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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	Construction Drawing: 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	"Job Facesheet" 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	Posting check list	This is a check off list for the mapping department when processing job documents.	109
4	5/7/57	"Job Facesheet" 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	"Job Facesheet" 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	Credit Requisition 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	Plant Abandoned, Destroyed or Removed from Service 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	Credit Requisition 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	Combined Shipping Notice and Transfer 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. *See* 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	Partial Receiving Record 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	"Haul Tag" 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	G.M. Assignment Letter 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	Requisition on Storekeeper 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	Credit Requisition 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	Combined Shipping Notice and Transfer 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	Partial Receiving Record 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	Combined Shipping Notice and Transfer 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	"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	Shipping Notice 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	"Job Story" 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	"Job Facesheet" 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	"Job Facesheet" 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	"Job Facesheet" 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	G.M and Work Order Estimate Detail Sheet 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. *See* comments for Document 25.	109 132
27	10/27/54	Shipping Notice 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	Shipping Notice 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	Shipping Notice 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.	Shipping Notice: This is Sheet 2 of a shipping notice showing shipment of salvaged or overdrawn pipe from multiple jobs	This document reflects shipment away 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	Shipping Notice 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.e.*, disposed of as scrap).	131
32	3/9/55	Shipping Notice 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.e.*, disposed of as scrap).	131
33	3/10/55	Shipping Notice 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.e.*, disposed of as scrap).	131
34A	This is the same as Document 41			
35	No Date	Shipping Notice 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.e.*, disposed of as scrap).	131
36	3/10/55	Shipping Notice 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.e.*, disposed of as scrap).	131

No.	Date	Description	Comments	Line No.
37	1/27/54	Combined Shipping Notice and Construction Journal Voucher 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	Combined Shipping Notice and Construction Journal Voucher 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	Combined Shipping Notice and Construction Journal Voucher 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]	Plant Abandoned, Destroyed or Removed from Service 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	Plant Abandoned, Destroyed or Removed from Service 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	Combined Shipping Notice and Transfer 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	Combined Shipping Notice and Transfer 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	Combined Shipping Notice and Transfer 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	Shipping Notice 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	Combined Shipping Notice and Construction Journal Voucher 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	Plant Abandoned, Destroyed or Removed from Service records 41' of 30" pipe junked and 319' of 30" pipe abandoned.	The document states the pipe was junked (*i.e.*, 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.	The salvaged pipe reused from this job has been hydro tested. 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. 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. 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	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	GM Cost Report: 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	Combined Shipping Notice and Transfer 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	General Construction Department Material Procurement Order 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	Credit Requisition 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	Credit Requisition 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	Credit Requisition 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	Combined Shipping Notice and Transfer 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	Credit Requisition 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	Credit Requisition 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	Credit Requisition 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	Credit Requisition 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	Requisition 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. *See* comments for Document 53.	132
70	This is the same as Document 53			
71	3/4/49	Shipping Notice 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	Shipping Notice 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	Combined Shipping Notice and Construction Journal Voucher 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	Combined Shipping Notice and Construction Journal Voucher 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. *See* 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	Radiograph Log	All marked "O.K." except the one with the notation "crack," indicating that one was not accepted without repair.	132
77	9/29/48	Radiograph Log	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	Radiograph Log	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	Radiograph Log	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	Radiograph Log 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		Radiograph Log	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	Radiograph Log	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	Radiograph Log 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	Construction Drawing: 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	"Job Facesheet" 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	Posting check list	This is a check off list for the mapping department when processing job documents.	109
4	5/7/57	"Job Facesheet" 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	"Job Facesheet" 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	Credit Requisition 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	Plant Abandoned, Destroyed or Removed from Service 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	Credit Requisition 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	Combined Shipping Notice and Transfer 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. *See* 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	Partial Receiving Record 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	"Haul Tag" 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	G.M. Assignment Letter 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	Requisition on Storekeeper 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	Credit Requisition 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	Combined Shipping Notice and Transfer 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	Partial Receiving Record 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	Combined Shipping Notice and Transfer 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" pipe.	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	Shipping Notice 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	"Job Story" 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	"Job Facesheet" 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	"Job Facesheet" 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	"Job Facesheet" showing a credit to this job for salvage of 21038' of 22" pipe and 18768' of 30" pipe.	~~205~~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 foot difference is attributable to measurement or fittings on the pipe. 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. 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	G.M and Work Order Estimate Detail Sheet 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.	~~205~~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. *See* comments for Document 25.	109 132
27	10/27/54	Shipping Notice 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	Shipping Notice 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	Shipping Notice 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.	Shipping Notice: This is Sheet 2 of a shipping notice showing shipment of salvaged or overdrawn pipe from multiple jobs	This document reflects shipment away 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	Shipping Notice 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.e.*, disposed of as scrap).	131
32	3/9/55	Shipping Notice 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.e.*, disposed of as scrap).	131
33	3/10/55	Shipping Notice 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.e.*, disposed of as scrap).	131
34A	This is the same as Document 41			
35	No Date	Shipping Notice 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.e.*, disposed of as scrap).	131
36	3/10/55	Shipping Notice 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.e.*, disposed of as scrap).	131

No.	Date	Description	Comments	Line No.
37	1/27/54	Combined Shipping Notice and Construction Journal Voucher 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	Combined Shipping Notice and Construction Journal Voucher 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	Combined Shipping Notice and Construction Journal Voucher 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]	Plant Abandoned, Destroyed or Removed from Service 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	Plant Abandoned, Destroyed or Removed from Service 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	Combined Shipping Notice and Transfer 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 ~~1970.~~connection with Document 53.	132
43	10/11/56	Combined Shipping Notice and Transfer 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 ~~1970.~~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	Combined Shipping Notice and Transfer 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	Shipping Notice 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	Combined Shipping Notice and Construction Journal Voucher 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
52A	12/54	Plant Abandoned, Destroyed or Removed from Service records 41' of 30" pipe junked and 319' of 30" pipe abandoned.	The document states the pipe was junked (*i.e.*, disposed of as scrap) or abandoned, not salvaged and reused.	132

No.	Date	Description	Comments	Line No.
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.	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.~~from this job has been hydro tested. 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. 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. 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,	132

No.	Date	Description	Comments	Line No.
			MAOP11028697, and MAOP11028387 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	GM Cost Report: 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	Combined Shipping Notice and Transfer 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	General Construction Department Material Procurement Order 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	Credit Requisition 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

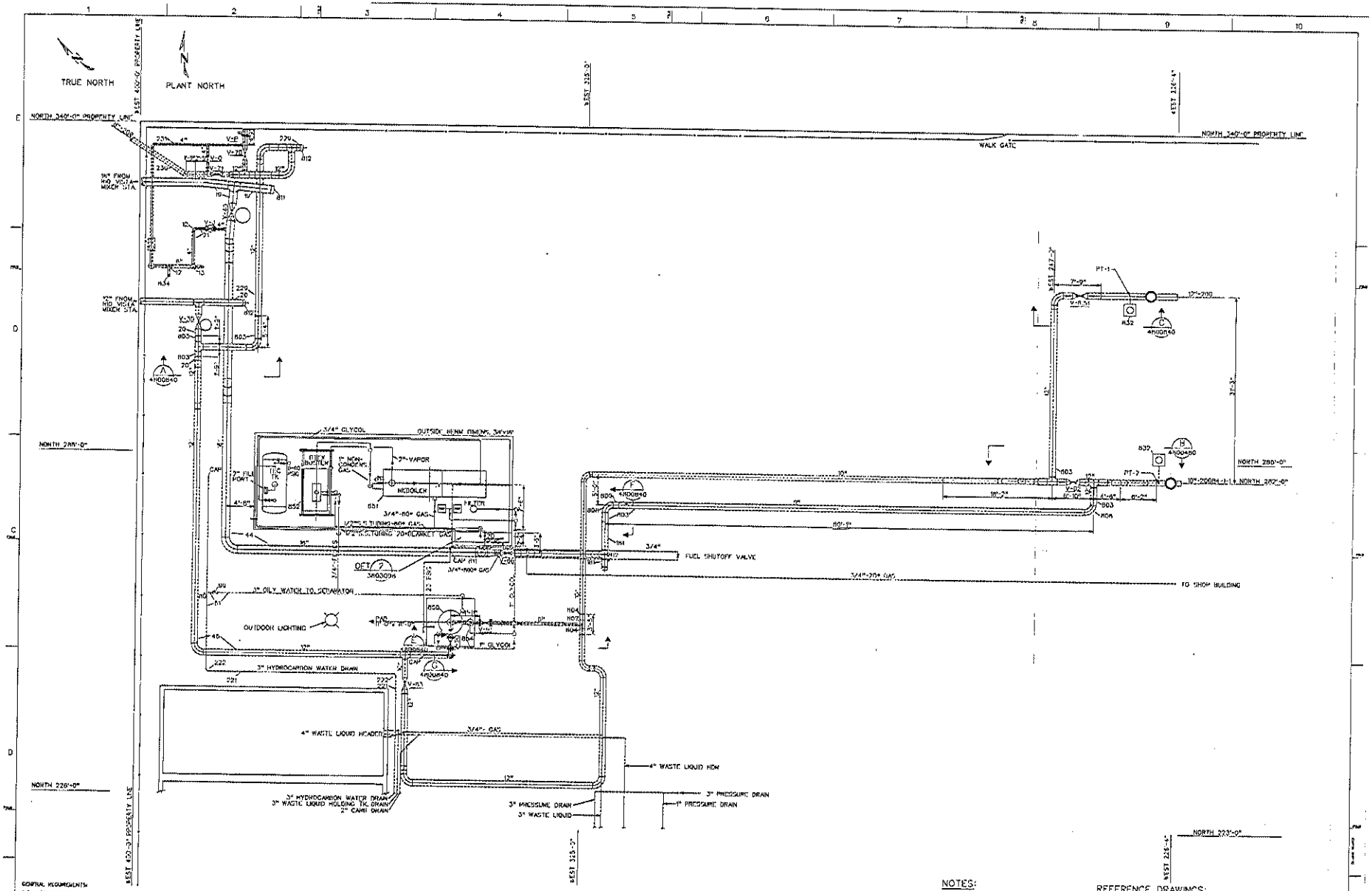
No.	Date	Description	Comments	Line No.
59	9/24/56	Credit Requisition form to list articles that "have been returned to the warehouse or abandoned in place." This shows return to the warehouse of 13' of 30" pipe originally installed in 1949, and salvaged from Crestmoor Park, San Bruno.	The document reflects 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	Credit Requisition 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	Combined Shipping Notice and Transfer 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	Credit Requisition 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	Credit Requisition 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	Credit Requisition 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	Credit Requisition 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	Requisition 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. *See* comments for Document 53.	132
70	This is the same as Document 53			
71	3/4/49	Shipping Notice 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	Shipping Notice 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	Combined Shipping Notice and Construction Journal Voucher 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	Combined Shipping Notice and Construction Journal Voucher 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. *See* 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	Radiograph Log	All marked "O.K." except the one with the notation "crack," indicating that one was not accepted without repair.	132
77	9/29/48	Radiograph Log	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	Radiograph Log	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	Radiograph Log	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	Radiograph Log 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		Radiograph Log	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	Radiograph Log	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	Radiograph Log 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



