

UTAH DIVISION OF OIL, GAS AND MINING

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

DATE FILED 5-22-79

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-37944 INDIAN

DRILLING APPROVED: 5-22-79

SPUDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: Location Abandoned (Well Never Drilled) 12-10-80

FIELD: Wildcat 3/86

UNIT:

COUNTY: Uintah

WELL NO. Federal 21-14

API NO: 43-047-30580

LOCATION 744' FT. FROM (N) ~~XX~~ LINE. 1825' FT. FROM (KX(W) LINE. NE NW 1/4-1/4 SEC. 14

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				9S	24E	14	PACIFIC TRANSMISSION SUP

FILE NOTATIONS

Entered in NID File ✓
 Location Map Pinned ✓
 Card Indexed ✓

Checked by Chief
 Approval Letter
 Disapproval Letter

COMPLETION DATA:

..... Well Completed
 OS..... PA.....

Location Inspected

 State or Fee Land

LOGS FILED

Drillar's Log.....
 Electric Logs (No.)
 E..... I..... Dual I Lat..... GR-N..... Micro.....
 BHC Sonic GR..... Lat..... MI-L..... Sonic.....
 CLog..... CCLog..... Others.....

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

2. NAME OF OPERATOR
 Pacific Transmission Supply Company

3. ADDRESS OF OPERATOR
 P.O. Box 3093, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
 744' from north line, 1825' from west line,
 At proposed prod. zone NE 1/4 NW1/4, Section 14, T9S, R24E
 S.I.B. & M., Uintah County, Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 44 miles southeast of Vernal, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1825

16. NO. OF ACRES IN LEASE 720(+)

17. NO. OF ACRES ASSIGNED TO THIS WELL 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 5050

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5282' Ungraded ground

22. APPROX. DATE WORK WILL START*
 Upon receipt of approval

5. LEASE DESIGNATION AND SERIAL NO.
 U-37944

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Federal

9. WELL NO.
 21-14

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 14, T9S, R24E

12. COUNTY OR PARISH
 Uintah

13. STATE
 Utah



3

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48.0	150	200 sxs. circ. to surface
12-1/4"	9-5/8"	36.0	2500	Approx. 275 sxs.
7-7/8"	4-1/2"	11.6	5050	As necessary to protect all productive intervals.

Operator proposes to drill well to 5050' or 200' into Mesaverde formation. 9-5/8" 36.0#, K-55 intermediate casing will be run and cemented to protect the oil shale section of the Green River formation. All water flows and significant hydrocarbon shows will be evaluated and reported. The well will be operated according to the attached well program and all applicable regulations. Adequate BOP equipment will be maintained at all times as indicated in the attached Pressure Containment Data Specifications. If commercial production is encountered, 4-1/2", 11.6#, K-55 production casing will be run and cemented to adequately protect all potentially productive intervals. No abnormal pressures or temperatures or other potential hazards are anticipated.

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. J. Farth TITLE Petroleum Engineer DATE May 15, 1979

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

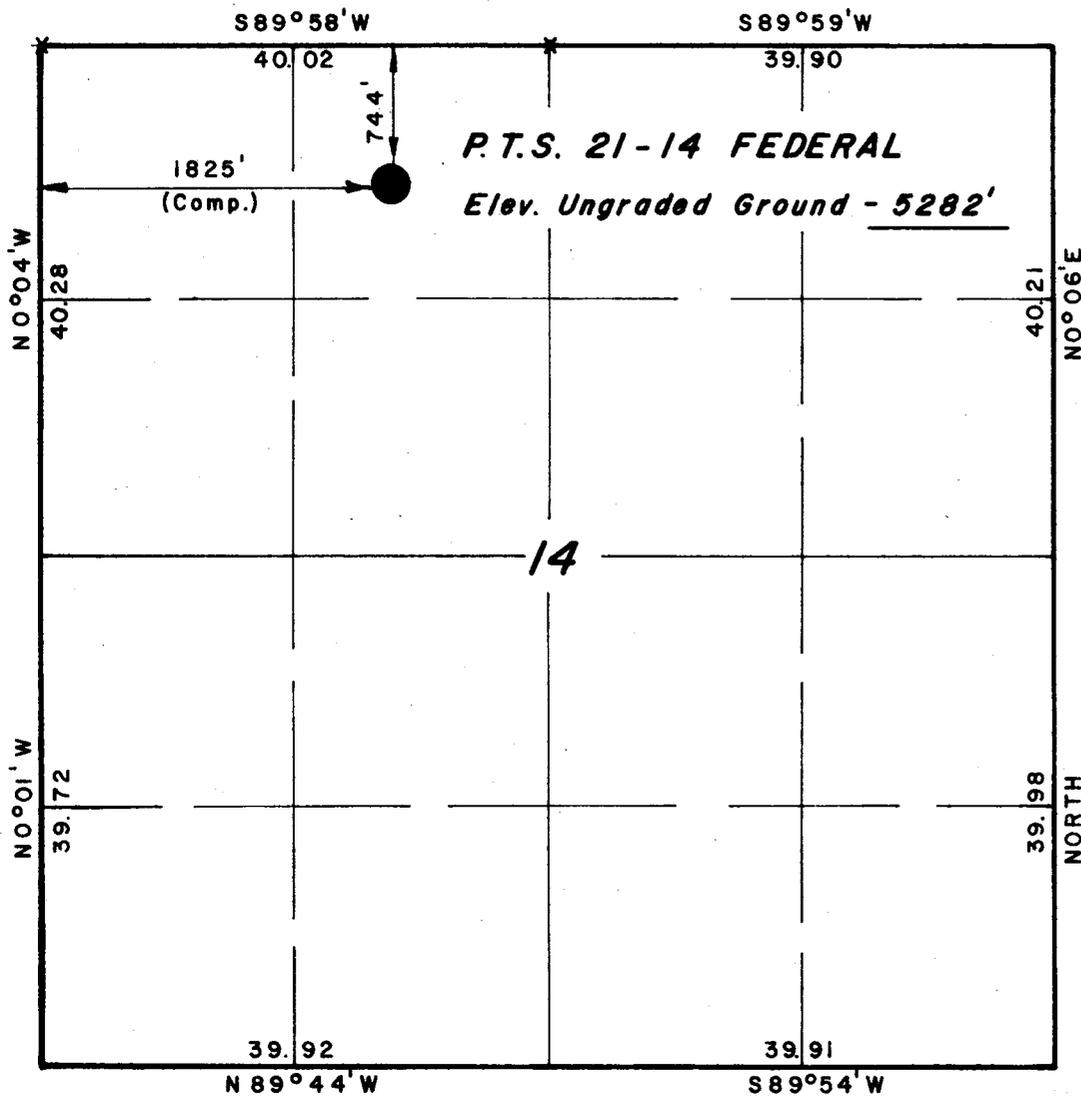
CONDITIONS OF APPROVAL, IF ANY:
 3-USGS, SLC,UT; 1-Div. of O&M, SLC,UT; 1-JLWroble; 1-ERHenry; 1-EEMulholland; 1-File

