

MASTER EXCHANGE GAS DELIVERY AGREEMENT

BETWEEN

PACIFIC GAS AND ELECTRIC COMPANY

AND

SOUTHERN CALIFORNIA GAS COMPANY

DATED

March 1, 1990

MASTER EXCHANGE GAS DELIVERY AGREEMENT

TABLE OF CONTENTS

<u>ARTICLE</u>	<u>TITLE</u>	<u>PAGE</u>
I	Definitions.....	2
II	Term.....	5
III	Exchange Service.....	6
IV	Delivery and Redelivery Point(s).....	9
V	Service Charges.....	12
VI	Cost of New, Additional, or Relocated Facilities.	14
VII	Gas Quality and Delivery Conditions.....	16
VIII	Measurement.....	17
IX	Regulatory Requirements.....	20
X	Indemnification.....	22
XI	Force Majeure.....	22
XII	Title to Gas.....	24
XIII	Assignment.....	24
XIV	Conformity With Laws.....	25
XV	Right to Audit.....	26
XVI	Notices.....	27
XVII	Waivers and Early Termination for Cause.....	29
XVIII	Arbitration.....	30
XIX	Prior Agreements.....	32
XX	Miscellaneous.....	34
XXI	Appendices.....	36

MASTER EXCHANGE GAS DELIVERY AGREEMENT

This Agreement, made and entered into this 1st day of March, 1990, ("Agreement") by and between Pacific Gas and Electric Company, a California corporation ("PG&E"), and Southern California Gas Company, a California corporation, successor in interest to Southern Counties Gas Company, Pacific Lighting Gas Supply Company, Pacific Lighting Service and Supply Company and Pacific Lighting Service Company ("SoCalGas").

WITNESSETH:

WHEREAS, the parties are public utility companies subject to the jurisdiction of the California Public Utilities Commission ("CPUC") and are engaged in the purchase, transmission, storage, distribution and sale of natural Gas; and

WHEREAS, the parties have established, from time to time, exchange point(s) on each party's Utility System, whereby Gas is delivered to the other party for Ongoing deliveries or to provide Standby deliveries during temporary Emergency Conditions ("Exchange Service"); and

WHEREAS, the parties desire to consolidate certain prior individual and general exchange service agreements between them as listed in Article XIX and provide for the establishment of future Delivery or Redelivery Point(s) in this Agreement.

NOW THEREFORE, the parties agree as follows:

ARTICLE I

DEFINITIONS

Except where the context indicates another or different meaning or intent, the following terms as used herein shall have the following meanings:

1.1 "Affiliate" means any corporation, voluntary association, joint stock company, business trust, partnership, proprietorship or other legal entity, however constituted, which, directly or indirectly through one or more intermediaries, controls or is controlled by or is under common control with either party to this Agreement. Ownership of fifty percent (50%) or more of the equity shall constitute "control" for purposes of this definition.

1.2 "Btu" means one British thermal unit, defined as the amount of heat required to raise the temperature of one (1) pound of water from fifty-eight and one-half degrees Fahrenheit (58.5°F) to fifty-nine and one-half degrees Fahrenheit (59.5°F) at a standard pressure of fourteen and seventy-three one hundredths pounds per square inch, absolute ("14.73 Psia").

1.3 "Cubic Foot" means the volume of Gas which occupies one (1) cubic foot of space measured at 14.73 Psia at sixty degrees Fahrenheit (60°F).

1.4 "Day" means the period beginning at 7:00 a.m. Pacific Time (PT) and ending at 7:00 a.m. PT the following day.

1.5 "Decatherm" ("Dth") means one million (1,000,000) Btu as determined on a dry Heating Value basis.

1.6 "Delivering Party" means the party to this Agreement who supplies Gas to the Requesting Party on an Ongoing delivery and/or a Standby delivery basis.

1.7 "Delivery Point" means the location where Gas is delivered from the Facilities of the Delivering Party to the Utility System of the Requesting Party.

1.8 "Emergency Condition" means a condition during which, in the judgment of the Requesting Party, a temporary supply of Gas delivered hereunder is the only reasonable means of avoiding a curtailment of deliveries of Gas to its customers and which condition is caused by:

- a. A temporary local operating failure in the Requesting Party's pipeline system rendering any of the facilities thereof, including pipeline and storage facilities, incapable of operating at their required capacity; or
- b. Temporary local system support provided to one of the parties by the other on an occasional basis when the Gas requirements of the Requesting Party's customers temporarily exceed the capacity of Requesting Party's local area pipelines. Such support will be provided when the feasibility and cost of increasing such pipeline capacity is, in the Requesting Party's opinion, uneconomic, and the Delivering Party is willing to provide such support.