GENERAL REQUIREMENTS:

1. CALL USA (811) AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION.
2. LOCATION OF EXISTING SUBSTRUCTURES ARE APPROXIMATE. BEFORE POWER OR HEAVY EQUIPMENT IS USED FOR EXCAVATION, THE EXACT DEPTH AND LOCATION OF SUBSTRUCTURES SHALL FIRST BE DETERMINED BY HAND EXCAVATION, IF NECESSARY.
3. ALL BENDS ARE SMOOTH FIELD BENDS EXCEPT WHERE ELBOWS ARE NOTED. FIELD BEND SHALL BE MADE IN ACCORDANCE WITH GAS STANDARD A-30 SECTION 4.D.1.
4. ALL ANGLES SHOWN IN THE PLAN AND PROFILE ARE APPROXIMATE AND SHALL BE CUT TO SUIT FIELD CONDITIONS.
5. TYPE PIPELINE MUST BE INSTALLED WITH AT LEAST 12 INCHES OF CLEARANCE FROM ANY OTHER UNDERGROUND STRUCTURE NOT ASSOCIATED WITH THE PIPELINE.

COATING REMOVAL:

1. BEFORE NONCONFORMING PIPE COATING ON PRE-1972 PIPE (DOES NOT INCLUDE PLASTIC TAPE OR FUSION BONDED EPOXY COATINGS) THE FOLLOWING STEPS SHALL BE TAKEN:
   - FOR ALL NON-EMERGENCY WORK, PRE-1972 PIPE WRAP MUST BE EVALUATED TO DETERMINE IF IT CONTAINS ASBESTOS PRIOR TO REMOVAL.
   - FOR EMERGENCY WORK ON PRE-1972 PIPE, ASSUME THE WRAP CONTAINS > 1% ASBESTOS UNTIL THE WRAP CAN BE TESTED.
   - OBTAIN SAMPLES OF THE WRAP, AND HAVE SAMPLES TESTED FOR ASBESTOS IN ACCORDANCE WITH PP 4731.
   - TEST RESULTS ARE TO BE INCLUDED WITH AS-BUILTS.
   - FOLLOW PROCEDURE IN PP 4731 FOR REMOVAL OF PIPE WRAP.

WELDING REQUIREMENTS

ALL ARC WELDING IS TO BE PERFORMED IN ACCORDANCE WITH GAS STANDARD D-72.

WHEN VALVES AND FITTINGS ARE WELDED TO EACH OTHER OR TO PIPE, THE JOINT SHALL HAVE A TWO PASS WELD ON THE INSIDE, IN ADDITION TO THE OUTSIDE WELD. THIS REQUIREMENT APPLIES TO ALL WELDS 16" DIAMETER & LARGER AND TO SMALLER DIAMETERS WHEN PRACTICAL.

HYDROSTATIC TEST REQUIREMENTS

HYDROSTATIC TESTING SHALL MEET PRESSURE AND DURATION REQUIREMENTS OF GAS STANDARD A-34, AND SHALL BE CONDUCTED IN ACCORDANCE WITH GAS STANDARD A-37.

PAINTING AND COATING REQUIREMENTS

ALL EXPOSED PIPE AND FITTINGS ARE TO BE PAINTED IN ACCORDANCE WITH GAS STANDARD K-30.

ALL COATING ON BURIED PIPE AND FITTINGS ARE TO BE APPLIED IN ACCORDANCE WITH GAS STANDARD K-35.

FOR COATING SELECTIONS ON BURIED PIPE SEE DIRECT BURIAL SELECTIONS TABLE.

DIRECT BURIAL SELECTIONS	
MAIN LINE COATING:	FBE
TIE-IN WELDS:	FBE, POLY OR PROTA. 7200
GIRTH WELD COATING:	FBE, POLY OR PROTA. 7200
FITTING COATING:	FBE, POLY OR PROTA. 7200
MINOR REPAIRS:	FBE, MELT STICK
TRANSITION ZONES:	FBE

CALL BEFORE YOU DIG 811 UNDERGROUND SERVICE ALERT

DESIGN & CONSTRUCTION REVIEW FOR INTERNAL CORROSION

	ACTION SELECTED	INITIAL	DATE
CORROSION ENGINEER HAS REVIEWED THE LOCATION AND THEIR IS NO KNOWN THREAT OF INTERNAL CORROSION. NO INTERNAL CORROSION DESIGN OR CONSTRUCTION CONSIDERATIONS ARE NECESSARY.	———	———	———
INTERNAL CORROSION MAY BE A THREAT AND THE CONSTRUCTION DESIGNS HAVE BEEN REVIEWED WITH CORROSION ENGINEERING. DOCUMENTATION OF THIS REVIEW AND ACTIONS TAKEN ARE IN THE WORK PACKAGE AND INCORPORATED IN THIS DESIGN.	LIQUID REMOVAL EQUIPMENT FOR GAS WITH PRODUCTION AS SHOWN	DAVE AGNAR	3-12-09

NOTES:

1. FIELD TO INSTALL SAVE-A-VALVES WITHIN 100 FT OF EACH TIE-IN, IF DONE COLD
2. ALL BILL OF MATERIAL ITEM NOS. 801 AND ABOVE, LISTED ON DWG 4900840, WERE ADDED UNDER CM 30965197.

REFERENCE DRAWINGS:

4900840	PIPING-SECTIONS & DETAILS
4M4376	PIPING-PLAN, AREA 1
4M4378	PIPING-SECTIONS & DETAILS, AREA 1
4M3101	PIPING-PLAN, AREA 2
4M3414	PIPING-SECTIONS & DETAILS, AREA 2
4M3121	PIPING-PLAN, AREA 3
4M3101	PIPING-PLAN, AREA 8
4M4520 SHT 1 & 2	PIPING-SECTIONS & DETAILS, AREA 8
4M3109	PIPING-PLAN, AREA 9
4M3110	PIPING-SECTIONS & DETAILS, AREA 9
4M6867	PIPING-SECTIONS & DETAILS, AREA 9
3M4470	PLOT PLAN
3M4479	AREA PLAN
3M3178	STRUCTURE-PLAN & SECTIONS
3M4450	CONDUIT-PLAN, LIGHTING & CONDUIT OUTDOOR
3M3178	OPERATING DIAGRAM
3M3043	FOUND. ANHANG. GAS PROCESS. EQUIP.
3M3644	PIPING & INSTRUMENTATION - DIAGRAM, DEHYDRATOR

NOTIFIED U.S.A.

WORK TITLED FOR CONSTRUCTION REVISION OF THIS DRAWING STAMPED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER

REVISION NO.	DESCRIPTION	DRAWN	CHKD	SUPV	APPD BY	DATE
1	ADDED NOTE 2 AND REVISED CONSTRUCTION PER CM 30965197	DM	JM			3-12-09

PIPING - PLAN
MAIN GAS
SERPA JUNCTION
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

4800839 3

30665197_DRW- Pipe_ 4800839

#75-27
4-2-62R

file

cc: G.S.D. Dec. 12/1/64

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

Date Nov 23, 1964

Job No. GU 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	22"	.3125	API 5LX X42

(b) Design Operating Pressure, maximum 400 psig
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 28,980 psi; as % of yield 69
39,900 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 930 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 in to 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 [redacted]
(h) Who made test? P G & E

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

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.

MA0P16002731

#75-27R
(7-17-64)

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

Date October 9, 1964

Job No. [redacted]

1. Project Description: Relocation of 30" main 132 and 22" 109 with 36" and 30" pipeline

Hydrostatic test 132 #4 of 30" x .03125 wall pipe 1000' south of section 2

2. Pipeline Data:

		Size	Wall Thickness	Pipe Specifications
(a)	Mainline	30"	.3125"	API 5LX-X42
		36"	.375"	API 5LX-X52

(b) Design Operating Pressure, maximum 400 psig
psig

(c) Stress at Max. D.O.P. 19,200 psi; as % of yield 46
16,000 " " " " 38

(d) Location class 3 Type construction C
" "

(e) Test Pressure 600 min. psig; fluid water
830 max psig; fluid

(f) Stress at Test Pressure 28,800 psi; as % of yield 69
40,000 psi; as % of yield 95

(g) Period of Test (See Instruction 3) Held test pressure 1 hr, drop 200 psig, return to test pressure 2 hrs., final hour with no pressure drop

3. Test Data

(a) Date and time started test 10-11-64 11:00 AM, fluid used natural nitrogen
(b) Date and time reached test pressure 10-11-64 11:15 AM
(c) Date and time concluded test 10-11-64 1:15 PM, actual test pressure 855 psi
(d) Date and time Purging started 10-14-64 2:30 PM, concluded 10-14-64 3:30 PM
(e) Date and time Pipeline tied into System 10-15-64 8:30 AM
(f) Date and time Pipeline placed in Operation 10-15-64 10:00 AM
(g) Name of PG&E Supervisor conducting test [redacted]
(h) Who made test? P G & E

General Construction Department GAS
Division - SAN JOSE
Contractor (Indicate Name) - KONE

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. 112A.

