° at TD.

Samples:

Samples to be taken at 10' intervals. There will be a two man mud logging unit on location.

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.

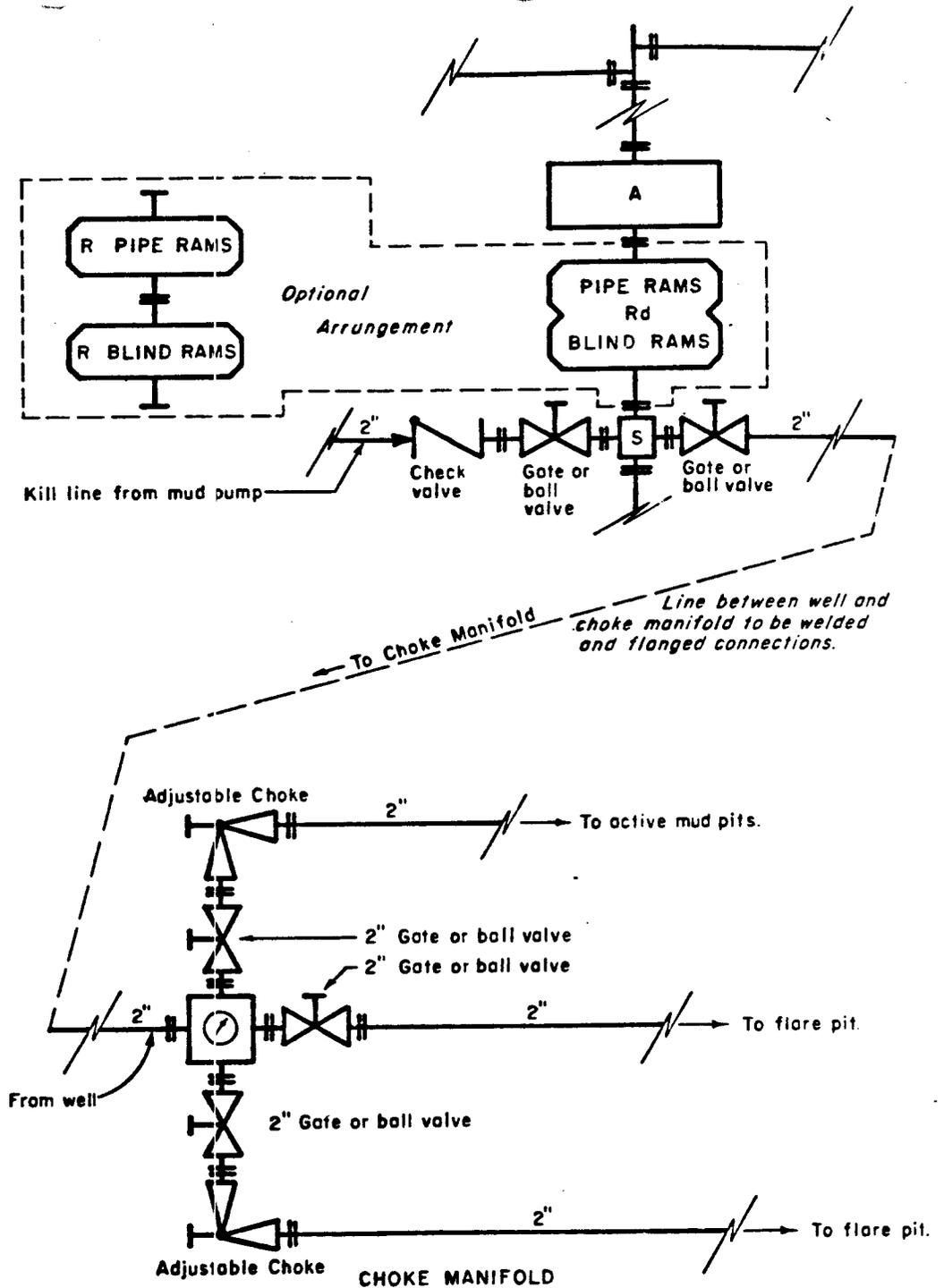
TENNECO OIL COMPANY
P.O. BOX 3249
ENGLEWOOD, COLORADO 80155
PHONE: 303-740-4800

Office Directory

Don S. Barnes	740-4814
John W. Owen	740-4810
Tom Dunning	740-4813
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 |
| Senior Drilling Engineering Specialist | 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
 CHOKE MANIFOLD**

I. EXISTING ROADS

- A. Proposed Well Site Location: The proposed location has been surveyed by a registered land surveyor and is located 387.4 FNL, 1705.3 FEL, Sec 1, T20S, R18E, Grand County, Utah.
- B. Planned Access Route: Access to the location is had via U.S. Highway 6 and 50 East of the bridge across the Green River at Green River, Utah, 0.5 miles to an asphalt surfaced road to the North. Proceed North 5.3 miles to an unimproved dirt road to the right. Proceed on this unimproved dirt road keeping to the right at any minor intersections for 1.4 miles and proceed downhill into the floor of Tusher Canyon, continue along this unimproved dirt road for 0.6 miles into the dry stream bed of Tusher Canyon. Proceed Northeasterly up the dry wash bed 6.3 miles to a gate in the fence across the wash bottom. Proceed through gate and continue up the wash bottom 0.1 mile to the intersection of the roads to left hand of Tusher Canyon and right hand of Tusher Canyon. Turn to the right and proceed 0.85 miles to where the road enters the dry wash bed of the right hand of Tusher Canyon. Turn left and proceed up the dry wash bed 9.8 miles to the location of Tenneco Oil Tusher Canyon Unit USA 1-2.

