

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**

Order Instituting Investigation on the
Commission's Own Motion into the Operations
and Practices of Pacific Gas and Electric
Company with Respect to Facilities Records for
its Natural Gas Transmission System Pipelines.

I.11-02-016
(Filed February 24, 2011)

**PACIFIC GAS AND ELECTRIC COMPANY'S
UPDATED SUPPLEMENTAL RESPONSE TO LEGAL
DIVISION'S "NOTICE AND DISCLOSURE OF SAFETY
EVIDENCE AND COMPANION MOTION FOR PUBLIC
RELEASE OF EVIDENCE"**

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Dated: November 15, 2011

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As requested by ALJ Yip-Kikugawa at the November 1, 2011 prehearing conference, PG&E provides this updated supplemental response to the "notice and disclosure of safety evidence" to provide additional supporting documents and narrative descriptions for its comments on the documents previously identified by Legal Division. PG&E also corrects errors in three of the comments (Documents 25, 26 and 53).

Attachment A is a revised version of the Attachment A included with PG&E's October 31, 2011 Supplemental Response reflecting the additional narrative and corrections. Attachment B is a redline of this version against that submitted on October 31. Attachment C contains the additional supporting documents referred to in Attachment A. All of these documents come from PG&E's ECTS database, except for the material code document. That document was

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previously submitted as Document P1-2 to Chapter 3 of PG&E's April 18, 2011 filing in response to the Commission's directives in this proceeding.

Respectfully submitted,

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ATTACHMENT A
(Revised)

No.	Date	Description	Comments	Line No.
1	1/1/57	<u>Construction Drawing:</u> As-built drawing showing 2598' of 24" pipe salvaged from a relocation job and 22' salvaged and reused.	The pipe installed next to this job is 1947 pipe. Based on other documents, it appears the 22' of pipe was not considered new pipe and is still labeled as 1947 pipe. This conclusion is based on Document 9 and the fact that Document 1 itself does not refer to the 22' as "installed," as it does the other pipe installed on this job, but "salvaged and reused." PG&E is hydro testing this section of pipe this year. This section is part of test T-30, which was completed on November 10, 2011.	132
2	2/15/68	<u>"Job Facesheet"</u> calls for installation and removal of temporary 30" main, including salvage of temporary main, and pipe removed or abandoned.	Where a temporary main is installed, the temporary portion will almost always be salvaged or removed because it is in the way of other construction work. There is no indication that this pipe was reconditioned and reused. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
3	10/1/94	<u>Posting check list</u>	This is a check off list for the mapping department when processing job documents.	109
4	5/7/57	<u>"Job Facesheet"</u> for the relocation of a main and calling for the salvage of the original 1947 pipe.	Typically on a relocation job where the old main is in the way of other construction, PG&E is paid to move the pipe out of the way of the other work. Here, the pipe was salvaged or removed from the ground. There is no indication it was reconditioned or reused. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
5	8/29/58	<u>"Job Facesheet"</u> calls for relocation of line and "Remove salvage."	Removal of old pipe is typical for a relocation job. There is no indication the pipe was reconditioned or reused. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132

No.	Date	Description	Comments	Line No.
6	3/18/60	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This form is for the reconditioning of 2485’ ft of pipe and abandonment of “wrot [sic] iron” scrap.	There is no indication the reconditioned pipe was installed on this job. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
7	12/26/57	<u>Plant Abandoned, Destroyed or Removed from Service</u> records a special temporary write off of 1947 pipe and the reversal of the temporary write off.	This document does not indicate the 1947 pipe was reconditioned or reused. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
8	8/1/57	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This one is to “clean and recondition” 1480’ of 12” pipe and scrap 239’.	This 12” pipe was used as temporary bypass then removed and reconditioned. It is typical to reuse temporary bypass pipe. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
9	4/14/58	<u>Combined Shipping Notice and Transfer</u> states 22’ of 24” pipe originally installed in 1947 was salvaged and reused.	This is from the same job file as Document 1 and appears to refer to the same 22’ of 24” pipe. <i>See</i> document 1 comments. PG&E is hydro testing this section of pipe this year. This is part of T-30, which was completed on November 10, 2011.	132
10	7/18/57	<u>Partial Receiving Record</u> showing 377’ of 24” wrapped pipe (9 pieces) were shipped from Decoto Pipe Yard.	There is no indication this was reconditioned pipe. PG&E is hydro testing this section of pipe this year. This is part of T-30, which was completed on November 10, 2011.	132
11	9/9/57	“ <u>Haul Tag</u> ” showing 33 pieces of 24” wrapped pipe were shipped from Palo Alto to Decoto pipe yard.	This document merely shows the movement of pipe. There is no indication the pipe was reconditioned or installed on this job. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
12	6/6/57	<u>G.M. Assignment Letter</u> assigning relocation 3300’ of 24” pipe to General Construction with the material to be drawn from the	This document indicates the pipe came from the local warehouse. There is no indication the pipe was reconditioned. As part of PG&E’s MAOP validation	132

No.	Date	Description	Comments	Line No.
		local warehouse.	project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	
13	10/21/58	<u>Requisition on Storekeeper</u> showing 500 lbs. of “junk, heavy wrought iron” consisting of 10’ of 22” half sole	This is not a segment of pipe; it is part of a pipe. The document states the material is junk. Listing the quantity in pounds is consistent with scrap, and there is no indication the material was reconditioned or reused.	132
14	1/4/60	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” The “Salvaged” check box indicates 15 ft of 30” pipe and 6 ft of 6-5/8” pipe were salvaged.	There is no indication the pipe was reconditioned or reused, and the document states “kill & abandon 6” & 30” main,” indicating the pipe was intended to be scrapped. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
15	10/29/59	<u>Combined Shipping Notice and Transfer</u> showing transfer 4.5 ft of 30” pipe from a 1948 job.	The 30” pipe is no longer in service. Job 145277, to which this 4.5 ft. of 30” pipe was transferred, is the Serpa Junction Compressor Station. The 3/12/2009 Piping Plan for Serpa Junction (Document 30665197_DRW-Pipe_4800839) shows that the largest pipe there today is 16”.	132
16	6/24/59	<u>Partial Receiving Record</u> showing receipt of 24” Grade B Seamless .3125 wt pipe from Decoto Pipe Yard.	There is no indication this was not new pipe. The pipe material codes are for new pipe. The material code for all the pipe listed on this document is 01-1278. According to PG&E’s material code document (4/18/2011 filing, Ch. 3, Document P1-2), material code 01-1278 refers to new double-wrapped 24” pipe.	132
17	11/16/59	<u>Combined Shipping Notice and Transfer</u> transferring 24” and 22” pipe and welding sleeves from one job to another.	There is no indication the pipe was not new. The pipe material codes are for new pipe. The material code for the 24” pipe on this document is 01-1278, and that for the 22” pipe is 01-1021. According to PG&E’s material code document (4/18/2011 filing, Ch. 3, Document P1-2), material code 01-1278 refers to new double-wrapped 24” pipe, and 01-1021 refers to new bare 22”	132

No.	Date	Description	Comments	Line No.
			pipe.	
18	3/3/59	“ <u>Job Facesheet</u> ” showing 12’ of 30” pipe and 5’ of 6” pipe were to be “removed and junked.”	Junked pipe, as referred to in this document, is not reused but sold for scrap or otherwise disposed of.	132
19	11/5/58	<u>Shipping Notice</u> showing shipment of 40’ of 24” pipe originally installed in 1944 to the Decoto Pipe Yard.	There is no indication of whether this salvaged pipe may have been reused. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
20	1957 or 1958	“ <u>Job Story</u> ” describing the replacement and relocation of 24” pipe. The existing 24” pipe was to be salvaged “in view of its comparative newness, accessibility and the absence of paving.”	There is no indication how the salvaged pipe may have been reused. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
21	This is the same as Document 73			
22	This is the same as Document 73			
23	5/7/57	“ <u>Job Facesheet</u> ” for installation of 3300’ of 24” pipe and removal and salvage of 3260’ of 24” pipe installed in 1947.	There is no indication that the salvaged pipe was reconditioned and reused. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
24	9/2/64	“ <u>Job Facesheet</u> ” for relocation involving installation of 1376’ of 30” pipe, 1400’ of temporary 22” main, removal 1471’ of 22” installed in 1936, abandonment of 50’ of the 1936 22” pipe, removal of 717’ of the temporary 22” pipe, and abandonment of 894’ of the temporary 22” pipe.	There is no indication that the pipe installed was salvaged and reconditioned. Nor is there any indication that the salvaged 1936 pipe or temporary main was reconditioned and reused. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	109
25	6/4/64	“ <u>Job Facesheet</u> ” showing a credit to this job for salvage of 21038’ of 22” pipe and 18768’ of 30” pipe.	200’ of 22” pipe was reused on this job and was hydro tested. Document MAOP16002731, a Strength Test Pressure Report, shows the pressure testing of 199’ of 22” pipe on 11/23/1964. PG&E believes the one	109 132

No.	Date	Description	Comments	Line No.
			foot difference is attributable to measurement or fittings on the pipe. Approximately 85% of the 30" pipe installed on this job has been hydro tested with hydro tests scheduled this year for the remainder. Document 26 shows that 24,820' of 30" pipe was installed on this job. Documents Binder2_Page_180 – Page_182 and Binder4_Page_020 show that 20,586' of 30" pipe were hydro tested on 4/14/1967 and 10/9/1964. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	
26	6/4/64	<u>G.M and Work Order Estimate Detail Sheet</u> for the same job as Document 25. It shows the installation of 22", 30" and 36" pipe, and the removal and reconditioning of 23375' of 22" pipe installed in 1935 and 20853' 30" pipe installed in 1948.	200' of 22" pipe was reused on this job and was hydro tested. Approximately 85% of the 30" pipe installed on this job has been hydro tested with hydro tests scheduled this year for the remainder. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked. <i>See</i> comments for Document 25.	109 132
27	10/27/54	<u>Shipping Notice</u> showing shipment of 16 joints of 22" pipe (617.48') originally installed in 1930 to A.R. Reid Co. for "double wrapping pipe after reconditioning in field."	There is no indication when or if this reconditioned pipe may have been reused. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	131
28A ¹	10/29/54	<u>Shipping Notice</u> showing shipment of 16 joints of 22" pipe (404.79") originally installed in 1930 and reconditioned in the field to the Decoto Pipe Yard for "storage and wrapping at a later date."	There is no indication when or if this reconditioned pipe may have been wrapped and reused. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	131

¹ The "A" is appended to three numbers because the documents provided by Legal Division were different from the documents on Legal Division's list. Where the document provided was different, the document is listed here with an "A" appended.

No.	Date	Description	Comments	Line No.
29	12/17/54	<u>Shipping Notice</u> showing that fittings, hardware, and 9-10' of 16" seamless pipe connected to orifice tubes originally installed on another job were shipped to PG&E Sub-store #64.	These fittings, nuts/bolts, pipe and miscellaneous hardware had an ultimate destination of Kettleman Compressor Station, Avenal.	131
30	Unk.	<u>Shipping Notice</u> : This is Sheet 2 of a shipping notice showing shipment of salvaged or overdrawn pipe from multiple jobs	This document reflects shipment <u>away</u> from a job. PG&E has not located Sheet 1, and this page does not state the destination. There is no indication that the pipe was ever reconditioned and reinstalled. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	153
31	3/10/55	<u>Shipping Notice</u> showing shipment to storage at Milpitas Control Station Yard of 21' of 24" pipe that was "salvaged and junked."	The document states the pipe was junked (<i>i.e.</i> , disposed of as scrap).	131
32	3/9/55	<u>Shipping Notice</u> showing shipment to storage at Irvington Control Station Yard of 90' of 20" pipe that was "salvaged and junked."	The document states the pipe was junked (<i>i.e.</i> , disposed of as scrap).	131
33	3/10/55	<u>Shipping Notice</u> showing shipment to storage at Milpitas Control Station Yard of 9.5' of 20" pipe that was "overdrawn and junked."	The document states the pipe was junked (<i>i.e.</i> , disposed of as scrap).	131
34A	This is the same as Document 41			
35	No Date	<u>Shipping Notice</u> showing shipment to storage at Milpitas Control Station Yard of 4' of 30" pipe described as "small pieces Junk."	The document states the pipe was junked (<i>i.e.</i> , disposed of as scrap).	131
36	3/10/55	<u>Shipping Notice</u> showing shipment to storage at Milpitas Control Station Yard of 162' of 30" pipe that was "salvaged and junked."	The document states the pipe was junked (<i>i.e.</i> , disposed of as scrap).	131

No.	Date	Description	Comments	Line No.
37	1/27/54	<u>Combined Shipping Notice and Construction Journal Voucher</u> showing that a total of 161' of 30" D.W. pipe and two 30" elbows (90'S) originally installed 12/5/1951 were salvaged and reused.	The salvaged and reused material had been originally installed 25 months before. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	131
38	10/54	<u>Combined Shipping Notice and Construction Journal Voucher</u> showing 4,463.24' of 22" pipe originally installed in 1930 was salvaged and reused.	This section of pipe was hydro tested in 1977. Document MAOP04131460 shows that 4,315' of 22" pipe was hydro tested on 10/17/1977. Document 383827s2 shows that the job only installed 4,336' of reused 22" pipe. Documents MAOP05439011 and MAOP05439010 show that 126' of reconditioned pipe was credited to this job, indicating it was returned to the warehouse and not installed. Document 386814s1 states that a later job abandoned 17' of 22" pipe from the earlier job. Together, these documents show that the 4,315' of pipe hydro tested in 1977 was the total length of reused 22" pipe remaining in this section. The small difference in footage is attributable to measurement differences over the years.	107
39	9/23/54	<u>Combined Shipping Notice and Construction Journal Voucher</u> showing shipment of 40.83' of 30" pipe.	There is no indication that this pipe was salvaged or reconditioned and reused. The line on the form, "Indicate Whether Overdrawn or Salvage," has the word "Salvage" crossed out, indicating that it is not salvaged pipe.	153
40	4/54 ²	<u>Plant Abandoned, Destroyed or Removed from Service</u> records that 212' of 30" pipe was "held for salvage" and later abandoned.	There is no indication this pipe was reconditioned or reused. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
41	11/57	<u>Plant Abandoned, Destroyed or Removed from Service</u> records that 1930' of 30" pipe was	There is no indication this pipe was reconditioned or reused. As part of PG&E's MAOP validation project,	132

² This document has multiple handwritten notes with different dates. This is the earliest date, thus, presumably, the date the document was first created.

