

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

6162 South Willow Drive
P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800



Western Rocky Mountain Division

August 5, 1985

RECEIVED

AUG 06 1985

DIVISION OF OIL
GAS & MINING

Utah Oil Gas and Mining
355 West North Temple
Three Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attention: Ron Firth

RE: Little Valley #2-18
1300' FWL, 1810' FSL
Sec. 18, T37S, R2E
Garfield County, UT

Gentlemen:

This is a request for administrative approval for an unorthodox oil well located in the NE 1/4 SW 1/4 of Sec. 18, T37S, R2E.

Due to the topography in the area being dominated by a substantial wooded ridge traversing in a northwesterly direction across Lot 3 (NW/4 SW/4), changing to a more southerly direction and sloping towards the south across Lot 4 (SW/4 SW/4) and the section line towards Death Ridge, geological reasons, and in an effort to limit cut and fills, we are unable to build an orthodox location.

Plats showing the proposed well location and the terrain in section 18 are attached. Tenneco Oil Company and its partner, Sun Oil Company, own the lease surrounding the wellbore with in 660 feet.

We respectfully request your approval of an exemption to the standard well location requirements.

Very Truly Yours,

TENNECO OIL COMPANY

Scott McKinney
Senior Regulatory Analyst

SMc/st

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 1300' FWL, 1810' FSL — *NE SW*
 At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
 U-31225

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Little Valley

9. WELL NO.
 2-18

10. FIELD AND POOL, OR WILDCAT
 ✓ Upper Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec.18, T37S, R2E

12. COUNTY OR PARISH 13. STATE
 Garfield Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately 19 miles south Escalante, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1300'

16. NO. OF ACRES IN LEASE 1432.09 A

17. NO. OF ACRES ASSIGNED TO THIS WELL 160 A

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. +/- 7784 *White River*

19. PROPOSED DEPTH Rotary

20. ROTARY OR CABLE TOOLS

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7586' GL

22. APPROX. DATE WORK WILL START* ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
* 20"	16" (conductor)	75#	+/- 500'	Circ cmt to surface
14 3/4"	9 5/8"	36#	+/- 3200'	Circ cmt to surface
8 3/4"	7"	26#	+/- 7784'	2 stage-circ cmt to Inter csg.

* See optional protection hole for loss circulation on attached drilling procedure.

APPROVED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING
 DATE: 8/8/85
 BY: John R. Daga
 WELL SPACING: G-3(c)

RECEIVED
 AUG 06 1985
 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.

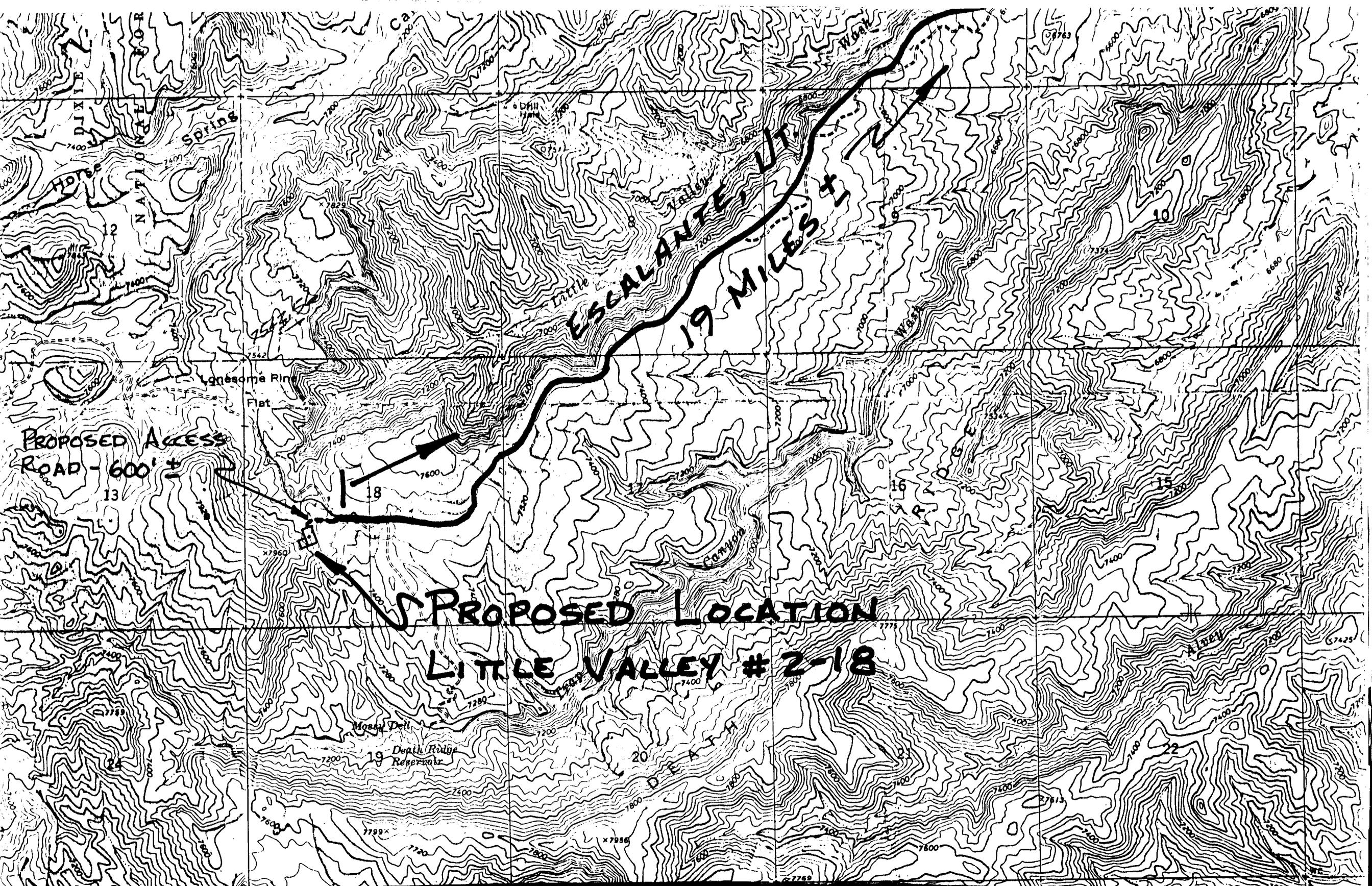
24. SIGNED Scott McKim TITLE Sr. Regulatory Analyst DATE 5/14/85

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



ESCALANTE, UT
19 MILES ±

PROPOSED ACCESS
ROAD - 600' ±

PROPOSED LOCATION
LITTLE VALLEY # 2-18

Spring

Lionsome River
Flat

Mossy Dell

19 Death Ridge
Reservoir

20 DEATH

10

16

15

13

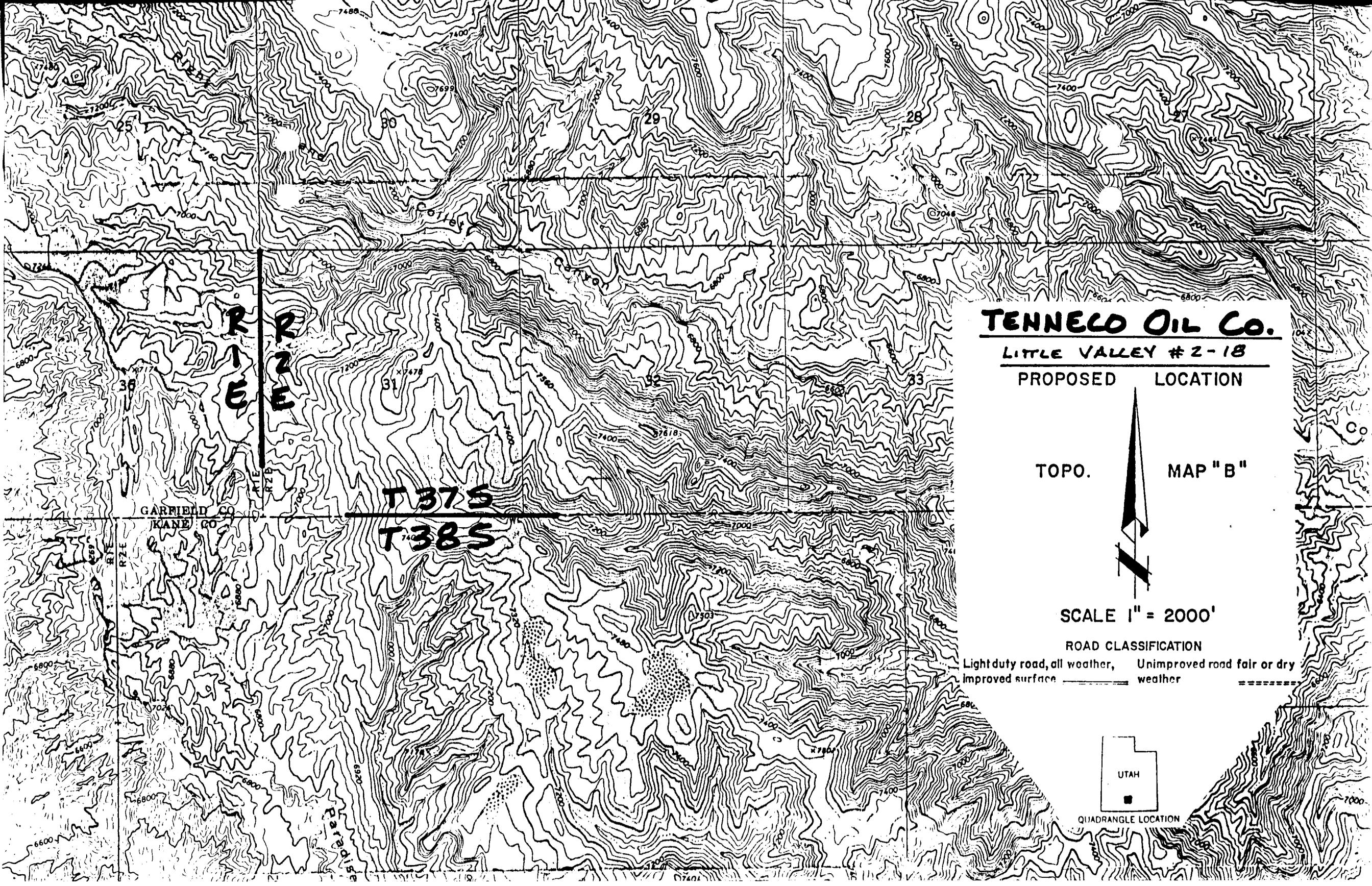
7799x

x 7936

77813

67425

DIXIE
HORSE
NATIONAL MONUMENT



TENNECO OIL Co.

LITTLE VALLEY # 2-18

PROPOSED LOCATION

TOPO.

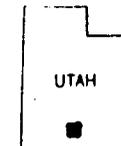
MAP "B"



SCALE 1" = 2000'

ROAD CLASSIFICATION

Light duty road, all weather, Improved surface Unimproved road fair or dry weather



QUADRANGLE LOCATION

TENNECO OIL COMPANY
DRILLING PROGRAM

Little Valley 2-18
1810' FSL 1300' FWL Section 18, T37S, R2E
Garfield County, Utah

1. ESTIMATED FORMATION TOPS:

Navajo	4074' K.B.
Chinle	6084' K.B.
Shinarump	6664' K.B.
Moenkopi	6804' K.B.
Timpoweap (K-1)	7544" K.B.
K-3	7644' K.B.
K-4	7724' K.B.
White Rim	7784' K.B.
TD	7784' K.B.

2. ESTIMATED TOPS OF ANTICIPATED WATER, OIL AND/OR GAS FORMATIONS:

Navajo	4070' K.B.	Loss Circulation/Water Flows
Timpoweap (K-1)	7544' K.B.	Oil and Gas
K-3	7644' K.B.	Oil and Gas
K-4	7724' K.B.	Oil and Gas

Any fresh water zones encountered will be reported and adequately protected. All potentially productive hydrocarbon zones will be cemented using stage equipment if necessary.

3. CONDUCTOR HOLE:

A. Casing Program

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt/Ft</u>	<u>Grade</u>	<u>Joint</u>	<u>Depth Set</u>	<u>String Length</u>
26"	22"	114.8#	B	Plain End	0-55' K.B.	50'

B. Cementing Program

Minimum 100 sxs Redi-Mix, fill to surface

C. Mud Program

<u>Interval</u>	<u>Type</u>
0' - 55' K.B.	Dry Hole Drill

D. Evaluation Program:

<u>Interval</u>	<u>Type</u>
0' - 55' K.B.	No Logs Planned

E. Abnormal Conditions

No abnormal conditions are anticipated.

F. Pressure Control Equipment:

Type: Grant Model 8068 16 3/4" Rotating head with short drive bushing. 22" weld on mounting flange.

Pressure Rating: Rotating head is to be used as a diverter and is not pressure rated.

Testing Procedure: No pressure testing required. Nipple Up above pressure control equipment only if 8 3/4" pilot hole does not encounter loss circulation to 500' K.B.

G. Auxiliary Equipment: None.

H. Hole Deviation: Maximum allowable deviation at conductor hole T.D. is 0°. 22" conductor pipe should be set vertical.

I. Drilling Procedure: Move in and rig up Dry Hole Rig. Spud 26" hole to 42' G.L. - 55' K.B. Set 50' joint of 22" conductor pipe. Cement with minimum 100 sxs Redi-Mix, fill to surface. Nipple up flow line.

4. OPTIONAL PROTECTION HOLE:

A. Casing Program

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt/Ft</u>	<u>Grade</u>	<u>Joint</u>	<u>Depth Set</u>	<u>String Length</u>
20"	16"	75#	K-55	S.T. & C.	500' K.B.	500'

B. Cementing Program

True hole volume plus 100% excess Class "A" cement to casing depth. Circulate to surface.