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 Gas System Design Department.

#75-27
4-2-62R
9751

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

Date October 9, 1964

Job No. [redacted]

1. Project Description: Relocation of 30" main 133 and 34" 109 with 24" and 30" pipeline

Hydrostatic test 12,280 ft of 30" pipe section 2

2. Pipeline Data:

		Size	Wall Thickness	Pipe Specifications
(a)	Mainline	30"	.312"	API 5LX-X42
		30"	.375"	API 5LX-X52

(b) Design Operating Pressure, maximum 400 psig

psig

(c) Stress at Max. D.O.P. 36,200 psi; as % of yield 86

46,000 " " " " 91

(d) Location class 2 Type construction C

" "

(e) Test Pressure 600 min psig; fluid water

830 max psig; "

(f) Stress at Test Pressure 38,800 psi; as % of yield 92

40,000 psi; " " " " 95

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

3. Test Data

(a) Date and time started test 10/28/64 8:45 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 8:45 PM, actual test pressure 806 psi

(d) Date and time Purging started 10/30/64 1:00 PM concluded 10/30/64 4:00 PM

(e) Date and time Pipeline tied into System 11/3/64 2:55 PM

(f) Date and time Pipeline placed in Operation 11/4/64 2:30 PM

(g) Name of PG&E Supervisor conducting test [redacted]

(h) Who made test? P.G.&E.

(i) Actual test pressure at high point 752 psi

(j) " " " " low " 833 psi

General Construction Department Gas

Division - San Francisco & San Jose

Contractor (Indicate Name) - Cahill Corp

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.

Binder 2 _ Page _ 181

MTS-27
4-2-62R

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

Date October 9, 1964

Job No. GM 199638

1. Project Description: Relocation of 30" main 135 and 22" 109 with 36" and 30" pipeline

Hydrostatic test 2086 ft of 30" pipe, section 12

2. Pipeline Data:

	Size	Wall Thickness	Pipe Specifications
(a) Mainline	30"	.1125	API 5LX-X42
	30"	.375	API 5LX-X52

(b) Design Operating Pressure, maximum 400 psig

(c) Stress at Max. D.O.P. 19,200 psig; as % of yield 46
16,000 " " " " 31

(d) Location class 1 Type construction C
" "

(e) Test Pressure 600 min psig; fluid water
930 max psig; "

(f) Stress at Test Pressure 28,800 psi; as % of yield 69
40,000 psi; " " " " 95

(g) Period of Test (See Instruction 3) Held 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 11/20/64 11:24 AM, fluid used water
(b) Date and time reached test pressure 11/20/64 4:04 PM
(c) Date and time concluded test 11/20/64 8:00 PM, actual test pressure 735 PSI Test
(d) Date and time Purging started 11/21/64 4:30 PM, concluded 11/21/64 8:30 PM psi
(e) Date and time Pipeline tied into System 11/22/64 8:25 PM
(f) Date and time Pipeline placed in Operation 11/22/64 8:25 PM
(g) Name of PG&E Supervisor conducting test [redacted]
(h) Who made test? P.G.&E.
(i) Actual test pressure at high point 735 psi
(j) " " " low " 880 psi

General Construction Department Gas
Division - San Jose
Contractor (Indicate Name) - Cahill Bros.

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.

#T5-27B 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 T.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
✓ 30"	.312	API 5L X52	888

(c) Period of Test (Not less than 1 hour after stabilizing of pressure) 7½ 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 1000 P.S.I.

(c) Name of PG&E Supervisor conducting test [redacted]

(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).

Binder 4 Page 020

62-4921 REV. 1-75

P G AND E
GAS OPERATIONS
STRENGTH TEST PRESSURE REPORT
(FOR PIPE FACILITIES OPERATING OVER 100 PSIG)

(USE IN ACCORDANCE WITH GAS STD. A-34 AND GO 112)

SHEET 1 OF 4

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

MAIN OR LINE NO.	DIVISION	DISTRICT	W.O. OR G.M. NO.	DATE APPROVED
L-107	P.L.O.	Hollister	G.M. 186632	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	DESIGN FACTOR (F)	PRESENT MAOP OF LINE (PSIG)	DESIGN PRESSURE - THIS SECTION	PLANNED FUTURE MAOP
III	0.5 *	477 #	477 #	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) 0.433 X DIFF. = 8.7 PSIG
OTHER (SPECIFY) _____ X DIFF. _____

PIPE SIZE O.D.	PIPE SIZE W.T.	PIPE SPECIFICATION API, GR, ERW, DSAW, SEAMLESS	VERIFIED IN FIELD	% OF S.M.Y.S. AT DESIGN PRESS.	% OF S.M.Y.S. AT MIN. TEST PRESS.	% OF S.M.Y.S. AT MAX. TEST PRESS.	PRESS. TO GIVE 90% SMYS	FOOTAGE TO BE TESTED	VERIFIED IN FIELD
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.	MINIMUM TEST DURATION UNDER 30% SMYS (1 HR. MIN) 30% SMYS & OVER (8 HR. MIN.) PREINSTALLATION TEST (SEE 192.505(B) GO 112)	8 HRS.	
MAXIMUM PERMISSABLE TEST PRESSURE	790 PSIG	Water			

PREPARED BY: [redacted] DATE: 7-18-77 FOR INFORMATION OR CHANGES, CALL [redacted] APPROVED: ROB

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' (MSL) FT.	INDICATED TEST PRESSURE	754.5 PSIG.
TIME AND DATE TEST ENDED	1900 10-17-77	MAX. ELEVATION IN TEST SECTION	93' (MSL) FT.	MINIMUM TEST PRESSURE	754.5 PSIG.
ACTUAL DURATION OF TEST	8 1/2 HRS.	MIN. ELEVATION IN TEST SECTION	73' (MSL) 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	DATE LAST CALIBRATION	MAKE, RANGE & SERIAL NO. OF DEAD WEIGHT TESTER	DATE LAST CALIBRATIO
FOXBORO (0-2000) M-24021-MD	6-24-77	CHANDLER 2-1 M 3654	6-24-77

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

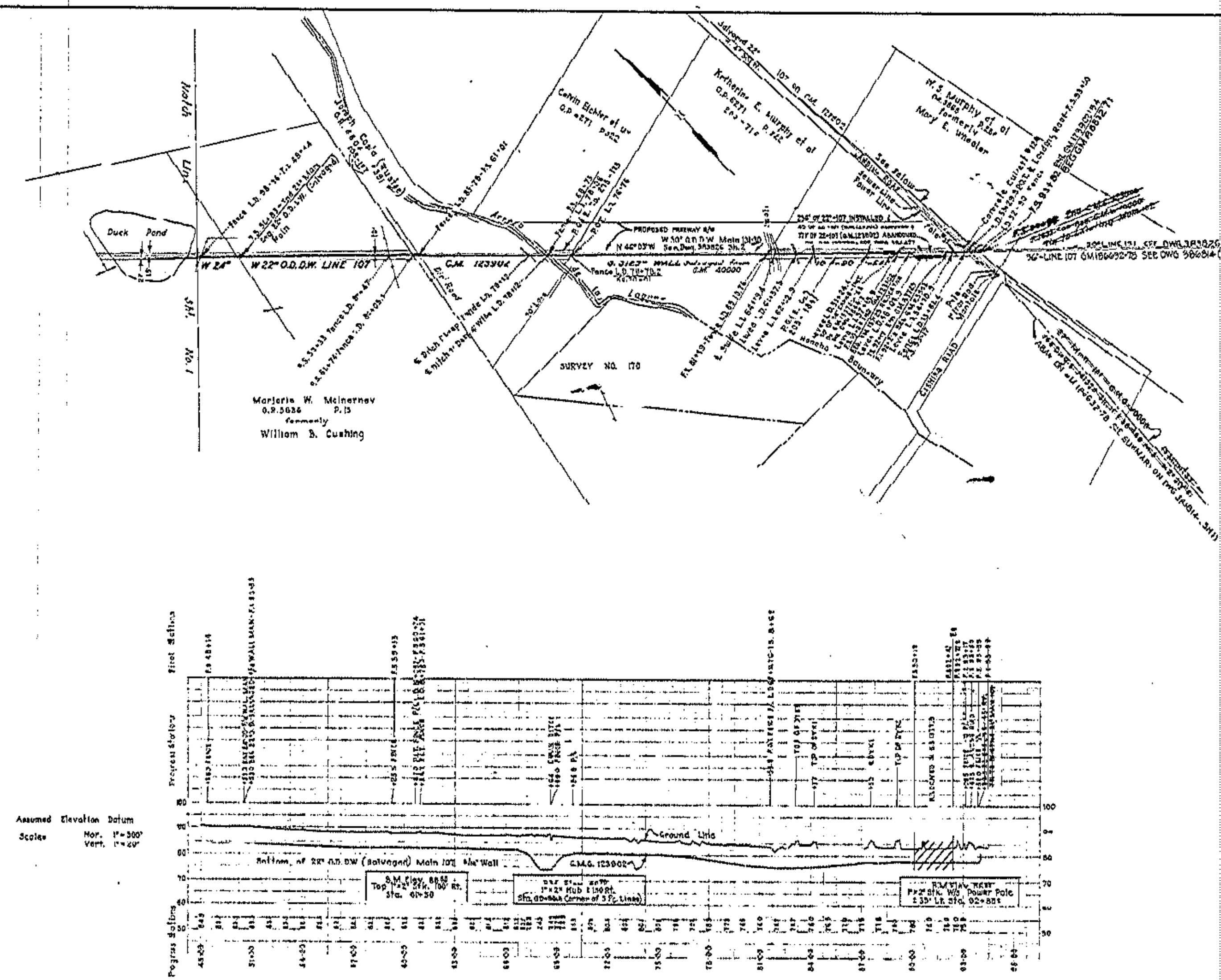
WF WJN JLH RLF JAH
RED BAM GES JRD CS
RJS OCT 26 1977 DWM
EG GAS DLS
RAW CONSTRUCTION TRB
FILE

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

107-383827-2

3838272



(T.5.S. R.1.W. M.D.B.&M)
ALAMEDA CO.
FREMONT INC.