C. Access Road Labelled:

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

- D. All roads within 3 miles of the proposed location are shown on exhibit 5.
- E. The existing roads are shown in Exhibit 5.
- F. Existing Road Maintenance or Improvement:

The existing road will be improved as needed and per the requirements of the Grand County Road Supervisor. The 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 dirt width will be 24 feet. The average traveled surface width will be 18 feet. Road will be 18' crown road, 9' either side of Centerline with drain ditches along either side where it is determined necessary in order to assure satisfactory drainage.

2. The grade of the road will vary from 0 to 8% but will not exceed 8% with one exception. A ramp will be constructed at a point marked on exhibit 4, approx. 200' in length and at a grade of 14%.
3. Turnouts: Turnouts will be constructed in accordance with the request of the Grand County Road Supervisor.
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 BLM.

Max: cut - 5'
Max: fill - 13' at ramp
6. Surfacing Material:
The proposed permanent access road will be constructed with native material.
7. Gates, Cattleguards, Fence Cuts: ~~Not needed~~. One gate will be constructed at the 14% grade ramp.
8. New portion of road will be center flagged.

III. LOCATION OF EXISTING WELLS No wells exist within 3 miles.

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

- A. Water Wells:
- 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:

NONE

- ~~1. Tank batteries -~~
- ~~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 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 needed 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 the State of Utah.

B. Water transportation system: Water to be hauled in trucks from an undetermined pick up point in Tusher Canyon. This point will be determined by the State of Utah. No roads other than those roads being used for access

C. Water wells: None to drill sites will be required for purposes of hauling water.

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 Exhibits 4 and 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 at a legal location.

E. Garbage:

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 and 3

1. Location of pits: 2 and 3
2. Rig Orientation: 2 and 3

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: The topography of the area is typical of the "Book Cliffs" in east central Utah. The major drainage is right hand Tusher Canyon and flows generally Southwesterly and eventually joins the Green River. Rock types are stratified sandstone with layers of shale and conglomerates. The soil is generally poor and quite rocky with some outcrops of Bentonite clays. Vegetation is generally quite thick with Juniper and Pinion Pine on the slopes and sagebrush in the lower areas and wash bottoms. The elevation of the area ranges from 5800 to 6880 feet above mean sea level 1927 datum.
- 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: The canyon bottom adjacent to the location carries a light intermittent flow of water.
 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

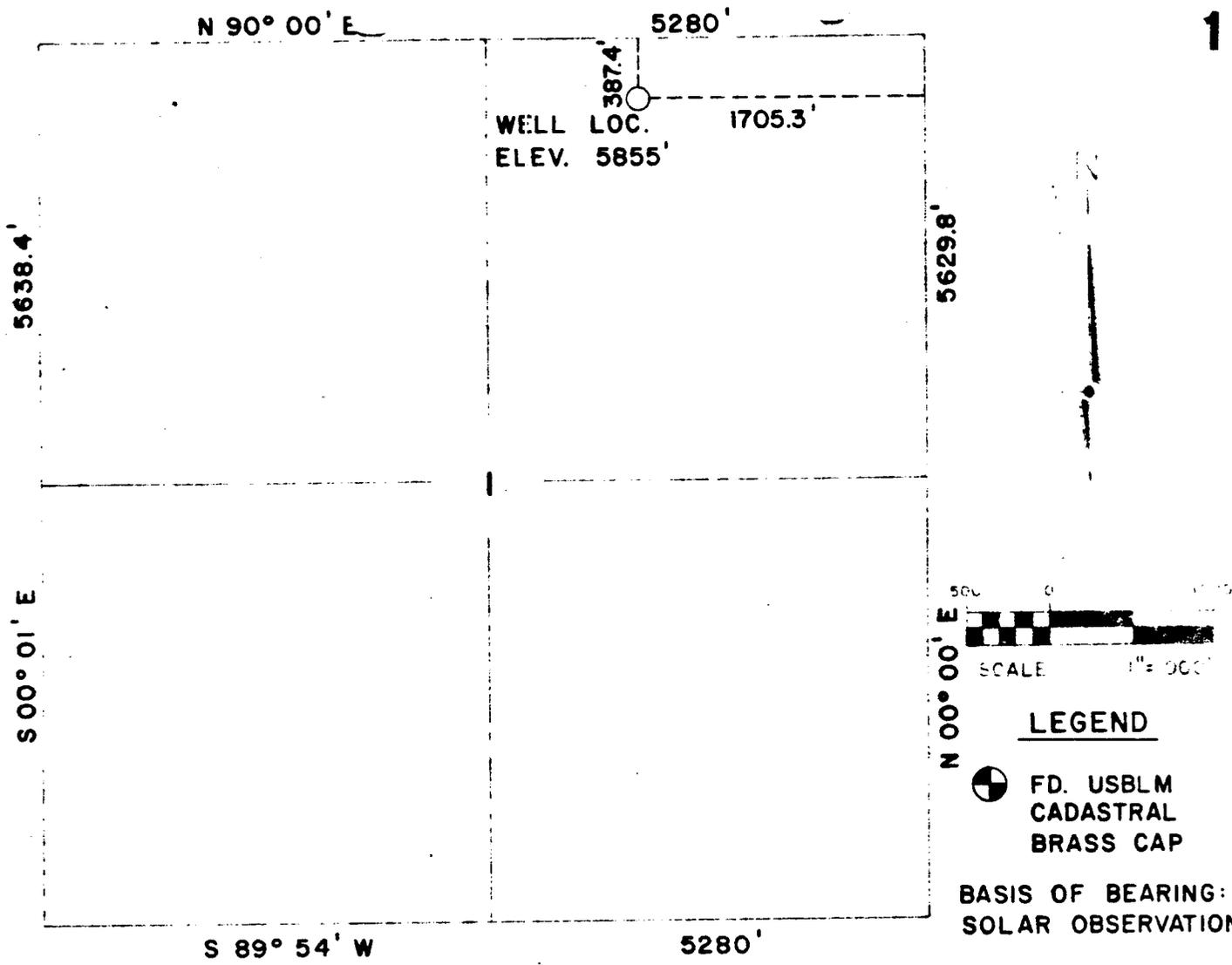
Rober A. Mishler
P.O. Box 3249
Englewood, Colorado 80155
Phone: (303) 740-4825

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 in conformity with this plan and the terms and conditions under which it is approved.