C. Mud Program

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
55'-500'	Spud Mud	8.4 - 8.6	45-50	NC

D. Evaluation Program:

<u>Interval</u>	<u>Type</u>
55' - 500'	No Logs Planned

E. Abnormal Conditions

No abnormal conditions are anticipated.

F. Pressure Control Equipment

Type: Grant Model 8068 16 3/4" Rotating head with short drive bushing. 16 3/4" x 2,000 psi, weld on flange. 16 3/4" x 2,000 P.S.I. x 16" mounting flange spool.

Pressure Rating: Rotating head is to be used as a diverter and is not pressure rated.

Testing Procedure: No pressure testing required. Nipple up above pressure control equipment only if 8 3/4" pilot hole does encounter loss circulation to 500' K. B. and 16" casing is run.

G. Auxiliary Equipment:

- 1) A kelly cock will be kept in the string at all times.
- 2) A drill pipe safety valve will be kept on the rig floor at all times.

H. Hole Deviation: Maximum allowable deviation at 500' is 1°.

I. Drilling Procedure:

Drill out 22" conductor with 8 3/4" pilot hole. If loss of circulation occurs to 500' K.B., drill blind 50' below loss zone.* Ream 8 3/4" hole to 14 3/4" hole and 14 3/4" hole to 20" hole. Run 16" casing to depth and cement with 100% excess Class "A" cement. Circulate back to surface. Nipple up pressure control equipment on 16" casing. If loss of circulation does not occur to 500' K.B., nipple up pressure control equipment on 22" casing. Ream 8 3/4" hole to 14 3/4" hole and drill to estimated depth of 3200'.

5. SURFACE HOLE:

A. Casing Program

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt/Ft</u>	<u>Grade</u>	<u>Joint</u>	<u>Depth Set</u>	<u>String Length</u>
14 3/4"	9 5/8"	36#	K-55	S.T. & C.	3200' K.B.	3200'
	*1.66"	2.33#	J-55	IJ	2600' K.B.	2600'

*Attached to 9 5/8" csg.

9 5/8" casing to be pressure tested to 1500' P.S.I.

B. Cementing Program

Minimum 960 sxs. Hi-Fill cement lead.
Minimum 580 sxs. Class "A" cement tail-in.
Minimum 100 sxs. Class "A" pumped down 100' at surface.
True hole volume + 100% excess. Circulate to surface.

C. Mud Program

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
55'-3200'	LSND	8.4 - 8.6	45-50	NC

D. Evaluation Program:

<u>Interval</u>	<u>Type</u>
55' - 3200'	No logs planned.

E. Abnormal Conditions

No abnormal conditions are anticipated.

F. Pressure Control Equipment

Type: 11" Double Gate Hydraulic with 11" Hydril and 11" Shorty rotating head; equipped with 2" choke manifold, 11" x 11" drilling spool and 9 5/8" x 11" weld on casinghead.

Pressure Rating: 3,000 P.S.I. BOP and Hydril, rotating head, 3,000 P.S.I. choke manifold, 3,000 P.S.I. casinghead.

Testing Procedure: BOP's, choke manifold, drilling spool and casinghead to be tested to 3,000 P.S.I. Hydril to be tested to 1,500 P.S.I. Dual welds on casinghead to be tested at 1,000 P.S.I.

Fill line will be 2", kill line will be 2", choke line will be 3", relief line will be 3".

BOP - drills and test will be recorded in the drillers log. Pipe rams and Hydril will be operationally checked each 24-hour period and blind rams will be checked each trip. BOP and Hydril will be tested a minimum of every thirty days. The choke manifold and BOP rods with handwheels will be located outside the sub-structure. The hydraulic closing unit will be located at least 100 feet from the wellhead in the accumulator house, with a remote control unit on the rig floor. The accumulator will be sized to fully close the ram BOP's and Hydril with the charge pumps out of service while maintaining an operating pressure of 200 P.S.I. above precharge. Also, a 50% safety factor is required to compensate for fluid loss in the control system of BOP's and Hydril.

6. Auxiliary Equipment:

- 1) A kelly cock will be kept in the string at all times.
- 2) A drill pipe safety valve will be kept on the rig floor at all times.

H) Hole Deviation:

Maximum allowable deviation at 3200' is 3° maximum rate of change is 1° per 100'.

I) Drilling Procedure:

Drill 14 3/4" to 3,200'. Run 9 5/8" casing to 3,200' with 1.66" O.D. parasite string attached at 2,600'. Cement with 100% excess Hi-Fill and Class "A" cement. Circulate back to surface. Do top job down 1", if cement does not circulate. Nipple up casinghead, BOP's, choke manifold and rotating head on 9 5/8" casing. Pressure test pressure control equipment.

6. PRODUCTION HOLE:

A. Casing Program

<u>Hole Size</u>	<u>Casing Size</u>	<u>Wt/Ft</u>	<u>Grade</u>	<u>Joint</u>	<u>Depth Set</u>	<u>String Length</u>
8 3/4"	7"	26#	K-55	L.T. & C.	0-1,000'	1,000'
	7"	26#	K-55	S.T. & C.	1,000-7,784'	6,784'

B. Cementing Program

First Stage: Minimum 575 sxs. expanding cement to sufficiently cover all potentially productive hydrocarbon zones.

Second Stage: Stage tool at 6,000'; fill-up to 3,000'.
Minimum 280 sxs. Hi-Fill cement, lead.
Minimum 50 sxs. Class "H" cement, tail.

C. Mud Program

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
3,200'-7,784'	LSND	8.4 - 8.6	35-40	10-15 cc/30 min.

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions. Inventory will not be less than the required amount to equal the active system capacity.

D. Evaluation Program:

Logs: 1) SP-GR-DIL-MICRO SFL- 3,200' to T.D.
2) GR-FDC-CNL-CAL - 3,200' to T.D.

Note: Run one GR to surface, run all other logs T.D. to 9 5/8" shoe.

Cores: 1-60' core K-4 formation.

Samples: 10' intervals 7,300' to T.D.

D.S.T.: None anticipated.

Stimulation: No stimulation has been formulated. Notification will be made by "sundry notice" prior to any completion activity.

E. Abnormal Conditions

No abnormal conditions or pressures are anticipated. Maximum anticipated bottom hole pressure equals 2,300 P.S.I. There is evidence of H₂S during the production phase of operations. H₂ monitoring equipment and safety equipment will be provided during drilling operations from 6000' to T.D. See attached contingency plan.

F. Auxiliary Equipment:

- 1) A kelly cock will be kept in the string at all times.
- 2) A drill pipe safety valve will be kept on the rig floor at all times.

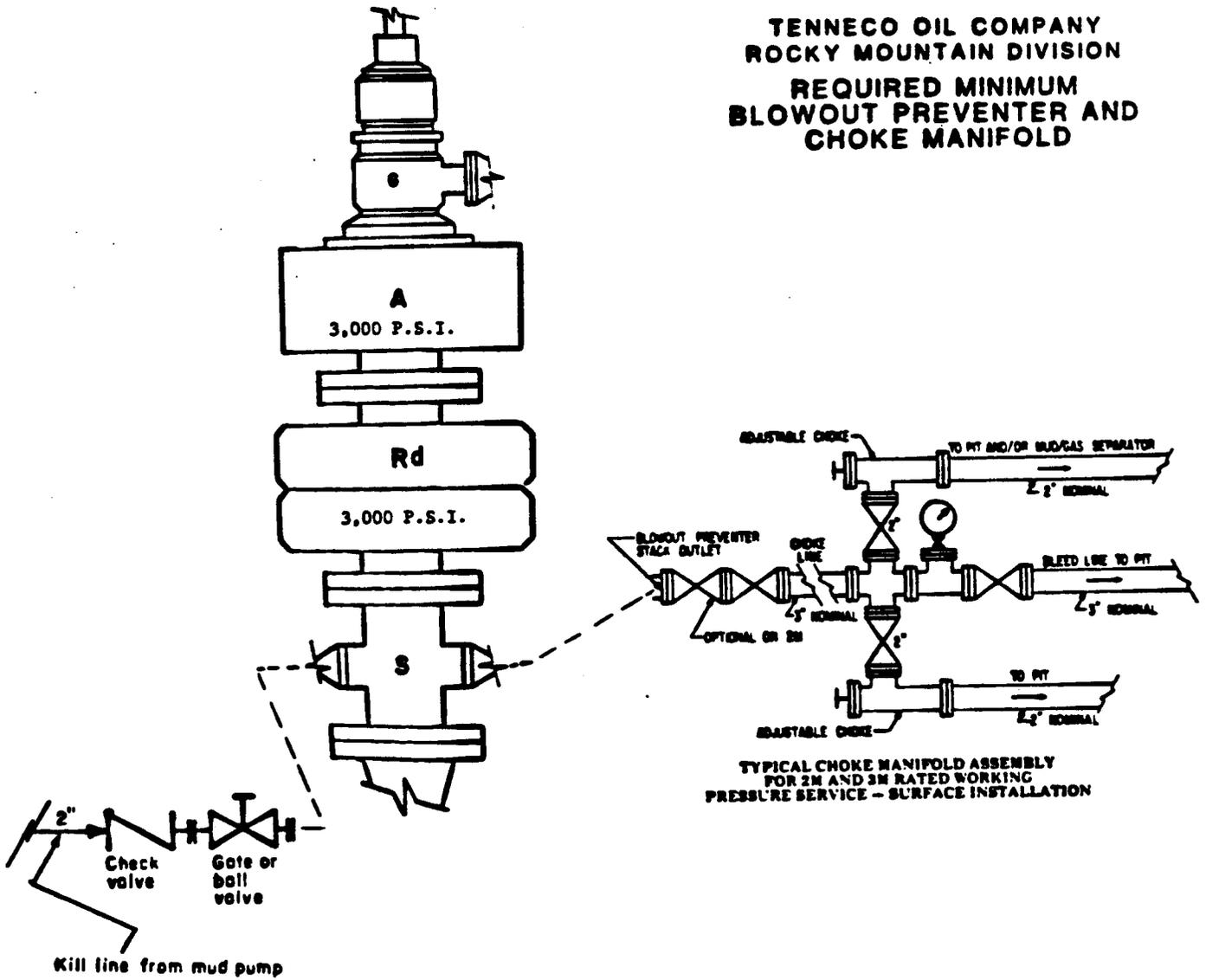
G. Hole Deviation:

Maximum allowable deviation at production hole T.D. is 7°. Maximum rate of change is 1° per 100'.

H. Drilling Procedure:

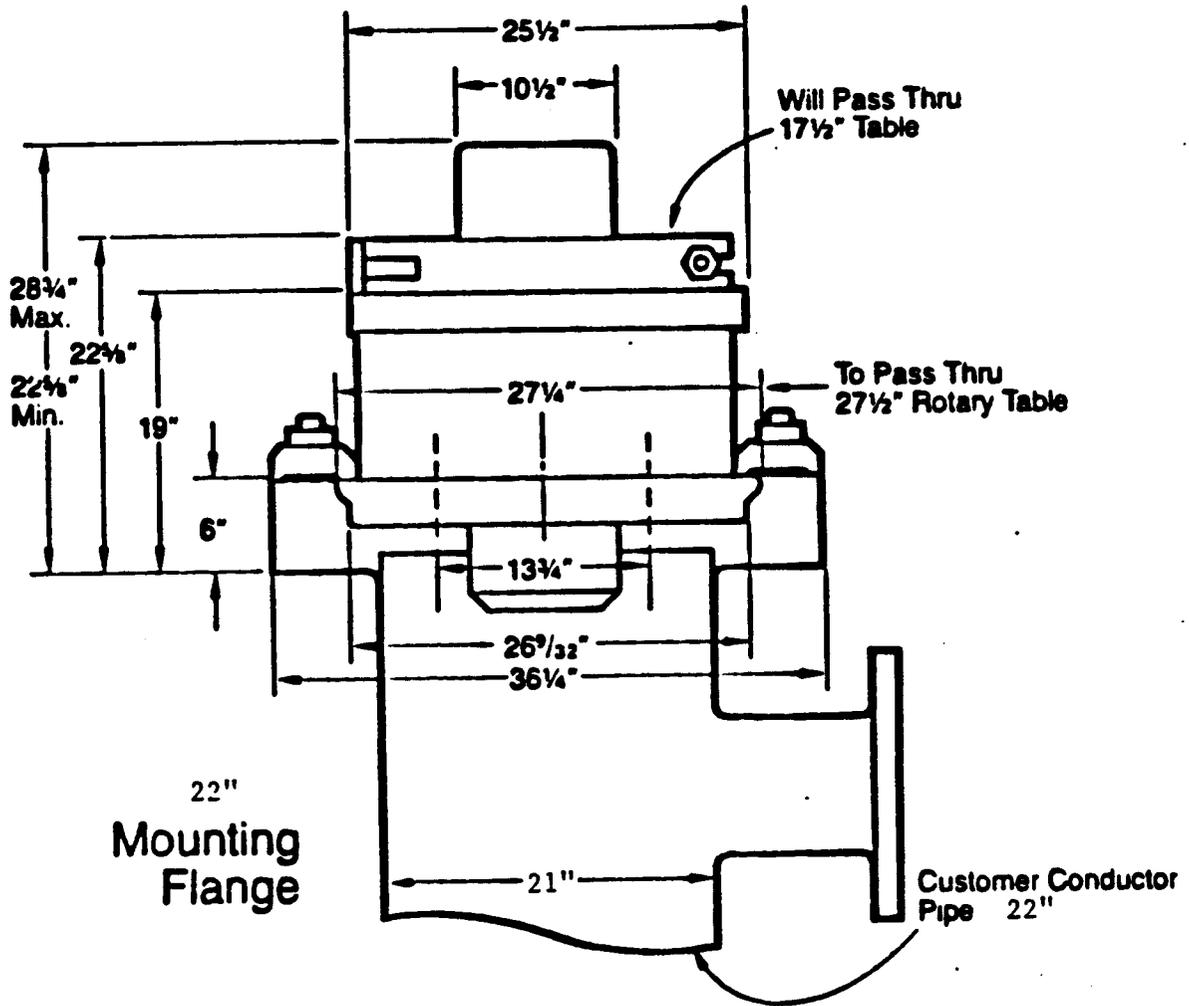
Drill 8 3/4" hole to proposed T.D., utilizing parasite string attached to the outside perimeter of the 9 5/8" casing to reduce hydrostatic head and maintain circulation. Run logs as per procedure. Run 7" casing to T.D. and cement in two stages with D.V. tool at 6,000'. Nipple down BOP's and set 7" slips. Nipple up wellhead and release rig.