1.9 "Facilities" means pipelines, caps, quantity and quality measurement equipment and other related equipment installed and/or owned by the Delivering Party and which are necessary to deliver Gas into the Requesting Party's Utility System.

1.10 "Gas" means casinghead Gas, natural Gas from Gas wells, and residue Gas resulting from processing both casinghead Gas and Gas well Gas.

1.11 "Heating Value" means the gross heating value of waterfree Gas determined as the quantity of heat in Btu liberated by the complete combustion, at constant pressure, of one (1) Cubic Foot of Gas at a temperature of sixty degrees Fahrenheit (60°F), and at a pressure of fourteen and seventy-three hundredths (14.73) Psia.

1.12 "Mcf" means one thousand (1,000) Cubic Feet of Gas.

1.13 "MMcf" means one million (1,000,000) Cubic Feet of Gas.

1.14 "Month" means a period beginning at 7:00 a.m. on the first Day of a calendar month and ending at 7:00 a.m. on the first Day of the next succeeding calendar month.

1.15 "Ongoing deliveries" means ongoing Gas service support provided by the Delivering Party to the Requesting Party under circumstances in which the parties agree that Gas service on the Requesting Party's Utility System is best accomplished using Gas provided by the Delivering Party.

1.16 "Psig" means pounds per square inch, gauge.

1.17 "Psia" means pounds per square inch, absolute.

1.18 "Redelivery Point" means the location where Gas is delivered from the Utility System of the Requesting Party to the Utility System of the Delivering Party.

1.19 "Requesting Party" means the party to this Agreement who requests Gas deliveries from the Delivering Party for Ongoing delivery and/or on a Standby delivery basis.

1.20 "Standby delivery(ies)" means Gas service support provided by the Delivering Party to the Requesting Party under Emergency Conditions.

1.21 "Utility System" means the Gas transmission, gathering and distribution pipeline system and related facilities located in California and operated by one or the other of the parties.

## ARTICLE II

### TERM

This Agreement shall become effective on the first day of the Month next succeeding the effective date of approval of this Agreement by the CPUC and written notification, each to the other, of the parties' acceptance of such CPUC approval (Effective Date) and shall continue in effect thereafter from year to year until terminated by either party, giving the other party six (6) Months advance written notice of such termination unless this Agreement terminates pursuant to Article IX, paragraphs 9.2, or 9.3 or Article XVII, paragraph 17.2. It is understood that any and all obligations assumed or provided hereunder on the part of either party shall cease absolutely upon

termination of this Agreement, except as to any money or Gas then due and payable as provided hereunder and except any indemnification obligation arising during the term of this Agreement.

### ARTICLE III

#### EXCHANGE SERVICE

3.1 Subject to the terms and conditions of this Agreement, any delivery or redelivery of Gas provided hereunder shall be either for Standby or for Ongoing deliveries.

3.2 Standby deliveries hereunder will be limited specifically to those Delivery Point(s) indicating "Standby" as a type of exchange on the Exchange Tap Information Sheet(s) contained in Appendix A. The Delivering Party shall provide Standby deliveries subject to the limitations and conditions of this Agreement only if the following conditions have been met:

- a. The Requesting Party has requested Standby deliveries after determining that, without such Standby deliveries, service to one or more of its customers will be curtailed; and
- b. In the judgment of the Delivering Party, capacity and supply are available, operations permit, and such Standby deliveries will not result in economically affecting the Delivering Party adversely or negatively impact service to any of the Delivering Party's other customers or operations; and

- c. The Requesting Party provides the Delivering Party's Gas Control Department with notification and a description of the Emergency Condition, its expected duration and advises the Delivering Party's Gas dispatchers of the required delivery rates and locations.
- d. The Requesting Party shall proceed at once to correct the conditions which required Gas service support under Emergency Conditions.

3.3 Standby deliveries under this Agreement may be subject to interruption at any time, and the Delivering Party shall not be liable for any damages as a result of such interruption. The Delivering Party will provide as much advance notification as reasonably practicable to Requesting Party that interruption shall occur or that the Delivering Party is unable to provide Standby deliveries.

