



NOTES

SURVEY AND MAP  
 BY  
**TENNESON ENGINEERING CORP.**  
 CONSULTING ENGINEERS  
 The Dalles, Oregon  
 JUNE 14, 1979

NO.	DATE	DESCRIPTION	WO.	DR.	CH.	APPROVALS
1	6-19-79	ADD 20' EASEMENT & SEMI-TANG. TIE AT	9951-1	S.D.H.		

RECORD OF APPROVALS AND CHANGES

SURVEY SHOWING  
 MAIN LINE VALVE 8-1 AND  
 EXISTING & PROPOSED EXCLUSIVE ESMTS.  
 IN SEC. 21 T.5N, R.30E, W.M.  
 Umatilla County, Oregon  
 PACIFIC GAS TRANSMISSION COMPANY  
 SAN FRANCISCO, CALIFORNIA

SCALE AS SHOWN	
BILL OF MATERIAL	CHANGE
SUPERSEDES	
SHEET 1 OF 1 SHEETS	
DRAWING NUMBER	CHANGE

REGISTERED  
 PROFESSIONAL  
 LAND SURVEYOR  
*Lawrence C. Jones*  
 DREG.  
 LAWRENCE C. JONES  
 1974

RECEIVED BY  
 Umatilla County Surveyor  
 Date July 16, 1979  
 Rec'd By M. Hughes  
 No. Q-1129-C

SCALE 1"=30'

DO NOT REMOVE  
FROM FILE

W.O. #5951-1  
June 14, 1979

FIELD NOTES: Survey for Pacific Gas Transmission Company, Section 21,  
Township 5 North, Range 30 East, Willamette Meridian,  
Umatilla County, Oregon.

RECEIVED BY

CREW: Lawrence E. Jones, Partychief  
Robert Ulrich, Chainman

Umatilla County Surveyor

Date July 16, 1979

DATE COMPLETED: June 14, 1979

Rec'd By M. Hughes

No. Q-1129-C

On May 8, 1979, our firm was retained by Bechtel, Inc., acting as agents for Pacific Gas Transmission Company, to provide a survey of the 36" natural gas pipeline main line valve 8-1 in Section 21, Township 5 North, Range 30 East, Willamette Meridian, Umatilla County, Oregon. The purpose of the survey was to tie the pipeline into the southeast and southwest corners of Section 21 and locate the pipeline right-of-way adjacent to the State Highway right-of-way No. 395 and a state owned parcel for stockpile site located on the north side of the highway, west and adjacent to the pipeline right-of-way.

Information furnished by Bechtel included title report of the Highway Commission parcel; assessor's plat map showing the location of the parcel in the highway relative to the pipeline; Pacific Gas Transmission drawing 500-E-RW-1043 showing proposed pipeline easement areas; Pacific Gas Transmission drawing 500-D-CD-224 showing existing easement areas; copies of the highway alignment maps for Highway 395 showing the highway alignment and state owned parcel to be surveyed; copies of survey by E. H. Schmitt Corporation done to locate the pipeline within the section; and copies of the original right-of-way survey done by our firm to acquire the right-of-way.

Before starting the survey, we made further search of the records in the Umatilla County Surveyor's Office and obtained surveys done by Wayne Harris Company of Pendleton in this area, their drawings No. 66-186C, 74-404C and 74-437C. The Harris surveys indicated they had done a considerable amount of work in developing the section corners available within the lower half of the township adjacent to Section 21. In doing this work, Harris Company had either recovered or set a number of corners in this area.

Search was started in the field around the perimeter of Section 21. In the northeast corner of Section 21, a 1½" axle shaft shown as set by Harris was recovered. The southeast corner was not found -- it fell in an irrigation circle and obviously had been destroyed if it ever did exist in the field. Southwest corner of Section 21 (a brass cap monument) was found which was shown as set by Harris in December, 1974. The northwest corner of Section 21 was indicated as a found 2" pipe in 1966, which was not found at this time. No evidence was found of any of the quarter corners within Section 21.

It became apparent from the review of the field information, it would be necessary to re-establish the southeast corner of Section 21 by double

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proportionate measure. To develop enough information to do this, we expanded our search along the west line of Section 28 to the south, locating the southwest corner of Section 28 (a brass cap) and continuing south another mile to the southwest corner of Section 33 (a brass cap). Search was continued along the south line of the township to the east where the nearest corner indicated in the Harris work was to the southeast corner of Section 35. Harris' 1966 survey indicated a stone was found at this position. The area had been recently cultivated and discussion with the property owner indicated the original stone found by Harris had been destroyed in the cultivation process. Evidence of survey stakes was found in the approximate location of the stone.

After reviewing the available information, it was determined the procedure would be to tie the centerline of the gas pipeline into the found monuments established by the prior Harris surveys and then, using the information shown on those Harris surveys to the found corners, double proportion in the missing southeast corner of Section 21. Ties were made to the found corners along the west lines of Section 33 and 28 and northeast corner of Section 21. The ties developed checked within allowable field accuracy of the information shown on the Harris survey plats. The west line of Section 33 was accepted as the basis of the bearing for the entire survey. The section corner traverse was then tied to the Pacific Gas Transmission pipeline centerline as established by M-scope location.

The centerline of Highway 395 lying west of the pipeline was established by using the as-built centerline of the improvement which was a tangent of nearly two miles in length. There was no evidence of any monumentation of this right-of-way. Bearings of the Harris surveys and State Highway Department alignments were rotated to the common basis of bearing used for the survey. The southeast corner of Section 21 position was calculated by double proportionate measure and the point set in the field. The corner position fell in the middle of one of the irrigation circles. The corner position was monumented with a brass cap set in concrete, one foot below the ground surface. A 5/8" iron rod with an aluminum cap was set in a mound of stone, 300.00 feet easterly on the projection of the south boundary of Section 21. A brass cap monument on a 2" iron pipe 2' long was set for the south 1/4 corner of Section 21.

The deed description for the State Highway parcel utilized coordinates of East and North of the southeast corner of Section 21 as a starting point. The deed further placed a call as starting on the north right-of-way of the highway. When these coordinates were laid out in the field, it was found the position fell on the south side of the highway and obviously a conflict existed between the given coordinates and the deed call of the north right-of-way in the deed description. The highway alignment map showed the state parcel to be located at the point of curvature of the highway, engineer's centerline Station 235+22.4. A field determination of this point of curvature was laid out and tied to the survey. It developed the west coordinate of the description could be utilized and fit this point, but some adjustment would be required in the north coordinate. It was determined using the west coordinate call of the deed and intersecting the north-right-of-way of the highway alignment would be the best evidence available. This, coupled with the highway map showing

the parcel located at the point of curvature, seemed to fit all available information. The parcel boundaries were then established relative to the centerline of the gas pipeline on this basis.

Information found in the field, monuments established, ties made, are shown on the attached map prepared for Pacific Gas Transmission Company, T.E.C. W.O. #5951-1 which, by reference, is made a part of these notes.

REGISTERED  
PROFESSIONAL  
LAND SURVEYOR

Signed

*Lawrence E. Jones*

Lawrence E. Jones  
Oregon Registered Land Surveyor #994

OREGON  
LAWRENCE E. JONES  
994

CHECKED AND APPROVED:

Tenneson Engineering Corporation

*Donald J. Rohde*

Donald J. Rohde, Corporation Secretary