DATE: May 6, 1981


R. A. Mishler
Sr. Production Analyst



WELL LOCATION
 387.4 FT S. N.L. - 1705.3 FT. W. E. L.
 SECTION 1, T.20S., R.18E., 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.

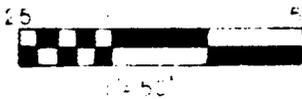
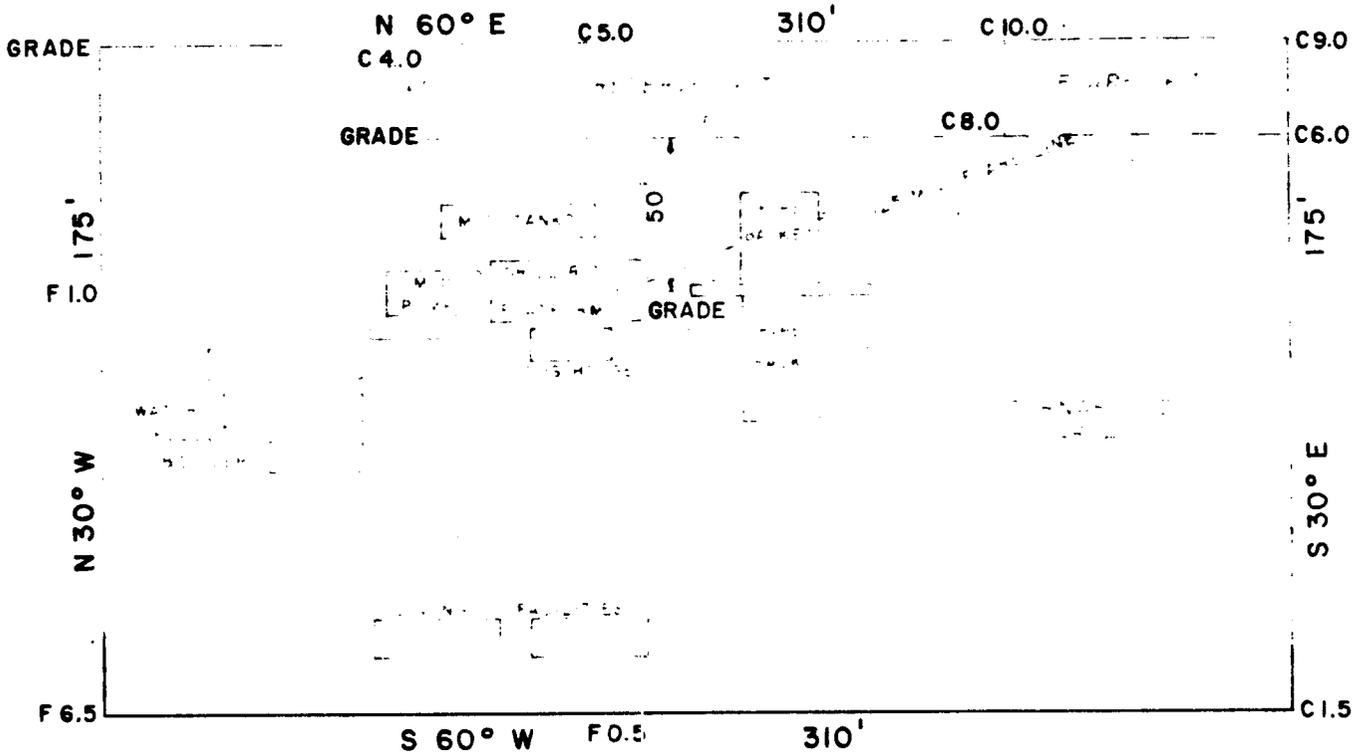
Edward A. Armstrong
 EDWARD A. ARMSTRONG P.E. S. 4464