NOTE - Final Stations Based on Horizontal Chain.

*** SUMMARY G.M. 123902**

LINE FOOTAGE - LINE 131-30
INSTALLED Dwg. 388826 Shts 1-2

34"	30"	Total ft.	Location
4652'			Fremont Inc. Alameda Co.
	20034'		Fremont Inc. Alameda Co.
	7380'		Milpitas Inc. Santa Clara Co.
	4275'	36341'	Santa Clara Co. Uninc.

Started	8-27-54
In Operation	10-20-54
Completed	7-5-55

LINE FOOTAGE - LINE 107
INSTALLED - Dwg. 383827 Shts. 1-2

24"	22"	Total ft.	Location
5083'			Fremont Inc. Alameda Co.
	4336'	9419'	Fremont Inc. Alameda Co.

REMOVED - LINE 107

24"	22"	Total ft.	Location
419'	1542'	1961'	Fremont Inc. Alameda Co.

REFERENCE DRAWINGS

361101 Sh. 46-20" Main 105 Milpitas to Oakland
301324 Sh. 17 - Tracy Gas Terminal to Milpitas
381469 Sh. 1,2,3&4 Milpitas-Oakland Gas Line
383594 - Main Line Valve Installation for bypassing Milpitas Control Station.
94764 - Milpitas Irvington Gas Line

- *4336' of 22" Main 107 G.M.O 46000 Salvaged and reused on G.M.O. 123902
- 7873' of 34" Main 129 (G.M.O. 72674) Transferred to Main 107 Account Fremont Inc. Alameda Co.
- 138' of 24" Main 131 (G.M.O. 73427) Removed Fremont Inc. Alameda Co.
- 102' of 24" Main 131 (G.M.O. 73427) Transferred to Meter Account Fremont Inc. Alameda Co.
- 464' of 20" Main 105 (G.M.O. 38500) Removed Fremont Inc. Alameda Co.

MAIN FOOTAGE INSTALLED MAIN 105
- 44' of 20" Main Fremont Inc. Alameda Co.

* Note - The Summary Above Also Appears on Dwg. 383826 Sh. 1

PIPE LINE OPERATIONS

No.	Date	Description	
4	4-16-90	Transferred to 383826/383827	
3	4-20-70	Add Pipe Line Operations R.F.	
2	[illegible]	[illegible]	
1	1-12-60	Added Work Done on G.M. [illegible]	

TABLE OF CHANGES

G.M. 123902 DRAWING LIST
BY Dept. Gas Oper.
DR D.W.S.
DATE 10-2-58
SCALES 1" = 300'

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

SHEET NO. 2 of 2 SHEETS
DRAWING NUMBER 383827 CHANGE 4

61-9050 REV. 3M BKS. 7-53

PACIFIC GAS AND ELECTRIC COMPANY

CREDIT REQUISITION

PLANT ACCOUNTING DEPT.

DATE 7-20-55 7-22

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 ☐ OVERDRAWN 5 DIVISION JOB NOS. ☐ 6 GMC ☐ CREDIT CHECK NO [redacted]

CHK.	MATERIAL NUMBER	ARTICLES	UNIT	QUANTITY	PRICE	AMOUNT	PLANT LOCATION OR ITEM NO.	ACCOUNT NUMBER	UNIT PREFIX	COST ACC'T INSTALLATION PERIOD	RET CODE
	07 7396 1V44	PIPE, STEEL D.W. 34" X 1/2" WALL	FT	35	12.47	436 45		900 0			
	07 ~~7396~~ 1316	~~PIPE, STEEL D.W. 20" X .50 WALL~~	~~FT~~	~~22~~	~~6.882~~		See Excpt				
	01 ~~7396~~	PIPE, STEEL D.W. 22" X 5/16" WALL	FT	22	3.39	74 58		900 0			
	01 2021	PIPE, STEEL BARE 22" X 5/16" WALL	FT	17	5.712	97 19		1			
		Items 2 BOE adjust ✓									
		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					

DESCRIBE JOB FROM WHICH MATERIAL WAS RETURNED

REFERENCE S. O. OR W. O. NO.

JOB ORDER

PREFIX	NUMBER	SUFFIX
01	12392	

~~FROM MILPITAS S/R D H T-MIL 227~~

7/20/55
DATE RECEIVED

73
DIVISION NUMBER

6
SUBSTORE NUMBER

decoto

[signature]
SIGNATURE

DESCRIBE FULLY JOB FROM WHICH MATERIAL WAS RETURNED

No. 240316

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 838 AND 839

MA0905439011

61-9050 REV. 3M BKS. 7-53

PLANT ACCOUNTING DEPT.

PACIFIC GAS AND ELECTRIC COMPANY

CREDIT REQUISITION

WARREN

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 [X] 3 MISCELLANEOUS [ ] OVERDRAWN 5 DIVISION JOB NOS [ ] 6 GM [ ] [redacted] CREDIT CHECK NO.

CHK.	MATERIAL NUMBER	ARTICLES	UNIT	QUANTITY	PRICE	AMOUNT	PLANT LOCATION OR ITEM NO.	ACCOUNT NUMBER	UNIT PRE-FIX	COST ACC'T INSTALLATION PERIOD	RET CODE
	01 1021	PIPE STEEL, 22" X 5/16" WALL BARE	FT	20	5.712	16565 -		1600		12	
	01 1316	PIPE STEEL, 22" X 5/16" WALL D.W.	FT	39	3.39	13221 -					
	01 1021	PIPE STEEL, 22" X 5/16" WALL BARE	FT	19	5.712	10853 -					
	01 1022	PIPE STEEL, 24" X 5/16" WALL BARE	FT	16	5.03	8048 -					Ret
	01 1316	PIPE STEEL, 24" X 5/16" WALL D.W.	FT	73	3.39	~~247 47~~	3 0486.69				
	~~01 1013~~	~~PIPE STEEL, 12-3/4" X 5/16" WALL BARE~~	FT	~~14~~	~~3.005~~		Use Except.				
		BO Tx 240763									
		ORIGINAL IDENTITY OF ITEMS RETURNED TO WAREHOUSE IN FORM DIFFERENT FROM ORIGINAL CHARGE AND COMPOSITE UNITS		TOTAL		73434					
					X	X X					
					X	X X					
					X	X X					

DESCRIBE JOB FROM WHICH MATERIAL WAS RETURNED

~~FROM MEDFIELD S/S D. T. TO TA 220~~

REFERENCE S O OR W O NO.