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



- 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.
 - G Rotating Head, to be used as a diverter.

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION

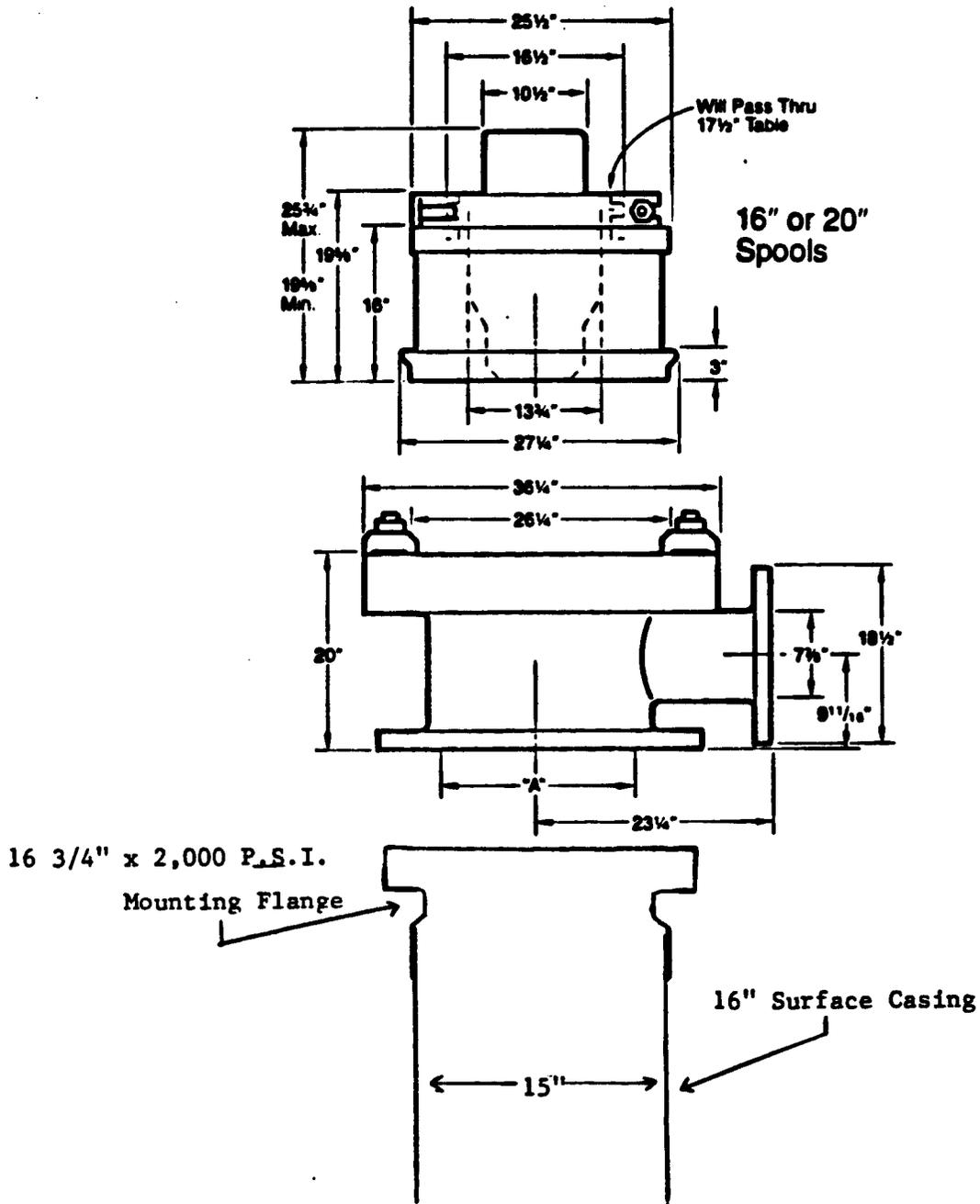


GRANT ROTATING HEAD

MODEL 8068

Mounted on 22" Conductor Casing

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION



GRANT ROTATING HEAD

MODEL 8068

Mounted on 16" Surface Casing

Multi-Point Surface Use Plan For: Little Valley #2-18

I. EXISTING ROADS

- A. Proposed Well Site Location: See Exhibits #1, 2, & 3
- B. Planned Access Route: At Escalante, Utah, turn south on Avery Wash Road for 9 miles, turn southwest on Death Ridge Road and proceed 10 miles to proposed location. There will be + 500' of new access road. See Exhibit #2, total disturbed width will be 18'. All grades are less than 8%. Road will be upgraded as needed for drilling and completion. After completion the road will be upgraded to Class III standards.
- C. Access Road Labelled: See Exhibit 2.
Color Code: Blue; existing improved Road (County).
Yellow; New proposed access road.
- D. Since this well is a development well, all roads within a three mile radius will not be shown.
- E. The existing roads are shown on Exhibit 2. Garfield County will be contacted before County Roads are used.
- F. Existing road maintenance or improvement: Existing dirt road will be maintained to surface management agency standards Class III, i.e.; crowned and ditched or dipped from existing roads to the location prior to use for moving the drill rig on site.

II. PLANNED ACCESS ROUTE

- A. Route location: See I B above and Exhibit 2.
The proposed new access route was selected to provide the shortest distance to the well site with safe and acceptable grades from the main connector road. Temporary access per surface management agency requirements will be built initially. If the well is a producer, the temporary road will be improved as follows:
 1. Width: The average dirt width will be 18 feet. The average traveled surface width will be 14 feet. Road construction will be in accordance with the surface management agency BLM standards.
 2. Maximum grades: Grades will be kept to a minimum using all available engineering techniques. We will construct safe and passable grades that use existing topographic and surface geologic conditions. Maximum grade of new access will be less than 8%.
 3. Turnouts: Not required.

4. Ditching, crowning and drainage design: Prior to construction of the new access road, the surface vegetation and topsoil will be windrowed to each side of the alignment outside construction limits. The road surface will be center crowned and the in slopes will have a maximum slope of 3:1. Fill slopes will be a maximum of 2:1. Water bards and/or water dips will be placed per BLM requirements. Tenneco will contact the Cedar City District office Resource Area Manager at least 24 hours prior to commencing construction of access road and well pad.
5. Construction activity will cease when soils of road and well pad surface become saturated to a depth of 3 (three) inches or more unless otherwise approved by Cedar City Resource Area Manager. During the summer and periods of dry weather, dust will be abated using water or other Resources Manager approved method.
6. Culvert use, major cuts and fills: No required.
Maximum cut: Cuts will be to a minimum.
Maximum fill: Fill will be to a minimum.
7. Surfacing material: The proposed new access road will be constructed using native materials.
8. Gates, cattleguards, fence cuts: Not required.
9. New portion of access road will be center staked. Access road will be built along line flagged for pre-drill inspection.

III. LOCATION OF EXISTING WELLS

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

- A. Water Wells: None
- B. Abandoned wells: See Exhibit A, Trapp Canyon #1, 1/2 mile.
- C. Temporarily abandoned wells: None
- D. Disposal wells: None.
- E. Producing wells: See Exhibit A, Little Valley #1.
- F. Shut-in wells: None
- G. Injection wells: None.
- H. Monitoring or observation wells: None.

IV. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES AND CONSTRUCTION METHODS

- A. Existing facilities owned or controlled by Lessee/Operator within one mile:
 1. Tank batteries: None
 2. Production facilities: None.

3. Oil gathering lines: Flowline 500'.
4. Gas gathering lines: None.
5. Injection lines: none.
6. Disposal lines: none.
7. Water line: BLM water line, 500'.

B. New facilities in the event of production:

1. New facilities may consist of a wellhead, transformer bank and control panel, all of which would remain within the disturbed area. Exhibit B shows our most typical arrangement of for this area as well as dimensions.
2. All permanent facilities will be painted per BLM specifications to blend in with surrounding environment.

C. Construction Methods:

1. Refer to Exhibit 3 for pad topography and cross sections.
2. The location and proposed access road will be cleared prior to any construction. Tenneco will provide the dirt contractor with a copy of the surface use plan prior to any surface disturbance. All trees will be disposed of by Tenneco. Stumps will be buried in areas designated by surface management agency. Any stump left in place will be cut to a height not to exceed 12 inches. All slash less than four inches in diameter will be chipped and scattered outside of cleared area. All material four inches or greater in diameter will be removed.
3. Tenneco will immediately notify the Cedar City District Resource Area Manager of any and all cultural/historical resources discovered as a result of operations under this permit. All activities will be suspended in the area of any such object found and leave such discoveries intact until told to proceed by Cedar City District Resource Area Manager. Notice to proceed will be based upon evaluation of the cultural significance of the object. Evaluation of such object will be conducted by a qualified professional selected by the Cedar City Resource Area Manager from a federal agency where possible and practical. When not practical, Tenneco Oil will follow the mitigation requirements set forth by the Cedar City Resource Area Manager concerning protection, preservation or disposition of any sites or material discovered. In those situation where the Cedar City Resource Area Manager determines that data recovery and/or salvage excavations are necessary, Tenneco will bear the cost of such data recovery and/or salvage operations.
4. Land ownership: The planned site lies on BLM land.

The planned access road lies on BLM land.

5. Construction of pad will be conducted as follows: Topsoil will be stripped to a depth of 12 inches. Topsoil will then be stockpiled on the northwest corner of location and identified in some manner to avoid accidental waste or improper usage. Pits will be constructed with soil materials native to site. Construction methods will be employed to assure that no drainage flows are impounded and to prevent the loss of any hydrocarbon from site. This will be done in a manner to facilitate rapid recovery and clean-up operations. Pits will be lined if necessary.
 6. Protective measures for wildlife and livestock: Pits will be fenced on 3 (three sides) during drilling and on 4 (four sides) after completion to prevent entry of livestock or wildlife in the following manner; four strand barbed wire with metal posts.
- D. Plans for re-habilitation of disturbed areas no longer needed for operations after construction and drilling completed.
1. Upon completion of well, areas required for continued use 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 the surface managing agency's BLM specifications. See X C. Seeding will be completed after October 1 and prior to February 28.

V. LOCATION AND TYPE OF WATER SUPPLY

- A. The water will be obtained from a seep on BLM surface located 1916' FEL, 1185' FNL, Sec.12, T37S, R1E. See Exhibit 4.
- B. Water transportation system: Water will be trucked to the location over existing roads.

VI. SOURCE OF CONSTRUCTION MATERIALS

- A. Materials: Construction materials will consist of soil encountered within the boundaries.
- B. Materials foreign to site: None.
- C. Refer to Exhibit 2 for access road detail.

- VII.
- A. Cuttings will be contained within the limits of the reserve pit.
 - B. Drilling fluids will be retained in reserve pit.
 - C. Produced fluids: No substantial amount of produced water is anticipated. The amount of fluid hydrocarbons that may be produced while treating will be retained in the reserve pit. Prior to cleanup operations, the hydrocarbons will be skimmed or removed as the situation dictates.

- D. Sewage: Sanitary facilities will consist of at least one chemical toilet and septic tank for trailer and after completion of operations, the sewage will be removed and disposed of by subcontractor and hauled by truck to a sanitary land-fill.
- E. Garbage: The small amount of refuse will be contained in a trash cage until operations are completed and then will be disposed of at a legal and environmentally safe location. No burning of trash will be conducted.
- 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 to livestock and personnel. Reserve pit will be fenced until dry and then will be backfilled using native materials except topsoil, and contoured to natural terrain.

VIII. ANCILLARY FACILITIES

- A. None.

IX. WELL SITE LAYOUT

- A. Refer to Figure
 1. Location of pits: Exhibit 3
 2. Rig orientation: Exhibit 3

X. PLANS FOR RESTORATION OF SURFACE

- A. The Cedar City Resource Area Manager will be notified at least 24 hours prior to commencing reclamation work.
- B. Reserve Pit Clean-up: The pit will be fenced on three sides prior to rig release and maintained until clean-up. Prior to backfill operations, any hydrocarbon material on pit surface will be removed. The fluids contained in the pit shall be allowed to evaporate and then the pit will be backfilled with soil excavated from the site (excluding any topsoil removed during construction). The restored surface of the reserve pit will be contoured to prevent impoundment of 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 over surface., The reserve pit will be seeded per the surface management agency's (Cedar City) request. See X C below. Seeding will be done after October 1 and prior to prolonged ground frost.
- C. Restoration plans if production is developed: The reserve pit will be backfilled and restored as described in X B. In addition, those disturbed areas not required for production facilities will be contoured to approximate original topography. Tenneco will upgrade

and maintain access roads as necessary to prevent soil erosion and accommodate year-round traffic. Topsoil will then be placed on those areas of pad not needed for operations, ripped or disked and seeded.

Tenneco will use certified seed. Seedbed will be prepared by disking or ripping following natural contours. Seed will be drilled on contour at depth no greater than 1/2 inch. In areas that cannot be drilled, we will broadcast at double the seeding rate and harrow the seed into the soil. Seeding will be completed after October 1 and prior to prolonged ground frost. Perennial vegetation will be established. Tenneco will perform any additional work necessary in the event of seeding failures.

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 cut slopes.

- D. Restoration plans if no production is developed: The reserve pit will be backfilled and restored as described in X B. Access road and location will be restored to approximate the original contours. During reclamation of site, fill material will be pushed into cuts and up over backslope. No water trapping depressions will be left. Topsoil will be distributed evenly over location and seeded according to the method, manner and type described in X C.
- E. Private surface restoration: None.