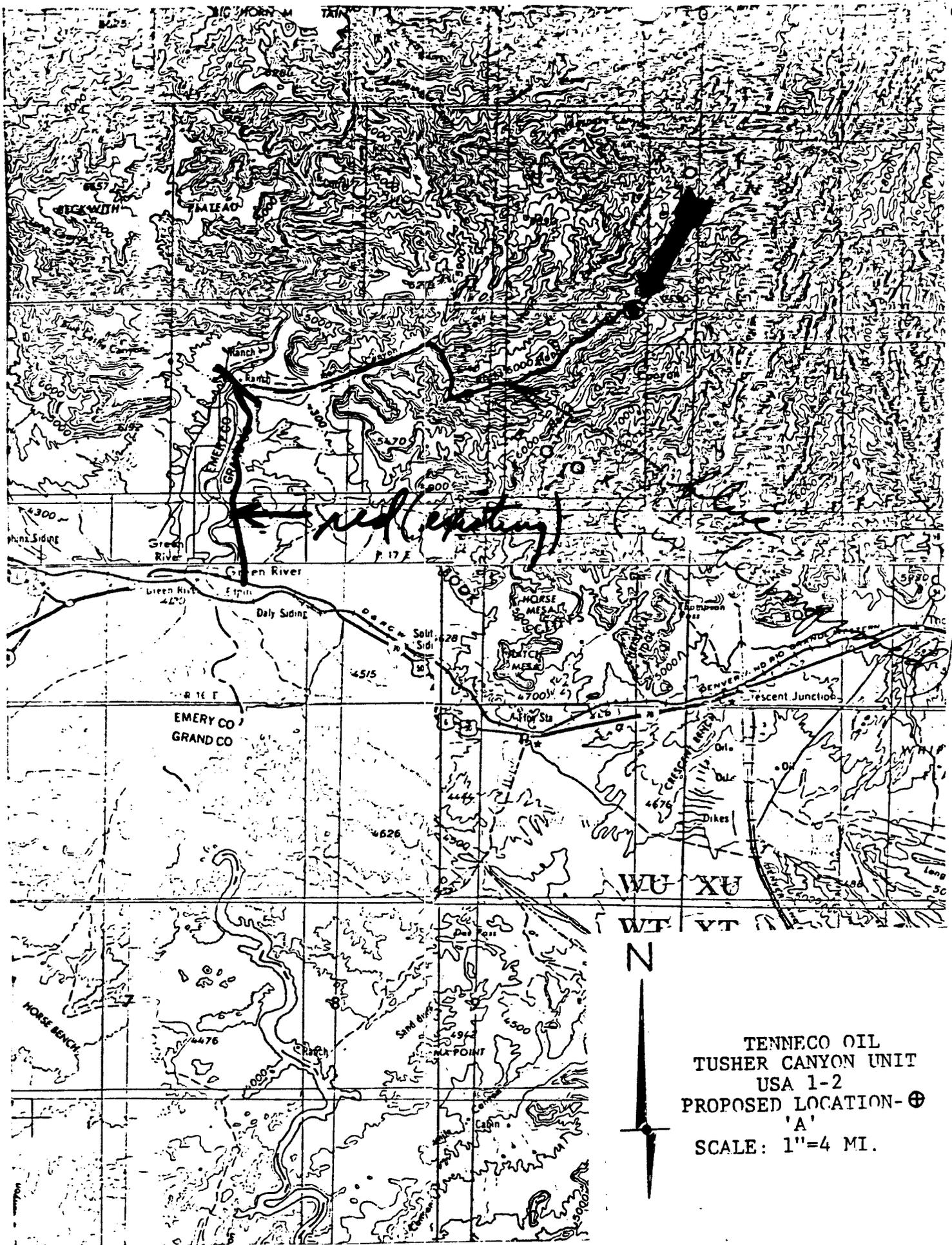
	ARMSTRONG ENGINEERS and ASSOCIATES, INC. ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING 861 ROOD AVENUE • GRAND JUNCTION, COLORADO 81501 (303) 245-3861	
	SCALE 1" = 100'	TENNECO OIL TUSHER CANYON UNIT USA 1-2
	DATE 4/28/81 PROJECT P.A.P. DRAWN BY E.A.A. DATE OF SURVEY 3/31/81	SHEET 1 of 5
	JOB NUMBER 813283	