JOB ORDER

PREFIX	NUMBER	SUFFIX
C	12500	

7/21/55
DATE RECEIVED

DIVISION NUMBER

1
SUBSTORE NUMBER
Decoto

[redacted] 24

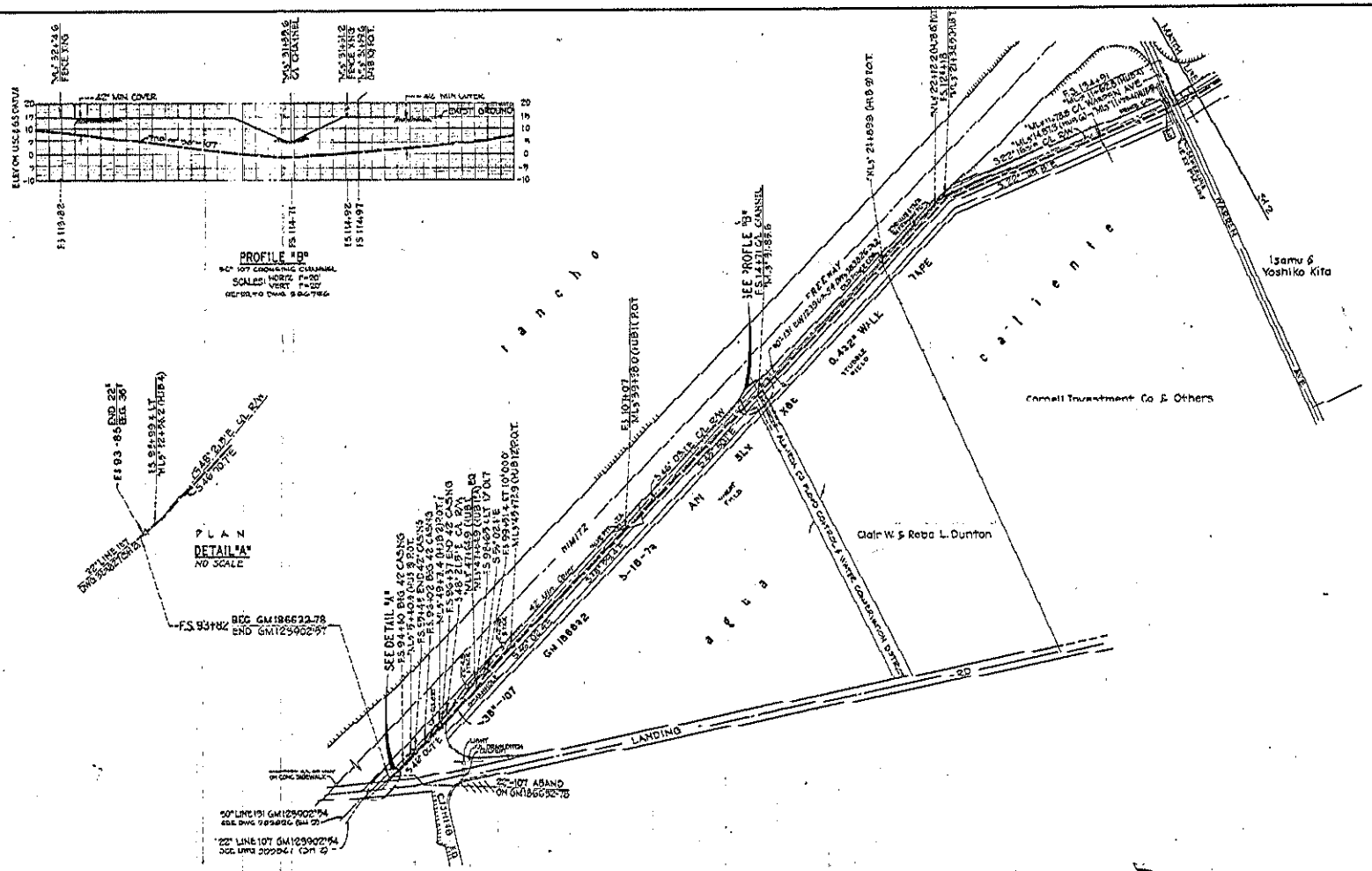
DESCRIBE FULLY JOB FROM WHICH MATERIAL WAS RETURNED

No. 2404323

INSTALLATION PERIOD PREFIX AND RETIREMENT CODE COLUMNS ARE FOR USE OF COST ACCOUNT SALVAGE ONLY
INSTRUCTIONS FOR THEIR USE ARE INCLUDED IN AUDITING DEPARTMENT CIRCULAR LETTERS 838 AND 839

MA0P0543010

107-386814-1



SUMMARY OF GM 186632 - LINE 107

LINE INSTALLED - EAST BAY DIVISION			
22"	36"	LOCATION	
2'	15,600'	REPLACMNT. INC.	
5'	15,305'	TOTAL	15,305'

LINE INSTALLED - SAN JOSE DIVISION			
22"	36"	LOCATION	
	6744'	MILPITAS, INC.	
23'	1627'	SANTA CLARA COUNTY	
23'	11,971'	TOTAL	11,684'

LINE ABANDONED - EAST BAY DIVISION			
22"	ORIGINAL INSTALLATION	LOCATION	
17'	GM129900'54	FREMONT, INC.	
14.81'	GM 40000'50	"	"
10'	GM126741'43	"	"
184'	GM157729'57	"	"
79'	GM180660'63	"	"
829'	GM165927'66	"	"
79'	GM149176'60	"	"
1609'	TOTAL		15,608'

LINE ABANDONED - SAN JOSE DIVISON			
22"	24"	ORIGINAL INSTALLATION	LOCATION
5023'		GM 40000'50	MILPITAS, INC.
4477'		" "	SANTA CLARA COUNTY
74'		GM 45726'56	" " "
66'		GM 120295'53	" " "
8'	156'	GM 132706'57	" " "
7'	751'	GM 174869'70	" " "
10401'	689'	TOTAL	11,290'

STARTED: 4-19-77
OPERATION: 5-16-78
COMPLETED: 4-23-79

REFERENCE DRAWINGS

B-5527
36/024 Sh.17
381469 Sh.1,2,3
383572
383627 Sh.2
384427
384771

NOTES

Final Stations are based on Pipe length information furnished by General Construction.
* For Line 107, Abandoned on GM 186632-78 See Summary Dwg 361101 Sh.16.

PIPE LINE OPERATIONS
FREMONT INC.
ALAMEDA COUNTY B-9927 (SH 7)
EAST BAY DIVISION (1SS R1W MDB&M)

NO.	DATE	DESCRIPTION	BY	APP'D
		TABLE OF CHANGES		

GAS OPERATIONS
SAN JOSE DIV.
GEN. P.A.O. M.L.S.
O.K. APPD. Chief
SCALE 1" = 200'

PIPELINE - PLAT 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

386814 S1

62-4921 REV. 1-75

P G AND E

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

(USE IN ACCORDANCE WITH GAS STD. A-24 AND GO 112)

SHEET 1 OF 4

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

T. MAIN OR LINE NO.	DIVISION	DISTRICT	W.O. OR G.M. NO.	DATE APPROVED
L-107	P.L.O.	Hollister	G.M. 186632	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	DESIGN FACTOR (F)	PRESENT MAOP OF LINE (PSIG)	DESIGN PRESSURE - THIS SECTION	PLANNED FUTURE MAOP
III	0.5 *	477 #	477 #	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 FT.
MIN. ELEVATION 73' Assumed FT.
DIFF. 20 FT.

STATIC HEAD CALCULATION
FOR WATER 0.433 X DIFF. = 8.7 PSIG.
OTHER (SPECIFY) _____ X DIFF. _____

PIPE SIZE O.D.	PIPE SIZE W.T.	PIPE SPECIFICATION API, GR, ERW, DSAW, SEAMLESS	VERIFIED IN FIELD	% OF S.M.Y.S. AT DESIGN PRESS.	% OF S.M.Y.S. AT MIN. TEST PRESS.	% OF S.M.Y.S. AT MAX. TEST PRESS.	PRESS. TO GIVE 90% SMYS	FOOTAGE TO BE TESTED	VERIFIED IN FIELD
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.	MINIMUM TEST DURATION UNDER 30% SMYS (1 HR. MIN) 30% SMYS & OVER (8 HR. MIN.) PREINSTALLATION TEST (SEE 192.505(B) GO 112)	8 HRS.
MAXIMUM PERMISSABLE TEST PRESSURE	790 PSIG	Water		

PREPARED BY: [redacted] DATE: 7-18-77 FOR INFORMATION OR CHANGES, CALL [redacted] APPROVED: ROB

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' (APPX) FT.	INDICATED TEST PRESSURE	754.5 PSIG.
TIME AND DATE TEST ENDED	1900 10-17-77	MAX. ELEVATION IN TEST SECTION	93' (APPX) FT.	MINIMUM TEST PRESSURE	754.5 PSIG.
ACTUAL DURATION OF TEST	8 1/2 HRS.	MIN. ELEVATION IN TEST SECTION	73' (APPX) 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	DATE LAST CALIBRATION	MAKE, RANGE & SERIAL NO. OF DEAD WEIGHT TESTER	DATE LAST CALIBRATION
FOXBORO (2 GAUGES) M-2900A; PRD	6-24-77	CHANDLER 2-1 M 5654	6-24-77

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 26 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

P. G. & E. CO. PLANT ABANDONED, DESTROYED OR REMOVED FROM SERVICE UNDER COMPLETED G. M'S.

DIVISION East Bay (Div) NO. 1 MONTH OF May 1959 LOCATION Livermore Center Pl. PAGE NO. 7 G. M. NO. 123502

ARTICLE OR COMMODITY (COMPLETE DESCRIPTION MUST BE SHOWN)	NUMBER OR QUANTITY	PRESENT MATERIAL VALUE	FOR GENERAL OFFICE USE ONLY RECAP. P.M.V.	YEAR INSTALLED *	G. M. OR W. O. * *	ORIGINAL COST INSTALLED REFERENCES UNIT COST	G. M. & W.	ITEM VOL.	PAGE	LOC. CODE NO.	ACCT. NO.	ORIGINAL COST INSTALLED	FOR GENERAL OFFICE USE ONLY RECAP. O.C.L.	REPLACEMENT EXPENSE
~~—~~														
~~—~~														
Enterprise, Meter						See 1st Pl								
with Pipe 1" 1531	2	135.25	2034 83							116	1126			
Chamber, Cast Iron	2	39.64												
Valve, Keying	2	22.90												
Pipe 2"	11 ft	15.92												
Valve, 1/4 Keystone	1	5.45												
✓ 2 Ell	1	3.31												
✓ 2 Jack	1	6.26												
~~Pothole~~	~~1~~	~~1.48~~												
Recap omitted		178.07												

WHEN CHANGES ARE MADE TO CORRECT THE DESCRIPTION, QUANTITY, UNIT PRICE, OR AMOUNT PREVIOUSLY REPORTED, SAME MUST 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 G. M. USE SYMBOL "G", IF W. O. "W", IF UNKNOWN "X"

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

JUL 1959

COMPLY WITH INSTRUCTIONS IN SUPPLEMENT TO CIRCULAR LETTER NO. 405, DATED FEB. 27, 1924, RELATING TO ALL EXPLANATION OF THE DIFFERENCE BETWEEN ESTIMATED AND ACTUAL SALVAGE. IF THE ACTUAL SALVAGE AGREES WITH THAT ESTIMATED, SO STATE.