3.4 Ongoing deliveries hereunder will be limited specifically to those exchange taps indicating "Ongoing" as the primary type of exchange on the Exchange Tap Information Sheets contained in Appendix A.

3.5 The obligation of the Delivering Party to deliver Gas hereunder from any particular transmission and/or distribution line and through any particular Delivery Point shall continue only during such time as it shall maintain and operate such transmission and/or distribution line. The Delivering Party shall have the right upon ninety (90) Days' written notice to cease operation of any line and Delivery Point subject to the provisions of Article IV, paragraph 4.4 herein and thereby

terminate its obligation to deliver Gas hereunder from any such transmission and/or distribution line to any affected Delivery Point without incurring any liability to the Requesting Party or to any of the Requesting Party's customers receiving Gas from said line(s) and Delivery Point(s).

3.6 Deliveries provided hereunder at existing Delivery Point(s) shall be measured by the owner of the measuring facilities at said Delivery Point(s) in accordance with Article VIII. New, additional, upgraded or relocated Facilities required to provide deliveries hereunder shall be installed, operated, maintained and paid for according to the provisions of Articles VI and VIII herein.

3.7 In addition to the payment of fees and expenses as provided in Articles V and VI, the Requesting Party shall redeliver to the Delivering Party in the next Month following any deliveries hereunder or at other times, as mutually agreeable, an equivalent quantity of Gas, expressed in Decatherms, as is contained in the deliveries made to the Requesting Party hereunder. Total deliveries and redeliveries hereunder shall be balanced as nearly as possible on a Monthly basis and deliveries and redeliveries shall be specified on a Monthly Accounting Summary in the form shown as Exhibit B. The Monthly Accounting Summary will record any Month-end imbalance, and redeliveries during the following Month or other mutually agreeable times shall be adjusted to eliminate any imbalance as soon as operationally practical.

## ARTICLE IV

### DELIVERY AND REDELIVERY POINT(S)

4.1 Each Delivery Point and each Redelivery Point shall be specified on an Exchange Tap Information Sheet and listed on the Exchange Tap Information Sheet Summary all of which are attached hereto as Appendix A. Except as otherwise provided herein, Delivery or Redelivery Point(s) and associated Exchange Tap Information Sheets may be added, deleted, or modified from time to time by mutual written agreement of the parties hereto. Such agreement shall constitute a revision of Appendix A and of Appendix B hereof and shall include a copy of the added, deleted, or modified and dated Exchange Tap Information Sheet, a revised and dated Exchange Tap Information Sheet Summary and a revised and dated Monthly Accounting Summary.

4.2 All regulation and metering facilities at the locations shown on the Exchange Tap Information Sheet(s) existing on the Effective Date hereof shall be operated and maintained by the party owning such facilities. Facilities ownership and operating information and any changes thereof will be shown on the Exchange Tap Information Sheet(s).

4.3 Each Delivery Point may be used to provide either Standby or Ongoing deliveries or both. However, a primary use of each Delivery Point shall be specified on the Exchange Tap Information Sheet and will govern the applicability of terms pertaining to Facility cost reimbursement and applicable service charges as described in Articles V and VI herein.

4.4 In addition to the procedure found in paragraph 4.1 above, Delivery or Redelivery Point(s) may be eliminated by either party upon ninety (90) Days prior written notice to the other if such party in the course of its business changes its operations or service obligations such that deliveries at said Delivery or Redelivery Point(s) are no longer operationally feasible or prudent. Such prior notice shall constitute a revision of Appendix A and of Appendix B hereof and shall include revised and dated Exchange Tap Information Sheet Summary and a revised and dated Monthly Accounting Summary.

4.5 Certain of the Delivery or Redelivery Point(s) set forth in the Exchange Tap Information Sheet(s) are presently designated delivery point(s) under other separate existing agreements between the parties (including the Enhanced Oil Recovery Gas Transportation Agreement dated June 6, 1986, and the Interutility Transportation Agreements dated October 14, 1987 and February 19, 1988) and may be designated delivery points under other new agreements in the future. The terms and conditions of this Agreement shall not act to restrict, modify or amend the terms of such existing or new agreements including any future amendments thereto.

4.6 Each party's Utility System is divided into four zones as described in Article V. The zone into which each Delivery or Redelivery Point falls will be shown on the Exchange Tap Information Sheet for that Delivery or Redelivery Point.