XI OTHER INFORMATION

- A. Surface description: The topography is on a gentle ridge slope. Sediments are a paleozoic sand/loam. Vegetation is pinon juniper and transitional association which includes pinon, utah and one seed juniper, serviceberry, rabbit bush, sage brush, a few scattered ponderosa, one white fir, oak brush, snakeweed and a variety of annuals.
- B. Other surface use activities:
The predominant surface use is grazing.
- C. Proximity of Water, Dwelling and Historical Sites:
 - 1. Water: None.
 - 2. Occupied Dwellings: None.
 - 3. Historical Sites: An archaeological reconnaissance has been performed for this location and access and the report will be on file with the appropriate area Minerals Management Service and surface management agency.

XII. OPERATOR'S REPRESENTATIVE

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

Charles Jenkins
P. O. Box 3249
Englewood, CO 80155
(303) 740-2575

Ted McAdams
P. O. Box 3249
Denver, CO 80155
(303) 740-2576

Scott McKinney
P. O. Box 3249
Englewood, CO 80155
(303) 740-2594

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 work associated with the operations proposed herein will be 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 16, 1985

Scott McKinney

TENNECO OIL

LITTLE VALLEY #2-18

PROPOSED LOCATION

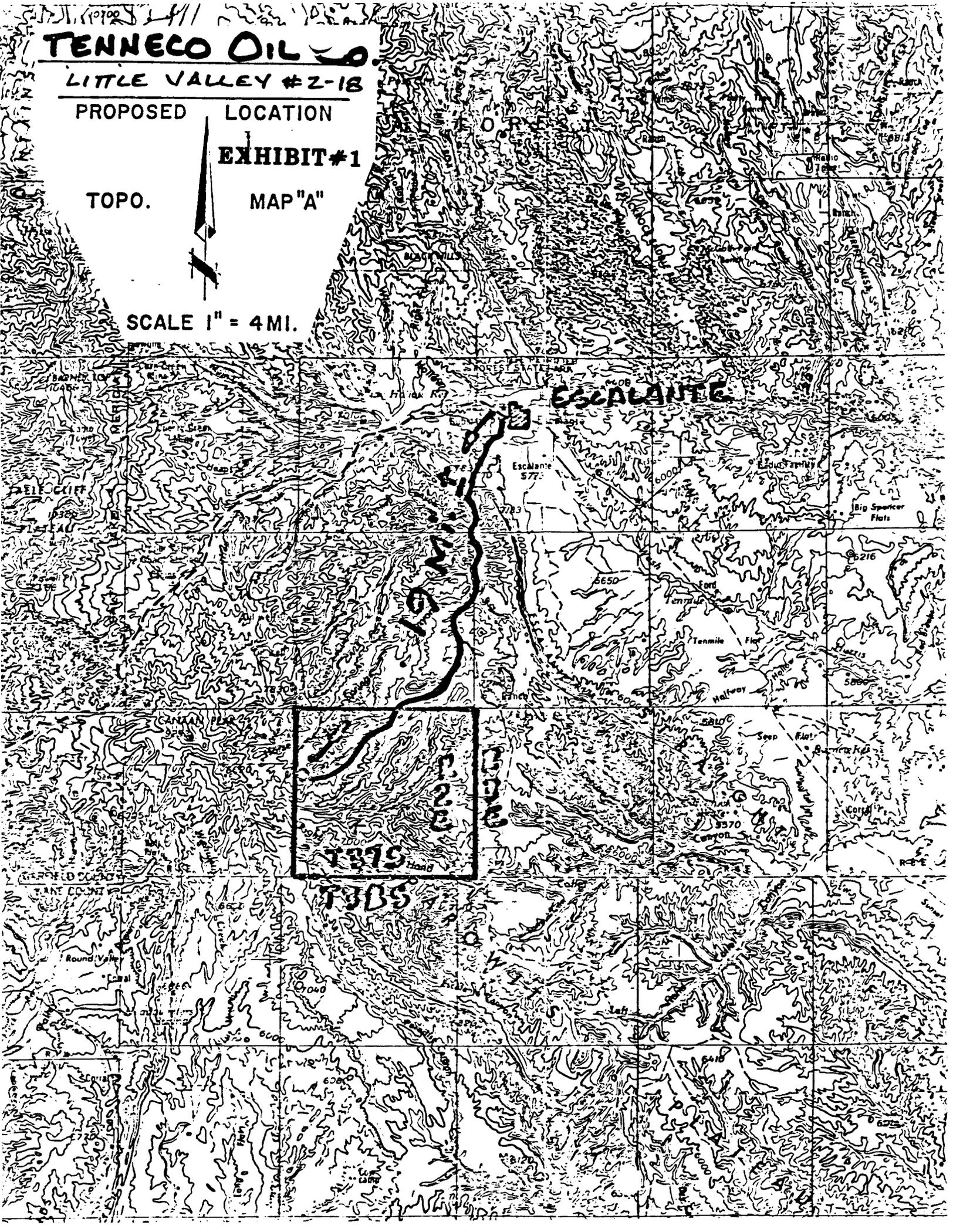
EXHIBIT #1

TOPO.

MAP "A"



SCALE 1" = 4 MI.



T375
T376

ESCALANTE

TENNIS

T375

T376

Escalante 577

6650

Tennite Flat

Big Spicker Flats

6216

5800

5210

5570

5200

6000

6200

6400

6600

6800

BAGWELL CREEK

FAIR CLIFF

ROUND VALLEY

ROUND VALLEY

ROUND VALLEY

ROUND VALLEY

ROUND VALLEY

FOREST STATE PARK

ROUND VALLEY

UPPER VALLEY
EXHIBIT A

T
36
S

Northern
Section

Southern
Section

NAT'L FOREST

NAT'L

DIXIE

● LITTLE VALLEY #1

● LITTLE VALLEY #2-18

⊙ TRAPP CANYON #1

T
37
S



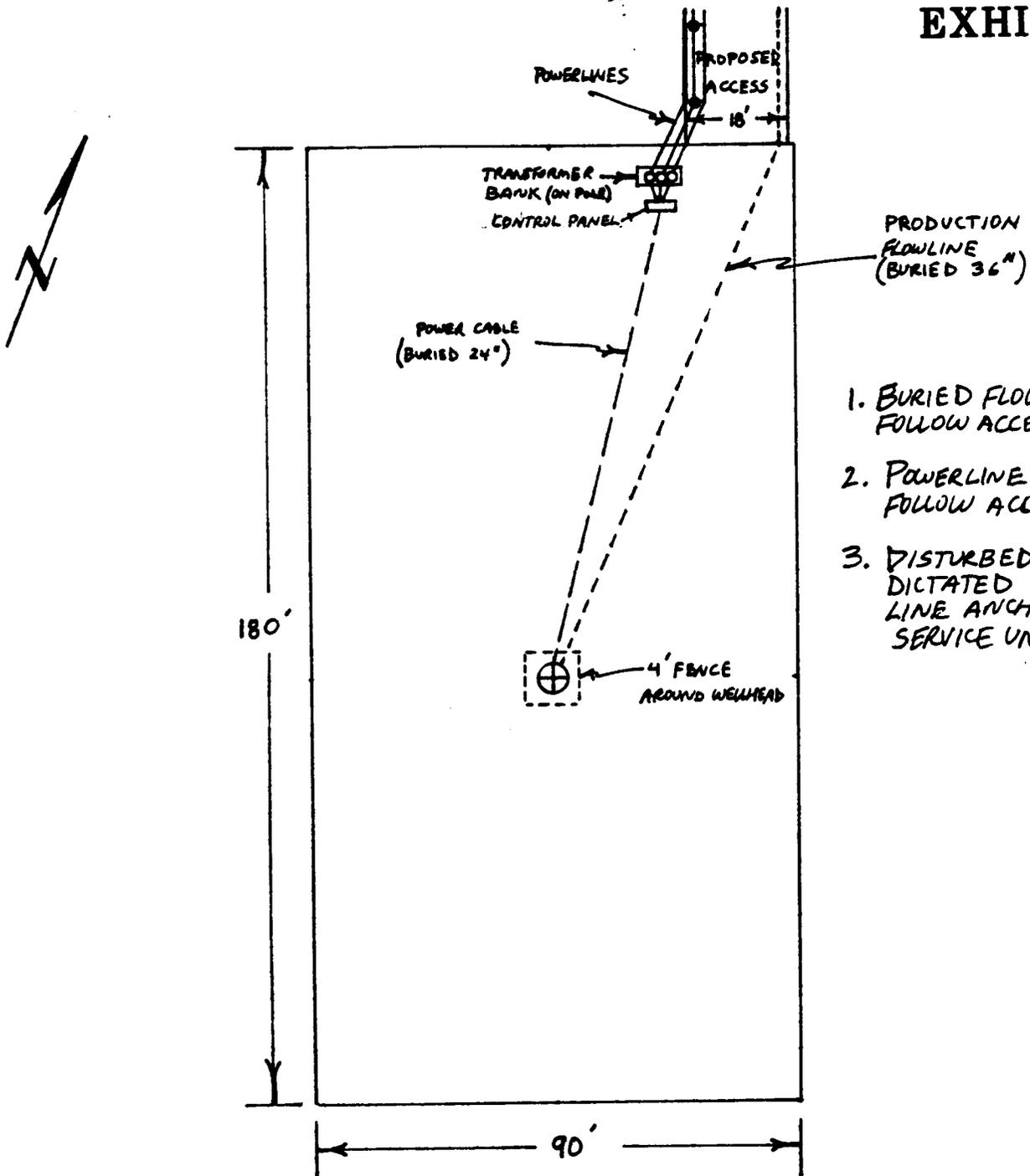


COMPANY TENNECO OIL E & P - WRM DEPT. _____

SUBJECT LITTLE VALLEY #2-18 - PRODUCTION SURFACE DIAGRAM

LOCATION (NO SCALE) BY PTP DATE 9 MAY 85

EXHIBIT B

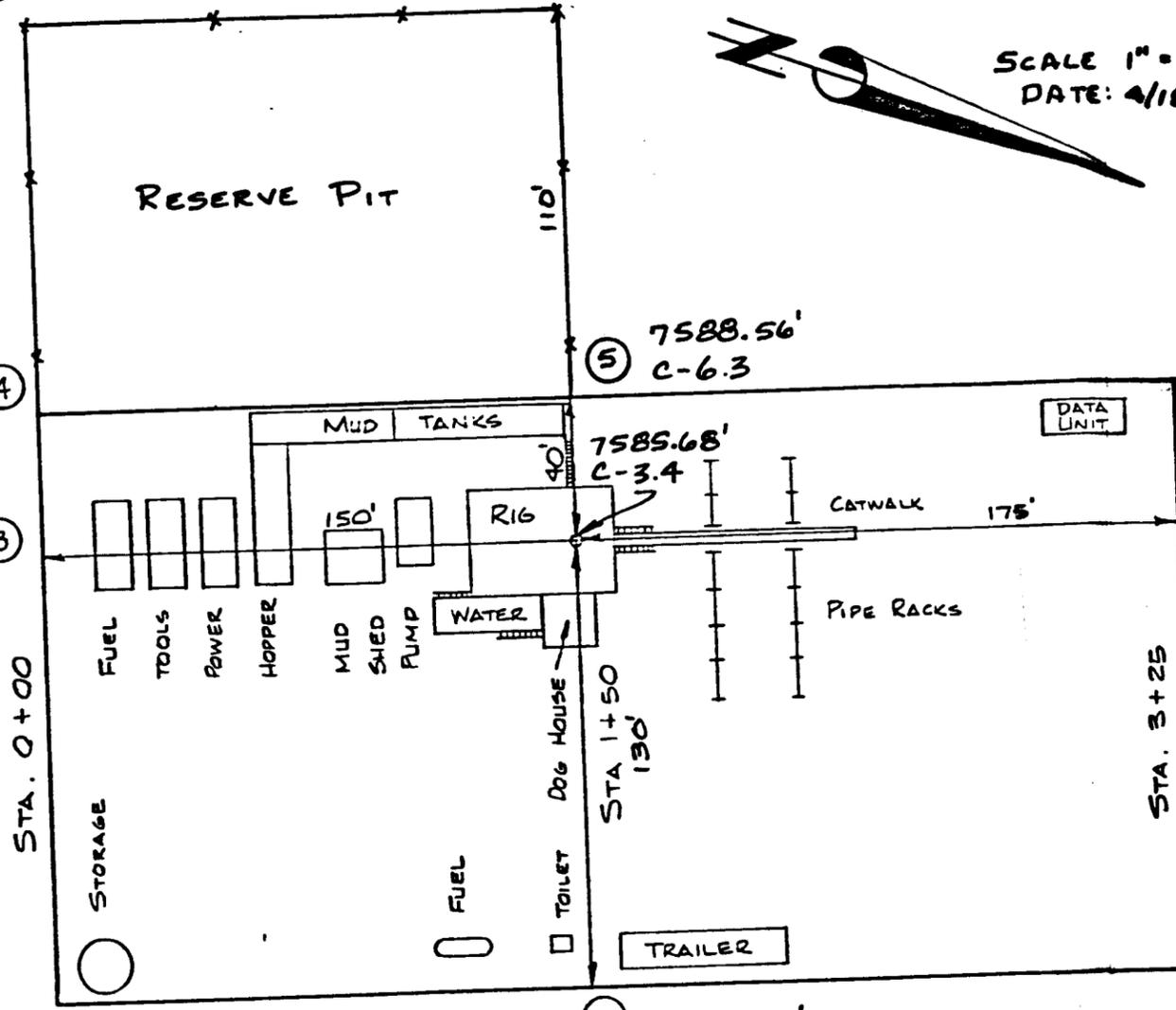


1. BURIED FLOWLINE WILL FOLLOW ACCESS R-O-W.
2. POWERLINE POLES WILL FOLLOW ACCESS R-O-W.
3. DISTURBED AREA IS DICTATED BY GUY LINE ANCHORS FOR SERVICE UNIT.