No.	Date	Description	Comments	Line No.
		removed from service, 415' of which was abandoned.	reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	
42	10/11/56	<u>Combined Shipping Notice and Transfer</u> showing that 61' 8" of 30" pipe originally installed in 1949 was salvaged, shipped for wrapping, and then installed.	This reconditioned pipe was used on the job discussed in connection with Document 53.	132
43	10/11/56	<u>Combined Shipping Notice and Transfer</u> showing that 487' 9" of 30" pipe originally installed in 1949 was salvaged, shipped for wrapping, and then installed.	This reconditioned pipe was used on the job discussed in connection with Document 53.	132
44	This is the same as Document 61			
45	This is the same as Document 57			
46	This is the same as Document 57			
47	This is the same as Document 74			
48	6/6/55	<u>Combined Shipping Notice and Transfer</u> showing 10' of 24" pipe originally installed in 1944 salvaged and transferred to this job	This section of pipe was hydro tested in 1977. Document MAOP04131460 is the Strength Test Pressure Report for the test of the 24" pipe.	107
49	2/9/55	<u>Shipping Notice</u> showing shipment to Emeryville warehouse of six fittings originally installed in 1951.	These are fittings, not pipe. Fittings were commonly moved between jobs and reused during this era. These fittings were in use less than four years before being salvaged. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	131
50	This is the same as Document 38			
51	10/54	<u>Combined Shipping Notice and Construction Journal Voucher</u> showing salvage and reuse of bolts, flanges, valves, and 70' of 2 3/8" pipe originally installed in 1946 at Irvington Gas Terminal.	PG&E's records do not reflect any 2" pipe still installed on this job. Document MAOP05438970, a Plant Abandoned, Destroyed or Removed from Service form, dated 5/1957, shows the removal of 70' of 2" pipe on this job.	131

No.	Date	Description	Comments	Line No.
52A	12/54	<u>Plant Abandoned, Destroyed or Removed from Service</u> records 41' of 30" pipe junked and 319' of 30" pipe abandoned.	The document states the pipe was junked (<i>i.e.</i> , disposed of as scrap) or abandoned, not salvaged and reused.	132
53	6/21/56	"Job Facesheet" for the relocation by replacement of a section of pipeline in the Crestmoor subdivision. The job called for installing 1900' of 30" pipe, abandoning 450' of 30" pipe, and removing and salvaging 1400' of 30" pipe installed in 1949.	<p>The salvaged pipe reused from this job has been hydro tested.</p> <p>Document 53 reflects the plan to salvage 1450' of 30" pipe from the original Line 132 installation in 1949 during the 1956 relocation of Segment 180. Documents MAOP05395367 and MAOP09002358 reflect the reconditioning and rewrapping of 550' feet of 30" pipe by Bituminous Products & Application Co. on 10/4/1956. Documents MAOP05395308 and MAOP05395309 show the shipment of 61'8" and 487'9" of 30" pipe salvaged on the Segment 180 job from Bituminous Products to the job site near Morgan Hill. These two jobs were designed to have one piece of pipe cross-tie Line 300A with Line 100 and the other piece to cross-tie Line 300B with Line 100.</p> <p>Document MAOP05306937, the job "Facesheet" for the job to which the pipe was transported reflects that it was to install cross-ties between Line 300 north of Kettleman Station and Line 100 to provide a bypass to allow gas to continue to flow in the event of a break in a single line section of Line 300.</p> <p>Document MAOP03085253 is the job "Facesheet" for the 1970 job to complete the conversion of Line 100 to distribution feeder. This was the document from which PG&E originally concluded the 30" pipe in the cross-tie had been removed from service. The 30" pipe is now a cross tie between Line 300B and 300A. Documents MAOP04165203, MAOP11028698, MAOP11028697, and MAOP11028387</p>	132

No.	Date	Description	Comments	Line No.
			show the 4/30/1980 hydro testing of this 30" cross-tie.	
54	This is the same as Document 53 with handwritten mark-up			
55	none	<u>GM Cost Report</u> : This handwritten accounting document contains a line item: "repairs to salv matl."	The document does not identify the salvaged material on which the repairs were made. Document 53, which is for the same job, states that old pipe was being salvaged from this job, suggesting that the repairs were to the material removed as part of the pipe relocation. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
56	3/19/57	<u>Combined Shipping Notice and Transfer</u> showing shipment of 90' of 30" pipe originally installed in 1949.	This appears to be shipment of some of the removed pipe referred to in Document 53 from the job. The material code appears to be that for salvaged pipe. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
57	6/12/56	<u>General Construction Department Material Procurement Order</u> showing 1186' of wrapped 30" pipe and 23' of bare 30" pipe to be delivered to Skyline Blvd.	There is no indication the pipe was not new, and the material codes are for new pipe. Material codes 01-1373 and 01-1485 refer to new 30" double-wrapped pipe and new 30" bare pipe, respectively. See PG&E's material code document (4/18/2011 filing, Ch. 3, Document P1-2).	132
58	9/7/56	<u>Credit Requisition</u> form to list articles that "have been returned to the warehouse or abandoned in place." This shows return to the warehouse of 45' of 30" pipe originally installed in 1929 [should be 1949], and salvaged from Crestmoor Park, San Bruno.	The document reflects the removal of the pipe from the job. There is no indication what was subsequently done with the pipe. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132

No.	Date	Description	Comments	Line No.
59	9/24/56	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This shows return to the warehouse of 13’ of 30” pipe originally installed in 1949, and salvaged from Crestmoor Park, San Bruno.	The document reflects the removal of the pipe from the job. The inclusion of the weight of the returned pipe suggests it was scrapped. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
60	10/3/56	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This shows return to the warehouse of 64’ of 30” pipe originally installed in 1949, and salvaged from Crestmoor, San Bruno.	The document reflects the removal of the pipe from the job. There is no indication what was subsequently done with the pipe. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
61	10/17/56	<u>Combined Shipping Notice and Transfer</u> showing shipment to this job of 158’ of 30” pipe salvaged from a 1949 job.	This salvaged pipe was used for casing, not for gas pressure service. Document 61 reflects the salvage from the relocation of Segment 180 on Line 132 of 158’ of 30” pipe originally installed in 1949 to Job 136774. That job involved the rerouting of 20” transmission main on Line 101, as well as relocating some distribution mains. The “Job Story” for that project, Document MAOP05377973, describes the project. After describing the installation of the new 20” main, the document states, “The new transmission main is to be encased with a 30” pipe where it crosses the Bayshore Freeway.” The job “Facesheet,” Document MAOP05377974, similarly reflects the installation of 155’ of 30” casing. And, the project drawing, Document MAOP05377985, shows the installation of 155’ of 30” casing along the vertical line at the top of the drawing to the right of the middle.	132
62	9/5/56	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This shows return to the warehouse of 272’ of salvaged 30” pipe originally installed in	There is no indication of what was done with the pipe after it was returned the warehouse. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued	132

No.	Date	Description	Comments	Line No.
		1949 to be cleaned and reconditioned.	and tracked.	
63	3/25/57	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This shows abandonment of 415’ of 30” pipe in Crestmoor subdivision originally installed in 1949.	This documents the abandonment of pipe in place, so it was not salvaged or reused.	132
64	7/16/56	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This shows salvage of “W.I. Scrap” from 9’ of 30” bare pipe originally installed in 1949.	The identification of the material as “W.I. Scrap” and the inclusion of its weight (1080 lbs.) indicate the pipe was scrapped.	132
65	This is the same as Document 67			
66	This is the same as Document 41			
67	7/23/56	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This shows return to the warehouse of 315’ of salvaged 30” pipe originally installed in 1949.	There is no indication of what was done with the pipe after it was returned the warehouse. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
68	This is the same as Document 64			
69	10/4/56	<u>Requisition</u> for reconditioning 550’ of 30” pipe.	This appears to be the same pipe referred to in Document 43. It was removed from service in 1970. <i>See</i> comments for Document 53.	132
70	This is the same as Document 53			
71	3/4/49	<u>Shipping Notice</u> showing shipment for salvage and reuse of a 24” weld cap originally installed in 1947.	This is a fitting, not pipe. Fittings were commonly moved between jobs and reused during this era. This fitting was in use about two years before being salvaged. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
72	12/27/48	<u>Shipping Notice</u> showing 145’ of bare 30” pipe and 62’ of wrapped 30” pipe returned from the job as	The designation of this material as “surplus” indicates that it was never used and, therefore, not salvaged. As part of PG&E’s MAOP validation	132

No.	Date	Description	Comments	Line No.
		“SURPLUS MATERIAL.”	project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	
73	1/27/54	<u>Combined Shipping Notice and Construction Journal Voucher</u> 161’ of 30” pipe and 2 elbows originally installed 12/5/51 were salvaged and reused.	This pipe had only been in use for 25 months before being salvaged and reused. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	131
74	10/15/54	<u>Combined Shipping Notice and Construction Journal Voucher</u> showing shipment of 50’ of 30” pipe, 8’ of 16” seamless pipe and 2 caps from one job to another.	There is no indication that this was salvaged material, and the material codes are those for new pipe. Material codes 01-1373 and 01-1034 refer to new 30” double-wrapped pipe and new 16” pipe, respectively. <i>See</i> PG&E’s material code document (4/18/2011 filing, Ch. 3, Document P1-2).	131
75	This is the same as Document 38			
76	9/30/48	<u>Radiograph Log</u>	All marked “O.K.” except the one with the notation “crack,” indicating that one was not accepted without repair.	132
77	9/29/48	<u>Radiograph Log</u>	All marked “O.K.” except the one with the notation “Ind[ication] of crack,” indicating that one was not accepted without repair.	132
78	9/58/48	<u>Radiograph Log</u>	All marked “O.K.” except the one with the notation “crack,” indicating that one was not accepted without repair.	132
79	9/14/48 9/17/48 9/18/48	<u>Radiograph Log</u>	Four welds marked “Reject.” Two with notations of crack in longitudinal weld were repaired, re-radiographed and found acceptable. One entire 30’ longitudinal seam was X-rayed and found “O.K.”	132
80	9/22/48 9/23/48	<u>Radiograph Log</u> indicates 2 long seam cracks which were accepted	All marked “O.K.” Two had notation of crack in longitudinal weld, one of which was X-rayed a second time. The acceptance of these welds indicates that the crack observed was not significant.	132

No.	Date	Description	Comments	Line No.
81		<u>Radiograph Log</u>	All marked "O.K." Some flaws were noted in the "Remarks," but "O.K." indicates they were within the acceptable range.	132
82	10/8/48	<u>Radiograph Log</u>	Three welds marked "Reject," including one with a crack in the longitudinal seam. Some flaws were noted in the "Remarks" for "O.K." welds, but "O.K." indicates they were within the acceptable range.	132
83	10/7/48	<u>Radiograph Log</u> flaws indicated, some rejected including long seam crack. No record of mitigation action taken.	Two welds marked "Reject." Some flaws were noted in the "Remarks" for "O.K." welds, including one crack in longitudinal weld, but "O.K." indicates they were within the acceptable range.	132

ATTACHMENT B

No.	Date	Description	Comments	Line No.
1	1/1/57	<u>Construction Drawing:</u> As-built drawing showing 2598' of 24" pipe salvaged from a relocation job and 22' salvaged and reused.	The pipe installed next to this job is 1947 pipe. Based on other documents, it appears the 22' of pipe was not considered new pipe and is still labeled as 1947 pipe. <u>This conclusion is based on Document 9 and the fact that Document 1 itself does not refer to the 22' as "installed," as it does the other pipe installed on this job, but "salvaged and reused."</u> PG&E is hydro testing this section of pipe this year. <u>This section is part of test T-30, which was completed on November 10, 2011.</u>	132
2	2/15/68	<u>"Job Facesheet"</u> calls for installation and removal of temporary 30" main, including salvage of temporary main, and pipe removed or abandoned.	Where a temporary main is installed, the temporary portion will almost always be salvaged or removed because it is in the way of other construction work. There is no indication that this pipe was reconditioned and reused. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
3	10/1/94	<u>Posting check list</u>	This is a check off list for the mapping department when processing job documents.	109
4	5/7/57	<u>"Job Facesheet"</u> for the relocation of a main and calling for the salvage of the original 1947 pipe.	Typically on a relocation job where the old main is in the way of other construction, PG&E is paid to move the pipe out of the way of the other work. Here, the pipe was salvaged or removed from the ground. There is no indication it was reconditioned or reused. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
5	8/29/58	<u>"Job Facesheet"</u> calls for relocation of line and "Remove salvage."	Removal of old pipe is typical for a relocation job. There is no indication the pipe was reconditioned or reused. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132

No.	Date	Description	Comments	Line No.
6	3/18/60	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This form is for the reconditioning of 2485’ ft of pipe and abandonment of “wrot [sic] iron” scrap.	There is no indication the reconditioned pipe was installed on this job. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
7	12/26/57	<u>Plant Abandoned, Destroyed or Removed from Service</u> records a special temporary write off of 1947 pipe and the reversal of the temporary write off.	This document does not indicate the 1947 pipe was reconditioned or reused. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
8	8/1/57	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This one is to “clean and recondition” 1480’ of 12” pipe and scrap 239’.	This 12” pipe was used as temporary bypass then removed and reconditioned. It is typical to reuse temporary bypass pipe. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
9	4/14/58	<u>Combined Shipping Notice and Transfer</u> states 22’ of 24” pipe originally installed in 1947 was salvaged and reused.	This is from the same job file as Document 1 and appears to refer to the same 22’ of 24” pipe. <i>See</i> document 1 comments. PG&E is hydro testing this section of pipe this year. <u>This is part of T-30, which was completed on November 10, 2011.</u>	132
10	7/18/57	<u>Partial Receiving Record</u> showing 377’ of 24” wrapped pipe (9 pieces) were shipped from Decoto Pipe Yard.	There is no indication this was reconditioned pipe. PG&E is hydro testing this section of pipe this year. <u>This is part of T-30, which was completed on November 10, 2011.</u>	132
11	9/9/57	“ <u>Haul Tag</u> ” showing 33 pieces of 24” wrapped pipe were shipped from Palo Alto to Decoto pipe yard.	This document merely shows the movement of pipe. There is no indication the pipe was reconditioned or installed on this job. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
12	6/6/57	<u>G.M. Assignment Letter</u> assigning relocation 3300’ of 24” pipe to General Construction with the material to be drawn from the	This document indicates the pipe came from the local warehouse. There is no indication the pipe was reconditioned. As part of PG&E’s MAOP validation	132

No.	Date	Description	Comments	Line No.
		local warehouse.	project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	
13	10/21/58	<u>Requisition on Storekeeper</u> showing 500 lbs. of “junk, heavy wrought iron” consisting of 10’ of 22” half sole	This is not a segment of pipe; it is part of a pipe. The document states the material is junk. Listing the quantity in pounds is consistent with scrap, and there is no indication the material was reconditioned or reused.	132
14	1/4/60	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” The “Salvaged” check box indicates 15 ft of 30” pipe and 6 ft of 6-5/8” pipe were salvaged.	There is no indication the pipe was reconditioned or reused, and the document states “kill & abandon 6” & 30” main,” indicating the pipe was intended to be scrapped. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
15	10/29/59	<u>Combined Shipping Notice and Transfer</u> showing transfer 4.5 ft of 30” pipe from a 1948 job.	The 30” pipe is no longer in service. <u>Job 145277, to which this 4.5 ft. of 30” pipe was transferred, is the Serpa Junction Compressor Station. The 3/12/2009 Piping Plan for Serpa Junction (Document 30665197 DRW-Pipe 4800839) shows that the largest pipe there today is 16”.</u>	132
16	6/24/59	<u>Partial Receiving Record</u> showing receipt of 24” Grade B Seamless .3125 wt pipe from Decoto Pipe Yard.	There is no indication this was not new pipe. The pipe material codes are for new pipe. <u>The material code for all the pipe listed on this document is 01-1278. According to PG&E’s material code document (4/18/2011 filing, Ch. 3, Document PI-2), material code 01-1278 refers to new double-wrapped 24” pipe.</u>	132
17	11/16/59	<u>Combined Shipping Notice and Transfer</u> transferring 24” and 22” pipe and welding sleeves from one job to another.	There is no indication the pipe was not new. The pipe material codes are for new pipe. <u>The material code for the 24” pipe on this document is 01-1278, and that for the 22” pipe is 01-1021. According to PG&E’s material code document (4/18/2011 filing, Ch. 3, Document PI-2), material code 01-1278 refers to new double-wrapped 24” pipe, and 01-1021 refers to new bare 22” pipe.</u>	132

No.	Date	Description	Comments	Line No.
18	3/3/59	“Job Facesheet” showing 12’ of 30” pipe and 5’ of 6” pipe were to be “removed and junked.”	Junked pipe, as referred to in this document, is not reused but sold for scrap or otherwise disposed of.	132
19	11/5/58	<u>Shipping Notice</u> showing shipment of 40’ of 24” pipe originally installed in 1944 to the Decoto Pipe Yard.	There is no indication of whether this salvaged pipe may have been reused. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
20	1957 or 1958	“ <u>Job Story</u> ” describing the replacement and relocation of 24” pipe. The existing 24” pipe was to be salvaged “in view of its comparative newness, accessibility and the absence of paving.”	There is no indication how the salvaged pipe may have been reused. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
21	This is the same as Document 73			
22	This is the same as Document 73			
23	5/7/57	“ <u>Job Facesheet</u> ” for installation of 3300’ of 24” pipe and removal and salvage of 3260’ of 24” pipe installed in 1947.	There is no indication that the salvaged pipe was reconditioned and reused. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
24	9/2/64	“ <u>Job Facesheet</u> ” for relocation involving installation of 1376’ of 30” pipe, 1400’ of temporary 22” main, removal 1471’ of 22” installed in 1936, abandonment of 50’ of the 1936 22” pipe, removal of 717’ of the temporary 22” pipe, and abandonment of 894’ of the temporary 22” pipe.	There is no indication that the pipe installed was salvaged and reconditioned. Nor is there any indication that the salvaged 1936 pipe or temporary main was reconditioned and reused. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	109
25	6/4/64	“ <u>Job Facesheet</u> ” showing a credit to this job for salvage of 21038’ of 22” pipe and 18768’ of 30” pipe.	205200 ’ of 22” pipe was reused on this job and was hydro tested. <u>Document MAOP16002731, a Strength Test Pressure Report, shows the pressure testing of 199’ of 22” pipe on 11/23/1964. PG&E believes the one foot difference is attributable to measurement or fittings on the pipe.</u> Approximately 85% of the 30” pipe installed on this job has been hydro	109 132

No.	Date	Description	Comments	Line No.
			tested with hydro tests scheduled this year for the remainder. <u>Document 26 shows that 24,820' of 30" pipe was installed on this job. Documents Binder2 Page 180 – Page 182 and Binder4 Page 020 show that 20,586' of 30" pipe were hydro tested on 4/14/1967 and 10/9/1964. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.</u>	
26	6/4/64	<u>G.M and Work Order Estimate Detail Sheet</u> for the same job as Document 25. It shows the installation of 22", 30" and 36" pipe, and the removal and reconditioning of 23375' of 22" pipe installed in 1935 and 20853' 30" pipe installed in 1948.	205200' of 22" pipe was reused on this job and was hydro tested. Approximately 85% of the 30" pipe installed on this job has been hydro tested with hydro tests scheduled this year for the remainder. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked. <u>See comments for Document 25.</u>	109 132
27	10/27/54	<u>Shipping Notice</u> showing shipment of 16 joints of 22" pipe (617.48') originally installed in 1930 to A.R. Reid Co. for "double wrapping pipe after reconditioning in field."	There is no indication when or if this reconditioned pipe may have been reused. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	131
28A ¹	10/29/54	<u>Shipping Notice</u> showing shipment of 16 joints of 22" pipe (404.79") originally installed in 1930 and reconditioned in the field to the Decoto Pipe Yard for "storage and wrapping at a later date."	There is no indication when or if this reconditioned pipe may have been wrapped and reused. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	131

¹ The "A" is appended to three numbers because the documents provided by Legal Division were different from the documents on Legal Division's list. Where the document provided was different, the document is listed here with an "A" appended.