T9S, R24E, S.L.B.&M.

PROJECT

PACIFIC TRANSMISSION SUPPLY

Well location, *P.T.S. 21-14 FEDERAL*
 located as shown in the NE1/4 NW1/4
 Section 14, T9S, R24E, S.L.B.&M.
 Uintah County, Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
 FIELD NOTES OF ACTUAL 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 - 110 EAST - FIRST SOUTH VERNAL, UTAH - 84078	
SCALE 1" = 100'	DATE 5 / 10 / 79
PARTY L.D.T. D.S. S.B.	REFERENCES GLO Plat
WEATHER Cloudy & Cool	FILE PACIFIC TRANSMISSION

NOTE:
 X = Section Corners Located
 B.C. Set 1977 Not Approved

WELL PROGRAM

WELL: PTS #21-14 Federal

LOCATION: 744' from the north line and 1825' from the west line of Section 14, T-9-S, R-24-E, Uintah County, Utah.

CONTRACTOR: To be selected.

OBJECTIVE: A depth of 5050' should be sufficient to penetrate 200' into the Mesaverde.

<u>FORMATION TOPS:</u>	<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
	Green River	Surface	
	Wasatch	3570'	+1712
	Y-Marker	4500'	+ 782
	Mesaverde	4830'	+ 452
	Total Depth	5050' or 200' into the Mesaverde	

SAMPLES: Collect cutting samples at ten (10) foot intervals from under surface to total depth. Samples will be collected by drilling crews for the wellsite geologist. Two (2) sets of samples will be collected in the oil shale section of the Green River formation with one (1) set to be sent to the Bureau of Mines, Laramie, Wyoming. Frequency of sample collection may be changed at the wellsite geologist's discretion.

ELECTRICAL

SURVEYS: The following Logging Program will be employed.

150' - 2500' 12-1/4" hole to 2500'. Run Dual Induction Laterolog, Borehole Compensated Sonic and Compensated Formation Density logs.

2500' - 5050' 7-7/8" hole below 9-5/8" casing. Run Dual Laterolog, Borehole Compensated Sonic and Compensated Formation Density logs.

MUD LOGGER: A portable mud logging unit will be operated by the wellsite geologist from below surface casing (150' (+)) to total depth.

TESTING

PROGRAM: All significant shows of oil and gas will be drillstem tested. Use floor manifold with positive choke assembly, hydraulic jars, safety joint, reverse circulating sub, sampler assembly and dual packers. Collect samples of all fluids recovered for further analysis.

DRILLING FLUID

PROGRAM: See Drilling Fluid Program for complete details. This well will be drilled with a salt water mud system to provide formation inhibition and maximum penetration rate.

<u>CASING PROGRAM:</u>	<u>Size</u>	<u>Setting Depth</u>	<u>Hole Size</u>	<u>Cement</u>
	13-3/8"	150'	17-1/2"	Approximately 200 sx. Class G w/3% Ca Cl.
	9-5/8"	2500' <u>±</u>	12-1/4"	Approximately 275 sx. to be verified after logs are run.
	4-1/2"	5050'	7-7/8"	Amount will be determined after logs are run. Use regulated fillup and Class G type cements.

DRILLING FLUID PROGRAM

PTS #21-14

The following drilling fluid program will be employed:

<u>Interval (Feet)</u>	<u>Mud Weight (lbs/gal)</u>	<u>Viscosity (secs/qt)</u>	<u>Fluid Loss (ml/30 min)</u>
0 - 150	-----AIR-----		
	Set 13-3/8" casing at 150'.		
150 - 2500	8.4 - 8.9	26 - 29	No Control
	Drill out surface casing with water, increasing the drilling fluid salinity to about 40,000 ppm NaCl. The salty water will improve hole stability by minimizing swelling shale tendencies and will allow cuttings to settle out rapidly. Utilize available solids control equipment and circulate reserve pit if possible. Occasional sweeps of pre-hydrated bentonite may be necessary to insure adequate hole cleaning while drilling 12-1/4" hole.		
	Set 9-5/8" intermediate casing at 2500'.		
2500 - 4500	8.6 - 8.9	27 - 30	No Control
	Drill out of intermediate casing and continue drilling with 40,000 ppm salt water. Neglecting solids control when drilling with water can result in differential sticking in subnormally pressured, permeable zones. This is due to the thick wall cake which forms as a result of high fluid loss and relatively high solids content. Consequently, if the reserve pit cannot be included in the active system, precautions should be taken to prevent drilled solids from being re-circulated. The mud tanks should be dumped and cleaned frequently and all available solids control equipment should be used. Occasional sweeps of pre-hydrated bentonite, salt gel or asbestos fiber should be used as necessary to clean the hole if tight connections are experienced or excessive fill is encountered. A drilling detergent might be used to provide lubricity and minimize bit balling.		
4500 Total Depth	9.0 - 9.6	32 - 38	12cc's/less

As it becomes necessary, or at approximately 4500' mud up with salt gel, pre-hydrated gel, a viscosifier and caustic soda. Drilling fluid salinity can be adjusted as necessary to increase mud weight without adding additional solids to the system.