MAOP0543897O

62 4129 300 Pads 12 47

PACIFIC GAS AND ELECTRIC COMPANY

OFFICE AT Coyote, CALIF DATE

TO BITUMINOUS PRODUCTS & APPLICATION CO., INC DR INV 1819
ADDRESS 8th AND WRIGHT STREETS DATE 9/2/56
RICHMOND, CALIFORNIA YOUR ORDER No 7R 18302
OUR JOB No 1017
TERMS NET CASH

SOLD TO: Pacific Gas & Electric Co
Auditing Department
245 Market St
San Francisco, Calif

For Wrapping to P G & E 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
				$ 742 50
		3% Sales tax on $456 50		13.70
		Code 019091		$ 756 20
		Code 006022	4 00	
		Shall Bar		
	Voucher 159038			

11/7d

M Mp 05 39 53 67

62-7123 15M 3-56

PACIFIC GAS AND ELECTRIC COMPANY

MANAGER'S COPY

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

DATE	PREFIX	NUMBER
10/4/56	7 R	18302

[redacted]

HOLD FOR SHIPPING INSTRUCTIONS

AS NOTED

QUANTITY	DESCRIPTION	P. G. AND E. MATERIAL NO.	PRICES QUOTED
	UNLOAD AND STOCKPILE, REMOVE OLD COATING, PROCESS, STOCKPILE AND LOAD OUT PER PG&E SPEC. SP-57 AND YOUR QUOTATION LETTER OF 9/12/56 APPROX.		Bit Tally Rec. 10/9 Sgt 245.10 10/9 Sgt 241.11 486.21
550 FT.	PIPE - 30" O.D. O.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.		

ORDER NO. 29056 DATE 9/28

REMARKS FOR 34" LOOP LINES

[redacted] - ORDER FOR MATERIAL ON 7R 18301

13647/

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

DIVISION NO. 70

5

PREFIX	NUMBER
R	18302

MAOPG002358

FORM NO. MORT 53M 1-56 ©

PACIFIC GAS AND ELECTRIC COMPANY

COMBINED SHIPPING NOTICE AND TRANSFER - GENERAL CONSTRUCTION DEPARTMENT

PLANT ACCOUNTING SEC.

THE FOLLOWING MATERIAL FROM:

JOB GM 136471 (1) AUTHORIZED BY [redacted] Coyote, CALIF. Oct. 11 1956

WAS SHIPPED VIA Warren Transportation Company DATE Sept. 4, 1956

TO GM 134616 (2) C/O Bituminous Products & Application Co., Richmond, CALIF.

INDICATE WHETHER OVERDRAWN OR SALVAGE OVERDRAWN SALVAGE X

ARTICLES	MATERIAL NUMBER	QUANTITY	PRICE	AMOUNT	CREDIT: PLANT ACCT. CLASS	ACCOUNT NUMBER	DEPT. ADD. FACILITY	EST. INSTALLATION DATE	RET. CODE
Pipe, steel, gas line, DW, 30" O.D. X .375" wall.	01999	61 ft. 8 in.		541 74	132	124		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)									
ORIGINAL IDENTITY OF SALVAGE ITEMS RETURNED TO WAREHOUSE, OR TRANSFERRED IN FORM DIFFERENT FROM ORIGINAL CHARGE. ALSO COMPOSITE UNITS.		TOTAL							
			X	X X					
			X	X X					
			X	X X					
			X	X X					

CREDIT COPY

3 [redacted]

CREDIT JOB NUMBER: PREFIX GM | NUMBER 136471 | SUFFIX 1

DIVISION 72 SUB STORE NUMBER 552 [redacted] S

No. 04865

MAP 053-053-08

FORM NO. 51-9577-20M-1-55

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 [redacted] 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 [X]

ARTICLES	MATERIAL NUMBER	QUANTITY	PRICE	AMOUNT	CREDIT: ACCOUNT NUMBER	CREDIT: UNIT COST WHEN INSTALLED	CREDIT: NET CODE
Pipe, steel, gas line, DW, 30" O.D. X .375" wall.	019991	487 ft. 9 in.		6920 38	132	9124	1949
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, [redacted] 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					
			X	X X			
			X	X X			
			X	X X			
			X	X X			

CREDIT COPY

3

CREDIT JOB NUMBER		
PREFIX	NUMBER	SUFFIX
GM	136471	1

DIVISION 72 SUB STORE'S NUMBER [redacted] 552

No. 04864

MAOPOS395309

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

INDEXED

DATE August 27, 1954

DIVISION Pipe Line Operations

LOCAL EST. NO. 1006

NAMES OF APPLICANTS	SCHED	DOM. P'G'ES	DOM. TANK W.H.	DOM. AUTO W.H.	R'FR'G	DAI'R	FURNACES, F. F. OR C. A. HEATERS TYPE	B. T. U. CAPACITY	COMM'L & IND'L LOADS NATURE OF	EST. ANN'L REV. $	HIGHWAY EXTENSION DATA
							NOTED SEP 23 1954 R. J. JENSEN				TOT. LTH. EXTENSION—FT. ____ COMPANY ALLOWANCE— " ____ EXCESS LINE . . . . . " ____ ADVANCE REQ'D AT $____ PER FOOT . $ ____ 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 290 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 PRI. PROP'Y
BY CONTRACT $

D. & C. NOS.

RECOMMENDATION:

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
9300	1106R	Remove existing pipe			100.00

APPROVED BY APPROPRIATIONS COMMITTEE
SEP 14 1954
H. W. ROADS
SECRETARY

INSTALL APPROVED SEP 21 1954 VICE PRES. & GEN. MGR.

BUDGET ITEM NO.

PLANT TO BE ABANDONED OR REPLACED:

Term. Pl. Wheeler Note DEC 31 1958 by

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

EXTENSION BASIS AUTHORIZED:

CHECK LIST	REQ'D.	SEC'D.
CITY OR CO. PERMIT		
HIWAY PERMIT		
RAILROAD PERMIT		
OTHER PERMITS		
MACHINE TRENCH—FT.		
PAVEMENT—SQ. FT.		

SALES		GEN. CONSTN.	
ENGINEERING		CREDIT DEPT.	
OPERATING	✓	EXEC. ENG.	
LAND			

TOTAL (EXCL. MAINT. & OPER.)	$	36,800.00
OVERHEAD CONST. COS 16 %	$	5,900.00
SUB TOTAL	$	42,700.00
MAINTENANCE & OPERATION	$	
APPROPRIATION	$	42,700.00
METERS, REGULATORS, SERVICES INSTALLED	$	
DEDUCT SALVAGE AND/OR OTHER CREDITS	$	
NET EXPENDITURE	$	42,700.00

TOWN OR TERRITORY AND COUNTY
Kettleman to Milpitas Mains 100 to 300

RECOMMENDED	RECOMMENDED	AUTHORIZED: [redacted]
APPROVED	APPROVED F. H. FISHER	V. P. AND GEN'L MGR.
GEN. OFFICE	DIV. MGR.	G. M. 130004

DIVISION

W. O. NO.

62-6252-10-52-100M-REV.

MAOP05306937

62.6251 REV. 6-66

ESTIMATE FOR AUTHORIZATION

DATE OF ESTIMATE October 17, 1969 Crew Days 63 Local Office Gilroy 08

DEPARTMENT Gas DISTRICT Southern DIVISION NAME San Jose NO.

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

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. 1969	
BUDGET ITEM NO. G-205	
BUDGET AMOUNT $ 26,000	

ACCOUNT NO.	ACTIVITY ITEM NO.	LOCATION AND/OR ITEM NO.	ESTIMATE OF DIRECT COST ITEMS (FOR INVOLVED ESTIMATES GIVE SUMMARY HERE -- DETAIL ON EXTRA SHEETS)	UNIT AMOUNT (WHEN REQD.)	AMOUNT (DOLLARS ONLY) FROM UNIT COST OR OTHER LABOR	MATERIAL	OTHER	TOTAL
124	065	300	Install 6 Valves P.L.O					828
224	069	1000	115' W 6" DW HP Steel Main					1,107
224	04	2000	10' W 4" DW HP Steel Main		NOTED			112
224	03	3000	375' W 3" DW HP Steel Main		JAN 12 1970			1,925
224	02	4000	790' W 2" DW HP Steel Main					2,437
224		5000	Convert 35090' - 20" Trans. to Distr. Main					450
224		6000	Install Cathodic Protection					1,000
127		300	Reconstruct Soap Lake Meter & Reg. Station P.L.O [redacted]					9,700
227			Install District Reg. Stations					13,500
607			Cut Test & Trans. 20 Servs.					
964			Shut down & restore 36 Cust. Servs.					
224		9000	Abandon old mains					310
227		9000	Abandon District Regulator Stations					600
				AUTHORIZED JAN 7 1970				

/E MANHOURS: OH URD UG GAS TRANS

ANT TO BE REMOVED OR ABANDONED (SHOW JOB NO., PREDECESSOR COMPANY AND PERIOD OF INSTALLATION AS APPROPRIATE)

Work on Blanket W.O.
1230 410 20 pri reg.
sets @ $96.00 ea. 1920

NOTED FEB 19 1974

PRELIMINARY REQUIREMENTS

Requested Completion Date: [redacted] White Slip 8/26/74

TOTAL DIRECT COST (EXCL. MAINT. & OPER.)	31,969
INDIRECT COSTS (EXCL. MAINT. & OPER.) %	10,304
SUB-TOTAL	42,273
GEN. OVERHEADS 6 %	2,536
APPROPRIATION (EXCL. MAINT. & OPER.)	(44,809
MAINTENANCE & OPER.	2996 2,416
AMOUNT AUTHORIZED	47,80847,225
INSTALL AND/OR REMOVE REVOLVING STOCK (NET)	1,920
INSTALL AND/OR REMOVE SERVICES	
DEDUCT SALVAGE AND/OR OTHER CREDITS	
NET AMOUNT	49,72549,145

CHECK LIST	REQ'D.	SEC'D.	CHECK LIST	REQ'D.	SEC'D.
U.T. INTENTION			RIGHT OF WAY		
U.T. APPL. NO.			OVER 20% YIELD		
E TRIMMING			STRENGTH TEST	x	
HWY CO. PERMIT	x		PAVEMENT - SQ.FT.	none	
AY PERMIT			MACHINE TRENCH - FT.	all	
X-ING PERMIT			MAN DAYS	500	
ER PERMITS			COST REPORT REQUIRED	YES	NO X

PROGRESS REPORT CODES (ACCT'G. ONLY)

CARD CODE	DIV'N.	DIST.	DEPT.	CWIP

SUSP.	VAL.	ADV. GM's.	BILL ADV's.