RIG LAYOUT

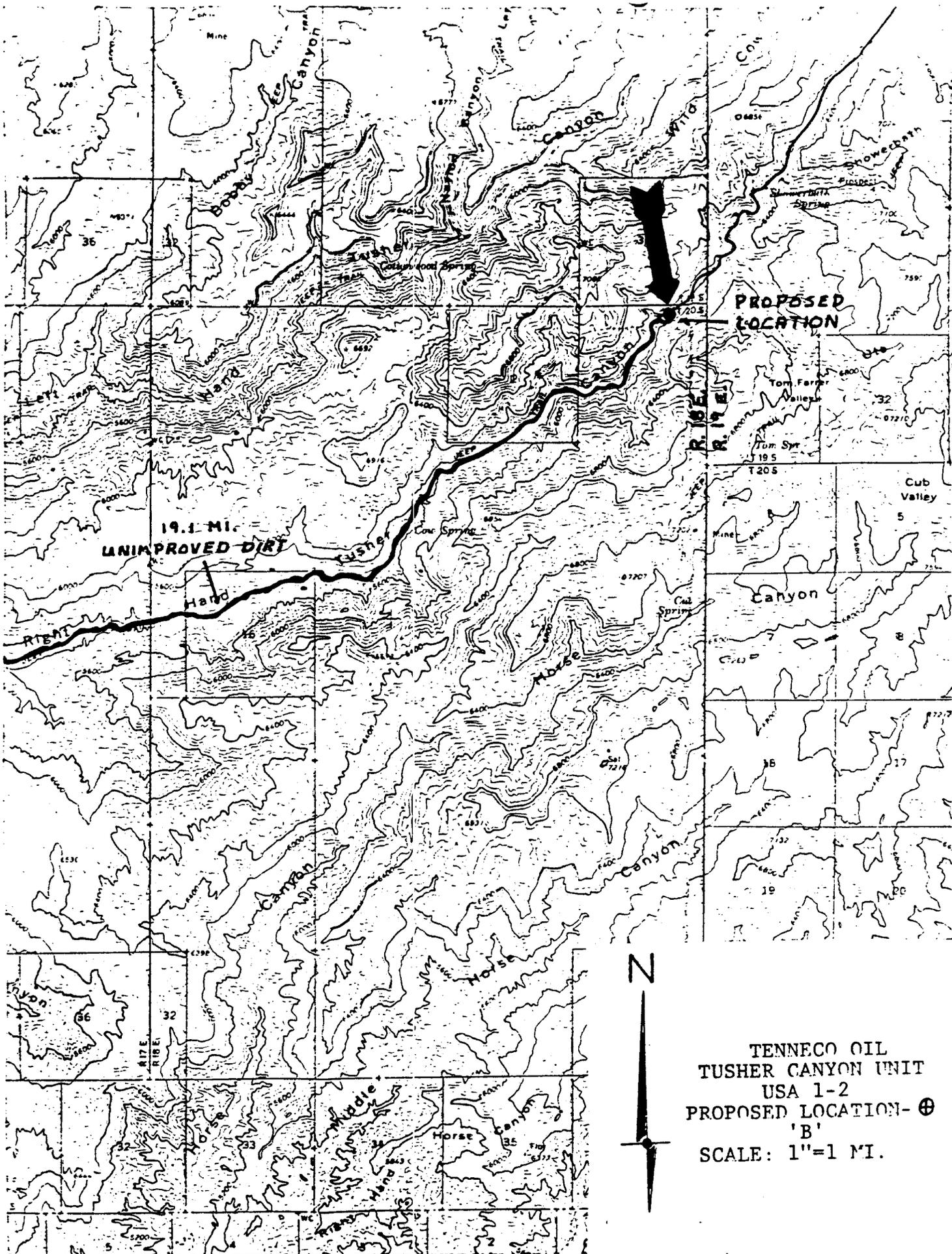
3



	ARMSTRONG ENGINEERS and ASSOCIATES, INC. ENGINEERING • SURVEYING • SOILS AND CONCRETE TESTING 811 ROOD AVENUE • DENVER, COLORADO 80202 • (303) 245-3881	
	SCALE 1" = 50'	TENNECO OIL TUSHER CANYON UNIT USA 1-2
	DATE 4/28/81	
	DRAWN BY PAP	SHEET 3 of 5
CHECKED BY JEA	DATE 5/31/81	JOB NUMBER 813283

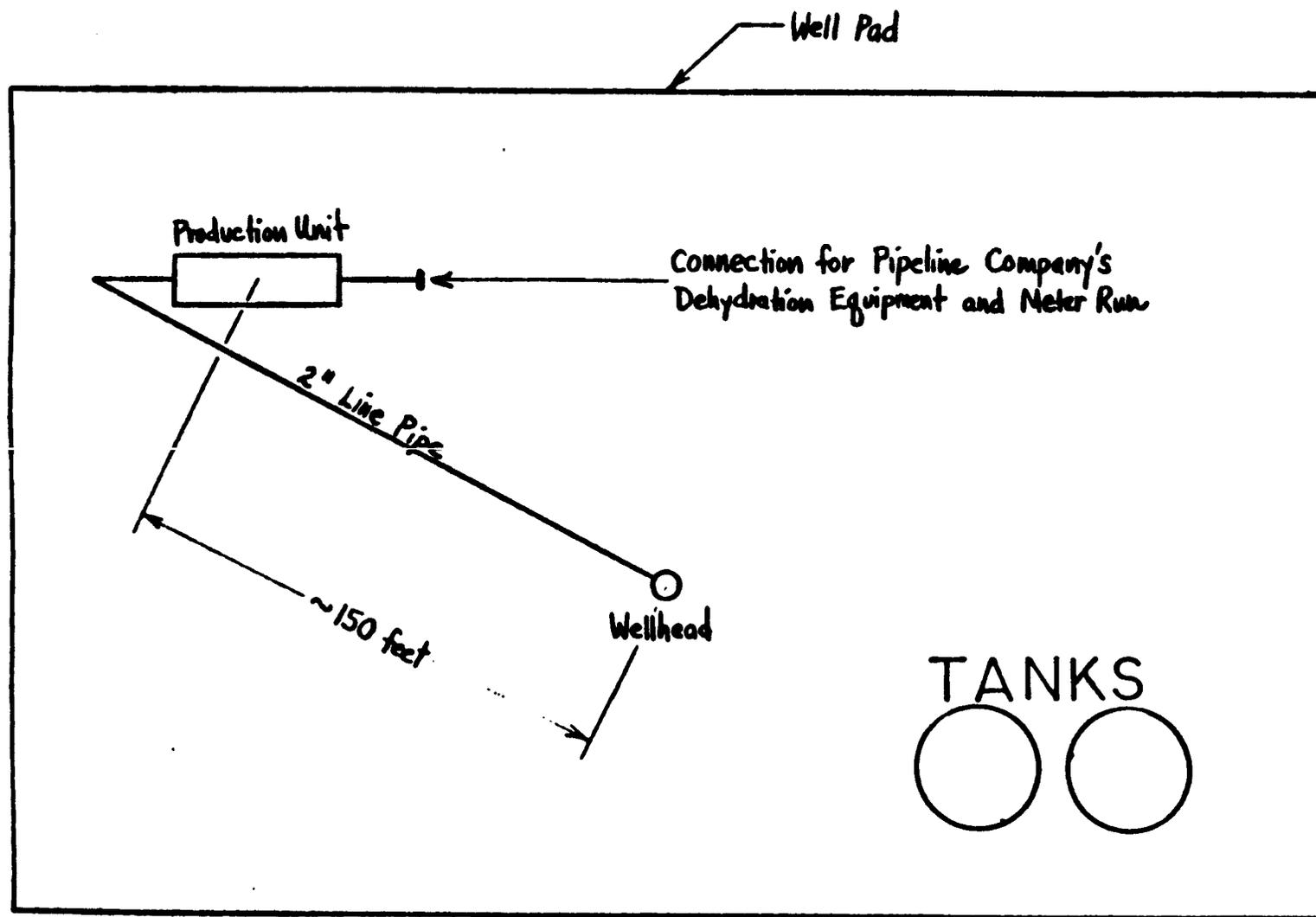


TENNECO OIL
 TUSHER CANYON UNIT
 USA 1-2
 PROPOSED LOCATION-⊕
 'A'
 SCALE: 1"=4 MI.