Some loss of circulation is anticipated in this well. To avoid fracturing weak formations, keep the mud weight, yield point and gels low as possible. Care should be taken to minimize swab and surge pressures by avoiding excessive pipe speed while tripping in and out of the hole.

Lost circulation should be handled with conventional types of lost circulation materials with fine mica recommended for minor losses. If severe losses are encountered, requiring the use of lost circulation material that will not pass through the shaker screen, consider using pill treatments instead of maintaining lost circulation material in the system continuously. Lost circulation which cannot readily be controlled by more conventional means may justify the use of cement plugs.

A small stream of water should be run continuously while drilling and the mud tanks should be cleaned frequently to minimize the recirculation of drilled solids and allow the addition of fresh materials to the system. Water should be reclaimed from the reserve pit to conserve water and also reduce some chemical additions.

Continue to total depth with this mud system, increasing the viscosity as necessary to provide proper hole cleaning. Well site interpretation of hole conditions will help determine the fluid properties necessary to ensure satisfactory operations.

DRILLING PROCEDURE

PTS #21-14

- 1) Move in air percussion rig and drill 17-1/2" hole to 150'. Set and cement 13-3/8", 48.0#, H-40 casing to surface with approximately 200 sacks cement. WOC.
- 2) Move in rotary drilling rig and equipment. Cut off 13-3/8" casing and install 3000# casing flange. Install BOP equipment per BOP and Pressure Containment Data. Pressure test BOP's, manifold and all valves to 3000# and annular preventer to 2000# prior to drilling casing shoe. Drill 12-1/4" hole to 2500'. Conduct electric logging and prepare hole for intermediate casing.
- 3) Set and cement 9-5/8", 36.0#, K-55 intermediate casing sufficiently to protect any water, oil, gas or other mineral-bearing formations. WOC.
- 4) Land casing and install intermediate spool. Install all BOP equipment and retest prior to drilling casing shoe.
- 5) Drill 7-7/8" hole to total depth. Perform drill-stem testing as warranted. Conduct electric logging and prepare hole for production casing.
- 6) Run 4-1/2", 11.6#, K-55 production casing and cement as necessary across potential zones. The length of the cement column will be determined after the logs have been evaluated.
- 7) Release rotary drilling rig and develop completion procedure.

Special Instructions:

- 1) Run deviation surveys at regular intervals and in conjunction with bit trips.
- 2) Utilize a degasser and necessary solids control equipment.
- 3) Avoid surging hole on trips and fill hole properly when pulling pipe.
- 4) All crew members should be familiar with BOP operations. Functional test pipe rams daily and close blind rams each trip out of the hole.
- 5) Drilling crews should observe to detect either decrease or increase in fluid level.
- 6) A regular daily mud check should be made by mud engineer.
- 7) Drill stem testing will be determined by the well site geologist.

Personnel & Mailing Information:

Dee E. Beardsley, Manager of Operations
Pacific Transmission Supply Company
P.O. Box 3093
Casper, WY 82602
Telephone: Office (307) 265-1027
Home (307) 234-7666

E. E. Mulholland, Operations Engineer
Pacific Transmission Supply Company
P.O. Box 3093
Casper, WY 82602
Telephone: Office (307) 265-1027
Home (307) 265-4191

R. J. Firth
Pacific Transmission Supply Company
85 South 200 East
Vernal, UT 84078
Telephone: Office (801) 789-4573
Home (801) 789-5575

Notification of Shows, DST's and Unusual Problems:

Dee E. Beardsley	Office: 307-265-1027	Home: 307-234-7666
J. L. Wroble	303-571-1662	303-770-2667
E. E. Mulholland	307-365-1027	307-265-4191
R. J. Firth	801-789-4573	801-789-5575

Distribution of Information:

Pacific Transmission Supply Company
P.O. Box 3093
Casper, WY 82602
Attn: Mr. D. E. Beardsley