4.7 All facilities made available by either party under this Agreement shall be and remain the property of such party. If any facilities made available hereunder are owned jointly by the parties or are owned by one party with one or more third parties, the rights of said party and of any third party shall be determined by their separate agreements.

4.8 The duties, obligations and liabilities of the parties hereto are intended to be several and not joint or collective, and nothing in this Agreement shall be construed to create an association, trust or partnership or impose a trust or partnership duty, obligation or liability on or with regard to either party.

4.9 Each party will endeavor to deliver Gas to the other when requested to do so hereunder; provided, however, that one party shall not be liable to the other party or the other party's customers for failure to deliver Gas hereunder. Any obligation to accept and/or deliver such quantities of Gas as may be tendered for redeliveries or requested by either party hereunder shall be at the sole discretion of each party and be limited by each party's respective Utility System capacity and facilities required to provide service to its own customers, and by such other operational constraints as, in such party's sole judgment, may exist on such party's Utility System at any time.

ARTICLE V

SERVICE CHARGES

5.1 The Requesting Party, in addition to redelivering a quantity of Gas equal in Decatherms to the total quantity of Gas delivered by the Delivering Party hereunder, shall pay the Delivering Party each Month a delivery fee of ten cents (10¢) for each Decatherm so delivered during the Month, except that PG&E shall pay SoCalGas a delivery fee of two cents (2¢) for each decatherm delivered to PG&E by SoCalGas into Mobil Oil Corporation's pipeline at the Adelaida Tap, if the corresponding redelivery is made at the Atascadero Tap; otherwise PG&E shall pay SoCalGas a delivery fee of ten cents (10¢) per Decatherm for such deliveries. Standby deliveries accepted by PG&E from SoCalGas at Topock Tap (Valve #0.24B) will be under the terms and conditions outlined in Appendix D hereof.

5.2 All Gas delivered or redelivered hereunder is subject to a compression fee designed to reimburse the parties for the operational cost of compressing and transporting such Gas to the Delivery Point(s) or Redelivery Point(s). For the purpose of accounting for such fees, the respective Utility Systems of the parties are divided into compression zones more fully described in Appendix C.

The compression fees are:

For deliveries or redeliveries in - Zone 1	0¢/Dth
- Zone 2	5¢/Dth
- Zone 3	10¢/Dth
- Zone 4	15¢/Dth

5.3 The Monthly cost of ownership of new and/or modified Facilities installed primarily for the purpose of providing the Requesting Party with Standby deliveries is described in Article VI, paragraph 6.3.

5.4 At any time after two years from the Effective Date of this Agreement, and thereafter at any time but not sooner than two years after the effective date of the most recently redetermined delivery and/or compression fee hereunder, either of the parties hereto may, by written notice to the other, request a redetermination of the delivery fee and/or the compression fee. In such event, the parties shall meet and endeavor to agree upon a redetermination of such delivery and/or compression fee. Should the parties fail or be unable to agree with respect to a redetermined delivery and/or compression fee within sixty (60) Days from the receipt of such written notice, then either party may request in writing that the delivery and/or compression fee be established by an arbitration proceeding conducted in accordance with the terms of Article XVIII herein.

5.5 Each Month each party shall provide the other party with its metered usage data for Gas delivered or redelivered hereunder at the Delivery Point(s) or Redelivery Point(s) at which each party owns the metering facilities. The form and schedule for providing such data shall be agreed to between the parties from time to time.

5.6 The parties will agree from time to time which of the parties shall act as the accounting party. The accounting party shall each Month prepare, complete, and provide

to the other party a Monthly Accounting Summary using the currently effective Appendix B which shall be the basis for billings between the parties for exchange service and monthly ownership charges hereunder.

## ARTICLE VI

### COST OF NEW, ADDITIONAL OR RELOCATED FACILITIES

6.1 If the parties determine that modification to or relocation of existing Facilities are required to maintain deliveries to a Delivery Point hereunder, or if either party is requested to and, in its sole discretion, agrees to install additional Facilities to provide Standby deliveries or Ongoing deliveries to new Delivery Point(s) as provided herein, then the Delivering Party shall prepare an estimate of the costs associated with installation of the new, modified, or relocated Facilities and the Requesting Party shall agree to reimburse the Delivering Party, as a Contribution In Aid of Construction (CIAC), the lower of either 110% of the estimated costs or the Delivering Party's actual costs. Such actual costs shall include, but are not limited to, the cost of the new or modification to or relocation of the Facilities, indirect expenses, taxes, permits, rights-of-way, costs of licenses and easements, administrative and general office allocated costs. In addition to the CIAC, the Requesting Party shall agree to reimburse the Delivering Party for the Delivering Party's

increased income tax liability resulting from Requesting Party's CIAC in accordance with the Delivering Party's regularly established accounting practices and as provided for in CPUC Decision 87-09-026 dated September 7, 1987.