TENNECO OIL CO.
LITTLE VALLEY #2-18

SCALE 1" = 50'
 DATE: 4/18/85

7607.4
 (A) C-33.2 TO BOTTOM PIT
 (B) 7604.63'
 C-30.4 TO BOTTOM PIT



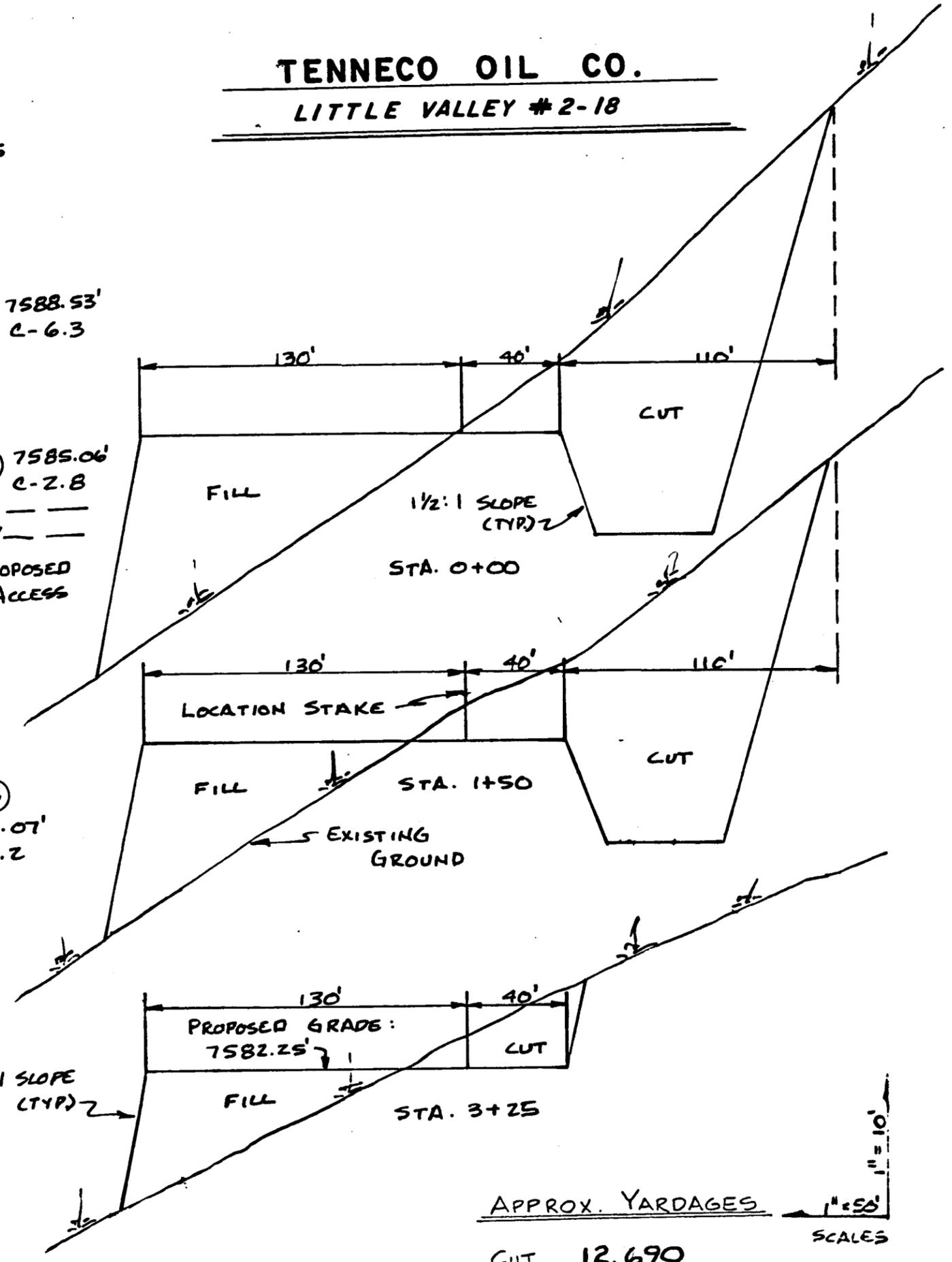
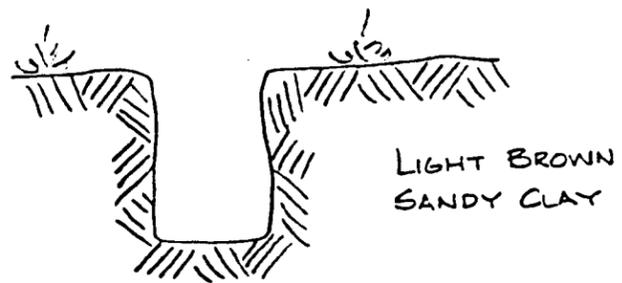
7587.69'
 C-5.4
 7582.30'
 C-0.1

7588.53'
 C-6.3
 7585.06'
 C-2.8
 7569.84'
 F-12.4
 7572.07'
 F-10.2

7565.81'
 F-16.4



SOILS LITHOLOGY
 NO SCALE



APPROX. YARDAGES

CUT	12,690
FILL	10,420

1" = 50' SCALES
 1" = 10'

TENNECO OIL

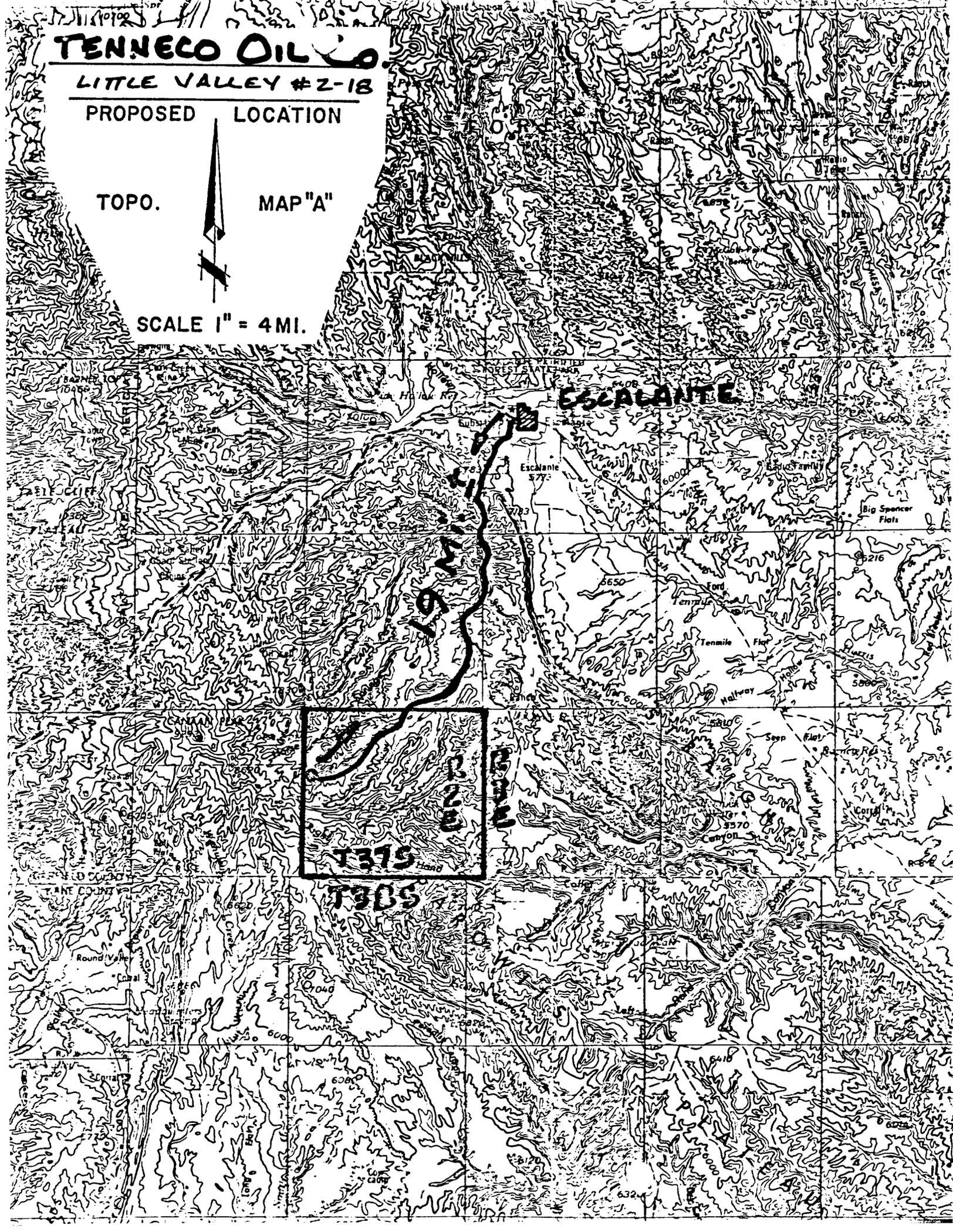
LITTLE VALLEY #2-18

PROPOSED LOCATION

TOPO.

MAP "A"

SCALE 1" = 4 MI.



TENNECO OIL CO.

WATER SOURCE

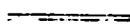
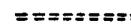
PROPOSED LOCATION

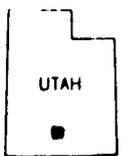
TOPO.

MAP "B"

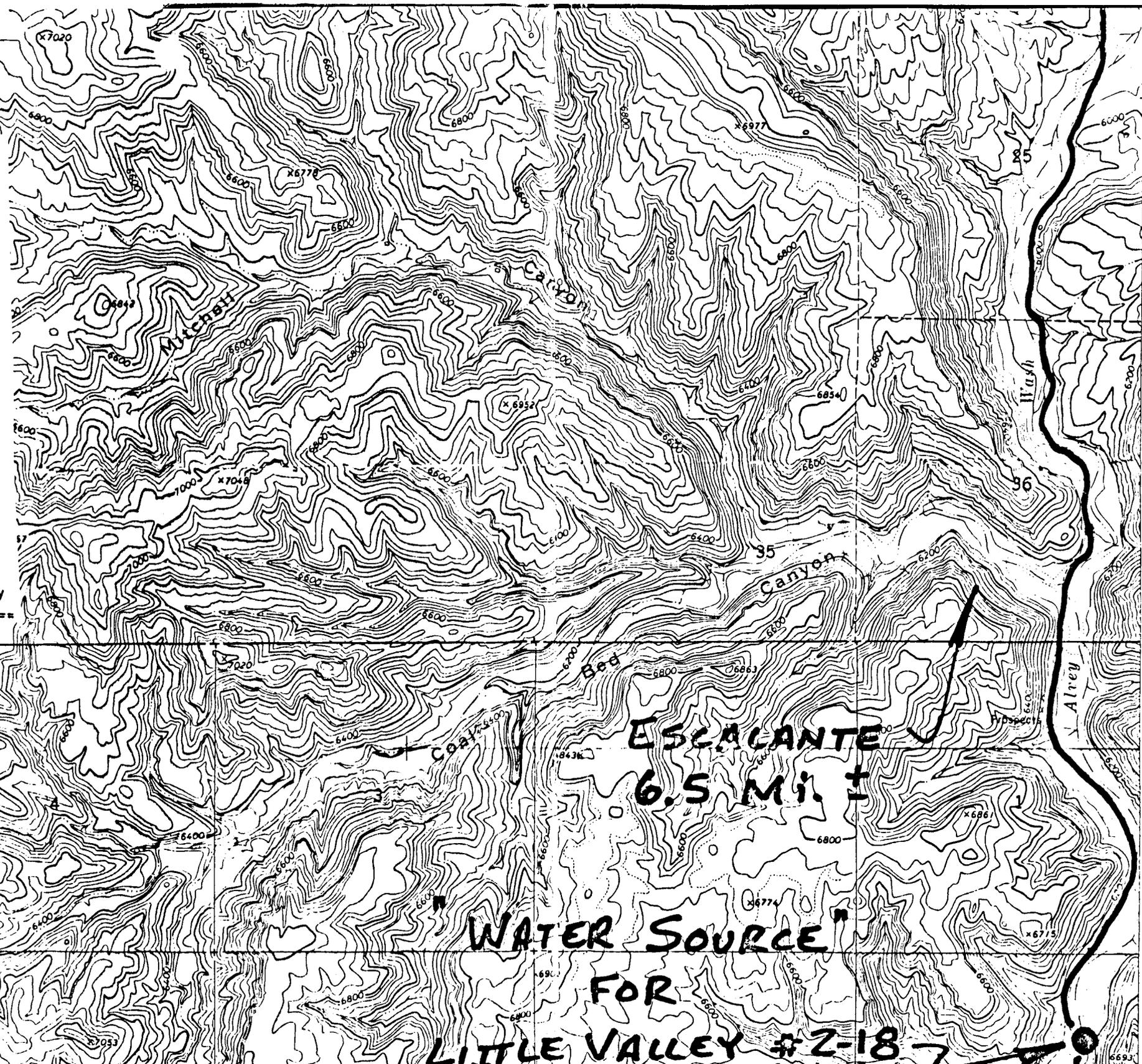
SCALE 1" = 2000'

ROAD CLASSIFICATION

Light duty road, all weather, improved surface  Unimproved road fair or dry weather 