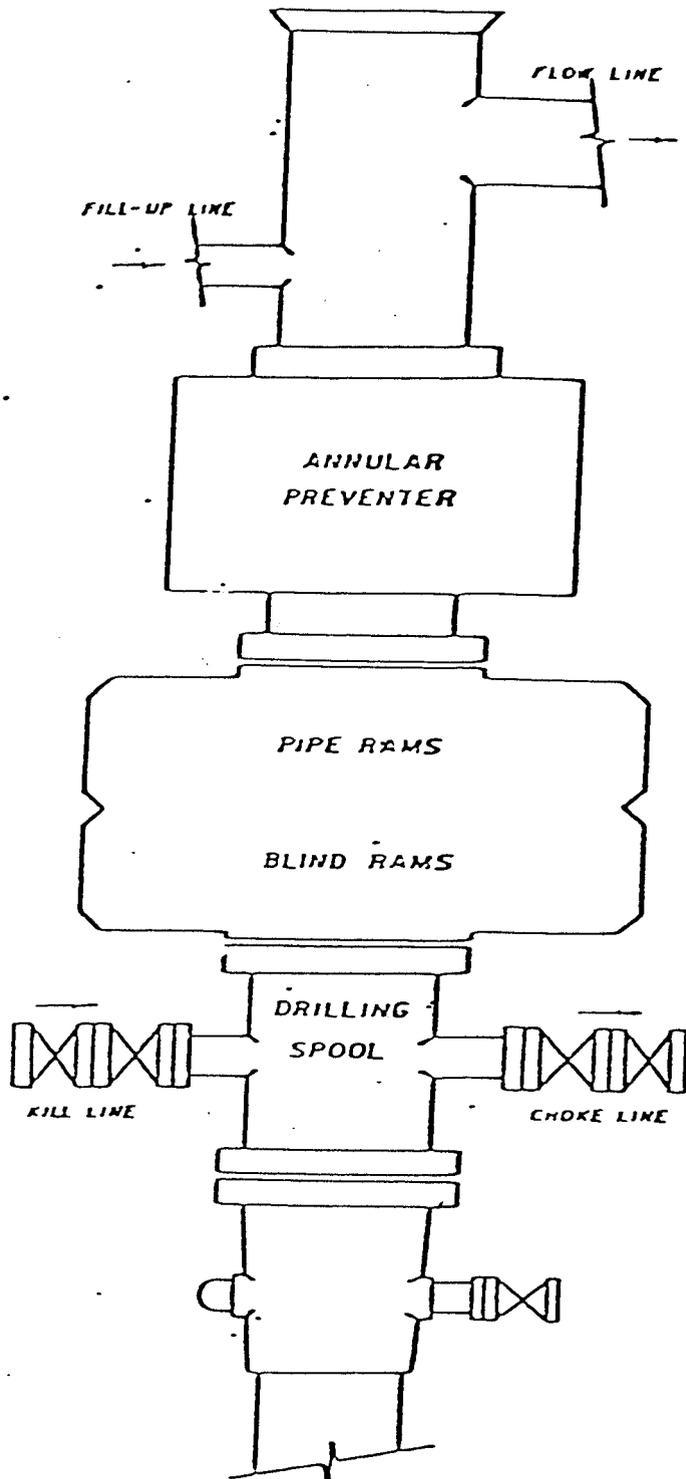
Pacific Transmission Supply Company
85 South 200 East
Vernal, UT 84078
Attn: Mr. R. J. Firth

Pacific Transmission Supply Company
717 Seventeenth Street Suite 2300
Denver, CO 80202
Attn: Mr. J. L. Wroble

U.S. Geological Survey
8426 Federal Building
Salt Lake City, UT 84138
Attn: Mr. E. W. Guynn

State of Utah
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, UT 84116
Attn: Chief Petroleum Engineer

PACIFIC TRANSMISSION SUPPLY
BOP AND PRESSURE CONTAINMENT DATA



1. BOP equipment shall consist of a double gate, hydraulically operated preventer with pipe and blind rams or two single ram type preventers, one equipped with pipe rams, the other with blind rams and an annular type preventer, all to be 10" - 3000 W.P.
2. BOP's are to be well-braced with hand controls extended clear of substructure.
3. Accumulator to provide closing pressure in excess of that required with sufficient volume to operate all components.
4. Auxiliary equipment: Lower kelly cock, full opening stabbing valve, 2½" choke manifold, pit level indicator and/or flow sensors with alarms.
5. All BOP equipment, auxiliary equipment stand pipe and valves and rotary-hose to be tested to the rated pressure of the BOP's at time of installation and every 30 days thereafter. BOP's to be mechanically checked daily.
6. Modification of hook-up or testing procedure must be approved in writing on tour reports by wellsite representative.

PACIFIC TRANSMISSION SUPPLY COMPANY

13 Point Surface Use Plan

For

Well Location

P.T.S. #21 - 14 Federal

Located In

Section 14, T9S, R24E, S.L.B. & M.

Uintah County, Utah

PACIFIC TRANSMISSION SUPPLY COMPANY
P.T.S. #21-14 Federal
Section 14, T9S, R24E, S.L.B. & M.

1. EXISTING ROADS

The attached Topographic Map "A" indicates the route to the Pacific Transmission Supply Company well site, P.T.S. #21-14 Federal, located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 14, T9S, R24E, S.L.B. & M., from Vernal, Utah:

Proceed East from Vernal, Utah along U.S. Highway 40—24 miles to the junction of this Highway and Utah State Highway 45 to the South; proceed South along this road 20.2 miles to the junction of this road and the proposed access road to be discussed in Item #2.

The two highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where they meet the proposed access road.

There is no anticipated construction on any portion of the above described roads. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling phase, completion phase, and the production phase of this well at such time that production is established.

The roads that are required for access during the drilling phase, completion phase, and production phase of this well, will be maintained at the standards required by the B.L.M. or other controlling agencies.

2. PLANNED ACCESS ROAD

See Topographic Map "B" and the Location Layout Sheet.

The proposed access road leaves the existing road described in Item #1 in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 14, T9S, R24E, S.L.B. & M. and proceeds in a Northeasterly direction approximately 300' to the proposed location site.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met:

The proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be 1 $\frac{1}{2}$ to 1 slopes and terraced.

One (1) 24" diameter culvert will be required along the access road.

The road will be centerline flagged prior to the commencement of construction.

PACIFIC TRANSMISSION SUPPLY COMPANY
P.T.S. #21 - 14 Federal
Section 14, T9S, R24E, S.L.B. & M.

2. PLANNED ACCESS ROAD - Continued

If deemed necessary by the local governmental agencies or their representatives, turnouts will be installed for safety purposes every 0.25 miles or on the top of ridges that will provide the greatest sight distance. These turnouts will be 200' in length and 12' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access and the outlet end.

Any fences that are encountered along this access road will be cut and replaced with a cattleguard with a minimum width of 18' and a loading factor large enough to facilitate the heavy trucks required in the drilling and production of this well.

If cattleguards are to be located at existing gates, they will be installed with the above requirements and with a new gate installed at one end of the cattleguard.

The access from the road to the gate will be of such a nature that there will be no impedance of traffic flow along the main access road and no difficulties encountered by traffic utilizing the gate either leaving or entering the proposed access road.

The terrain that is traversed by this road is generally level, it is vegetated by sagebrush and grasses.