No.	Date	Description	Comments	Line No.
29	12/17/54	<u>Shipping Notice</u> showing that fittings, hardware, and 9-10' of 16" seamless pipe connected to orifice tubes originally installed on another job were shipped to PG&E Sub-store #64.	These fittings, nuts/bolts, pipe and miscellaneous hardware had an ultimate destination of Kettleman Compressor Station, Avenal.	131
30	Unk.	<u>Shipping Notice</u> : This is Sheet 2 of a shipping notice showing shipment of salvaged or overdrawn pipe from multiple jobs	This document reflects shipment <u>away</u> from a job. PG&E has not located Sheet 1, and this page does not state the destination. There is no indication that the pipe was ever reconditioned and reinstalled. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	153
31	3/10/55	<u>Shipping Notice</u> showing shipment to storage at Milpitas Control Station Yard of 21' of 24" pipe that was "salvaged and junked."	The document states the pipe was junked (<i>i.e.</i> , disposed of as scrap).	131
32	3/9/55	<u>Shipping Notice</u> showing shipment to storage at Irvington Control Station Yard of 90' of 20" pipe that was "salvaged and junked."	The document states the pipe was junked (<i>i.e.</i> , disposed of as scrap).	131
33	3/10/55	<u>Shipping Notice</u> showing shipment to storage at Milpitas Control Station Yard of 9.5' of 20" pipe that was "overdrawn and junked."	The document states the pipe was junked (<i>i.e.</i> , disposed of as scrap).	131
34A	This is the same as Document 41			
35	No Date	<u>Shipping Notice</u> showing shipment to storage at Milpitas Control Station Yard of 4' of 30" pipe described as "small pieces Junk."	The document states the pipe was junked (<i>i.e.</i> , disposed of as scrap).	131
36	3/10/55	<u>Shipping Notice</u> showing shipment to storage at Milpitas Control Station Yard of 162' of 30" pipe that was "salvaged and junked."	The document states the pipe was junked (<i>i.e.</i> , disposed of as scrap).	131

No.	Date	Description	Comments	Line No.
37	1/27/54	<u>Combined Shipping Notice and Construction Journal Voucher</u> showing that a total of 161' of 30" D.W. pipe and two 30" elbows (90'S) originally installed 12/5/1951 were salvaged and reused.	The salvaged and reused material had been originally installed 25 months before. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	131
38	10/54	<u>Combined Shipping Notice and Construction Journal Voucher</u> showing 4,463.24' of 22" pipe originally installed in 1930 was salvaged and reused.	This section of pipe was hydro tested in 1977. <u>Document MAOP04131460 shows that 4,315' of 22" pipe was hydro tested on 10/17/1977.</u> <u>Document 383827s2 shows that the job only installed 4,336' of reused 22" pipe. Documents MAOP05439011 and MAOP05439010 show that 126' of reconditioned pipe was credited to this job, indicating it was returned to the warehouse and not installed. Document 386814s1 states that a later job abandoned 17' of 22" pipe from the earlier job. Together, these documents show that the 4,315' of pipe hydro tested in 1977 was the total length of reused 22" pipe remaining in this section. The small difference in footage is attributable to measurement differences over the years.</u>	107
39	9/23/54	<u>Combined Shipping Notice and Construction Journal Voucher</u> showing shipment of 40.83' of 30" pipe.	There is no indication that this pipe was salvaged or reconditioned and reused. The line on the form, "Indicate Whether Overdrawn or Salvage," has the word "Salvage" crossed out, indicating that it is not salvaged pipe.	153
40	4/54 ²	<u>Plant Abandoned, Destroyed or Removed from Service</u> records that 212' of 30" pipe was "held for salvage" and later abandoned.	There is no indication this pipe was reconditioned or reused. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
41	11/57	<u>Plant Abandoned, Destroyed or Removed from Service</u> records that 1930' of 30" pipe was	There is no indication this pipe was reconditioned or reused. As part of PG&E's MAOP validation project,	132

² This document has multiple handwritten notes with different dates. This is the earliest date, thus, presumably, the date the document was first created.

No.	Date	Description	Comments	Line No.
		removed from service, 415' of which was abandoned.	reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	
42	10/11/56	<u>Combined Shipping Notice and Transfer</u> showing that 61'8" of 30" pipe originally installed in 1949 was salvaged, shipped for wrapping, and then installed.	This reconditioned pipe was removed from service used on the job discussed in <u>1970 connection with Document 53.</u>	132
43	10/11/56	<u>Combined Shipping Notice and Transfer</u> showing that 487' 9" of 30" pipe originally installed in 1949 was salvaged, shipped for wrapping, and then installed.	This reconditioned pipe was removed from service used on the job discussed in <u>1970 connection with Document 53.</u>	132
44	This is the same as Document 61			
45	This is the same as Document 57			
46	This is the same as Document 57			
47	This is the same as Document 74			
48	6/6/55	<u>Combined Shipping Notice and Transfer</u> showing 10' of 24" pipe originally installed in 1944 salvaged and transferred to this job	This section of pipe was hydro tested in 1977. <u>Document MAOP04131460 is the Strength Test Pressure Report for the test of the 24" pipe.</u>	107
49	2/9/55	<u>Shipping Notice</u> showing shipment to Emeryville warehouse of six fittings originally installed in 1951.	These are fittings, not pipe. Fittings were commonly moved between jobs and reused during this era. These fittings were in use less than four years before being salvaged. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	131
50	This is the same as Document 38			
51	10/54	<u>Combined Shipping Notice and Construction Journal Voucher</u> showing salvage and reuse of bolts, flanges, valves, and 70' of 2 3/8" pipe originally installed in 1946 at Irvington Gas Terminal.	PG&E's records do not reflect any 2" pipe still installed on this job. <u>Document MAOP05438970, a Plant Abandoned, Destroyed or Removed from Service form, dated 5/1957, shows the removal of 70' of 2" pipe on this job.</u>	131
52A	12/54	<u>Plant Abandoned, Destroyed or Removed from Service</u> records 41' of 30" pipe junked and 319' of 30" pipe abandoned.	The document states the pipe was junked (<i>i.e.</i> , disposed of as scrap) or abandoned, not salvaged and reused.	132

No.	Date	Description	Comments	Line No.
53	6/21/56	<p>“Job Facesheet” for the relocation by replacement of a section of pipeline in the Crestmoor subdivision. The job called for installing 1900’ of 30” pipe, abandoning 450’ of 30” pipe, and removing and salvaging 1400’ of 30” pipe installed in 1949.</p>	<p>The salvaged pipe reused on this job has been removed from service. There is no indication what was to be done with the remainder of the salvaged pipe. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked. <u>from this job has been hydro tested.</u></p> <p><u>Document 53 reflects the plan to salvage 1450’ of 30” pipe from the original Line 132 installation in 1949 during the 1956 relocation of Segment 180. Documents MAOP05395367 and MAOP09002358 reflect the reconditioning and rewinding of 550’ feet of 30” pipe by Bituminous Products & Application Co. on 10/4/1956. Documents MAOP05395308 and MAOP05395309 show the shipment of 61’8” and 487’9” of 30” pipe salvaged on the Segment 180 job from Bituminous Products to the job site near Morgan Hill. These two jobs were designed to have one piece of pipe cross-tie Line 300A with Line 100 and the other piece to cross-tie Line 300B with Line 100.</u></p> <p><u>Document MAOP05306937, the job “Facesheet” for the job to which the pipe was transported reflects that it was to install cross-ties between Line 300 north of Kettleman Station and Line 100 to provide a bypass to allow gas to continue to flow in the event of a break in a single line section of Line 300.</u></p> <p><u>Document MAOP03085253 is the job “Facesheet” for the 1970 job to complete the conversion of Line 100 to distribution feeder. This was the document from which PG&E originally concluded the 30” pipe in the cross-tie had been removed from service. The 30” pipe is now a cross tie between Line 300B and 300A. Documents MAOP04165203, MAOP11028698,</u></p>	132

No.	Date	Description	Comments	Line No.
			<u>MAOP11028697, and MAOP11028387 show the 4/30/1980 hydro testing of this 30" cross-tie.</u>	
54	This is the same as Document 53 with handwritten mark-up			
55	none	<u>GM Cost Report</u> : This handwritten accounting document contains a line item: "repairs to salv matl."	The document does not identify the salvaged material on which the repairs were made. Document 53, which is for the same job, states that old pipe was being salvaged from this job, suggesting that the repairs were to the material removed as part of the pipe relocation. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
56	3/19/57	<u>Combined Shipping Notice and Transfer</u> showing shipment of 90' of 30" pipe originally installed in 1949.	This appears to be shipment of some of the removed pipe referred to in Document 53 from the job. The material code appears to be that for salvaged pipe. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
57	6/12/56	<u>General Construction Department Material Procurement Order</u> showing 1186' of wrapped 30" pipe and 23' of bare 30" pipe to be delivered to Skyline Blvd.	There is no indication the pipe was not new, and the material codes are for new pipe. <u>Material codes 01-1373 and 01-1485 refer to new 30" double-wrapped pipe and new 30" bare pipe, respectively. See PG&E's material code document (4/18/2011 filing, Ch. 3, Document P1-2).</u>	132
58	9/7/56	<u>Credit Requisition</u> form to list articles that "have been returned to the warehouse or abandoned in place." This shows return to the warehouse of 45' of 30" pipe originally installed in 1929 [should be 1949], and salvaged from Crestmoor Park, San Bruno.	The document reflects the removal of the pipe from the job. There is no indication what was subsequently done with the pipe. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132

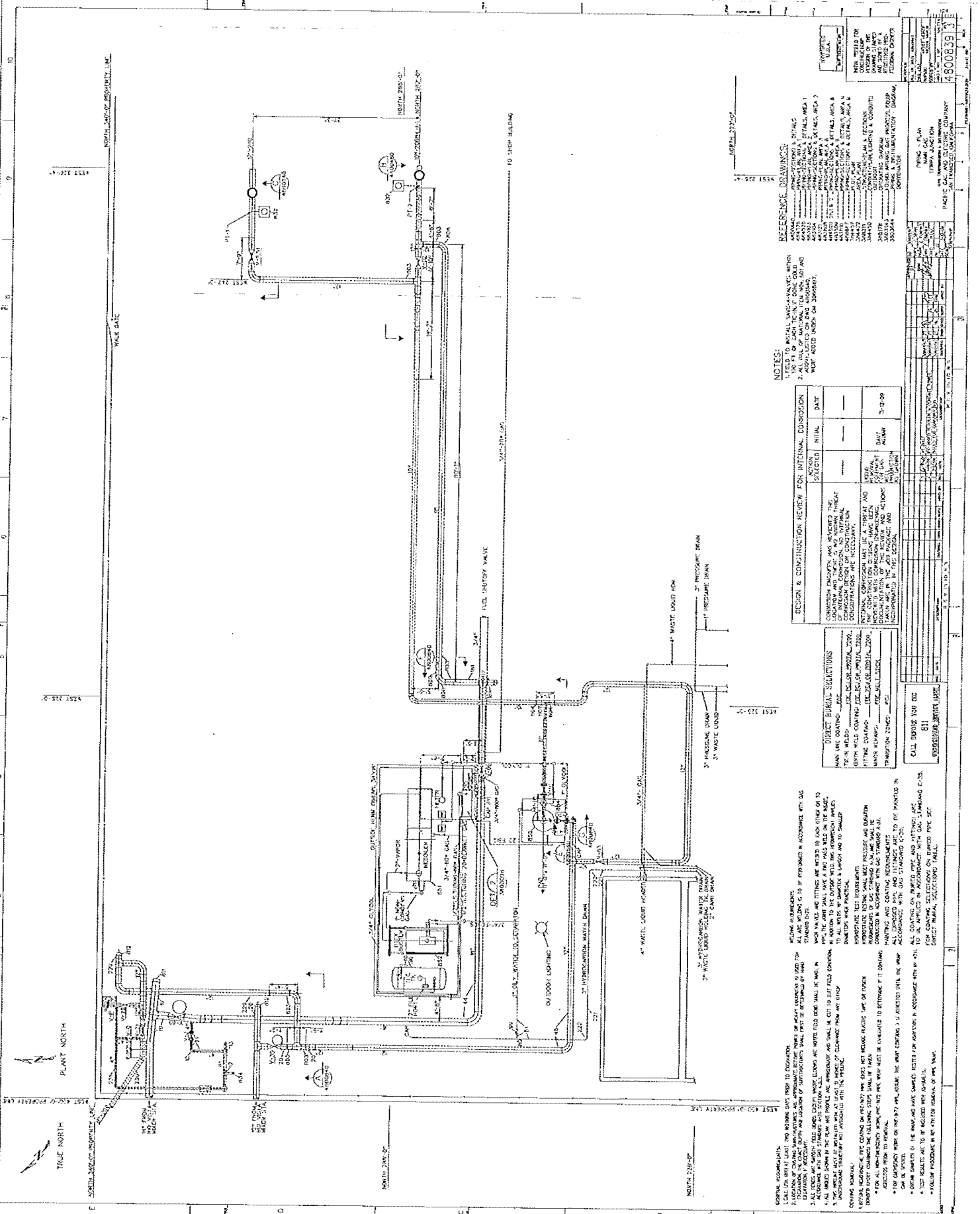
No.	Date	Description	Comments	Line No.
59	9/24/56	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This shows return to the warehouse of 13’ of 30” pipe originally installed in 1949, and salvaged from Crestmoor Park, San Bruno.	The document reflects the removal of the pipe from the job. The inclusion of the weight of the returned pipe suggests it was scrapped. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
60	10/3/56	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This shows return to the warehouse of 64’ of 30” pipe originally installed in 1949, and salvaged from Crestmoor, San Bruno.	The document reflects the removal of the pipe from the job. There is no indication what was subsequently done with the pipe. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
61	10/17/56	<u>Combined Shipping Notice and Transfer</u> showing shipment to this job of 158’ of 30” pipe salvaged from a 1949 job.	This salvaged pipe was used for casing, not for gas pressure service. <u>Document 61 reflects the salvage from the relocation of Segment 180 on Line 132 of 158’ of 30” pipe originally installed in 1949 to Job 136774. That job involved the rerouting of 20” transmission main on Line 101, as well as relocating some distribution mains. The “Job Story” for that project, Document MAOP05377973, describes the project. After describing the installation of the new 20” main, the document states, “The new transmission main is to be encased with a 30” pipe where it crosses the Bayshore Freeway.” The job “Facesheet,” Document MAOP05377974, similarly reflects the installation of 155’ of 30” casing. And, the project drawing, Document MAOP05377985, shows the installation of 155’ of 30” casing along the vertical line at the top of the drawing to the right of the middle.</u>	132
62	9/5/56	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This shows return to the warehouse of 272’ of salvaged 30” pipe originally installed in 1949 to	There is no indication of what was done with the pipe after it was returned the warehouse. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued	132

No.	Date	Description	Comments	Line No.
		be cleaned and reconditioned.	and tracked.	
63	3/25/57	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This shows abandonment of 415’ of 30” pipe in Crestmoor subdivision originally installed in 1949.	This documents the abandonment of pipe in place, so it was not salvaged or reused.	132
64	7/16/56	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This shows salvage of “W.I. Scrap” from 9’ of 30” bare pipe originally installed in 1949.	The identification of the material as “W.I. Scrap” and the inclusion of its weight (1080 lbs.) indicate the pipe was scrapped.	132
65	This is the same as Document 67			
66	This is the same as Document 41			
67	7/23/56	<u>Credit Requisition</u> form to list articles that “have been returned to the warehouse or abandoned in place.” This shows return to the warehouse of 315’ of salvaged 30” pipe originally installed in 1949.	There is no indication of what was done with the pipe after it was returned the warehouse. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
68	This is the same as Document 64			
69	10/4/56	<u>Requisition</u> for reconditioning 550’ of 30” pipe.	This appears to be the same pipe referred to in Document 43. It was removed from service in 1970. <u>See comments for Document 53.</u>	132
70	This is the same as Document 53			
71	3/4/49	<u>Shipping Notice</u> showing shipment for salvage and reuse of a 24” weld cap originally installed in 1947.	This is a fitting, not pipe. Fittings were commonly moved between jobs and reused during this era. This fitting was in use about two years before being salvaged. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	132
72	12/27/48	<u>Shipping Notice</u> showing 145’ of bare 30” pipe and 62’ of wrapped 30” pipe returned from the job as “SURPLUS MATERIAL.”	The designation of this material as “surplus” indicates that it was never used and, therefore, not salvaged. As part of PG&E’s MAOP validation project, reconditioned pipe currently installed in	132