6.2 After the Requesting Party's written agreement to pay the CIAC and the Delivering Party's increased income tax liability, the Delivering Party will proceed with due diligence to complete the installation, modification or relocation of the Facilities, following which the Requesting Party shall, on receipt of an invoice therefor, reimburse the Delivering Party for the CIAC and increased income tax liability.

6.3 If the primary use of the new, modified, or relocated Facilities provided by the Delivering Party is for Standby deliveries, the Requesting Party shall, in addition to the charges specified in Article V and Article VI, paragraph 6.2 herein, pay the Delivering Party a monthly cost of ownership charge for special facilities based on the CIAC paid under Article VI paragraph 6.2 and as provided for in the Delivering Party's CPUC-approved tariff schedule, Rule No. 2, DESCRIPTION OF SERVICE or successor rule.

6.4 If within thirty-six (36) months of the installation, modification, or relocation of Facilities for a Delivery Point the Delivering Party eliminates such Delivery Point under the terms of Article IV paragraph 4.4, then the Delivering Party shall refund any money collected under Article VI, paragraph 6.2 and the monthly cost of ownership described in Article VI, paragraph 6.3 shall cease.

6.5 Any cancellation, termination or expiration of this Agreement, or assignment or conveyance or other transfer of any right or interest in this Agreement, shall not relieve the Requesting Party of liability for payment for the costs outlined in Article VI, paragraphs 6.1, 6.2, and/or 6.3 or any other sums payable hereunder, unless a written waiver from the Delivering Party is obtained.

6.6 This Agreement does not obligate either party to construct or install any Facilities, including measuring facilities, or modify any Facilities to provide Requesting Party with Standby deliveries and/or Ongoing deliveries.

## ARTICLE VII

### GAS QUALITY AND DELIVERY CONDITIONS

7.1 All Gas delivered and redelivered hereunder by one party to the other shall be as compatible in quality as practical with the Gas flowing at that point in the receiving party's Utility System. Neither party shall be obligated to receive Gas from the other if, in the receiving party's sole judgment, such Gas is incompatible with the quality of Gas flowing at that point in the receiving party's Utility System.

7.2 Both parties shall make every reasonable effort to exchange Gas that complies with the following limits:

Oxygen	=	0.2%
Carbon Dioxide	=	3.0%
Inerts, total	=	4.0%
Hydrogen Sulfide*	=	0.25 gr/scf
Mercaptan Sulfur	=	0.3 gr/scf
Total Sulfur	=	0.75 gr/scf
Water Vapor	=	≤ 1000 psig, 7 lbs/MMscf
	=	> 1000 psig, 32°F dewpoint

Hydrocarbons	=	≤ 400 psig, 45°F
	=	> 400 psig, 45°F @ 400 psig
Dust, gum, solids	=	commercially free of
Heating value	=	min. of 970 Btu, dry basis
Temperature	=	50°F - 105°F
Toxics	=	not hazardous <u>to</u> health
Interchangeability	=	AGA Bulletin No. 36 indices
Odorization	=	CPUC G0112D, Section 192.625(b)

\*Maximum H<sub>2</sub>S set by CPUC G.O. No. 58A&B

7.3 All Gas should be delivered to the receiving party at sufficient pressure to enter the receiving party's Utility System at the Delivery and/or Redelivery Point(s) provided, however, such delivery pressure shall not be in excess of that pressure contained on the applicable Exchange Tap Information Sheet in Appendix A.

7.4 Neither party shall be obligated to receive or deliver Gas at Delivery and/or Redelivery Point(s), except at times when the capacity of the Requesting or Delivering Party's Utility System is sufficient to receive or deliver the Gas without detriment to service to others.