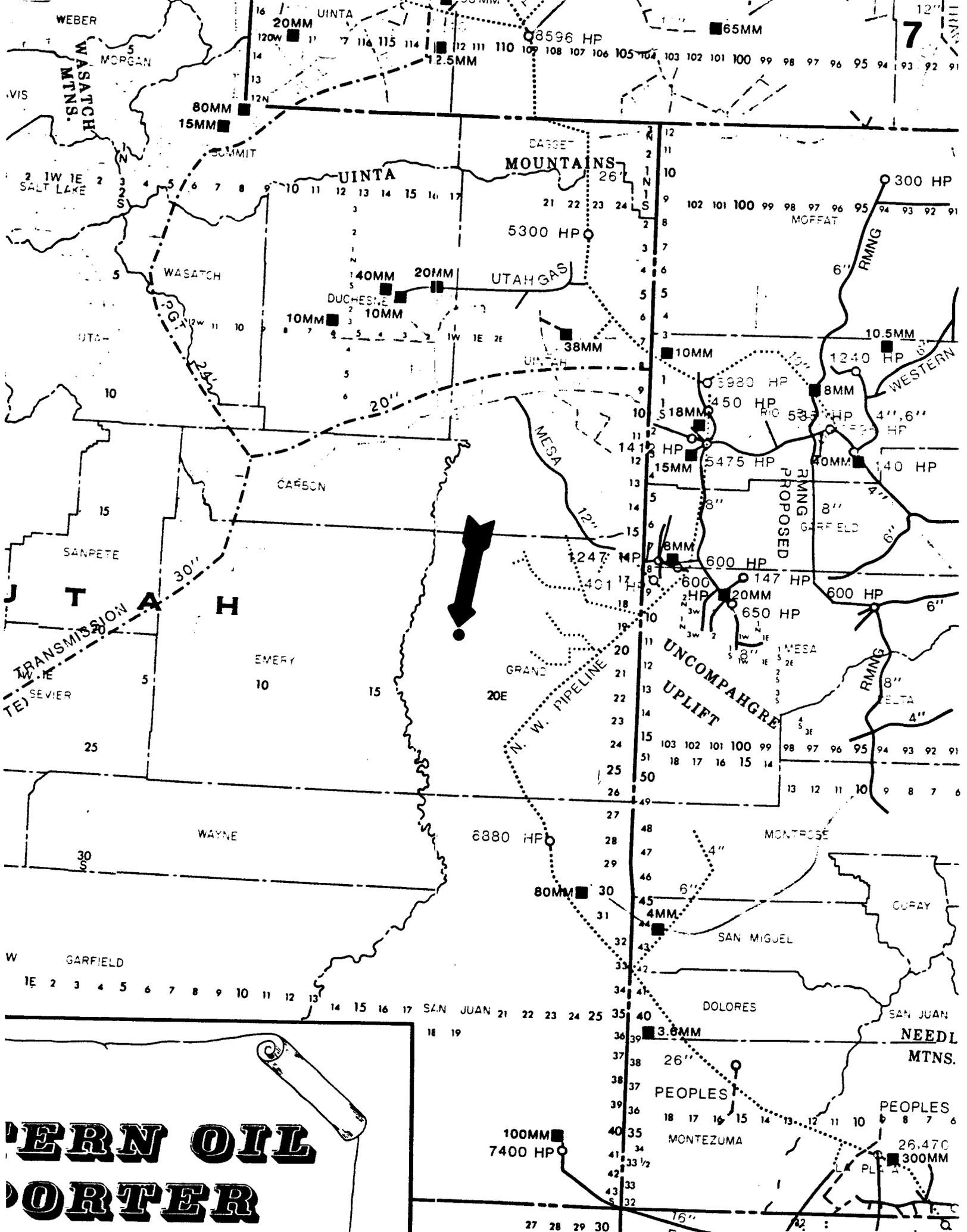


TENNECO OIL
 TUSHER CANYON UNIT
 USA 1-2
 PROPOSED LOCATION- ⊕
 'B'
 SCALE: 1"=1 MI.

PROBABLE EQUIPMENT INSTALLATION



NOT TO SCALE



ERN OIL
PORTER



United States Department of the Interior

IN REPLY REFER TO

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

3109
(U-603)

Mr. Lee Freeman
Tenneco Oil Co.
P. O. Box 3249
Englewood, CO. 80155

Subject: Staking Request (PER)
Well: Tusher Canyon Unit USA 1-2
Section 1, T. 20 S., R. 18 E.
Grand County, Ut.

Dear Mr. Freeman:

This office has no objections to staking the above subject location.

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 County Road Supervisor. An archaeological clearance must be obtained after staking the site(s).

Furthermore, you should be aware that if any activity is planned on the south side of the access, this lies within the Floy Canyon wilderness inventory unit (UT-060-068B) and is subject to interim management policy (IMP) until the expiration of the appeals timeframe following resolution of a public protest. The protest was amended February 26, 1981 but is subject to appeal by affected parties until April 6, 1981. If no appeal is received the location will no longer be subject to IMP. If your site is planned on the north side of the access, it is not subject to IMP.

Sincerely yours,

Colin P. Christensen
Area Manager

cc:
Grand County Road Supervisor

RECEIVED

MAR 24 1981

**TENNECO OIL CO.
DENVER**

** FILE NOTATIONS **

DATE: June 12, 1981

OPERATOR: Tenneco Oil Co.

WELL NO: Zushu Cym. Unit USA #1-2

Location: Sec. 1 T. 20S R. 18E County: Grand

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-019-30814

CHECKED BY:

Petroleum Engineer: M. J. Minder 6-29-81

Director: _____

Administrative Aide: as per Rule C-3, needs topo to close to N boundary, as on any other oil & gas wells

APPROVAL LETTER:

Unit approval

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 Fed.