No.	Date	Description	Comments	Line No.
			the gas transmission system is being catalogued and tracked.	
73	1/27/54	<u>Combined Shipping Notice and Construction Journal Voucher</u> 161' of 30" pipe and 2 elbows originally installed 12/5/51 were salvaged and reused.	This pipe had only been in use for 25 months before being salvaged and reused. As part of PG&E's MAOP validation project, reconditioned pipe currently installed in the gas transmission system is being catalogued and tracked.	131
74	10/15/54	<u>Combined Shipping Notice and Construction Journal Voucher</u> showing shipment of 50' of 30" pipe, 8' of 16" seamless pipe and 2 caps from one job to another.	There is no indication that this was salvaged material, and the material codes are those for new pipe. <u>Material codes 01-1373 and 01-1034 refer to new 30" double-wrapped pipe and new 16" pipe, respectively. See PG&E's material code document (4/18/2011 filing, Ch. 3, Document PI-2).</u>	131
75	This is the same as Document 38			
76	9/30/48	<u>Radiograph Log</u>	All marked "O.K." except the one with the notation "crack," indicating that one was not accepted without repair.	132
77	9/29/48	<u>Radiograph Log</u>	All marked "O.K." except the one with the notation "Ind[ication] of crack," indicating that one was not accepted without repair.	132
78	9/58/48	<u>Radiograph Log</u>	All marked "O.K." except the one with the notation "crack," indicating that one was not accepted without repair.	132
79	9/14/48 9/17/48 9/18/48	<u>Radiograph Log</u>	Four welds marked "Reject." Two with notations of crack in longitudinal weld were repaired, re-radiographed and found acceptable. One entire 30' longitudinal seam was X-rayed and found "O.K."	132
80	9/22/48 9/23/48	<u>Radiograph Log</u> indicates 2 long seam cracks which were accepted	All marked "O.K." Two had notation of crack in longitudinal weld, one of which was X-rayed a second time. The acceptance of these welds indicates that the crack observed was not significant.	132

No.	Date	Description	Comments	Line No.
81		<u>Radiograph Log</u>	All marked "O.K." Some flaws were noted in the "Remarks," but "O.K." indicates they were within the acceptable range.	132
82	10/8/48	<u>Radiograph Log</u>	Three welds marked "Reject," including one with a crack in the longitudinal seam. Some flaws were noted in the "Remarks" for "O.K." welds, but "O.K." indicates they were within the acceptable range.	132
83	10/7/48	<u>Radiograph Log</u> flaws indicated, some rejected including long seam crack. No record of mitigation action taken.	Two welds marked "Reject." Some flaws were noted in the "Remarks" for "O.K." welds, including one crack in longitudinal weld, but "O.K." indicates they were within the acceptable range.	132

ATTACHMENT C



REFERENCE DRAWINGS:

- 1. FED TO METAL UNIFORMITY WITHIN 48141
- 2. ALL PIPING MATERIALS TO BE PERMITTED BY THE NATIONAL PIPE MANUFACTURING ASSOCIATION (NPMMA)
- 3. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS)
- 4. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS)
- 5. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS)
- 6. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS)
- 7. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS)
- 8. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS)
- 9. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS)
- 10. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS)

MIN. WELDING QUALIFICATION:

- WELDING PROCESS: SMAW, TIG, MIG, MMA
- POSITIONS: 1G, 2G, 3G, 4G, 5G, 6G
- MATERIALS: A53, A106, A315, A334, A336, A354, A358, A367, A387, A401, A403, A405, A407, A409, A410, A412, A414, A416, A418, A420, A422, A424, A426, A428, A430, A432, A434, A436, A438, A440, A442, A444, A446, A448, A450, A452, A454, A456, A458, A460, A462, A464, A466, A468, A470, A472, A474, A476, A478, A480, A482, A484, A486, A488, A490, A492, A494, A496, A498, A500, A502, A504, A506, A508, A510, A512, A514, A516, A518, A520, A522, A524, A526, A528, A530, A532, A534, A536, A538, A540, A542, A544, A546, A548, A550, A552, A554, A556, A558, A560, A562, A564, A566, A568, A570, A572, A574, A576, A578, A580, A582, A584, A586, A588, A590, A592, A594, A596, A598, A600, A602, A604, A606, A608, A610, A612, A614, A616, A618, A620, A622, A624, A626, A628, A630, A632, A634, A636, A638, A640, A642, A644, A646, A648, A650, A652, A654, A656, A658, A660, A662, A664, A666, A668, A670, A672, A674, A676, A678, A680, A682, A684, A686, A688, A690, A692, A694, A696, A698, A700, A702, A704, A706, A708, A710, A712, A714, A716, A718, A720, A722, A724, A726, A728, A730, A732, A734, A736, A738, A740, A742, A744, A746, A748, A750, A752, A754, A756, A758, A760, A762, A764, A766, A768, A770, A772, A774, A776, A778, A780, A782, A784, A786, A788, A790, A792, A794, A796, A798, A800, A802, A804, A806, A808, A810, A812, A814, A816, A818, A820, A822, A824, A826, A828, A830, A832, A834, A836, A838, A840, A842, A844, A846, A848, A850, A852, A854, A856, A858, A860, A862, A864, A866, A868, A870, A872, A874, A876, A878, A880, A882, A884, A886, A888, A890, A892, A894, A896, A898, A900, A902, A904, A906, A908, A910, A912, A914, A916, A918, A920, A922, A924, A926, A928, A930, A932, A934, A936, A938, A940, A942, A944, A946, A948, A950, A952, A954, A956, A958, A960, A962, A964, A966, A968, A970, A972, A974, A976, A978, A980, A982, A984, A986, A988, A990, A992, A994, A996, A998, A1000

NOTES:

1. FEED TO METAL UNIFORMITY WITHIN 48141
2. ALL PIPING MATERIALS TO BE PERMITTED BY THE NATIONAL PIPE MANUFACTURING ASSOCIATION (NPMMA)
3. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS)
4. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS)
5. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS)
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9. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS)
10. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS)

REVISION	DATE	BY	CHKD	DESC.
1	10/20/88	J. W. D. W.	J. W. D. W.	ISSUE FOR CONSTRUCTION

REVISION	DATE	BY	CHKD	DESC.
1	10/20/88	J. W. D. W.	J. W. D. W.	ISSUE FOR CONSTRUCTION

CALL OUTS FOR BIDDING:

1. ALL SUPPLIES AND MATERIALS TO BE PROVIDED BY THE CONTRACTOR.

2. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

3. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

4. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

5. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

6. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

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8. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

9. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

10. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

GENERAL COMMENTS:

1. ALL SUPPLIES AND MATERIALS TO BE PROVIDED BY THE CONTRACTOR.

2. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

3. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

4. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

5. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

6. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

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9. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

10. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

CONSTRUCTION NOTES:

1. ALL SUPPLIES AND MATERIALS TO BE PROVIDED BY THE CONTRACTOR.

2. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

3. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

4. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

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8. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

9. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

10. ALL WELDS TO BE MADE BY THE NATIONAL WELDING SOCIETY (NWS).

#75-27
4-2-62R

GAS OPERATIONS
DEPARTMENT OF GAS SYSTEM DESIGN
STRENGTH TEST PRESSURE REPORT
(Per General Order 112, Paragraph 209)

file
cc: G.S.D. Div.
12/1/64

Date Nov 23, 1964

Job No. CG 159638

1. Project Description: Install 22" H.P. Gas main

Hydrostatic test 199 ft of 22" pipe section III

2. Pipeline Data:

	Size	Wall Thickness	Pipe Specifications
(a) Mainline	<u>22"</u>	<u>.3125</u>	<u>API 5LX X42</u>

(b) Design Operating Pressure, maximum 400 psig

(c) Stress at Max. D.O.P. 14,000 psi; as % of yield 33.5
" " " " " " " "

(d) Location class 3 Type construction C
" " " " " " " "

(e) Test Pressure 825 min psig; fluid water
1132 max psig; " " " "

(f) Stress at Test Pressure 24,000 psi; as % of yield 69
39,000 psi; " " " " 95

(g) Period of Test (See Instruction 3) _____

3. Test Data

(a) Date and time started test 11/13/64 10:00 AM, fluid used water & nitrogen

(b) Date and time reached test pressure 11/13/64 10:15 AM

(c) Date and time concluded test 11/13/64 12:45 PM, actual test pressure 230 psi

(d) Date and time Purging started 11/22/64 1:00 PM, concluded 11/22/64 1:20 PM

(e) Date and time Pipeline tied into System 11/22/64 3:00 PM

(f) Date and time Pipeline placed in Operation 11/22/64 3:25 PM

(g) Name of PG&E Supervisor conducting test _____

(h) Who made test? P G & E

General Construction Department CGS
Division - San Jose
Contractor (Indicate Name) - none

- Instructions:
- Strength test is required for all mains to operate at hoop stress of 20% or more of the specified minimum yield strength.
 - Test procedures are to conform to the requirements of paragraphs 841.3 and 841.4 (Section 209) of C.P.U.C. General Order No. 112.
 - The test period shall be suitable for the section of main to be tested; but in no instance shall it be less than 1 hour after stabilizing of pressure.
 - Retain one copy of completed report in job file. Send one copy to Division Operating Department and two to Department of Gas System Design.

MAOP16002731

75-27R
(7-17-64)

GAS OPERATIONS
GAS SYSTEM DESIGN DEPARTMENT
STRENGTH TEST PRESSURE REPORT
(Per General Order 112A, Paragraph 209)

WR

Date October 9, 1964

Job No. 01-150838

1. Project Description: Relocation of 30" main 132 and 32" 109 with 36" and 30" pipelined
Hydrostatic test 132 ft of 30" x .03125 wall pipe 1000' south of section 3

2. Pipeline Data:

	Size	Wall Thickness	Pipe Specifications
(a) Mainline	<u>30"</u>	<u>.03125</u>	<u>API 5LX-342</u>
(b) Design Operating Pressure, maximum	<u>400</u>	<u>psig</u>	
(c) Stress at Max. D.O.P.	<u>19,000</u>	<u>psi; as % of yield</u>	<u>46</u>
	<u>16,000</u>	<u>" " " "</u>	<u>51</u>
(d) Location class	<u>0</u>	Type construction	<u>0</u>
(e) Test Pressure	<u>600 min.</u>	psig; fluid	<u>water</u>
	<u>890 max</u>	psig; fluid	
(f) Stress at Test Pressure	<u>28,800</u>	psi; as % of yield	<u>69</u>
	<u>40,000</u>	psi; as % of yield	<u>95</u>
(g) Period of Test (See Instruction. 3)	<u>Static test pressure 1 hr, drop 200 psig, return to test pressure 7 hrs., final hour with 20 pressure drop</u>		

3. Test Data

(a)	Date and time started test	<u>10-11-64</u>	<u>11:00 AM</u>	fluid used	<u>water nitrogen</u>
(b)	Date and time reached test pressure	<u>10-11-64</u>	<u>11:18 AM</u>		
(c)	Date and time concluded test	<u>10-11-64</u>	<u>1:15 PM</u>	actual test pressure	<u>855 psi</u>
(d)	Date and time Purging started	<u>10-11-64</u>	<u>2:30 PM</u>	concluded	<u>10-11-64</u>
(e)	Date and time Pipeline tied into System	<u>10-11-64</u>	<u>3:00 PM</u>		
(f)	Date and time Pipeline placed in Operation	<u>10-11-64</u>	<u>10:00 PM</u>		
(g)	Name of PG&E Supervisor conducting test	<u>[REDACTED]</u>			
(h)	Who made test?	<u>PG&E</u>			

General Construction Department GAS
 Division - SAN JOSE
 Contractor (Indicate Name) - NONE

- Instructions:
- Strength test is required for all mains to operate at hoop stress of 20% or more of the specified minimum yield strength.
 - Test procedures are to conform to the requirements of paragraphs 841.3 and 841.4 (Section 209) of C.P.U.C. General Order No. 112A.
 - The test period shall be suitable for the section of main to be tested; but in no instance shall it be less than 1 hour after stabilizing of pressure.
 - Retain one copy of completed report in job file. Send one copy to Division Operating Department and two to Gas System Design Department.

#75-27
4-2-62R
975E

WR

GAS OPERATIONS
DEPARTMENT OF GAS SYSTEM DESIGN
STRENGTH TEST PRESSURE REPORT
(Per General Order 112, Paragraph 209)

Date October 9, 1964

Job No. 160628

1. Project Description: ~~Relocation of 300 main line and 300 inch gas and 300 pipeline~~
~~to operate test at 300 inch of 300 pipe section B~~

2. Pipeline Data:	Size	Wall Thickness	Pipe Specifications
(a) Mainline	<u>300</u>	<u>0.3125</u>	<u>API 5LX-X42</u>
	<u>300</u>	<u>0.375</u>	<u>API 5LX-X42</u>
(b) Design Operating Pressure, maximum	<u>400</u>		psig
(c) Stress at Max. D.O.P.	<u>48,000</u>		psi; as % of yield <u>46</u>
	<u>46,000</u>		" " " " <u>57</u>
(d) Location class	<u>0</u>	Type construction	<u>0</u>
(e) Test Pressure	<u>600 min</u>	psig; fluid	<u>water</u>
	<u>850 max</u>	psig; "	
(f) Stress at Test Pressure	<u>88,800</u>		psi; as % of yield <u>60</u>
	<u>40,000</u>		psi; " " " " <u>68</u>
(g) Period of Test (See Instruction 3)	<u>Hold test pressure then drop 200 psig, return to test pressure 7 hrs., final hour with no pressure drop.</u>		

3. Test Data
- (a) Date and time started test 10/28/64 11:55 AM, fluid used water
 - (b) Date and time reached test pressure 10/28/64 1:30 PM
 - (c) Date and time concluded test 10/28/64 3:15 PM, actual test pressure 300 psi
 - (d) Date and time Purging started 10/28/64 11:00 AM, concluded 10/28/64 1:00 PM
 - (e) Date and time Pipeline tied into System 11/1/64 1:05 PM
 - (f) Date and time Pipeline placed in Operation 11/1/64 2:50 PM
 - (g) Name of PG&E Supervisor conducting test [Redacted]
 - (h) Who made test? [Redacted]

Actual test pressure at high point 732 psi
" " " " low 633 psi

General Construction Department [Redacted]
Division - [Redacted]
Contractor (Indicate Name) - [Redacted]

- Instructions:
1. Strength test is required for all mains to operate at hoop stress of 20% or more of the specified minimum yield strength.
 2. Test procedures are to conform to the requirements of paragraphs 841.3 and 841.4 (Section 209) of C.P.U.C. General Order No. 112.
 3. The test period shall be suitable for the section of main to be tested; but in no instance shall it be less than 1 hour after stabilizing of pressure.
 4. Retain one copy of completed report in job file. Send one copy to Division Operating Department and two to Department of Gas System Design.

175-27
4-2-62R
9752

GAS OPERATIONS
DEPARTMENT OF GAS SYSTEM DESIGN
STRENGTH TEST PRESSURE REPORT
(Per General Order 112, Paragraph 209)

Date October 9, 1964

Job No. OH 159638

1. Project Description: Relocation of 30" main 732 and 22" 100 with 36" and 30" pipeline
Hydrostatic test 2056 ft of 30" pipe, section II

2. Pipeline Data:	Size	Wall Thickness	Pipe Specifications
(a) Mainline	<u>30"</u>	<u>.125</u>	<u>API 5LX-70</u>
	<u>30"</u>	<u>.075</u>	<u>API 5LX-55</u>
(b) Design Operating Pressure, maximum	<u>400</u>	psig	
(c) Stress at Max. D.O.P.	<u>19,200</u>	psi; as % of yield	<u>46</u>
	<u>16,000</u>	" " " "	<u>39</u>
(d) Location class	<u>1</u>	Type construction	<u>0</u>
		" "	
(e) Test Pressure	<u>600 min</u>	psig; fluid	<u>water</u>
	<u>550 max</u>	psig; "	
(f) Stress at Test Pressure	<u>28,800</u>	psi; as % of yield	<u>69</u>
	<u>40,000</u>	psi; " " " "	<u>95</u>

(g) Period of Test (See Instruction 3) Hold test pressure 1 hr. drop 200 psig, return to test pressure 7 hrs., final hour no pressure drop

3. Test Data
(a) Date and time started test <u>11/20/64 11:24 AM</u> , fluid used <u>water</u>
(b) Date and time reached test pressure <u>11/20/64 1:02 PM</u>
(c) Date and time concluded test <u>11/20/64 3:00 PM</u> , actual test pressure <u>733 PSI Test</u>
(d) Date and time Purging started <u>11/21/64 1:20 PM</u> , concluded <u>11/21/64 3:30 PM</u> psi
(e) Date and time Pipeline tied into System <u>11/22/64 3:25 PM</u>
(f) Date and time Pipeline placed in Operation <u>11/22/64 3:25 PM</u>
(g) Name of PC&E Supervisor conducting test _____
(h) Who made test? <u>P.O. [redacted]</u>

(i) Actual test pressure at high point 733 psi
850 psi

General Construction Department Gas
Division - San Jose
Contractor (Indicate Name) - Calado Corp.