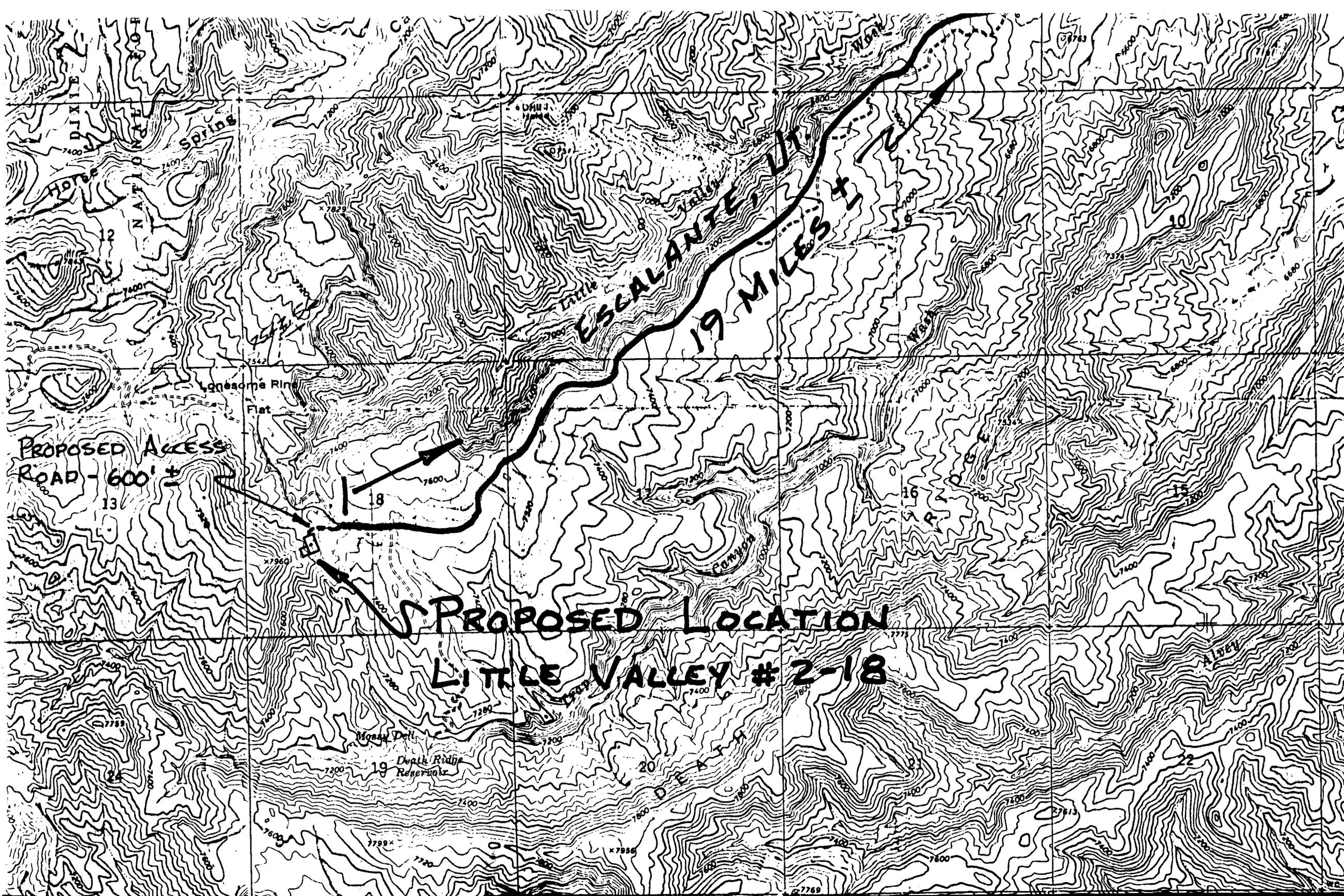


UTAH
QUADRANGLE LOCATION



ESCALANTE
6.5 MI. E

"WATER SOURCE"
FOR
LITTLE VALLEY #2-18



DIXIE NATIONAL FOREST
HOTSPRING
Spring

ESCALANTE #1
19 MILES ±

PROPOSED ACCESS
ROAD - 600' ±

PROPOSED LOCATION
LITTLE VALLEY #2-18

Lonesome Ring
Flat

Moose Dell
Death Ridge
Reservoir

13

18

16

15

24

19

20

22

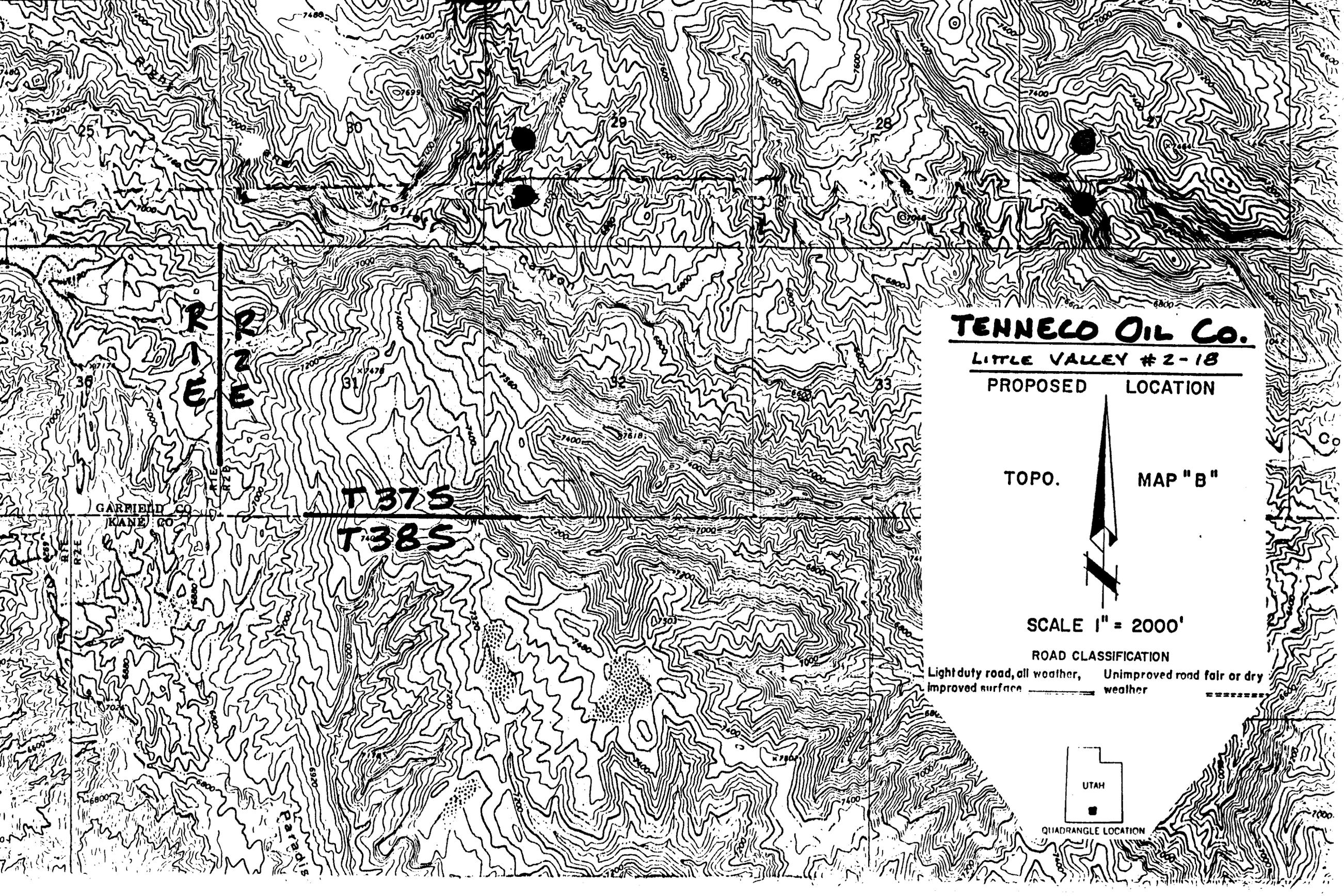
7799

7795

7791

7769

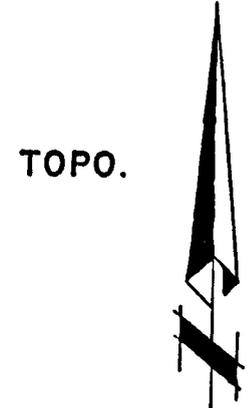
7763



TENNECO OIL Co.

LITTLE VALLEY #2-18

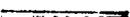
PROPOSED LOCATION

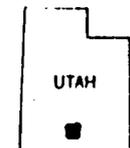


MAP "B"

SCALE 1" = 2000'

ROAD CLASSIFICATION

Light duty road, all weather, improved surface  Unimproved road fair or dry weather 



QUADRANGLE LOCATION

GARFIELD CO
KANE CO

T37S
T38S

R25E
R26E

Paradise

OPERATOR Tenneco Oil Co. DATE 8-6-85

WELL NAME Little Valley 2-18

SEC NE SW 18 T 37S R 2E COUNTY Garfield
Irregular Sec

43-017-30131
API NUMBER

Fed
TYPE OF LEASE

CHECK OFF:

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> PLAT | <input checked="" type="checkbox"/> BOND | <input checked="" type="checkbox"/> NEAREST WELL |
| <input checked="" type="checkbox"/> LEASE | <input checked="" type="checkbox"/> FIELD | <input checked="" type="checkbox"/> POTASH OR OIL SHALE |

PROCESSING COMMENTS:

No other wells within 1000'

Need water permit

Requesting exception location

APPROVAL LETTER:

- SPACING: A-3 _____ UNIT c-3-a _____ CAUSE NO. & DATE
- c-3-b c-3-c

STIPULATIONS:

1. Water



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 8, 1985

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

Gentlemen:

Re: Well No. Little Valley 2-18 - NE SW Sec. 18, T. 37S, R. 2E
1810' FSL, 1300' FWL - Garfield County, Utah

Approval to drill the above-referenced oil well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2
Tenneco Oil Company
Well No. Little Valley 2-18
August 8, 1985

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-017-30131.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals

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 regulations.)
At surface 1300' FWL, 1810' FSL
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 19 miles south Escalante, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1300'

16. NO. OF ACRES IN LEASE
1432.09 A

17. NO. OF ACRES ASSIGNED TO THIS WELL
160 A

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

19. PROPOSED DEPTH
+/- 7784

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7586' GL

22. APPROX. DATE WORK WILL START*
ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

5. LEASE DESIGNATION AND SERIAL NO.
U-31225

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Little Valley

9. WELL NO.
2-18

10. FIELD AND POOL, OR WILDCAT
Upper Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 18, T37S, R2E

12. COUNTY OR PARISH
Garfield

13. STATE
Utah

RECEIVED
SEP 19 1985
DIVISION OF OIL
GAS & MINING

24. SIGNED Scott M. Kinney TITLE Sr. Regulatory Analyst DATE 5/14/85

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY M. S. Jensen TITLE DISTRICT MANAGER DATE 13 Sept. 84

CONDITIONS OF APPROVAL
ATTACHED TO OPERATORS
COPY

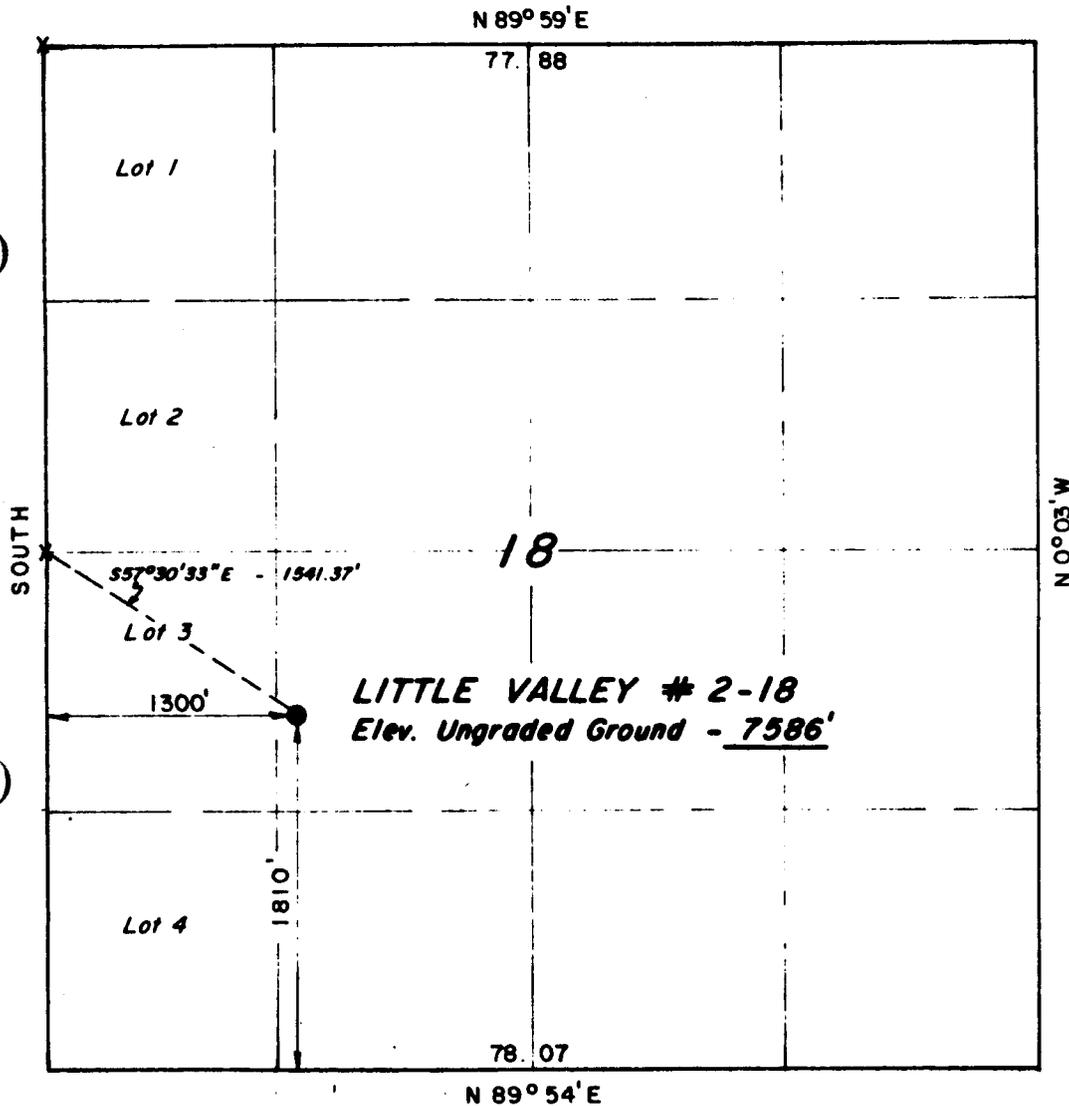
NOTICE OF APPROVAL

FLAIRING OR VENTING
OF GAS IS SUBJECT TO
NTL4-A DATED 1/1/80

T 37 S , R 2 E , S.L.B. & M.