AUTHORIZATION

DIVISION OR ORIG. OFFICE	GENERAL OFFICE
RECOMMEND [redacted]	RECOMMEND
APPROVED [redacted]	APPROVED
AUTHORIZED [redacted]	AUTHORIZATION NUMBER GM 173728

M40P03085253

PG&E
Gas Operations
62-4921 Rev 9/77

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

(USE IN ACCORDANCE WITH GAS STD. A-34 AND GO 112)

SHEET 3 OF 5

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

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

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	DESIGN FACTOR (F)	PRESENT MAOP OF LINE (PSIG)	DESIGN PRESSURE - THIS SECTION	PLANNED FUTURE MAOP
III	.50	631	715	715

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 O.D.	PIPE SIZE W.T.	PIPE SPECIFICATION API, GR, ERW, DSAW, SEAMLESS	VERIFIED IN FIELD	% OF S.M.Y.S. AT DESIGN PRESS.	% OF S.M.Y.S. AT MIN. TEST PRESS.	% OF S.M.Y.S. AT MAX. TEST PRESS.	PRESS. TO GIVE 90% SMYS	FOOTAGE TO BE TESTED	VERIFIED IN FIELD
30	0.375	API 5LX GR X42 ERW	BDA	68.1	92.0	98	945	504'	BDA
20	0.500	API 5LX GR X42 DSA	BDA	34.05	46.0	49.0	1890	25'	BDA
12.750	~~0.375~~ 0.365	API 5LX GR X42 ERW	BDA	~~28.34~~ 21.79	~~39.12~~ 30.13	~~41.65~~ 31.93	~~2224~~ 2965	8'101'	BDA

MINIMUM PRESSURE FOR TEST	① 966 PSIG	TEST FLUID TO BE USED.	MINIMUM TEST DURATION UNDER 30%SMYS (1 HR. MIN) 30% SMYS & OVER (8 HR. MIN) PREINSTALLATION TEST (SEE 192.505(E) GO 112)	.8 HRS.
MAXIMUM PERMISSABLE TEST PRESSURE	② 1,029 PSIG	Water		

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

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.

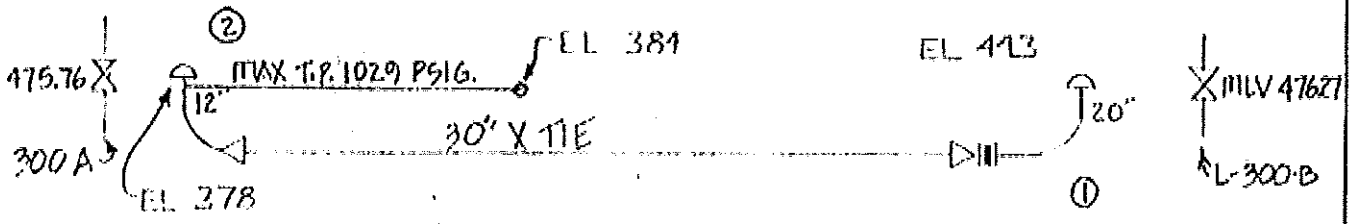
* TIME AND DATE REACHED TEST PRESSURE	2:20 PM 4-30-80	ELEVATION AT TEST POINT	381 FT.	INDICATED TEST PRESSURE	1001 PSIG.
TIME AND DATE TEST ENDED	10:40 PM 4-30-80	MAX. ELEVATION IN TEST SECTION	443 FT.	MINIMUM TEST PRESSURE	975.5 PSIG.
ACTUAL DURATION OF TEST	8 HRS. 20 MIN.	MIN. ELEVATION IN TEST SECTION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

TEST FLUID USED WATER — PIPE SPEC. VERIFIED (SEE PART I) BDA — PIPE FOOTAGE VERIFIED (SEE PART I) BDA

MAKE, RANGE & SERIAL NO. OF RECORDING GAUGE	DATE LAST CALIBRATION	MAKE, RANGE & SERIAL NO. OF DEAD WEIGHT TESTER	DATE LAST CALIBRATION
MERCURY 0-2000 CP 2406-12	4-7-80	CHANDLER ENGIN 0-2000 SER 10696	4-7-80

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.