- Instructions:
- Strength test is required for all mains to operate at hoop stress of 20% or more of the specified minimum yield strength.
 - Test procedures are to conform to the requirements of paragraphs 841.3 and 841.4 (Section 209) of C.P.U.C. General Order No. 112.
 - The test period shall be suitable for the section of main to be tested; but in no instance shall it be less than 1 hour after stabilizing of pressure.
 - Retain one copy of completed report in job file. Send one copy to Division Operating Department and two to Department of Gas System Design.

#15-27R 3644
(11-27-64)

Sheet 1 of 1

GAS OPERATIONS
Gas System Design Department
Strength Test Pressure Report
(Per General Order 112-A Paragraph 209)
(Standard Practice No. 410.13)

Date 4-14-67

Job No. GM 159638 Main No: 109 Division _____

1. Description of Job Relocate Section Of M. # 109 To Facilitate Freeway Construction
Skyline Blvd. & Summit Drive, Burlingame

2. Design Pressure 400, Construction Type 0; Category II

(a) Test Pressure: Maximum 1080 Minimum 975

(b) Pipe Size	Wall Thickness	Pipe Specifications	Footage Tested
<u>30"</u>	<u>.312</u>	<u>API SL X52</u>	<u>888</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(c) Period of Test (Not less than 1 hour after stabilizing of pressure) 7 1/2 HRS

3. Test Data

(a) Date and time reached test pressure 8:00 A.M. 4-14-67, Fluid used Water

(b) Date and time test ended 3:30 P.M. 4-14-67, Actual test pressure 3000 P.S.I

(c) Name of PG&E Supervisor conducting test _____

(d) Who made test? (1) Gas Construction Department XXX

(2) Division _____

(3) Contractor (Indicate Name) _____

4. Reference Drawing No. _____

5. Schematic sketch on reverse side showing section of main tested.

6. Distribution of completed Report.

1. Retain one copy in job file.
2. Send one copy to District Gas Superintendent.
3. Send two copies to Gas System Design Department.
4. Attach one copy to Foreman's Copy of Estimate-Plant Accounting.
5. Send one copy to Gas Construction Department (If job is assigned to General Construction).

**GAS OPERATIONS
STRENGTH TEST PRESSURE REPORT**
(FOR PIPE FACILITIES OPERATING OVER 100 PSIG)

PART I - DESIGN DATA - (TO BE PREPARED BY PROJECT ENGINEER OR GAS SYSTEM DESIGN DEPT.)

MAIN OR LINE NO. L-107	DIVISION P.L.O.	DISTRICT Hollister	W.O. OR G.M. NO. G.M. 186632	DATE APPROVED 7-18-77
----------------------------------	---------------------------	------------------------------	--	---------------------------------

DESCRIPTION OF JOB - INCLUDE REFERENCE DRAWING NUMBERS
Retest 24" & 22" L-107, Landing Road to Irvington Terminal Installed on G.M. 123902 (1954)

See Drawing 383827 Sht's. 1 & 2

LOCATION CLASS III	DESIGN FACTOR (F) 0.5	PRESENT MAOP OF LINE (PSIG) 477 #	DESIGN PRESSURE - THIS SECTION 477 #	PLANNED FUTURE MAOP 477 #
------------------------------	---------------------------------	---	--	-------------------------------------

SPECIAL PROTECTION REQUIRED WHERE COVER OVER PIPE IS LESS THAN SPECIFIED IN PAR. 192.327 - G.O. 112 - SEE PAR. 141.2(B) GIVE M.P. & REF. DWG. NO. FOR EACH LOCATION.

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	MAX. ELEVATION 93' Assumed FT.	MIN. ELEVATION 73' Assumed FT.	DIFF. 20 FT.	STATIC HEAD CALCULATION FOR WATER OTHER (SPECIFY)	0.433 X DIFF. X DIFF. = 8.7 PSIG.
--	--	--	------------------------	--	--

PIPE SIZE		PIPE SPECIFICATION			% OF S.M.Y.S.			PRESS. TO GIVE 90% SMYS	FOOTAGE TO BE TESTED	VERIFIED IN FIELD
O.D.	W.T.	API. GR.	ERW. DBAW.	SEAMLESS	AT DESIGN PRESS.	AT MIN. TEST PRESS.	AT MAX. TEST PRESS.			
24"	.3125"	API 5LX-X42	D.S.A.W.	X	43.6	65.8	72.2	985	5095'	
22"	.3125"	35,000 #	S.S.A.W.		59.9	90.5	99.3	716	4315'	

MINIMUM PRESSURE FOR TEST	725 PSIG	TEST FLUID TO BE USED	Water	MINIMUM TEST DURATION UNDER 30% SMYS (1 HR. MIN.)	8 HRS.
MAXIMUM PERMISSIBLE TEST PRESSURE	790 PSIG	30% SMYS & OVER (8 HR. MIN.) PREINSTALLATION TEST (SEE 192.505(B) GO 112)			

PREPARED BY: [REDACTED] DATE: 7-18-77 FOR INFORMATION OR CHANGES, CALL [REDACTED] APPROVED: **RJB**

PART II - TEST DATA - TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST. NOTE: MINIMUM TEST PRESSURE AND DURATION ARE NOT TO BE CHANGED WITHOUT WRITTEN APPROVAL.

* TIME AND DATE REACHED TEST PRESSURE	1030 10-17-77	ELEVATION AT TEST POINT	78.7 FT.	INDICATED TEST PRESSURE	754.5 PSIG.
TIME AND DATE TEST ENDED	1900 10-17-77	MAX. ELEVATION IN TEST SECTION	93.1 FT.	MINIMUM TEST PRESSURE	754.5 PSIG.
ACTUAL DURATION OF TEST	8 1/2 HRS.	MIN. ELEVATION IN TEST SECTION	73.1 FT.	MAXIMUM TEST PRESSURE	767.2 PSIG.

TEST FLUID USED: WATER	PIPE SPEC. VERIFIED (SEE PART I)	PIPE FOOTAGE VERIFIED (SEE PART I)
MAKE, RANGE & SERIAL NO. OF RECORDING GAUGE FOXBORO 10 2000 212904	DATE LAST CALIBRATION 6-24-77	MAKE, RANGE & SERIAL NO. OF DEAD WEIGHT TESTER CHANDLER 2-1 3554

TEST SUPERVISED BY: [REDACTED] APPROVED BY: [REDACTED] DATE: **10/18/77**

SCHEMATIC SKETCH, SHOW LOCATION OF FACILITY TESTED, MIN. & MAX. ELEVATION IN FEET, MILE POINTS OR ENGINEERING STATIONS AND INCORPORATED AREAS. USE SPACE BELOW: (SHOW REFERENCE DRAWING NUMBERS) USE BACK OR AN ADDITIONAL SHEET IF NECESSARY (SHOW REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS)

* Note: Joint Factor of 22" Pipe is 0.8

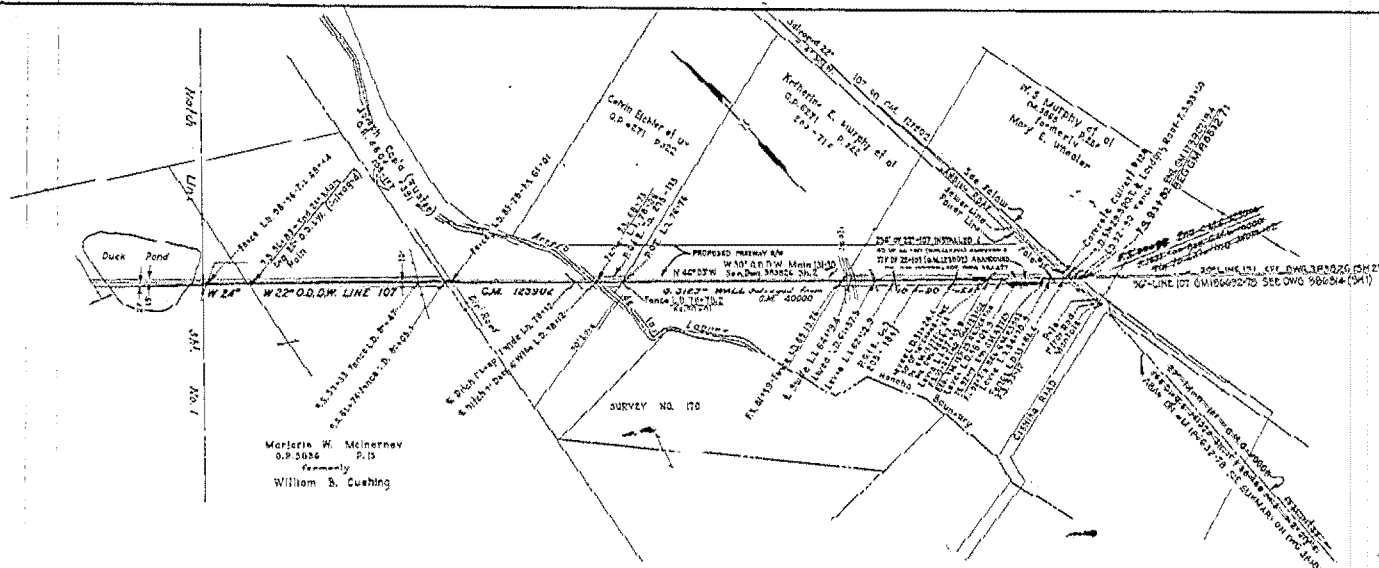
SEE SKETCH ON PAGE 4/4

WF WJN JLH RLF JAH
RED BAM GES JRD CS
RJS OCT 2.6 1977 DWM
EG GAS DLS
RAW CONSTRUCTION TRB
FILE

DISTRIBUTION

- DIST. GAS SUPT. JOB FILE
- DIV. GAS SUPT.
- GC GAS-ASSIGNED JOBS
- GAS SYSTEM DESIGN (2)
- PLANT ACCTG. (WITH FOREMAN'S COPY OF JOB)
- PIPELINE HISTORY FILE
- REPORT FAILURES UNDER TEST TO GAS SYSTEM DESIGN AND GAS DISTRIBUTION DEPT'S.

MAOP04131460



Marjorie W. Melnerneer
O.P. 5036 P. 13
Formerly
William S. Cushing

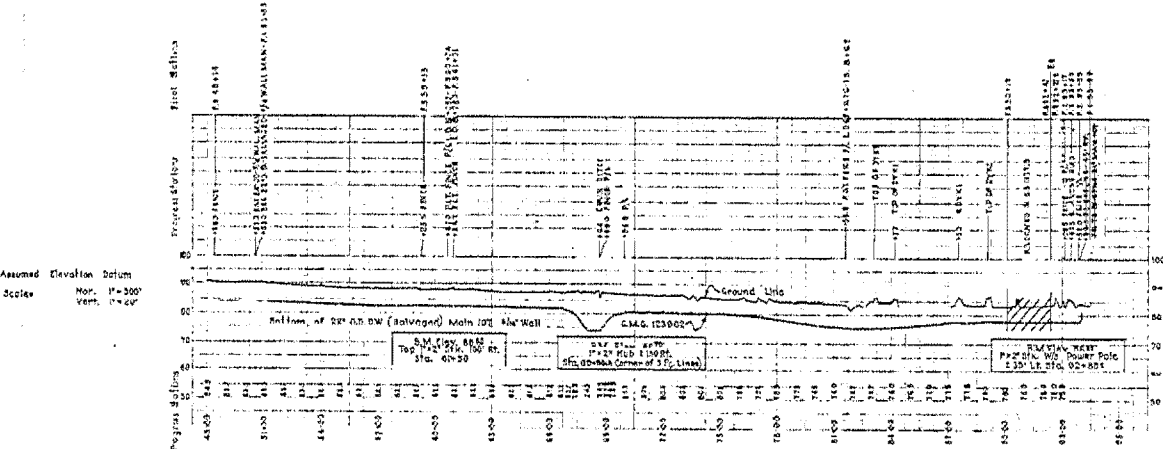
(D.S. H.W.M.U.B.&M)
ALAMEDA CO.
FREMONT INC.

NOTE - Final Stations Based on Horizontal datum

* SUMMARY G.M. 123902			
LINE FOOTAGE - LINE 131-30			
INSTALLED			
34'	30'	Total ft.	Location
4632'	2056'		Fremont Inc. Alameda Co.
	7569'		Fremont Inc. Alameda Co.
	4770'		Milpitas Inc. Santa Clara Co.
	82341'		Santa Clara Co. Union
Started in operation	8-27-54		
Completed	7-3-55		

LINE FOOTAGE - LINE 107			
INSTALLED - Comp. 383827 SHEET 1-2			
5003'	4530'	5417'	Fremont Inc. Alameda Co.
			Fremont Inc. Alameda Co.
REMOVED - LINE 107			
410'	1842'	1921'	Fremont Inc. Alameda Co.

- REFERENCE DRAWINGS**
- 381101 24"-22" Main 107 Milpitas to Oakland
 - 384459 24"-22" Main 107 Milpitas to Oakland Gas Line
 - 383598 Main Line Valve Installation for bypassing Milpitas Control Station
 - 384824 Milpitas Trimming Gas Line
 - 3300' of 24" Main 107 G.M. 46000 Salvaged and removed on 6/28/55
 - 7827' of 24" Main 107 (G.M. 75474) transferred to Main 107 Account Fremont Inc. Alameda Co.
 - 102' of 24" Main 107 (G.M. 75477) removed Fremont Inc. Alameda Co.
 - 102' of 24" Main 107 (G.M. 75427) transferred to Water Department Fremont Inc. Alameda Co.
 - 4644' of 24" Main 107 (G.M. 88000) removed Fremont Inc. Alameda Co.
 - MAIN FOOTAGE INSTALLED MAIN 107
 - 444' of 24" Main Fremont Inc. Alameda Co.



Assumed Elevation Datum
Scale: Hor. 1"=300'
Vert. 1"=40'

TABLE OF CHANGES	
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24" & 22" LINE 107-IRVINGTON
TERMINAL TO LANDING ROAD
G.M. 123902
PACIFIC GAS & ELECTRIC CO.
SAN FRANCISCO CALIFORNIA

PIPE LINE OPERATIONS	
DATE OF APPROVAL	8/27/54
APPROVED BY	[Signature]
SHEET NO. 2 of	2 SHEETS
DRAWING NUMBER	383827

383827S2

PACIFIC GAS AND ELECTRIC COMPANY

CREDIT REQUISITION

PLANT ACCOUNTING DEPT

THE ARTICLES LISTED BELOW HAVE BEEN RETURNED TO THE WAREHOUSE OR ABANDONED IN PLACE AND
REPRESENT ONE OF THE FOLLOWING AS INDICATED: .