PROJECT
TENNECO OIL CO.

Well location, *LITTLE VALLEY # 2-18*, located as shown in the NE 1/4 SW 1/4 Section 18, T37S, R2E, S.L.B. & M. Garfield County, Utah.



N 50° 03' W



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES & ORIGINAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Nelson J. Marshall
REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	4/18/85
PARTY	DA JF RP	REFERENCES	GLO Plat
WEATHER	Fair	FILE	TENNECO

X = Section Corners Located

CONDITIONS OF APPROVAL FOR NOTICE TO WELL

Company: Tenneco Oil Company

Well No: Little Valley 2-18

Location: Section 18

Lease No: U-31225

T.37S., R.2E., SLB&M

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR 3160), approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned shall be identified in accordance with 43 CFR 3162.6. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office, but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 3160-5). Unless the plugging is to take place immediately upon receipt of oral approval, the District Manager must be notified at least 48 hours in advance of the plugging of the well in order that the representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 3160-5) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a followup report on Form 3160-5 should be filed when all surface restoration has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the respective District Manager's office within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Office on a frequency and form or method as may be acceptable to the District Manager.

In accordance with NTL-1, this well must be reported on Form 3160-6 "Monthly Report of Operations," starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed, in duplicate, directly with Royalty Management Accounting Center, Minerals Management Service, P.O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Manager. "Sundry Notices and Reports on Wells" (Form 3160-5) must be filed for all changes of plans and other operations in accordance with 43 CFR 3162.4.1. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alteration of the facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6, and prior approval by the District Manager.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with Onshore Oil and Gas Order No. 1; VIII. Reports and Activities Required after Well Completion. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cutting, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values are involved at this location. Accordingly, you must notify the District Manager at least 24 hours prior to commencing field operations to allow this office to have personnel present for consultation during the construction of roads and locations.

The Cedar City District Office Address is:

1579 North Main, Cedar City, Utah 84720
(801) 586-2401

Your contact is: Theron Mitchell
Office Phone: (801) 586-2401
Home Phone (801) 826-4347 or 586-2719

7. Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes but is not limited to such items as road construction and maintenance, handling of top soil and rehabilitation.

8. If a replacement is contemplated for complete operations, a "Sundry Notice" to that effect must be filed, for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Manager's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact this office 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, it is required that a new application be filed for approval for any future operations.
11. A tank battery shall not be constructed within the WSA. If constructed on lease it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12. This Application for Permit to Drill is approved subject to the requirement that, should the well be successfully completed for production, this office must be notified when it is placed in a producing status. Such notification will be by telegram or other written communications, and must be received in this office by not later than the first business day next following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
- a. Operator name, address and telephone number.
 - b. Well name and number.
 - c. Well location ($\frac{1}{4}$, $\frac{1}{4}$ Section, Township, Range and Prime Meridian).
 - d. Date was placed in a producing status.
 - e. The nature of the well's production, i.e. crude oil, or crude oil and casinghead gas, or natural gas and entrained liquid hydrocarbons.
 - f. The OCS, Federal or Indian lease prefix and number of which the well is located, otherwise, the non-Federal or non-Indian land category, i.e. State or private.
 - g. If appropriate, the unit agreement name, number and participating area name.
 - h. If appropriate, the communication agreement number.

SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

1. Exploratory activities shall be conducted in accordance with the surface use plan submitted by Tenneco Oil Company.
2. The BLM representative (Theron Mitchell, (801) 586-2401) will be notified at least 48 hours prior to any surface disturbing activities associated with new access roads or drill pad locations. A representative of the BLM will be present before construction activity begins to review and explain surface protection stipulations with the operator and/or dirt work contractor.
3. Tenneco shall designate a representative from the company who will be available on site to insure complete compliance with all stipulations. Bureau of Land Management shall be given the name of the responsible individual.
4. The Tenneco representative shall insure that all individuals working at or near the location are aware of and comply with all applicable stipulations.
5. If subsurface cultural material is exposed during construction, work will stop immediately in that spot and the Escalante BLM Area Office will be contacted.
6. The access road will be constructed in accordance with this stipulation and the BLM/USGS Surface Operating Standards. The access road shall be constructed where flagged with total surface disturbance for the roadbed and drainage confined to a maximum of 18 feet. Drainage across the road possibly including culverts shall be provided for at such intervals as to prevent gullying on the downslope side of the road. Road berms shall be pulled in. The road grade should be rolled with the surface of the ground as much as possible to provide natural drainage. Additional specific construction procedures may be provided by the BLM representative during construction.
7. Clearing will be kept to a minimum to maintain vegetative screening of the road. The trees cleared (chainsaw only) from the pad area and access road route shall be limited to those whose presence would be significantly detrimental to the efficiency or safety of the operation. Trees shall not be cut along the access route where limbing would provide sufficient clearance. Pad edges will be left irregular to simulate natural terrain and vegetation lines. Small trees removed shall be cut into pieces and scattered. Larger trees would be removed from the site. Scattered debris shall be of such size as not to extend from the ground more than 2 feet. Stumps of any trees cut adjacent to the road or pad shall be removed and scattered as above and stump holes filled with soil material. No ponderosa pine will be removed or destroyed.
8. Topsoil on disturbed areas shall be removed to 6 inches deep and stockpiled in a manner to minimize soil loss to wind and water erosion. Stockpiles shall be rounded off and located so that soil is not contaminated or compacted. In the event that the well is a producer, soil stockpiles shall be seeded.

9. Cleanup of all trash and debris brought into the area during drilling will be the responsibility of Tenneco Oil Company. Garbage or burn pits will not be allowed. Tenneco shall cooperate with other right-of-way holders along access routes to insure that litter is collected and removed.
10. When the site is abandoned disturbed areas, including drill pads, mud pits, and access roads, shall be reclaimed to a condition as close as possible to preconstruction conditions unless directed otherwise by the authorized officer. Reclamation shall include contouring of disturbed areas to blend with landforms in the general area, redistribution of topsoil, and seeding. Seeding shall be accomplished during the period of September to December. A seed mix and seeding method will be provided by the BLM with the advent of reclamation.
11. Areas not needed for production facilities, shall be reclaimed in accordance with the conditions of #10 above.
12. The well shall be drilled with the smallest practicable drill rig.
13. The drill pad shall be limited to 150' X 310'. The reserve pit shall be limited to 150' X 60'.
14. Power poles shall not be located inside the WSA. Power to the well shall be supplied by buried cable. The cable shall be buried in the access road.
15. Any production facilities will be painted a single, low gloss, pastel color that will blend with the color of soils, rock, or vegetation. Color will be approved by the BLM.
16. Upon completion of drilling operations, the BLM representative shall be notified so that an inspection may be conducted to determine if mitigating measures have been complied with.
17. If the oil well proves to be a dry hole reclamation of the site shall start immediately in accordance with the provisions of #10 above.
18. This decision shall not become effective until September 27, 1985.



United States Department of the Interior

IN REPLY REFER TO

3100
UT-040

BUREAU OF LAND MANAGEMENT
Cedar City District Office
P.O. Box 724, 1579 North Main
Cedar City, Utah 84720
(801) 586 2401

RECEIVED

SEP 25 1985

DIVISION OF OIL
GAS & MINING

September 23, 1985

Mr. Scott McKinney
Tenneco Oil Company
P.O. Box 3249
Englewood CO 80155

Dear Mr. McKinney:

Thank you for drawing our attention to the error in the date on your copy of the approved APD for Little Valley well no. 2-18. Your copy was dated 13 Sept. 1984. It should have been 13 Sept. 1985. Attached is a copy of the original form 9-331C which contains the correct date.

By a copy of this letter we are informing other parties who received copies of the document of this correction.

Sincerely,

W. D. Jensen
District Manager

Attachment (1)

cc: Utah State Office, BLM
Escalante Resource Area
Utah Department of Natural Resources ✓

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-017-30131

NAME OF COMPANY: TENNECO

WELL NAME: LITTLE VALLEY 2-18

SECTION NE SW 18 TOWNSHIP 37S RANGE 2E COUNTY Garfield

DRILLING CONTRACTOR Parker

RIG # 148

SPUDED: DATE 10-7-85

TIME 8:30 PM

HOW Rotary

DRILLING WILL COMMENCE _____

REPORTED BY Howard Miller

TELEPHONE # (505) 327-0217

DATE 10-11-85 SIGNED JRB

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. U-31225
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR Tenneco Oil Company		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P. O. Box 3249, Englewood, CO 80155		8. FARM OR LEASE NAME Little Valley
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1360' FWL, 1810' FSL		9. WELL NO. 2-18
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT Upper Valley
15. ELEVATIONS (Show whether DP, RT, GR, etc.) 7586' GL		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 18, T37S R2E
		12. COUNTY OR PARISH Garfield
		13. STATE UT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(Other) **Temp flow line**

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Tenneco requests permission to lay a temporary flow line above the ground from the Little Valley 2-18 to the Little Valley 1 flow line, for testing purposes.

RECEIVED
NOV 18 1985
DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED *Scott McKenny* TITLE Senior Regulatory Analyst DATE 11/4/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

NOV 22 1985

DIVISION OF OIL
GAS & MINING

1. OIL WELL GAS WELL OTHER

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. See also space 17 below.)
At surface
1300' FWL, 1810' FSL

14. PERMIT NO. _____ 15. ELEVATIONS (Show whether DF, ST, GR, etc.)
7586' GL

5. LEASE DESIGNATION AND SERIAL NO.
11-31225

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME _____

8. FARM OR LEASE NAME
Little Valley

9. WELL NO.
2-18

10. FIELD AND POOL, OR WILDCAT
Upper Valley

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 18, T37S R2E

12. COUNTY OR PARISH
Garfield

13. STATE
UT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Progress report</u>	
(Other) _____		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

10/7/85 MIRU parker rig # 148. NU conductor, spud @ 8:30 pm. 10/7/85. Drill to 236', lost 300 bbls mud @ 70'. Drill ahead w/full RTNS. 22' conductor pipe set @ 51' GL, 71' KB.

10/16/85 Circ. to run csg. Ran 78 jts 9-5/8 36# STC csg (80 jts 1.66 OD 2.33# J-55 IJ as paracite string). Landed csg @ 3241, float @ 3193. Prep to cmt.

10/17/85 Pmp 1000 gal D-104 spacer & 3 BW. cmt w/908 sx (3405 CF) hi-lift cmt. Tail w/645 sx (716CF) 75% CL-G, 25% POZ + 2% CaCl2 + 1/4#/sx celloflake. Good RETNS. Bump plug, float o.k. circ. 40 bbls excess cmt. PD 7:23 a.m. Pmp 68 sx CL-G +3% CaCl2 @ 90' DN 1' for top job. WOC.

10/18/85 NUBOPE. Test to 3000 psi, 15 min o.k. TIH, tag cmt @ 3179. PT csg to 1500 psi, o.k. Test csg seat to 9.5 PPG EMW. Plugged bit. Drill ahead

10/31/85 Drlg. Core pt @ 7840. Survey: 7296/5; 7391/5.

11/1/85 Top K-4 @ 7775, lost 250 bbls mud. Lost 300 bbls mud @ 7669. Build vol, circ & build vol Survey: 7624/6-1/2.

11/3/85 PU core BBL. RIH, wash & ream 40' to btm. Cut core #1 @ 7782. Survey: 7755/6.

18. I hereby certify that the foregoing is true and correct

SIGNED Scott McKinney TITLE Senior Regulatory Analyst DATE 11/18/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		RECEIVED	
2. NAME OF OPERATOR <u>Tenneco Oil Company</u>		NOV 22 1985	
3. ADDRESS OF OPERATOR <u>P. O. Box 3249, Englewood, CO 80155</u>		UNIVERSITY OF GAS & MINING	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1300' FWL, 1810' FSL		7. UNIT AGREEMENT NAME	
14. PERMIT NO.		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7586' GL	
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		12. COUNTY OR PARISH Garfield	
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)		18. STATE UT	

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Progress report</u>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

11/4/85 Cut cor #1 7782-7822, core bbl jammed, lost circ. TOOH. LD core #1. TIH wash & ream fr 7752-5822. Drill to 7827. Circ samples. Rec'd 40' core.

11/5/85 Drill to TD @ 7918. TOOH for logs, SLM, no Corr. Ran DLL-MSFL-GR fr TD to 3200 & FDC-CNL-GR fr TD to 3144. Survey: 7885/6-1/2.

11/6/85 Log. Ran FDC-CNL-GR 7321-3144, ran BHC-Sonic-Caliper-GR fr 7921-3144. Ran GR log to surf RD loggers. TIH w/DP to 3064. Circ, WO cmt to P&A.

11/7/85 RU dowell. Pmp #1 plug w/140 sx CL-G fr 6250-6050. Pmp #2 plug w/160 sx CL-G w/3% CaCl fr 3315-3021. Cmt top plug w/94 sx CL-G. Cmt in place @ 3 a.m. 11/8/85. Top plug 250' to surf. LDDP. ND.