3. LOCATION OF EXISTING WELLS

There are no known water wells, producing wells, abandoned wells, disposal wells, drilling wells, shut in wells, injection wells, monitoring or observation wells for other resources within a one mile radius of this location site.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

There are no Pacific Transmission Supply Co. tank batteries, production facilities, oil gathering lines, gas gathering lines, injection lines, or disposal lines within a one mile radius of this location site.

In the event that production is established, all petroleum production facilities will be contained within the proposed location site (see location layout sheet). Plans for a flowline from this location to existing lines in the area will be submitted upon completion of the well. Plans will be submitted to the appropriate agencies upon completion of survey. The areas used for production facilities will be built using bulldozers, graders, and workman crews to lay lines, and set up equipment.

The rehabilitation of the disturbed area that is not required for the production of this well, will meet the requirements of Items #7 and #10 and these requirements and standards will be adhered to.

PACIFIC TRANSMISSION SUPPLY COMPANY
P.T.S. #21-14 Federal
Section 14, T9S, R24E, S.L.B. & M.

5. LOCATION AND TYPE OF WATER SUPPLY

Water to be used in the drilling of this well will be hauled from Bonanza, Utah from a water well owned by American Gilsonite Company. The water will be transported by truck for approximately 2 miles on the existing roads to the location site.

In the event this is not a suitable source an alternate source will be made and all agencies involved will be notified.

There will be no water well drilled.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during the construction of the location site and access road. No additional road gravels or pit lining materials from other sources are anticipated at this time, but if they are required the appropriate actions will be taken to acquire them from private sources.

All surface disturbance is on Bureau of Land Management administered lands.

7. METHODS FOR HANDLING WASTE DISPOSAL

See Location Layout sheet.

A reserve pit will be constructed.

The reserve pit will be approximately 8' deep and at least one half of this depth shall be below the surface of the existing ground.

One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

If deemed necessary by the agencies concerned to prevent contamination to surrounding areas, the reserve pits will be lined with a gel.

The pits will have wire and overhead flagging installed if deemed necessary to protect the water fowl, wildlife, and domestic animals.

At the onset of drilling, the reserve pit will be fenced on three sides and at the time drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and other reclamation activities are attempted.

When the reserve pit dries and reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

PACIFIC TRANSMISSION SUPPLY COMPANY
P.T.S. # 21 - 14 Federal
Section 14, T9S, R24E, S.L.B. & M.

7. METHODS FOR HANDLING WASTE DISPOSAL - Continued

All waste materials will be gathered and hauled to the Rangely, Colorado, land fill.

A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen.

9. WELL SITE LAYOUT

See location layout sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area. Then the pits will be lined with a gel and any other type material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (see location layout sheet and Item #9). When all drilling and production activities have been completed the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area.

Any drainages re-routed during the construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pits shall be buried with a minimum of 5' of cover.

As mentioned in Item #7, the reserve pits will be completely fenced and wired and overhead flagging installed if there is oil in the pits, and then allowed to dry completely before covering.

Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

PACIFIC TRANSMISSION SUPPLY COMPANY
P.T.S. #21 - 14 Federal
Section 14, T9S, R24E, S.L.B. & M.

10. PLANS FOR RESTORATION OF SURFACE - Continued

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area (See Topographic Map "A")

The area is a basin formed by the Blue Mountain Plateau and Green River to the North and White River and Roan Plateau to the South.

The basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone, conglomerates, and shale deposits are extremely common to the area.

The geologic structures of the area that are visible are of the Uintah Formation (Eocene Epoch) Tertiary Period in the upper elevations and the cobblestone and younger Alluvial deposits from the Quaternary Period.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoil in the area range from a light brownish-gray sandy clay (SM-SL) type soil poorly graded gravels to a clayey (OL) type soil.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rainfall in the area is only 8".

The White River to the South of this location is the only perennial stream that is affected by this location site.

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in. It consists of areas of sagebrush, rabbitbrush, some grasses and cacti as the primary flora. This is also true for the lower elevations.

The fauna of the area consists predominantly of the mule deer, coyotes, rabbits and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

PACIFIC TRANSMISSION SUPPLY COMPANY
P.T.S. #21 - 14 Federal
Section 14, T9S, R24E, S.L.B. & M.

11. OTHER INFORMATION - Continued

The Topography of the Immediate Area (Topographic Map "B")

P.T.S. #21 - 14 Federal is located on a relatively flat area. East of a non-perennial drainage which drains to the North into a non-perennial drainage known as Coyote Wash which drains to the West into the annually flowing White River.

The majority of the drainages in the area around this location run in a Northerly direction into Coyote Wash which is a tributary to the White River and are non-perennial streams.

The terrain in the vicinity of the location slopes to the North from a small ridge through the location site at approximately a 3% grade into a small wash to the North.

The vegetation in the immediate area surrounding the location site is predominantly sagebrush, and grasses. There are no occupied dwelling or other facilities of this nature in the general area. There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

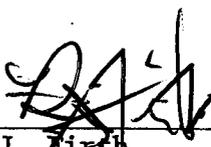
R.J. Firth
85 South 200 East
Vernal, Utah 84078