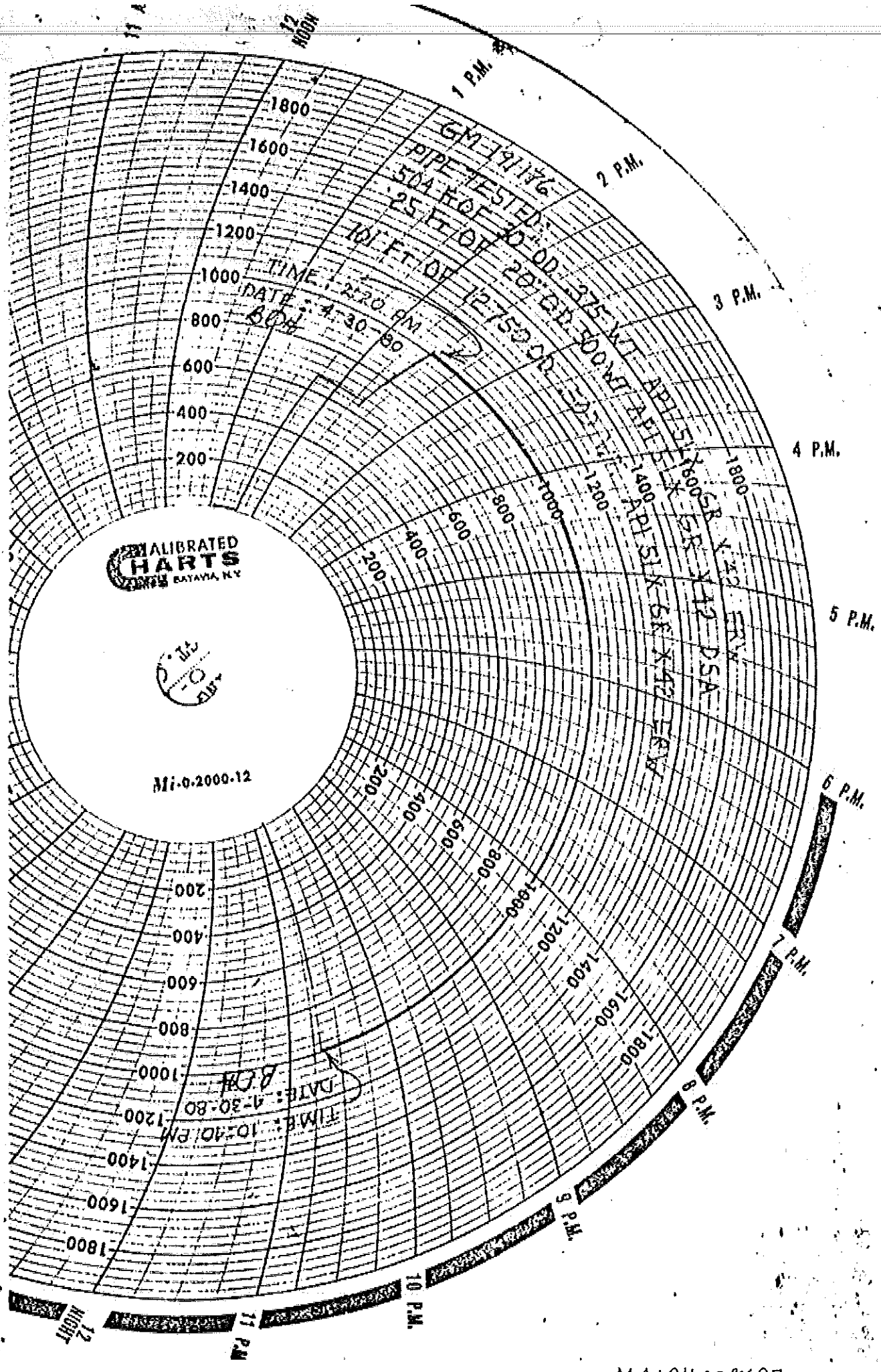
MAOP04165203

MAOP1102869S

STRENGTH TEST INFORMATION

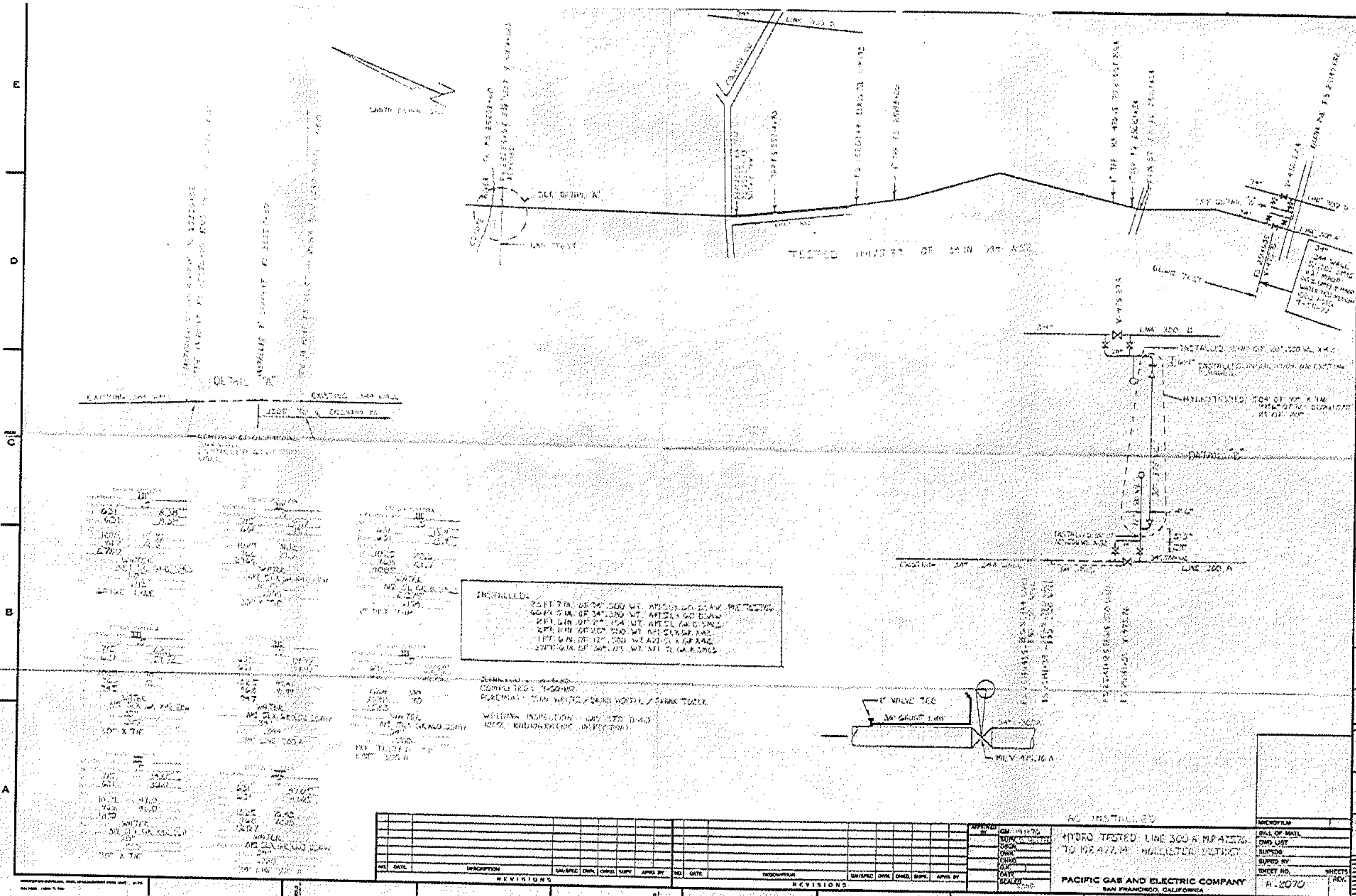
1. JOB GM 191176
2. LOCATION CROSSOVER BETWEEN MLV 475.76 A & MLV 476.27 B LINES 300 A & B
3. DATE 4-30-80 PRESSURE 1201 PSIG
4. TIME 2:20 PM TO 10:40 PM DURATION 8 HRS 20 MIN
5. LENGTH SEE BELOW SIZE — W.T. —
6. PIPE SPEC. SEE BELOW.
7. RECORDING GAUGE MERCURY SER. CP 240592
8. RANGE 0-2000 LAST CALIBRATED 4-7-80
9. DEAD WGT. CHANDLER ENG. SER. 10636
10. RANGE 0-2000 LAST CALIBRATED 4-7-80
11. TEST FLUID WATER
12. SUPERVISED [redacted] DATE 4-30-80
13. APPROVED [redacted] DATE 4-30-80

TEST: 504 FT. OF 30" O.D. 0.375 W.T. API 5LX GR X42 ERW
22 FT. OF 20" O.D. 0.500 W.T. API 5LX GR X42 DSA
101 FT. OF 12.750 O.D. 0.500 W.T. API 5LX GR X 42 ERW



MAOP11028697

MAOP11028387



The State of California Highway Department is widening the present Bayshore Highway in North Palo Alto, between Palmar 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.C.P storm drains

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

- 0 -

CPC:fdw
CY JMM
KVJ (C n C.)

62 24 4 56 50M

TH S FORM TO E U ED FOR DET L OF NT IN D AND P ANT R R D WH N PAC O D D ON FACE OF E TIMATE S N U F C ENT

G M AND WORK ORDER ESTIMATE DETAIL SHEET

SHEET No 1 (1 c) 2

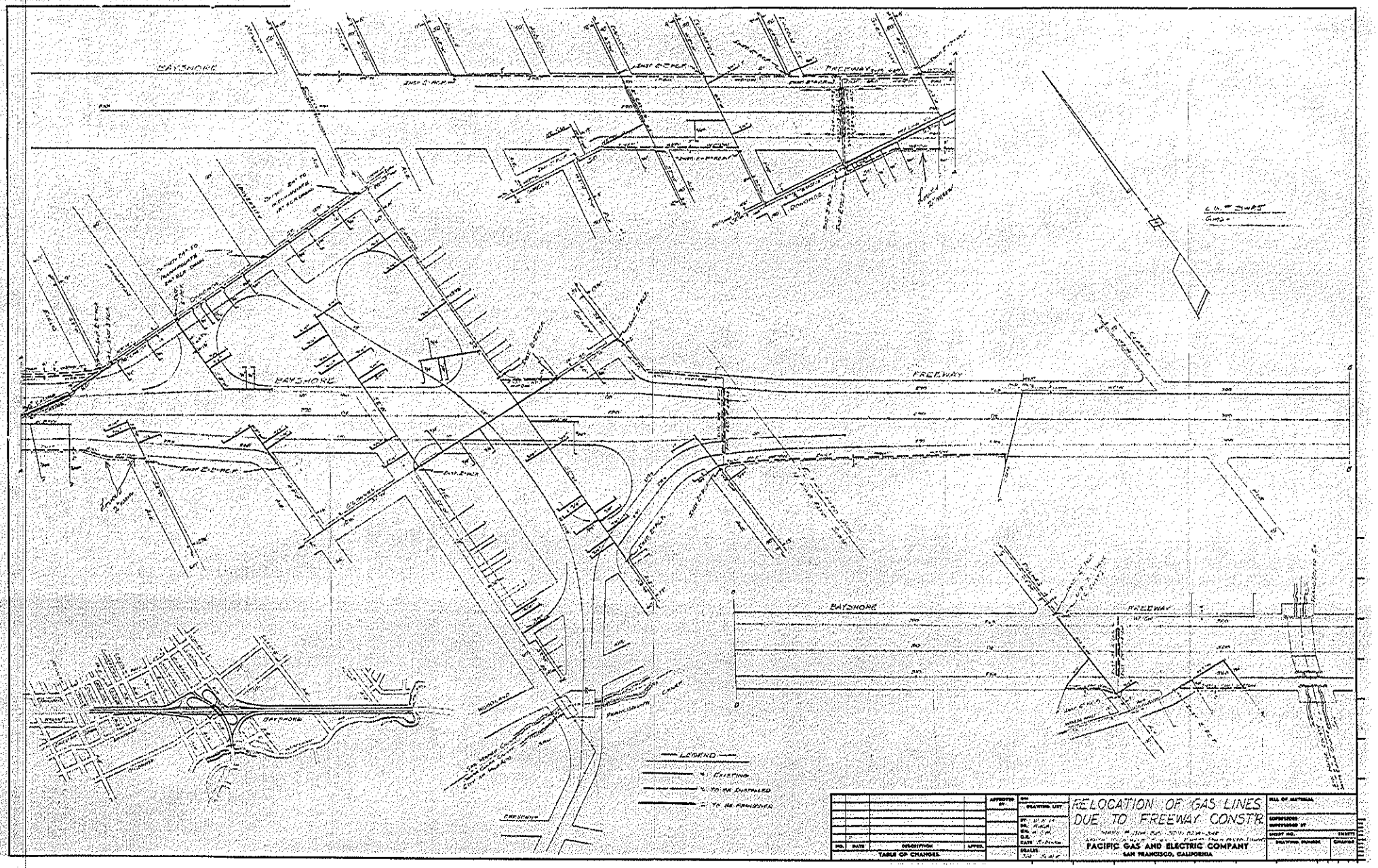
LOCAL EST No II 3405

STATE OF CALIFORNIA & PG&E COMPANY
UNIVERSITY AVENUE, NO PALO ALTO

DETAIL

LOCA ON AND TEM No	ACCT NO		FOR PLANT TO BE INSTALLED: UNIT COST	AMO NT (DOLLA S ONLY)	TOTAL	FOR PLANT TO BE RETIRED INSTALLATION DATA (REFER TO A D Y NG D P C L): JOB NO	PREDECESSOR COMPANY	PERIOD OF INSTALLATION
		TRANSMISSION MAINS - NO. PALO ALTO-SUBN						
1101	1124	930' U 20" DI (HP) steel transmission main	7.50	6,975				
		Labor installing	7.50	6,975				
		Sand backfill		1,225	15,175			
2101	1124	155 30" casing & labor to install		3,150				
		1 - 2" vent installed		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	L/O - 94 3000 3,111 Loc 3	2,000	2,000			
5101	1124-R	Labor & material to remove & recondition 1890 of existing 20" transmission main (sand backfill included)	4.50	4 005	4,005			
6101	1124	Labor & material to abandon 256' of old ~~3~~ 24" casing		100	100			
B/C # 326271								
		DISTRIBUTION MAINS - NORTH PALO ALTO-SUBN						
1006	1224	3665' 4 2" DW (HP) steel main	.45	1,649				
		Labor installing	1.75	6,414				
		18 - 2' P C F		196	8,263			
2006	1224	945' 4 3" DW (HP) steel main	.75	709				
		Labor installing	.75	709				
		2 - 3" P.C I	2.00	1,890				
				84	2,682			
3006	1224	Labor & material to install 220' of 6" casing with vent (on new 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			
36	1224-R	Labor & material to abandon						
B/C # 326272		4435' - 2" (HP) main						
		760 - 3" (HP) main						
		260' - 4 3/4" casing						
		124 3" casing						
		4 2" P C F		220	220			
6 B/C # 326273	1228-	Labor & material to abandon - 44 services 57 services	25.00	1,425	1,42			
30	1678	Labor & material to excavate & backfill trench for 10 main		10				

MA-OPOS-377974



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