DATE 7-20-55

2 SALVAGED
 3 MISCELLANEOUS
 OVERDRAWN
 5 DIVISION JOB NOS
 6 CMR
 CREDIT CHECK NO.

CHK.	MATERIAL NUMBER	ARTICLES	UNIT	QUANTITY	PRICE	AMOUNT	PLANT LOCATION OR ITEM NO.	ACCOUNT NUMBER	UNIT COST ACC'T PRE-INSTALLATION FIX PERIOD	RET CODE
	01 1396 1V44	PIPE, STEEL BARE 3/4" X 1/2" WALL	FT	35	12.47	436.45		9000		
	01 1316 1316	PIPE, STEEL D.W. 20" X 5/16" WALL	FT	22	6.882			See Excerpt		
	01 1316	PIPE, STEEL D.W. 22" X 5/16" WALL	FT	22	3.39	745.8		9000		
	01 1021	PIPE, STEEL BARE 22" X 5/16" WALL	FT	17	5.712	971.0				
<i>Item 2 B.O. to 204782</i>										
ORIGINAL IDENTITY OF ITEMS RETURNED TO WAREHOUSE IN FORM DIFFERENT FROM ORIGINAL CHARGE AND COMPOSITE UNITS						TOTAL		608.13		
					X	X	X			
					X	X	X			
					X	X	X			

MA0905439011

DESCRIBE JOB FROM WHICH MATERIAL WAS RETURNED

REFERENCE S O OR W. O. NO. _____

JOB ORDER _____

PREFIX NUMBER SUFFIX

CH 13962

Jos SIGNATURE

FROM PIPE 3/4" D W IAPA 227

7/20/55
DATE RECEIVED

DIVISION NUMBER 73

SUBSTORE NUMBER decoto

DESCRIBE FULLY JOB FROM WHICH MATERIAL WAS RETURNED

No. 2404316

INSTALLATION PERIOD PREFIX AND RETIREMENT CODE COLUMNS ARE FOR UNIT COST ACCOUNT SALVAGE ONLY INSTRUCTIONS FOR THEIR USE ARE INCLUDED IN AUDITING DEPARTMENT CIRCULAR LETTERS 836 AND 839

PACIFIC GAS AND ELECTRIC COMPANY

PLANT ACCOUNTING DEPT

CREDIT REQUISITION

DATE 7-21-55
THE ARTICLES LISTED BELOW HAVE BEEN RETURNED TO THE WAREHOUSE OR ABANDONED IN PLACE AND REPRESENT ONE OF THE FOLLOWING AS INDICATED:

2 SALVAGED 3 MISCELLANEOUS 5 DIVISION JOB NOS. 6 GW

O V E R D R A W N

CREDIT CHECK NO. [REDACTED]

MATERIAL NUMBER	ARTICLES	UNIT	QUANTITY	PRICE	AMOUNT	PLANT LOCATION OR ITEM NO.	ACCOUNT NUMBER	UNIT COST ACC'T PRE-INSTALLATION PERIOD	RET COST
01 1001	PIPE STEEL, 22" X 5/16" WALL BARS	PT	20	5.712	1142.40		1000		
01 1316	PIPE STEEL, 22" X 5/16" WALL D.M.	PT	39	3.39	1322.10				
01 1001	PIPE STEEL, 22" X 5/16" WALL BARE	PT	19	5.712	1085.28				
01 1002	PIPE STEEL, 24" X 5/16" WALL BARE	PT	16	5.03	804.80				
01 1316	PIPE STEEL, 24" X 5/16" WALL D.M.	PT	73	3.39	2474.27				
01 1013	PIPE STEEL, 22-3/4" X 5/16" WALL BARE	PT	14	2.005	280.70				
TOTAL									
					734.34				

See Receipt

ORIGINAL IDENTITY OF ITEMS RETURNED TO WAREHOUSE IN FORM DIFFERENT FROM ORIGINAL CHARGE AND COMPOSITE UNITS

DESCRIBE JOB FROM WHICH MATERIAL WAS RETURNED

REFERENCE S O OR W O NO.

See Receipt S/O D-7-21-55

JOB ORDER

PREFIX NUMBER SUFFIX

7/1/55

DATE RECEIVED

DIVISION NUMBER

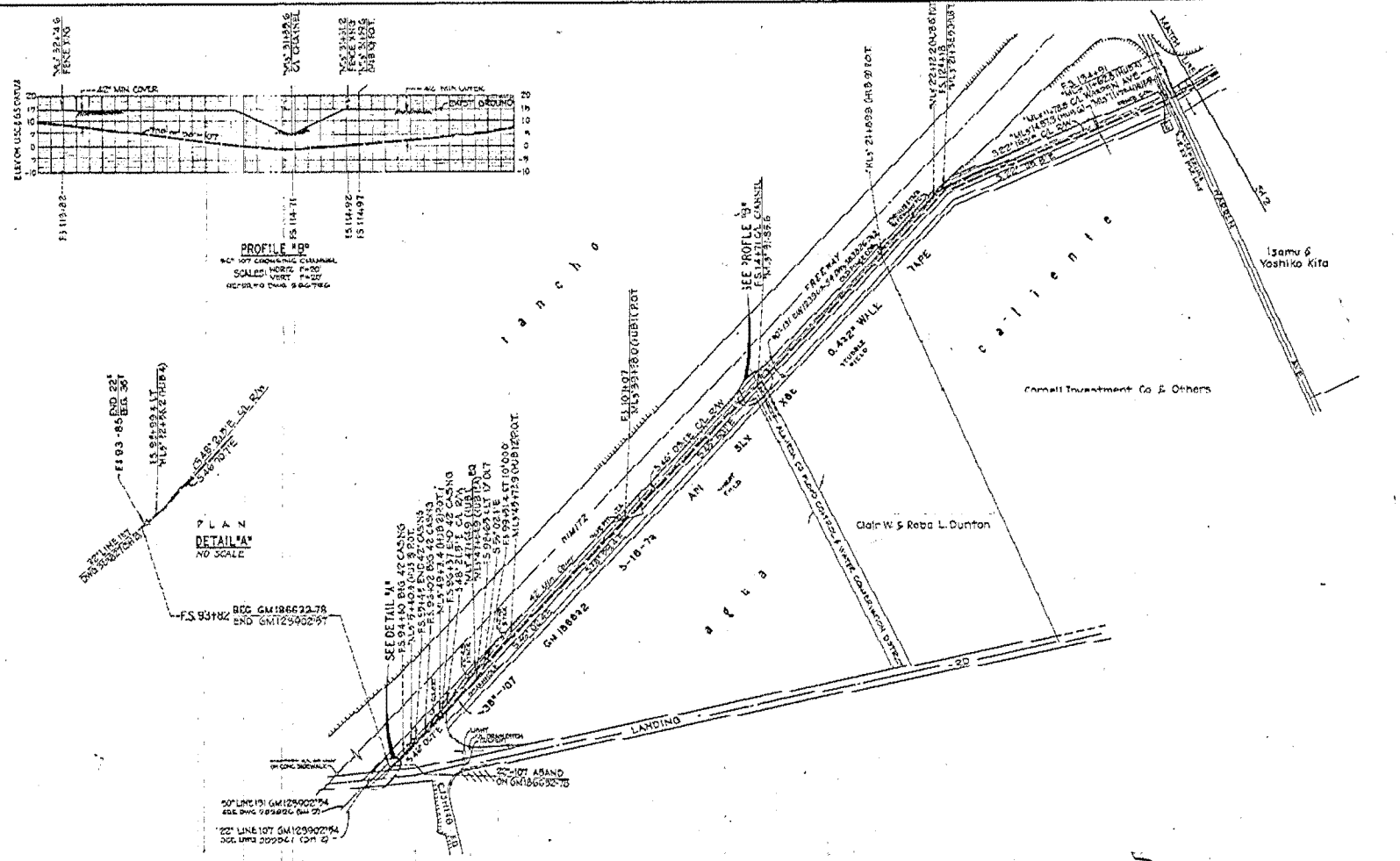
SUBSTORE NUMBER

DESCRIBE FULLY JOB FROM WHICH MATERIAL WAS RETURNED

No. **2404323**

MA0P05439010

107-386814-1



SUMMARY OF GM 186632 - LINE 107		
LINE INSTALLED - EAST BAY DIVISION		
22"	38'	LOCATION
2'	1880'	FREMONT, INC.
3'	1800'	TOTAL
LINE INSTALLED - SAN JOSE DIVISION		
66"	30'	LOCATION
23'	1827'	MILPITAS, INC.
23'	1827'	SANTA CLARA COUNTY
23'	1127'	TOTAL
LINE ABANDONED - EAST BAY DIVISION		
22"	ORIGINAL INSTALLATION	LOCATION
17'	GM12590094	FREMONT, INC.
144'	GM10000000	"
10'	GM12674483	"
184'	GM15772997	"
79'	GM16062024	"
800'	GM16090766	"
79'	GM14917420	"
1927'	TOTAL	18,600'
LINE ABANDONED - SAN JOSE DIVISION		
22"	24'	ORIGINAL INSTALLATION
3000'	GM40000000	MILPITAS, INC.
6000'	"	SANTA CLARA COUNTY
74'	GM49000000	"
66'	GM12029999	"
2'	180'	GM15270000
7'	75'	GM17549970
10401'	889'	TOTAL
INSTALLED: 4-10-77 OPERATION: 5-10-78 COMPLETED: 4-23-79		

REFERENCE DRAWINGS

- B-5327 Irvington-Milpitas Gas Line, Line 107
- 361224 Sh 17 Tracy Gas Terminal to Milpitas Terminal 100' R/W
- 361469 Sh 123 Milpitas-Oakland Gas Line
- 362349 Sh 232 Tracy Gas Terminal to Milpitas Terminal 100' R/W
- 363572 20" & 24" Lines, 24" & 30" Gaslines Installed on 24" & 25" Line, 107-Irvington Terminal to Landing Road, GM 123004
- 363627 Sh 2 24" & 25" Line, 107-Irvington Terminal to Landing Road, GM 123004
- 364427 Relocation of Lines 107, 107, 21, 31 & 107
- 364771 GM 150522 Landed Gas Lines 107, 107, 10-30

NOTE
 Final Stationing are based on pipe length information furnished by customer. See Summary Sheet 381101 Sh. 1c.

PIPE LINE OPERATIONS
 FREMONT INC.
 ALAMEDA COUNTY B-5327 (Sh. 7)
 EAST BAY DIVISION (155 RIW MDS & M)

PIPELINE - PLAN SHEET			
REPLACE 22" LINE 107 WITH 36" ALONG LINE 61 R/W BET IRVINGTON & MILPITAS TERM.			
GM186632			
PACIFIC GAS AND ELECTRIC COMPANY SAN FRANCISCO, CALIFORNIA			
DRAWING NUMBER 386814			DATE 1978

386814-1

SB GT&S_0225137

**GAS OPERATIONS
STRENGTH TEST PRESSURE REPORT**
(FOR PIPE FACILITIES OPERATING OVER 100 PSIG)

PART I - DESIGN DATA - (TO BE PREPARED BY PROJECT ENGINEER OR GAS SYSTEM DESIGN DEPT.)

MAIN OR LINE NO. L-107	DIVISION P.L.O.	DISTRICT Hollister	W.O. OR G.M. NO. G.M. 186632	DATE APPROVED 7-18-77
----------------------------------	---------------------------	------------------------------	--	---------------------------------

DESCRIPTION OF JOB - INCLUDE REFERENCE DRAWING NUMBERS
Retest 24" & 22" L-107, Landing Road to Irvington Terminal Installed on G.M. 123902 (1954)

See Drawing 383827 Sht's. 1 & 2

LOCATION CLASS III	DESIGN FACTOR (F) 0.5	PRESENT MAOP OF LINE (PSIG) 477 #	DESIGN PRESSURE - THIS SECTION 477 #	PLANNED FUTURE MAOP 477 #
------------------------------	---------------------------------	---	--	-------------------------------------

SPECIAL PROTECTION REQUIRED WHERE COVER OVER PIPE IS LESS THAN SPECIFIED IN PAR. 192.327 - G.O. 112 - SEE PAR. 141.2(D) GIVE M.P. & REF. DWG. NO. FOR EACH LOCATION.

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	MAX. ELEVATION 93' Assumed	MIN. ELEVATION 73' Assumed	DIFF. 20 FT.	STATIC HEAD CALCULATION FOR WATER OTHER (SPECIFY) _____	0.433 X DIFF. = 8.7 PSIG
--	--------------------------------------	--------------------------------------	------------------------	--	---------------------------------

PIPE SIZE		PIPE SPECIFICATION		% OF S.M.Y.S.			PRESS. TO GIVE 90% SMYS	FOOTAGE TO BE TESTED	VERIFIED IN FIELD
O.D.	W.T.	API. GR. ERW. OR AW. SEAMLESS	VERIFIED IN FIELD	AT DESIGN PRESS.	AT MIN. TEST PRESS.	AT MAX. TEST PRESS.			
24"	.3125"	API 5LX-X42 D.S.A.W.	✓	43.6	65.8	72.2	985 ✓	5095' ✓	✓
22"	.3125"	35,000 # S.S.A.W.	✓	59.9	90.5	99.3	716 ✓	4315' ✓	✓

MINIMUM PRESSURE FOR TEST	725 PSIG	TEST FLUID TO BE USED. Water	MINIMUM TEST DURATION UNDER 30% SMYS (1 HR. MIN.) 30% SMYS & OVER (8 HR. MIN.) PREINSTALLATION TEST (SEE 192.805(B) GO 112)	8 HRS.
MAXIMUM PERMISSIBLE TEST PRESSURE	790 PSIG			

PREPARED BY: [REDACTED] DATE: **7-18-77** FOR INFORMATION OR CHANGES, CALL: [REDACTED] APPROVED: **ARB**

PART II - TEST DATA - TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST. NOTE: MINIMUM TEST PRESSURE AND DURATION ARE NOT TO BE CHANGED WITHOUT WRITTEN APPROVAL.

TIME AND DATE REACHED TEST PRESSURE	1030 10-17-77	ELEVATION AT TEST POINT	78.7 FT.	INDICATED TEST PRESSURE	754.5 PSIG.
TIME AND DATE TEST ENDED	1900 10-17-77	MAX. ELEVATION IN TEST SECTION	93.1 FT.	MINIMUM TEST PRESSURE	754.5 PSIG.
ACTUAL DURATION OF TEST	8 1/2 HRS.	MIN. ELEVATION IN TEST SECTION	73.1 FT.	MAXIMUM TEST PRESSURE	767.2 PSIG.

TEST FLUID USED: WATER	PIPE SPEC. VERIFIED (SEE PART I)	PIPE FOOTAGE VERIFIED (SEE PART I)
MAKE, RANGE & SERIAL NO. OF RECORDING GAUGE FOXBORO (10000) 1129041-50	DATE LAST CALIBRATION 6-24-77	MAKE, RANGE & SERIAL NO. OF DEAD WEIGHT TESTER CHANDLER 2-1 11355-4
TEST SUPERVISED BY: [REDACTED]	APPROVED BY: [REDACTED]	DATE: 10/18/77

SCHEMATIC SKETCH, SHOW LOCATION OF FACILITY TESTED, MIN. & MAX. ELEVATION IN FEET, MILE POINTS OR ENGINEERING STATIONS AND INCORPORATED AREAS. USE SPACE BELOW: (SHOW REFERENCE DRAWING NUMBERS) USE BACK OR AN ADDITIONAL SHEET IF NECESSARY (SHOW REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS)

* Note: Joint Factor of 22" Pipe is 0.8

SEE SKETCH ON PAGE 4/4

WF WJN JLH **ALF** JAH
 RED BAM GES JRD CS
 RJS OCT 26 1977 DWM
 EG RAW GAS CONSTRUCTION FILE DLS FRB

DISTRIBUTION
DIST. GAS SUPT. JOB FILE
DIV. GAS SUPT.
OC GAS-ASSIGNED JOBS
GAS SYSTEM DESIGN (2)
PLANT ACCTG. (WITH FOREMAN'S COPY OF JOB)
PIPELINE HISTORY FILE
*REPORT FAILURES UNDER TEST TO GAS SYSTEM DESIGN AND GAS DISTRIBUTION DEPT'S.

MAOP04131460

MA0P0543897A

ARTICLE OR COMMODITY (COMPLETE DESCRIPTION MUST BE SHOWN)	NUMBER OR QUANTITY	PRESENT MATERIAL VALUE	FOR GENERAL OFFICE USE ONLY RECAP. P. M. V.	YEAR IN- STALLED	G. M. OR W. O.	ORIGINAL COST INSTALLED REFERENCES			LOC. CODE NO.	ACCT. NO.	ORIGINAL COST INSTALLED	FOR GENERAL OFFICE USE ONLY RECAP. O. C. L.	REPLACE MENT PURPOSE
						UNIT COST	O. P. N. VOL.	PAGE					
...													
<i>Castings for front valves 128 1531</i>	<i>2</i>	<i>115.25</i>	<i>2034 83</i>						<i>116/126</i>				
<i>Chassis, Bentley</i>	<i>2</i>	<i>34.64</i>											
<i>Valve 12/27/57</i>	<i>2</i>	<i>22.90</i>											
<i>Pipes 2"</i>	<i>1170</i>	<i>15.92</i>											
<i>Valves, 14 description</i>	<i>1</i>	<i>5.46</i>											
<i>2 Valve</i>	<i>1</i>	<i>3.31</i>											
<i>2 Gate</i>	<i>1</i>	<i>6.26</i>											
<i>Partick</i>	<i>5</i>	<i>77.84</i>											
<i>Scrap metal</i>		<i>1186.07</i>											

UNIT CHANGES ARE MADE TO CORRECT THE DESCRIPTION,
QUANTITY, UNIT PRICE, OR AMOUNT PREVIOUSLY REPORTED.
REMARKS WILL BE SHOWN AS "ADJUSTMENTS TO PREVIOUS
REPORTS" WITH COMPLETE REFERENCE TO FORMER ENTRIES.

* FOR YEAR INSTALLED USE LAST TWO NUMBERS ONLY.
IF UNKNOWN, USE SYMBOL "X", FOLLOWED BY APPROXIMATE YEAR.
* IF O. M. USE SYMBOL "G", IF W. O. "W", IF UNKNOWN "X".

IF MORE THAN ONE LOCATION CAN BE INCLUDED
ON CHECK, SHOW NAME OF LOCATION IN COLUMN
HEADED "UNIT COST"

1959

COMPLETE WITH INSTRUCTIONS IN SUPPLEMENT
TO REPORT FORM LTRN NO. 109, DATED FEB. 23,
1957, RELATING TO AN EXPLANATION OF THE
DIFFERENCE BETWEEN PRINTED AND ACTUAL
BALANCE. IF THE ACTUAL BALANCE AGREES
WITH THAT ESTIMATED, NO MARK.