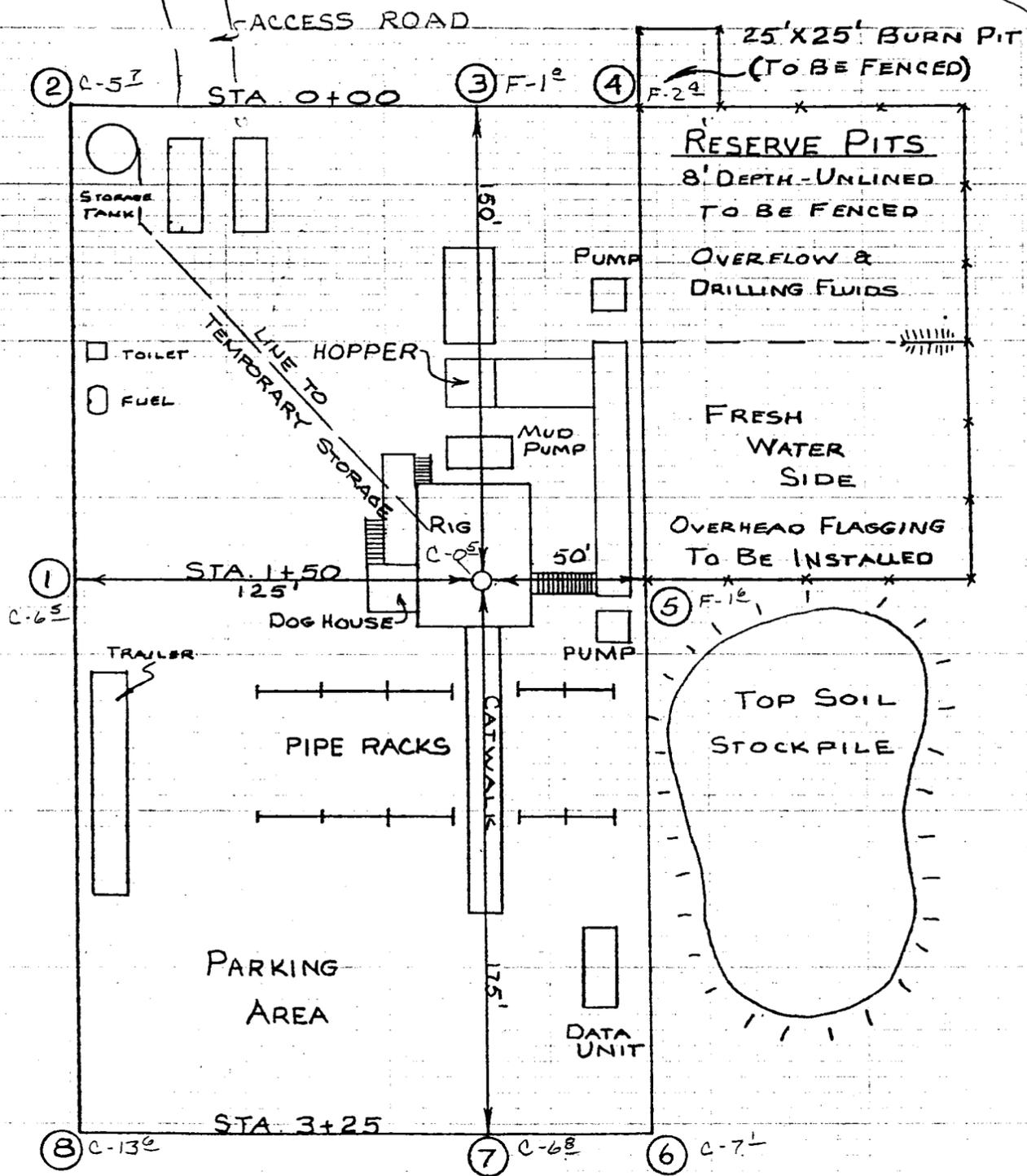
Telephone: 789-4573

13. CERTIFICATION

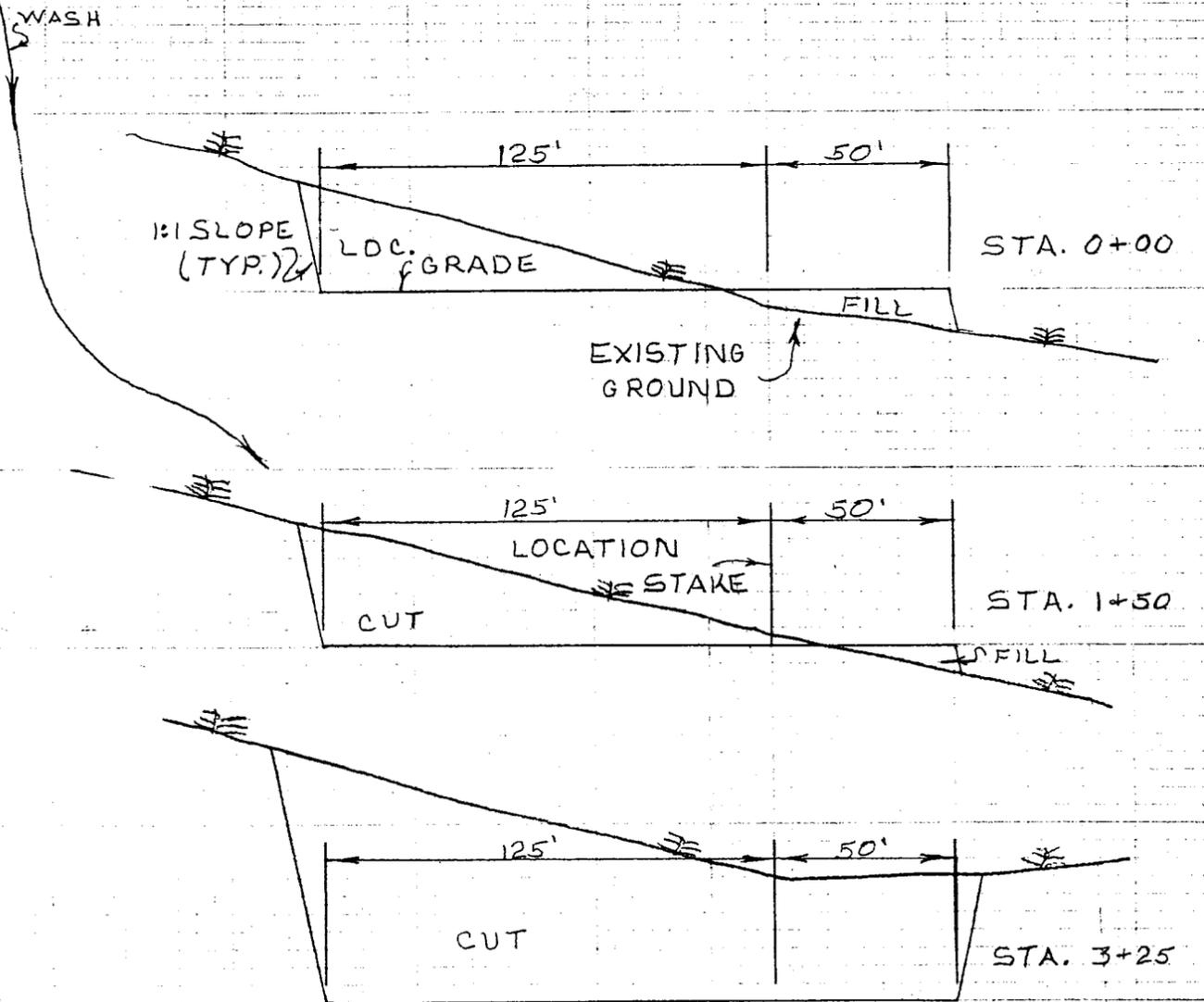
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge and belief, true and correct; that the work associated with the operations proposed herein will be performed by Pacific Transmission Supply Company and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