Plotted on Map

Approval Letter Written

Hot Line

P.I.

June 30, 1981

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

RE: Well No. Tusher Canyon Unit #SA #1-2
Sec. 1, T. 20S, R. 18E,
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. MINBER - 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 43-019-30814.

Sincerely,

DIVISION OF OIL, GAS, AND MINING


Michael T. Minder
Petroleum Engineer

MTM/db
CC: USGS

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, CO 80155

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
 387.4' FNL, 1705.3' FEL
 At proposed prod. zone
 same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approx. 18 miles NE of Green River, Utah

5. LEASE DESIGNATION AND SERIAL NO.
 USA U - 15996

6. IF INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Tusher Canyon PROPOSED

8. FARM OR LEASE NAME
 Tusher Canyon Unit USA

9. WELL NO.
 1-2

10. FIELD AND POOL, OR WILDCAT
 Entrada Test, Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec 1, T20S, R18E

12. COUNTY OR PARISH 13. STATE
 Grand Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) unit boundary
 Approx. 1 1/2 miles from

16. NO. OF ACRES IN LEASE
 2469.76

17. NO. OF ACRES ASSIGNED TO THIS WELL
 Approx. 393 acres

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

19. PROPOSED DEPTH
 ±6150'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 ground 5855'

22. APPROX. DATE WORK WILL START*
 May/June, 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#	+1500'	Circulate to surface
6 1/2"	4 1/2" new	10.5#	+6150'	Sufficient to cover all productive zones

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

Pre-stake clearance attached.

An archaeological survey has been ordered.

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. Prod. Analyst DATE May 6, 1981
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY E. W. Gwynn TITLE FOR DISTRICT ENGINEER DATE JUL 09 1981
 CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED
 NOTICE OF APPROVAL TO OPERATOR'S COPY

*See Instructions On Reverse Side

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

state of CO

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 Oil Co. Tusher Canyon Unit 1-2

Project Type Wildcat Gas Test

Project Location 387.4' FNL, 1705.3' FEL, Sec. 1, T20S, R18E, Grand Co., Utah

Date Project Submitted May 12, 1981

FIELD INSPECTION

Date June 12, 1981

Field Inspection
Participants

Bob Mishler, Ted Hopkins - Tenneco

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.

June 29, 1981
Date Prepared

Glenn M. Doyle
Environmental Scientist

I concur

JUL 09 1981
Date

W. W. Martin FOR
District Supervisor
E. W. GUYNN
DISTRICT ENGINEER

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria	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)						
516 DM 2.3.A									
Public health and safety							6	6-12-81	(
Unique characteristics					1, 2	1			(
Environmentally controversial							6		
Uncertain and unknown risks						4			
Establishes precedents					1, 2				
Cumulatively significant					1, 2				(
National Register historic places	1-6/29/81								
Endangered/threatened species	1-6/29/81								
Violate Federal, State, local, tribal law						4			3

Site-specific stipulations attached

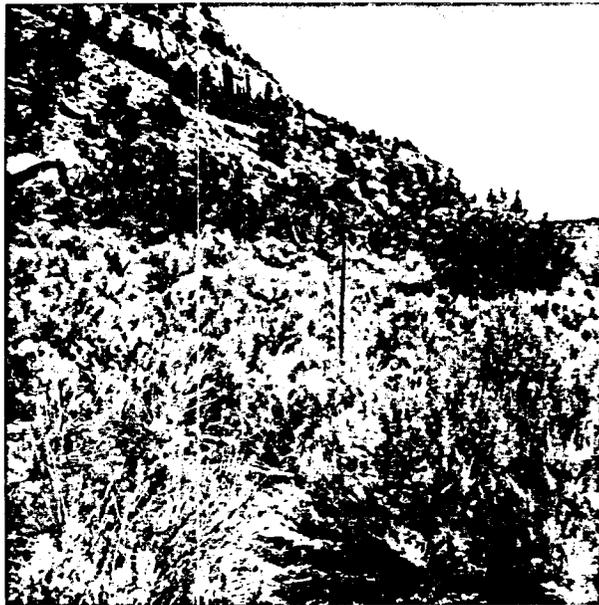
COMMON REFERENCE LIST

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

Site-specific Stipulations

- 1) The reserve/blooiie pit will be keyseated so as to hinder subsurface fluid migration.
- 2) A diversion ditch will be constructed along the north (cut) edge of the location above the reserve pit, contoured to the fall line of Tusher Canyon drainage and connected with this drainage west of the location.
- 3) The location will be rounded off on the SE and SW corners (approx. 25') to conform to the drainage pattern.
- 4) The reserve pit will be fenced on three sides prior to drilling and on the fourth side once the rig moves off.





United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District
Grand Resource Area
P. O. Box M
Moab, Utah 84532

IN REPLY REFER TO

3109
(U-068)
U-15996

JUN 25 1981

Memorandum

To: Oil & Gas Office
USGS Conservation Division
P. O. Box 3768
Grand Junction, CO. 81501

From: Area Manager, Grand

Subject: Tenneco Oil Company (APD)
Tusher Canyon Unit, USA 1-2
Lease # U-15996
NW/NE Section 1, T. 20 S., R. 18 E., SLB&M
Grand County, Utah

On June 12, 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: (3)
1-Seed Mixture
2-Suggested Colors - Production Facilities

U. S. GEOLOGICAL SURVEY
OIL AND GAS OPERATIONS
RECEIVED

JUN 29 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 east corner 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 sub-surface 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 and Gas" pamphlet (joint BLM, USGS and USFS publication).

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

Access -

- 1) The location lies north of, and adjacent to the right hand fork of Tusher Canyon. Tusher Canyon road is claimed by Grand County and will be used by Tenneco for access. New road construction will be needed to get out of the main canyon and into the location.