PACIFIC GAS AND ELECTRIC COMPANY

OFFICE AT Coyote, CALIF DATE

TO BITUMINOUS PRODUCTS & APPLICATION CO., INC
 ADDRESS 8th AND WRIGHT STS
 RICHMOND, CALIFORNIA

DR INV 18.3
 DATE 9/2 /56
 YOUR ORDER No
 7F 14302
 OUR JOB No 1017
 TERMS NET CASH

SOLD TO: Pacific Gas & Electric Co Auditing Department 245 Market St San Francisco, Calif					
	For framing to P G SF Specs				
18 Pcs	30" Pipe	Unloading 550'	\$ 07 ft	38 50	
		Remove old coating	33 ft	181 50	
		Processing	83 ft	456 50	
		Stock Pile & Load out	12 ft	66 00	
				<u>\$ 742 50</u>	
		3% Sales tax on \$456 50		13 70	
		Code 019091		<u>\$ 756 20</u>	
		Code 006022	4 00		
		Siobhl			
	Vo cher 159038				

MADP05395367

SB GT&S 0225140

PACIFIC GAS AND ELECTRIC COMPANY

MANAGER'S COPY

DITUMINOUS PRODUCTS & APPLICATION CO.
8TH & WRIGHT ST.,
RICHMOND, CALIFORNIA.

DATE	PREFIX	NUMBER
10/4/56	7 R	18302

HOLD FOR SHIPPING INSTRUCTIONS

AS NOTED

QUANTITY	DESCRIPTION	P. O. AND E. MATERIAL NO.	PRICES QUOTED
550 FT.	UNLOAD AND STOCKPILE, REMOVE OLD COATING, PROCESS, STOCKPILE AND LOAD OUT PER PAGE SPEC. BP-57 AND YOUR QUOTATION LETTER OF 9/12/56 APPROX. PIPE - 30" O.D. D.W. .375 WALL. (UNLOAD & STOCKPILE) (REMOVE OLD COATING) (PROCESS) (STOCKPILE & LOAD OUT) ALL PER YOUR PROPOSAL DATED 9/12/56 CONFIRMING ORDER - DO NOT DUPLICATE.		<i>Bit Tally Rec.</i> 10/9 89to 245.10 10/9 89to 241.11 486.21

ORDER NO. 29866 DATE 9/28

REMARKS FOR 34" LOOP LINES

136471

PREFIX	NUMBER	SUFFIX	LOCATION OR ITEM	ACCOUNT NUMBER	SUB-STORE
GM	130004	2			552

DIVISION NO. 70

5

ORDER FOR MATERIAL ON 7R 18301

PREFIX	NUMBER
R	18302

MA0909002358

PACIFIC GAS AND ELECTRIC COMPANY
 COMBINED SHIPPING NOTICE AND TRANSFER - GENERAL CONSTRUCTION DEPARTMENT

SLIGHT IMPROVEMENT DEC.

THE FOLLOWING MATERIAL FROM:

JOB GM 136471 (1)

AUTHORIZED BY: [REDACTED]

Coyote,

CALIF. Oct. 21 1956

WAS SHIPPED VIA Warren Transportation Company

DATE Sept. 4, 1956

TO GM 134616 (2)

C/O Bituminous Products & Application Co., Richmond,

INDICATE WHETHER OVERDRAWN OR SALVAGE OVERDRAWN SALVAGE X CALIF.

ARTICLES	MATERIAL NUMBER	QUANTITY	PRICE	AMOUNT	CREDIT ACCOUNT NUMBER	DATE
Pipe, steel, gas line, DW, 30" O.D. X .375" wall.	01999	61 ft. 8 in.		541.74	1132	1949
Originally installed on GM 98015 (1949). Salvaged on GM 136471. Reused on GM 134616 (2). Note: Salvaged pipe was hauled to Richmond (see S/R T.J. Jones #1070, by Warren Transportation Co. for wrapping. After wrapping, it was hauled to job site near Morgan Hill by Warren Trans. Co. Freight and hauling to be charged to GM 136471 (1)						
TOTAL						
			X	X		
			X	X		
			X	X		
			X	X		

ORIGINAL IDENTITY OF SALVAGE ITEMS RETURNED TO WAREHOUSE, OR TRANSFERRED, OR FOR DIFFERENT FROM ORIGINAL CHARGE, ALSO COMPOSITE UNITS.

3

CREDIT JOB NUMBER	
PREFIX	SUFFIX
GM	136471
1	

DIVISION 72

SUB STORE NUMBER

552

No. 04865

CREDIT COPY

PACIFIC GAS AND ELECTRIC COMPANY
 COMBINED SHIPPING NOTICE AND TRANSFER - GENERAL CONSTRUCTION DEPARTMENT

PLANT ACCOUNTING DEPT.

THE FOLLOWING MATERIAL FROM:

JOB GM 136471 (1)

AUTHORIZED BY

Coyote

CALIF.

Oct. 11 1956

WAS SHIPPED VIA Warren Transportation Company

DATE Sept. 4, 1956

TO GM 130004(2)

C/O Bituminous Products & Application Co., Richmond,

CALIF.

INDICATE WHETHER OVERDRAWN OR SALVAGE OVERDRAWN SALVAGE

ARTICLES	MATERIAL NUMBER	QUANTITY	PRICE	AMOUNT	CREDIT	CREDIT			
						PLANT ACCT. NUMBER	ACCOUNT NUMBER	DATE	INITIALS
Pipe, steel, gas line, DW, 30" O.D, X .375" wall.	019991	487 ft. 9 in.		6920.38		2132	9124	1956	
Originally installed on GM 98015 (1949).									
Salvaged on GM 136471.									
Reused on GM 130004(2).									
Note: Salvaged pipe was hauled to Richmond (see S/N T.J. Jones #1070, for wrapping by Warren Trans. Co. After wrapping, it was hauled to job site near Morgan Hill by West Trans. Co.									
Freight and hauling to be charged to GM 136471(1)									
ORIGINAL IDENTITY OF SALVAGE ITEMS RETURNED TO WAREHOUSE, OR TRANSFERRED, IN FORM DIFFERENT FROM ORIGINAL CHARGE. ALSO COMPOSITE UNITS.									
				TOTAL					

CREDIT COPY

MA0P05395309

3



CREDIT JOB NUMBER		
PREFIX	NUMBER	SUFFIX
GM	136471	1

DIVISION 72

SUB STORE NUMBER 552

No. 04864



DATE

August 27, 1954

PACIFIC GAS AND ELECTRIC COMPANY
ESTIMATE FOR APPROPRIATION
WORK ORDER
GAS DEPARTMENT

INDEXED

PIPE LINE OPERATIONS
DIVISION LOCAL EST. NO. 1006

NAMES OF APPLICANTS	SCHED.	DOM. TANK P.G.ES	DOM. TANK W.H.	DOM. AUTO W.H.	R.F.R.C.	DAIR	FURNACES, F. F. OR C. A. HEATERS		COMM'L & IND'L LOADS	HIGHWAY EXTENSION DATA
							TYPE	B. T. U. CAPACITY		
								NOTED SEP 23 1954 [REDACTED]		TOT. LTH. EXTENSION—FT. COMPANY ALLOWANCE—" EXCESS LINE ADVANCE REQ'D AT \$ PER FOOT } \$ EST. ANN'L REV. \$ EST'D 1-YR. REV. \$

TITLE AND LOCATION

INSTALL CONNECTIONS BETWEEN 34" LINE 300 AND BAY LINE 100.

NECESSITY FOR PROPOSED WORK AND DESCRIPTION THEREOF:

If a break occurs in one of the single line sections of the 34" line #300 north of Kettleman Station, there is only a limited amount of gas available from line storage. A shortage of supply for firm customers could result, even from a 12 hour shut down.

A partial remedy is to use a portion of the Bay Line #100 to bypass gas around a break occurring in those northern single line sections of the 34 inch line. Existing cross connections require the use of as much as 30 miles of Bay Line as a by-pass and this long length of smaller line limits the amount of extra gas that can be handled to 110 million cubic feet per day. It is proposed to add six more cross connections to decrease the length of by-pass to not over ten miles. This would increase the amount of gas which could be by-passed to 230 million cubic feet per day.

(This is Item 4 of Program for Restoration of Service Within Allowable Time Limit.)

SHOW MAX. HOURLY DEMAND ON IND'L INSTALLATIONS MAIN ON PRL. PROP'Y BY CONTRACT \$

RECOMMENDATION:

D. & C. NOS.

LOCATION & ITEM NO.	ACCOUNT NUMBER	ESTIMATE OF COST—ITEMS (FOR INVOLVED ESTIMATES GIVE SUMMARY HERE--DETAIL ON EXTRA SHEETS)	UNIT COST	AMOUNT (DOLLARS ONLY)	TOTAL (DOLLARS ONLY)
	1101	Rights of way			1,000.00
300	1106	Install crossovers			35,300.00
9100	1106R	Remove existing pipe			400.00
9900	1106R	Remove existing pipe			100.00

APPROVED BY
APPROPRIATIONS COMMITTEE
SEP 14 1954
[REDACTED]
SECRETARY

PROBABLY APPROVED
SEP 23 1954
[REDACTED]

BUDGET ITEM NO.

PLANT TO BE ABANDONED OR REPLACED:

CHECK LIST		REQ'D.	SEC'D.	TOTAL (EXCL. MAINT. & OPER.)	\$
CITY OR CO. PERMIT				OVERHEAD CONST. COST	36 CE \$ 5,900.00
HIWAY PERMIT				SUB TOTAL	\$ 42,700.00
RAILROAD PERMIT				MAINTENANCE & OPERATION	\$
OTHER PERMITS				APPROPRIATION METERS, REGULATORS, SERVICES INSTALLED	\$ 42,700.00
MACHINE TRENCH—FT.				DEDUCT SALVAGE AND/OR OTHER CREDITS	\$
PAVEMENT—SQ. FT.				NET EXPENDITURE	\$ 42,700.00
SALES	GEN. CONSTN.			TOWN OR TERRITORY AND COUNTY	
ENGINEERING	CREDIT DEPT.			Kettleman to Milpitas	
OPERATING	EXEC. ENG.			Main 100 to 300	
LAND				DIVISION	W. O. NO.
RECOMMENDED				RECOMMENDED	AUTHORIZED: [REDACTED]
APPROVED				APPROVED	V. P. AND GEN'L MGR. [REDACTED]

EXTENSION BASIS AUTHORIZED:

Temp. [REDACTED]
None
DEC 31 1954

NO-REG UC X
DEC 18 1957
JP7 H5 W.F.

GEN. OFFICE

DIV. MGR.

A.V.V.

CP-1152-10-52-100M-REV.

MA0P05306937

SB_GT&S_0225144

ESTIMATE FOR AUTHORIZATION

DATE OF ESTIMATE October 17, 1969 Crew Days 63 Local Office Gilroy
DEPARTMENT Gas DISTRICT Southern DIVISION San Jose
NAMES OF APPLICANTS P. G. & E. ESTIMATE NO. So. 64006

LOCATION Southern District COUNTY Santa Clara
JOB TITLE Work in conj. with TL 100 Abandonment
NECESSITY FOR PROPOSED WORK AND DESCRIPTION THEREOF GM 173728 approved 1/6/70
Pipe Line Operations, on Est. #k-2850, is completing the abandonment of T.L. #100 to Tennant Ave. in San Jose Division.

In conjunction with this abandonment, transfer of facilities from T.L. #100 to T.L. #300 A or B will be done on a San Jose Division G.M. (Est. #So. 64006) exclusive of main taps.

This work will necessitate the installation of 1290' of 6", 4", 3" & 2" mains, the establishing of 6 district regulator stations and the converting of 35090' of transmission main to distribution main (3 sections)

Install mains and regulation and abandon facilities all as shown on attached sketches.

RECOMMENDATION & RULE NO. Co. Expense

Table with columns: LINE EXTENSION DATA, TOTAL FEET, CO. ALLOW., EXCESS FT., PER FT. ADVANCE REQD., EST. 1 YR. REV., EXTENSION BASIS AUTHORIZED, OTHER RELATED JOB AUTHORIZATIONS (INCLUDING D & C'S), CGC LOC., ESTIMATOR C.M., REQ'D. DATE OF OPER., BUDGET ITEM NO., BUDGET AMOUNT.

Main table with columns: QUANT. NO., ACTIVITY ITEM NO., LOCATION AND/OR ITEM NO., ESTIMATE OF DIRECT COST ITEMS, UNIT AMOUNT (WHEN REQD.), FROM UNIT COST OR OTHER (LABOR, MATERIAL, OTHER), TOTAL. Includes items like 'Install 6 Valves', '115' W 6" DW HP Steel Main', etc.

Summary table with columns: QUANT TO BE REMOVED OR ABANDONED, (SHOW JOB NO., PREDECESSOR COMPANY AND PERIOD OF INSTALLATION AS APPROPRIATE), TOTAL DIRECT COST (EXCL. MAINT. & OPER.), INDIRECT COSTS (EXCL. MAINT. & OPER.), SUB-TOTAL, GEN. OVERHEADS 6%, APPROPRIATION (EXCL. MAINT. & OPER.), MAINTENANCE & OPER., AMOUNT AUTHORIZED, INSTALL AND/OR REMOVE REVOLVING STOCK (NET), INSTALL AND/OR REMOVE SERVICES, DEDUCT SALVAGE AND/OR OTHER CREDITS, NET AMOUNT.

Check List and Progress Report Codes table. Includes columns for CHECK LIST, REQ'D., SEC'D., PROGRESS REPORT CODES (ACCT'G. ONLY), and AUTHORIZATION.

STRENGTH TEST PRESSURE REPORT
(FOR PIPE FACILITIES OPERATING OVER 100 PSIG)

PART I - DESIGN DATA - (TO BE PREPARED BY PROJECT ENGINEER OR GAS SYSTEM DESIGN DEPT.)

DIST. MAIN OR LINE NO. 300-A	DIVISION PLO	DISTRICT Hollister	W.O. OR G.M. NO. GM 191176	DATE APPROVED
--	------------------------	------------------------------	--------------------------------------	---------------

DESCRIPTION OF JOB - INCLUDE REFERENCE DRAWING NUMBERS
Hydrostatic Test 30" Crossover Between MLV 475.76A and MLV 476.27B, Lines 300 A & B

LOCATION CLASS III	DESIGN FACTOR (F) .50	FREQUENCY MAP OF LINE (PSIG) 631	DESIGN PRESSURE - THIS SECTION 715	PLANNED FUTURE MAP 715
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SPECIAL PROTECTION REQUIRED WHERE COVER OVER PIPE IS LESS THAN SPECIFIED IN PAR. 192.327 - G.O. 112 - SEE PAR. 141.2(B) GIVE M.P. & REF. DWG. NO. FOR EACH LOCATION.

STATIC HEAD DUE TO ELEVATION DIFFERENCE (WHERE APPLICABLE)	MAX. ELEVATION 445 FT. MIN. ELEVATION 380 FT. DIFF. 65 FT.	STATIC HEAD CALCULATION FOR WATER 0.433 X DIFF. 65 OTHER (SPECIFY) _____ X DIFF. 28.15 PSIG
--	---	---

PIPE SIZE		PIPE SPECIFICATION			% OF S.M.Y.S.			PRESS. TO GIVE 90% SMYS	FOOTAGE TO BE TESTED	VERIFIED IN FIELD	
O.D.	W.T.	API GR.	ERW	DSAW	SEAMLESS	AT DESIGN PRESS.	AT MIN. TEST PRESS.				AT MAX. TEST PRESS.
30	0.375	API 5LX GR X42	ERW			68.1	92.0	98	945	504'	B.D.H.
20	0.500	API 5LX GR X42	DSA			34.05	46.0	49.0	1890	25'	B.D.H.
12.750	0.375	API 5LX GR X42	ERW			28.94	39.1278	41.65	2224.2965	8'101'	B.D.H.