11/8/85 NDBOPE. Cut off head. Weld on dry hole marker (plate). Cleaned pits. Rig rel @ 4:00 p.m.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Senior Regulatory Analyst DATE 11/18/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY: _____

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE 11/29/85
BY [Signature]

*See Instructions on Reverse Side

Title 19 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-31225

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Little Valley

9. WELL NO.

2-18

10. FIELD AND POOL, OR WILDCAT

Upper Valley

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 18, T37S R2E

12. COUNTY OR PARISH

Garfield

13. STATE

UT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

1b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. REMOVR. Other _____

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
1300' FWL 1810' FSL
At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

43-017-30131 GAS 8/8/85

NOV 25 1985

15. DATE SPUDDED 10/7/85 16. DATE T.D. REACHED 11/5/85 17. DATE COMPL. (Ready to prod.) P&A 11-8-85 18. ELEVATIONS (DP, RKB, RT, OR, ETC.)* 2386' GL 19. SLEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 7918' KB 21. PLUG BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 0-TD ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DLL-MSFL-GR, FDC-CNL-GR, BHC-sonic-CAL-GR 27. WAS WELL CORED Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16" conductor	75.0#	71' KB	20"	100 sx (118CF) CI-G	
9 5/8" csg	36.0#	3241' KB	14 3/4"	908 sx (3405CF) hi-lift cmt. Tail w/645 sx (716 CF) 75% CI-G, 25% poz + 2% CaCl2 & 1/4"/#/sx celloflake	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SCREEN (MD)
			*See Reverse				

31. PERFORATION RECORD (Interval, size and number)
Plug #1 140 sx CL-G 6250-6050' KB
Plug #2 160 sx CL-G 3315-3021' KB
Surf plug - 94 sx CL-G 250' to surface

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION
DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in) P&A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY
To be sold.

35. LIST OF ATTACHMENTS
Logs to be forwarded

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED [Signature] TITLE Senior Regulatory Analyst DATE 11/20/85

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Straight Cliffs	Surface	1670'	Freshwater, sand, shale U			
Tropic Shale	1670'	2450'	Sandstone			
Dakota	2450'	3989'	Sandstone			
Navajo Thousand Pockets	3989'	4115'	Sandstone & shale			
Navajo	4115'	6150'	Sandstone			
Shinarump	6720'	6930'	Shale			
Moenkopi	6930'	7618'	Sand			
Timpoweak (K-1)	7618'	7670'	Dolomite			
Timpoweak (K-2)	7670'	7725'	Dolomite			
Kaibab (K-3)	7725'	7787'	Dolomite			
Kaibab (K-4)	7787'	7805'	Dolomite			
Kaibab (K-4 Porosity)	7805'	TD	Dolomite			
	7782'	7822'	Core #1, 40'			

Received 12/13/85

Form 3160-4
(November 1983)
(Formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL GAS WELL DEV Other _____

2. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PILE BACK DIFF. REVR. Other _____

3. NAME OF OPERATOR
Tenneco-Oil Company

4. ADDRESS OF OPERATOR
P. O. Box 3249, Englewood, CO 80155

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface
1300' FWL 1810' ESL
At top prod. interval reported below
At total depth
NESW

14. PERMIT NO. 43-017-3013
DATE ISSUED 8-8-85

RECEIVED
NOV 25 1985

6. LEASE DESIGNATION AND SERIAL NO.
U-31225

7. IF INDIAN, ALLOTTEE OR TRIBE NAME

8. UNIT AGREEMENT NAME

9. FARM OR LEASE NAME
Little Valley

10. WELL NO.
2-18

11. FIELD AND POOL, OR WILDCAT
Upper Valley

12. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 18, T37S R2E

13. COUNTY OR PARISH
Garfield

14. STATE
UT

15. DATE SPUDDED 10/7/85
16. DATE T.D. REACHED 11/5/85
17. DATE COMPL. (Ready to prod.) P&A 11-8-85
18. ELEVATIONS (DP, RMB, ST, GR, ETC.) * 386' GL

19. TOTAL DEPTH, MD & TVD 7918' KB
20. PLUG, BACK T.D., MD & TVD
21. IF MULTIPLE COMPL., HOW MANY *
22. INTERVALS DRILLED BY
23. ROTARY TOOLS 0-TD
24. CABLE TOOLS

25. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) *
26. WAS DIRECTIONAL SURVEY MADE
Yes

27. TYPE ELECTRIC AND OTHER LOGS RUN
DLL-MSFL-GR, FDC-CNL-GR, BHC-sonic-CAL-GR
28. WAS WELL CORED
Yes

29. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16" conductor	75.0#	71' KB	20"	100 sx (118CF) CI-G	
9 5/8" csg	36.0#	3241' KB	14 3/4"	908 sx (3405CF) hi-lift cmt. Tail w/645 sx (716 CF) 75% CI-G, 25% poz + 2% CaCl2 & 1/4/#/s	

30. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
			*See Reverse				

31. TUBING RECORD celloflake

32. PERFORATION RECORD (Interval, size and number)
Plug #1 140 sx CL-G 6250-6050' KB
Plug #2 160 sx CL-G 3315-3021' KB
Surf plug - 94 sx CL-G 250' to surface

33. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD)
AMOUNT AND KIND OF MATERIAL USED

34. PRODUCTION
DATE FIRST PRODUCTION
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)
WELL STATUS (Producing or shut-in) P&A

DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)

35. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
To be sold.
TEST WITNESSED BY

36. LIST OF ATTACHMENTS
Logs to be forwarded

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED [Signature] TITLE Senior Regulatory Analyst DATE 11/20/85

*(See Instructions and Spaces for Additional Data on Reverse Side)

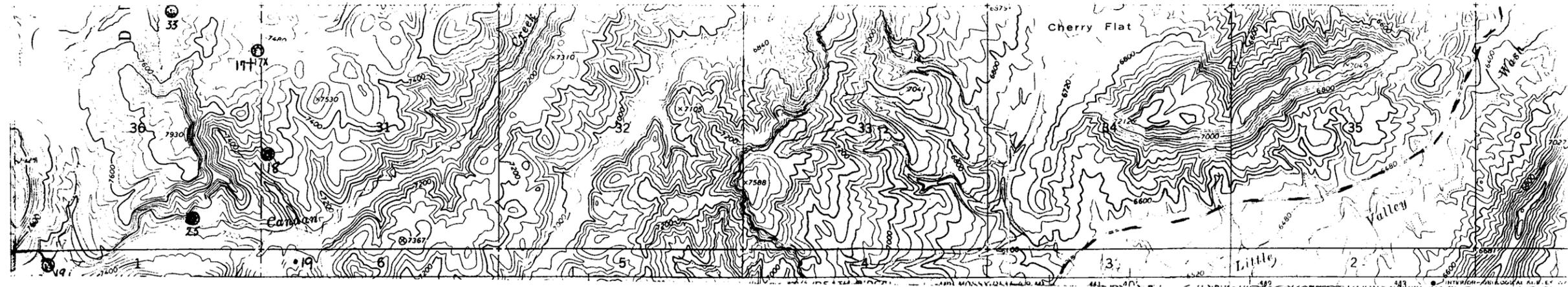
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

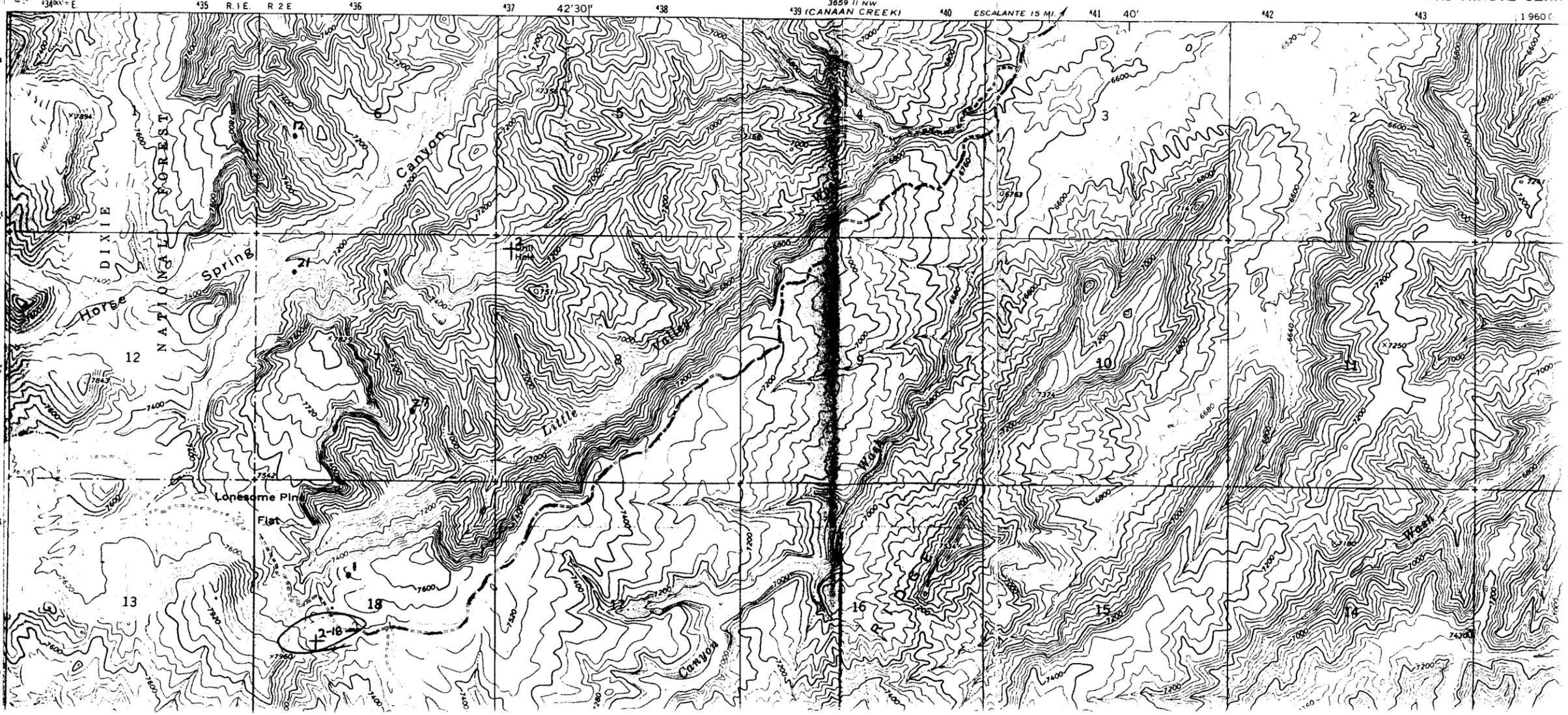
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Straight Cliffs	Surface	1670'	Freshwater, sand, shale U			
Tropic Shale	1670'	2450'	Sandstone			
Dakota	2450'	3989'	Sandstone			
Navajo Thousand Pockets	3989'	4115'	Sandstone & shale			
Navajo	4115'	6150'	Sandstone			
Shinarump	6720'	6930'	Shale			
McJopli	6930'	7618'	Sand			
Timpoweak (K-1)	7618'	7670'	Dolomite			
Timpoweak (K-2)	7670'	7725'	Dolomite			
Kaibab (K-3)	7725'	7787'	Dolomite			
Kaibab (K-4)	7787'	7805'	Dolomite			
Kaibab (K-4 Porosity)	7805'	TD	Dolomite			
	7782'	7822'	Core #1, 40'			

Fun
↓ Escalante



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEATH RIDGE
7.5 MINUTE SERIES





STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

December 3, 1985

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

Gentlemen:

Re: Well No. Little Valley 2-18 - Sec. 18, T. 37S., R. 2E.,
Garfield County, Utah - API #43-017-30131

This letter is to advise you that the "Well Completion or Recompletion Report and Log" for the above referenced well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, and forward it to this office as soon as possible, but not later than December 17, 1985.

Sincerely,

A handwritten signature in cursive script that reads "Pam Kenna".

Pam Kenna
Well Records Specialist

Enclosure

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0170S/21

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPI
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. WELL TYPE OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole		4. LEASE DESIGNATION AND SERIAL NO. U-31225	
2. NAME OF OPERATOR Tenneco Oil Company - RMD		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P.O. Box 3249, Englewood, CO 80155		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1,300' FWL, 1,810' FSL		8. FARM OR LEASE NAME Little Valley	
14. PERMIT NO. 43-017-30131		9. WELL NO. 2-18	
15. ELEVATIONS (Show whether SF, ST, CR, etc.) 5,786' gr		10. FIELD AND POOL, OR WILDCAT Upper Valley	
		11. SEC., T., R., N., OR S.E. AND SURVEY OR AREA Sec. 18, T37S-R2E	
		12. COUNTY OR PARISH Garfield	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDISE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDISING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Reclamation</u>	<input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

The restoration and reseeded of the Little Valley 2-18 was completed as of October 17, 1986. Theron Mitchell with the BLM (Cedar City District) was present for inspection. Dirt contractor - Lyman Construction.

In accordance with the BLM memorandum dated 4-15-86 from Quay Simon, during the week of October 13-17 the location and road was reseeded with the specified mixture of grasses. Pinon pines (30) were transplanted throughout the location. No future work should be necessary if the trees and grass take to the new soil.



DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED *R. A. [Signature]* TITLE Sr. Administrative Analyst DATE 10-30-86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL
(Other instructions
verse side)

111020

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

P.A.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole		8. LEASE DESIGNATION AND SERIAL NO. U-31225
2. NAME OF OPERATOR Tenneco Oil Company - RMD		9. NAME OF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 3249, Englewood, CO 80155		10. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1,300' FWL, 1,810' FSL		11. NAME OF LEASE NAME Little Valley
5. PERMIT NO. 43-017-30131		12. WELL NO. 2-18
6. ELEVATIONS (Show whether SP, ST, GR, etc.) 5,786' gr		13. FIELD AND POOL, OR WILDCAT Upper Valley
		14. SEC., T., R., N., OR S.E. AND SUBST. OR AREA Sec. 18, T37S-R2E
		15. COUNTY OR PARISH 16. STATE Garfield Utah

17. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALtering CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Reclamation</u>	<input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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RECEIVED
NOV 04 1986

DIVISION OF
OIL, GAS & MINING

19. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Sr. Administrative Analyst DATE 10-30-86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side