May 15, 1979
Date

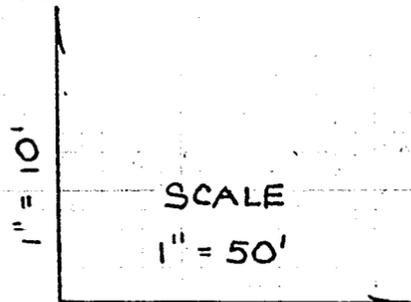
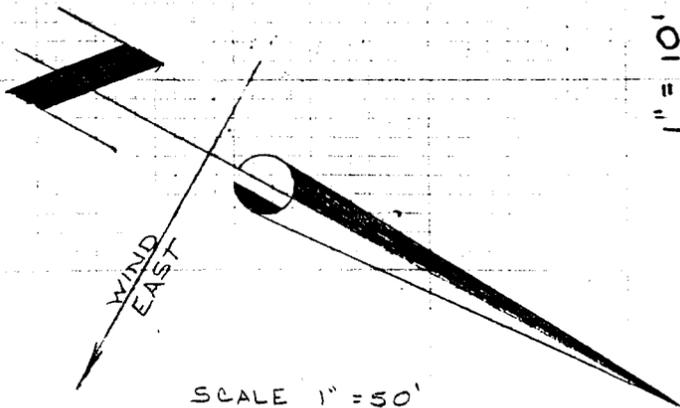
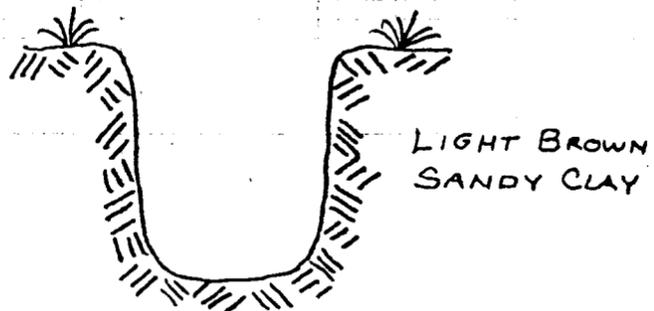