Location -

- 1) Vegetation cleared off from the pad will be piled behind the top soil at the north east corner.
- 2) Top soils will be placed in such a manner that a safety barrier will be formed around the end of the blooey pit.
- 3) Pit(s) will be 225 feet long x 25 feet wide x 8 feet deep. Pits will be key seated along the center, in an attempt to control the seepage.

- 4) A dike or ditch will be constructed along the cut portion of the pad to control any water run-off.
- 5) Pad size will be reduced or rounded off by at least 25 feet at each of the two corners nearest the Right Hand Tusher Canyon Wash. The pad will not infringe on the wash in any way.
- 6) Access road will be along the edge of the pad, nearest the wash, but out of the wash.
- 7) Pit(s) will be fenced on 3 sides with 5 strands of barbed wire prior to drilling. The 4th side will be fenced prior to rig removal.

SEED MIXTURE

<u>Species</u>		<u>lbs/ac</u>
<u>Grasses</u>		
Oryzopsis hymenoides	Indian rice grass	1
Stipa cometa	Needleandthread	1
<u>Forbs</u>		
Sphaeralcea coccinnia	Globemallow	1
<u>Shrubs</u>		
Atriplex canescens	Four Wing salt bush	1
Atriplex confertifolia	Shadscale	<u>1</u>
	Total	5



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

IN REPLY REFER TO

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&G, SALT LAKE CITY, UTAH
 SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. USA U-15996

OPERATOR: Tenneco WELL NO. 1-2

LOCATION: NE 1/4 NW 1/4 NE 1/4 sec. 1, T. 20S, R. 18E, SLM
Grand County, Utah

1. Stratigraphy:

Mesaverde surface			
Mancos	1180'	Morrison	5570'
Castlegate	1295'	Entrada	6030'
Dakota Silt	5130'	<u>TD</u>	<u>6150'</u>
Dakota	5265'		

2. Fresh Water:

Fresh water may be present in the Mesaverde and the Castlegate.

3. Leasable Minerals:

Coal: Mesaverde (800' to ~1200'). Location is within the Sege Coal Field.

Oil / Gas: Dakota Silt to TD

4. Additional Logs Needed:

Gamma Ray log should be included with suite through the coal zone for coal identification behind surface casing.

5. Potential Geologic Hazards: None expected

6. References and Remarks:

Signature: Gregory W. Wood Date: 5-14-81



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

February 8, 1982

Tenneco Oil Company
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

Cari Furse

Cari Furse
Clerk Typist

Well No. Conklin 4-4
Sec. 3, T. 17S, R. 24E
Grand County, Utah

Well No. Glisson USA #27-2
Sec. 27, T. 17S, R. 25E
Grand County, Utah

Well No. Diamond Canyon Unit #2- State #16-4
Sec. 16, T. 18S, R. 22E
Grand County, Utah

Well No. Tusher Canyon Unit USA 1-2
Sec. 1, T. 20S, R. 18E
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



March 18, 1982

State of Utah
Natural Resources and Energy
4241 State Office Building
Salt Lake City, UT 84114

LA

Attn: Ms. Cari Furse

RE: State Approval of APD's

Dear Ms. Furse:

In reference to your letters dated February 8, 1982 concerning APD's approved by your office, here is the current status of each:

Conklin 4-4
Sec. 9, T17S R24E
Grand, UT

No plans to drill this in 1982
Please return APD

Glisson USA 27-2
Sec. 27, T17S R25E
Grand, UT

No plans to drill this in 1982
Please return APD

Diamond Canyon Unit II State 16-4
Sec. 16, T18S R22E
Grand, UT

We have State approval until
June 30, 1982

Tusher Canyon Unit USA 1-2
Sec. 1, T20S R18E
Grand, UT

No plans to drill this in 1982
Please return APD

USA #15-7
(now named) Diamond Canyon
Unit II USA 15-7
Sec. 15, T18S R22E
Grand, UT

No plans to drill this in 1982
Please return APD

USA #20-11
Sec. 20, T18S R24E
Grand, UT

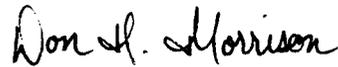
No plans to drill this in 1982
Please return APD

Page 2
State of Utah
March 18, 1982

We apologize for the lateness in responding to your letters. They were sent to the wrong people in our department. In the future, to facilitate a quicker response to matters concerning APD's, sundry notices and like regulatory reports, please send letters to the attention of either: Mr. Lee Freeman, Administrative Supervisor - Regulatory Reporting or myself.

Very truly yours

TENNECO OIL COMPANY

A handwritten signature in cursive script that reads "Don H. Morrison".

Don H. Morrison
Production Analyst

DHM:jt

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

July 9, 1982

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

Re: Rescind Applications for Permit
to Drill
Well No. 4-4
Section 4-T17S-R24E - Grand County
Lease No. U-36863

Concluded

Done

Well No. 1-2
Section 1-T20S-R18E - Grand County
Lease No. U-15996

Done

Gentlemen:

*Tussock Canyon
UNIT USA*

The Applications for Permit to Drill the referenced wells were approved on July 6 and July 9, 1981, respectively. Since that date no known activity has transpired at the approved locations. Under current District policy, applications for permit to drill are effective for a period of one year. In view of the foregoing this office is rescinding the approval of the referenced applications without prejudice. If you intend to drill at these locations at a future date, new applications for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for these drill sites. Any surface disturbance associated with the approved locations of these wells is to be rehabilitated. A schedule for this rehabilitation must then be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

E. W. Gynn
District Oil & Gas Supervisor

bcc: SMA
State O&G ✓
State BLM
MMS-Durango
Well File
APD Control
DH/dh