MINIMUM PRESSURE FOR TEST ① 966 PSIG	TEST FLUID TO BE USED Water	MINIMUM TEST DURATION UNDER 30% SMYS (1 HR. MIN) 30% SMYS & OVER (8 HR. MIN) PREINSTALLATION TEST (SEE 192.805(E) GO 112)	8 HRS.
MAXIMUM PERMISSIBLE TEST PRESSURE ② 1,029 PSIG			

PREPARED BY: [REDACTED] DATE: **12-14-79** FOR INFORMATION OR CHANGES, CALL [REDACTED] APPROVED BY: **[Signature]**

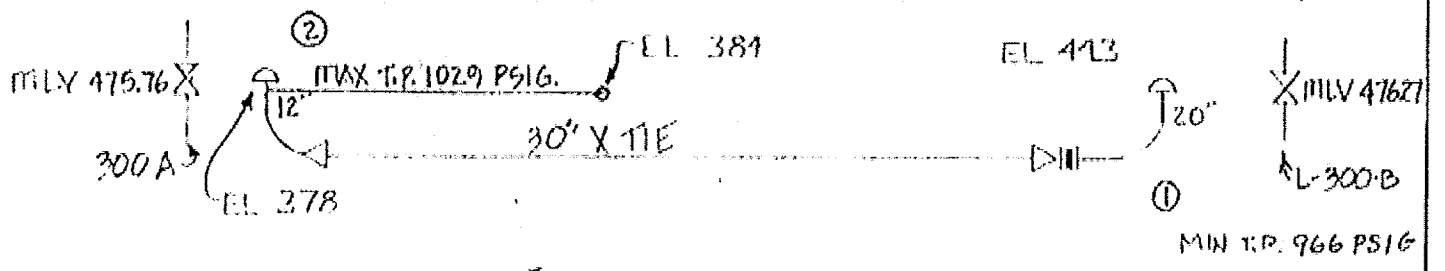
PART II - TEST DATA - (TO BE PREPARED BY PERSON SUPERVISING TEST AT TIME OF TEST.) NOTE: MINIMUM TEST PRESSURE AND DURATION ARE NOT TO BE CHANGED WITHOUT WRITTEN APPROVAL.

* TIME AND DATE REACHED TEST PRESSURE 2:20 PM 4-30-80	ELEVATION AT TEST POINT 381 FT.	INDICATED TEST PRESSURE 1001 PSIG.
TIME AND DATE TEST ENDED 10:40 PM 4-30-80	MAX. ELEVATION IN TEST SECTION 443 FT.	MINIMUM TEST PRESSURE 975.5 PSIG.
ACTUAL DURATION OF TEST 8 HRS. 20 MIN.	MIN. ELEVATION IN TEST SECTION 378 FT.	MAXIMUM TEST PRESSURE 1003.6 PSIG.

TEST FLUID USED WATER	PIPE SPEC. VERIFIED (SEE PART I) B.D.H.	PIPE FOOTAGE VERIFIED (SEE PART I) B.D.H.
MAKE, RANGE & SERIAL NO. OF RECORDING GAUGE MERCURY 0-2000 CP 240592	DATE LAST CALIBRATION 4-7-80	MAKE, RANGE & SERIAL NO. OF DEAD WEIGHT TESTER CHANDLER ENGINE 0-2000 SER. 10696

TEST SUPERVISED BY: [REDACTED] APPROVED BY: [REDACTED] DATE: **4-30-80**

SCHEMATIC SKETCH, SHOW LOCATION OF FACILITY TESTED, MIN. & MAX. ELEVATION IN FEET, MILE POINTS OR ENGINEERING STATIONS AND INCORPORATED AREAS. USE SPACE BELOW (SHOW REFERENCE DRAWING NUMBERS) USE BACK OR AN ADDITIONAL SHEET IF NECESSARY (SHOW REFERENCE NUMBERS ON FACE OF ALL DRAWINGS AND ATTACHMENTS)

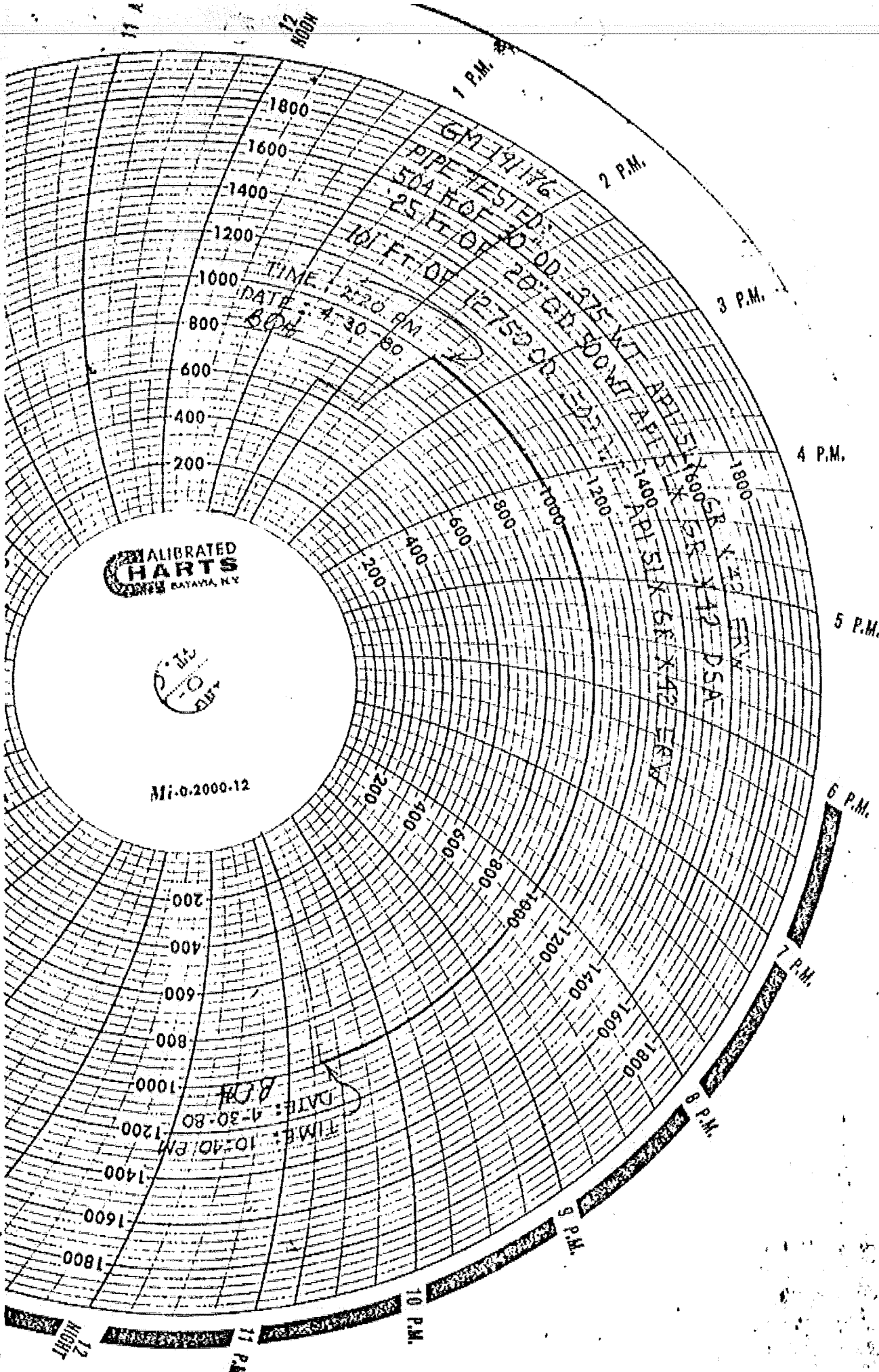


DISTRIBUTION
DIST. GAS SUPT. JOB FILE
DIV. GAS SUPT.
GC GAS-ASSIGNED JOBS
GAS SYSTEM DESIGN (2)
PLANT ACCTG. (WITH FOREMAN'S COPY OF JOB)
PIPELINE HISTORY FILE
REPORT FAILURES UNDER TEST TO GAS SYSTEM DESIGN AND GAS DISTRIBUTION DEPT'S.

STRENGTH TEST INFORMATION

1. JOB GM 171176
2. LOCATION CROSSOVER BETWEEN R.V. 475.76 A & MLV 476.27 B LINES
3. DATE 4-30-80 PRESSURE 1001 PSIG 300 A & B
4. TIME 2:20 PM TO 10:40 PM DURATION 8 HRS 20 MIN
5. LENGTH SEE BELOW SIZE W.T.
6. PIPE SPEC. SEE BELDGD.
7. RECORDING GAUGE MERCURY SER. CP 240547
8. RANGE 0-2000 LAST CALIBRATED 4-1-80
9. DEAD WGT. CHANDLER ENGINEER 10636
0. RANGE 0-2000 LAST CALIBRATED 4-1-80
1. TEST FLUID WATER
2. SUPERVISED [REDACTED] DATE 4-30-80
3. APPROVED [REDACTED] DATE 4-30-80

TEST: 504 FT. OF 30" O.D. 0.375 WT. API SLX GR X42 ERW
22 FT. OF 20" O.D. 0.500 WT. API SLX GR X42 DSA
101 FT. OF 12" I.D. O.D. 0.500 WT. API SLX GR X42 ERW

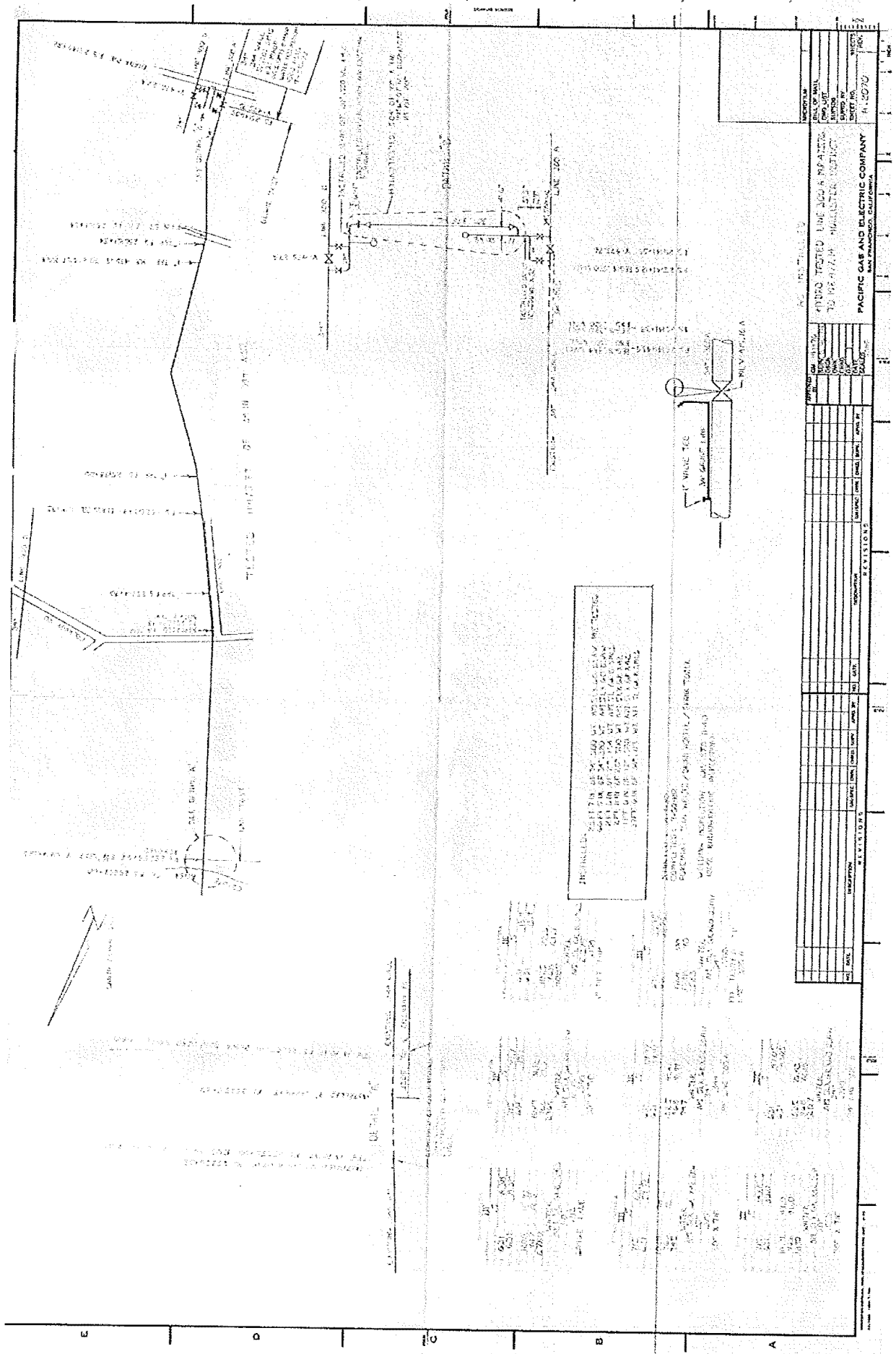


CALIBRATED
CHARTS
 MIAMI BEACH, FLA.

MI-0-2000-12

TIME: 2:30 AM
 DATE: 4-30-80
 101 FT OF 12.752 CR
 175 MT
 500 MT
 20 FT
 1400
 1600
 1800

TIME: 10:40 PM
 DATE: 4-30-80
 8 PM



PROJECT NO. 100-100-100
 SHEET NO. 100-100-100
 DRAWN BY [unclear]
 CHECKED BY [unclear]
 DATE 11/15/50

APPROVED FOR THE WORKER
 TO BE IN THE WORKER'S INTEREST

PACIFIC GAS AND ELECTRIC COMPANY
 SAN FRANCISCO, CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION
1	11/15/50	[unclear]
2	11/15/50	[unclear]
3	11/15/50	[unclear]
4	11/15/50	[unclear]
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100	11/15/50	[unclear]

The State of California Highway Department is widening the present Bayshore Highway in North Palo Alto, between Balmar Avenue and San Francisquito Creek; also, a cloverleaf is to be constructed at University Avenue. This will be a part of the Bayshore Freeway and in accordance with plans previously submitted, it will be necessary to re-route the 20" transmission main #101, and various distribution mains.

Due to this highway project, it will be necessary to abandon and relocate the existing 2" and 3" distribution mains at various locations. The distribution main crossing the Freeway, although not required by State, are to be encased at Company expense for betterment of system.

The existing 20" transmission main #101 now crosses diagonally under the old highway and is in conflict with the new widening plans. It is therefore proposed to install a 20" main on the north side of the Freeway in the service road area, with a 90° angle crossing in the vicinity of Lincoln Street. The new transmission main is to be encased with a 30" pipe where it crosses the Bayshore Freeway. Approximately 890' of existing 20" transmission main is to be removed and reconditioned.

It will also be necessary to offset the 20" transmission and 3" distribution mains on Donohoe Street at University and Capitol Avenue, due to proposed 18" and 24" R&P storm drains.

State Highway Department has issued Notice to Relocate Facilities #306.1, letter dated 1/30/56.

- 0 -

CPC:fdt

CY JMM

KVJ

(G n G.)

THIS FORM TO BE USED FOR DETAIL OF UNIT IN D AND PLANT R R DOWN FAC O D DON FACE OF TIME S N U F GENT

G M AND WORK ORDER ESTIMATE DETAIL SHEET

SHEET NO 1 (1.1 C)

LOCAL EST No 11 3485

LOCATION AND ITEM NO	ACCT NO	STATE OF CALIFORNIA & PG&E COMPANY UNIVERSITY AVENUE, NO PALO ALTO DETAIL	FOR PLANT TO BE INSTALLED		
			UNIT COST	AMOUNT (DOLLARS ONLY)	TOTAL
			FOR PLANT TO BE RETIRED INSTALLATION DATA (REFER TO A D Y N G D P C L)		
			JOB NO	PREDECESSOR COMPANY	PERIOD OF INSTALLATION
<u>TRANSMISSION MAINS - LO. PALO ALTO-SUB</u>					
1101	1124	930' of 20" DI (HP) steel transmission main Labor installing Sand backfill	7.50 7.50	6,975 6,975 1,225	15,175
2101	1124	155 30" casing (labor to install 1 - 2" vent installed		3,150 100	3,250
3101	1121	Labor & material to install 2 offsets in 20" main (University & Cooley Avenues)		4,100	4,100
4101	1124	Labor & material to make shut down and loss of gas blown to atmosphere	40 - 94,000 ⁰⁰ 3,111	2,000	2,000
5101	1124-R	Labor & material to remove & recondition 890' of existing 20" transmission main (sand backfill included)	4.50	4,005	4,005
6101	1124	Labor & material to abandon 256' of old 24" casing		100	100
<u>DISTRIBUTION MAINS - NORTH PALO ALTO-TURN</u>					
1006	1224	2665' of 20" DI (HP) steel main Labor installing 18 - 2" P.C.F.	.45 1.75	1,619 6,411 396	8,268
2006	1224	945' of 3" DI (HP) steel main Labor installing 2 - 3" P.C.F.	.75 .75 2.00	709 709 1,090 81	2,682
3006	1224	Labor & material to install 220' of 6" casing with vent (on re 2" main, COMPANY EXP)		990	990
4006	1224	Labor & material to install 155' of 6" casing with vent (on new 3" main) COMPANY EXP		775	775
56	1224-R	Labor & material to abandon 4435' - 2" (HP) main 760' - 3" (HP) main 260' - 4 1/2" casing 124' - 3" casing 4' - 2" P.C.F.		220	220
6	1228	Labor & material to install 57 sections	25.00	1,425	1,425
30	1628	Labor & material to install 1 section	1.00	1.00	1.00

MA-0905377974