R.J. Firth
Petroleum Engineer



CROSS SECTIONS



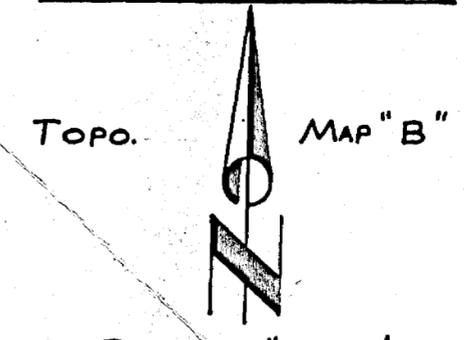
SOILS LITHOLOGY
- NO SCALE -



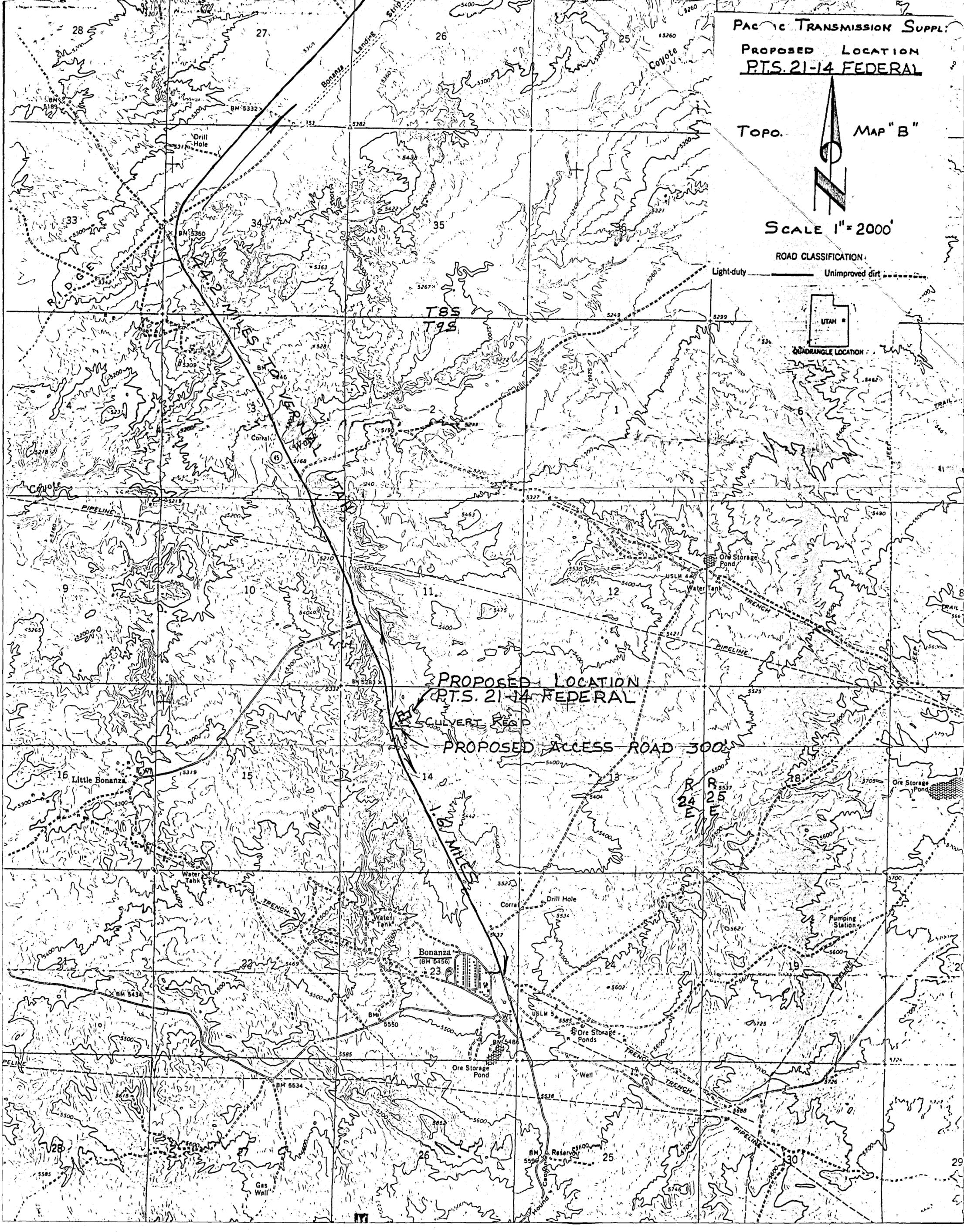
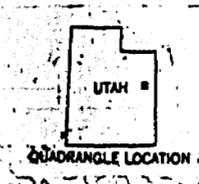
APPROX YARDAGES

CUT -	9,326	CU. YDS.
FILL -	446	CU. YDS.

PROPOSED LOCATION
PTS. 21-14 FEDERAL



TOPO. MAP "B"
SCALE 1" = 2000'
ROAD CLASSIFICATION:
Light-duty ——— Unimproved dirt - - - - -



DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Utah
SERIAL No.: U-37944

and hereby designates

NAME: Pacific Transmission Supply Company
ADDRESS: 245 Market Street
San Francisco, California 94105

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

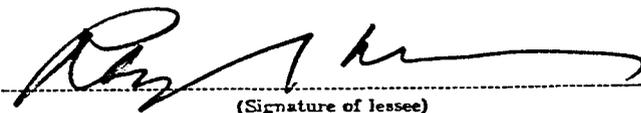
Township 9 South - Range 24 East
Section 11: All
Section 14: N $\frac{1}{2}$ NW $\frac{1}{4}$

Containing 720 acres, m/1
Uintah County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.



(Signature of lessee)

401 Lincoln Street
1860 Lincoln Street
Denver, Colorado 80295

(Address)

April 19, 1979

(Date)

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: May 17, 1979

Operator: Pacific Transmission Supply Co.

Well No: Federal 21-14

Location: Sec. 14 T. 9S R. 24E County: Uintah

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number: 43-047-30580

CHECKED BY:

Administrative Assistant: _____

Remarks:

Petroleum Engineer: _____

Remarks:

Director: approve - nominal

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. _____

Surface Casing Change
to _____

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

O.K. Rule C-3

O.K. In _____ Unit

Other:

Letter Written/Approved



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

CHARLES R. HENDERSON
Chairman

CLEON B. FEIGHT
Director

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE McINTYRE

May 22, 1979

PACIFIC TRANSMISSION SUPPLY COMPANY
P O BOX 3093
CASPER WY 82602

Re: Well No. Federal 21-14, Sec. 14, T. 9S, R. 24E, Uintah County, UT

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

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

MICHAEL T. MINDER - Geological Engineer
HOME: 876-3001
OFFICE: 533-5771

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 43-047-30580.

Yours very truly,

DIVISION OF OIL, GAS, AND MINING


Cleon B. Feight, Director

/lw

cc: U. S. Geological Survey



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH

CHARLES R. HENDERSON
Chairman

DEPARTMENT OF NATURAL RESOURCES

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CLEON B. FEIGHT
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1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE McINTYRE

February 7, 1980

Pacific Transmission Supply Co.
P. O. Box 3093
Casper, Wyoming 82602

attention R. J. Smith

RE: Well No. Federal #21-14
Sec. 14, T. 9S, R. 24E,
Uintah County, Utah

Gentlemen:

In reference to above mentioned well(s), considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. If you do not intend to drill this well (these wells), please notify this Division. If spudding or any other activity has taken place, please send necessary forms.* If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill this well, and action will be taken to terminate the application. If you plan on drilling this well 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

DEBBIE BEAUREGARD
CLERK-TYPIST

March 17, 1980

Pacific Transmission Supply Co.
ATTENTION: R.J. Firth
P.O. Box 3093
Casper, Wyoming 82602

Re: Well No. Fed. #21-14
Sec. 14, T. 9S, R. 24E.
Uintah County
SECOND NOTICE

Gentlemen:

In reference to above mentioned well, 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 this well, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill this well and action will be taken to terminate the application. If you plan on drilling 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

Janice Tabish

JANICE TABISH
CLERK-TYPIST

*12-10-80 called on Firth
Location abandoned*