## ARTICLE VIII

### MEASUREMENT

8.1 Unless otherwise agreed to by the parties, the Delivering Party shall install, own, operate, and maintain suitable measuring devices and necessary related instrumentation at each Point of Delivery for the purpose of measuring the volume and quality of all Gas delivered. Orifice meters will be installed to comply with the most recent version of American National Standard Institute Report ANSI/API 2530 at the time of the meter installation. Other types of measuring devices will be

installed to comply with manufacturers' recommendations and all applicable American Gas Association standards in effect at the time. The party owning the measurement facility shall be responsible for carrying out measurement activities as provided for in this Article VIII unless otherwise agreed.

8.2 Gas volume shall be measured in standard Cubic Feet. Gas volume calculations for orifice meters shall be performed in accordance with the most recent version of ANSI/API 2530. If other types of measuring devices are used, volumes shall be corrected to standard conditions using the Ideal Gas Law and a compressibility factor which is the square of the supercompressibility factor determined in accordance with the most recent version of ANSI/API 2530.

8.3 The party owning the measurement facilities shall calibrate such meters and devices and the other party may have its representative present at such calibrations. The non-owning party shall have the right to request a special calibration of any meter at any reasonable time; however, if any such requested special calibration shows that the meter was registering within two percent (2%) of rated full scale meter capacity, then the cost of such requested special calibration shall be borne by the non-owning party. In the event any calibration of a meter does not register within one percent (1%) at the average rate while flowing, the metering equipment shall be immediately restored to a condition of accuracy and the quantity of Gas theretofore delivered and received shall be recalculated and corrected for any period where such inaccuracy was definitely known or agreed

upon. If the period of time is not definitely known or agreed upon, then such recalculation shall only be made for a period covering one-half of the elapsed time since the last calibration test but not to exceed a period of more than sixteen (16) Days.

8.4 The non-owning party may install or cause to be installed and operate check meters at its option and expense to check the owning party's meters, but measurement of Gas for the purpose of this Agreement shall be by the owning party's meters. Such check meters and equipment shall be installed so as not to interfere with the operation of the meters and measuring equipment now existing or to be installed by the owning party.

8.5 The Heating Value and specific gravity shall be determined from read-outs of continuously operating measuring instruments or from analysis of Gas collected by composite samplers. The Heating Value shall be determined by calorimeter, Gas chromatograph, or other instruments approved for this use by the CPUC. The specific gravity shall be determined by gravitometer, Gas chromatograph, or other instruments acceptable to both parties. Measurement of Heating Value with calorimeters shall comply with the standards set forth in the American Society for Testing and Materials' ASTM D 1826-83 or any subsequent revision. Analysis of Gas with Gas chromatographs shall comply with the standards set forth in ASTM D 1945-81 or any subsequent revision. Calculation of Heating Value and specific gravity from compositional analysis by Gas chromatography shall comply with the standards set forth in ANSI/API 253. Measurement of specific

gravity with a gravitometer shall comply with the standards set forth in ASTM D 1070-73 or any subsequent revision. Gas sampling apparatus and techniques shall be in accordance with accepted industry standards and practice.

8.6 Each party shall have the right to be present at the time of any installing, reading, cleaning, changing, repairing, inspecting, testing, calibrating, or adjusting done in connection with the other's measuring equipment used in measuring deliveries and redeliveries hereunder. The records from such measuring equipment shall remain the property of their owner, but upon request each party will make available to the other during normal business hours copies of such records and charts, together with calculations therefrom, for inspection and verification.

8.7 The parties agree to use the Mcf and Btu values determined by the owning party for the calculation of deliveries of Gas hereunder, subject to any subsequent adjustments as provided herein.

## ARTICLE IX

### REGULATORY REQUIREMENTS

9.1 This Agreement shall be expressly contingent upon the approval of the CPUC and shall at all times be subject to such changes or modifications by the CPUC as it may from time to time direct in the exercise of its jurisdiction.

9.2 Gas delivered hereunder shall be for use only within the State of California and the sale and redelivery of all Gas to third parties shall conform to all applicable regulations

and tariffs of the CPUC. Neither party shall take any action which subject the other to the jurisdiction of the Federal Energy Regulatory Commission or any succeeding agency. Any such action shall be cause for immediate termination of this Agreement.

9.3 If any governmental agency shall, at any time, prevent either party from complying with this Agreement in any respect, then within thirty (30) Days of such act either party may, upon thirty (30) Days written notice to the other party, terminate this Agreement without further liability or obligation of either party to the other, except as to any money or Gas then due and payable as provided by this Agreement.

9.4 Nothing in this Agreement shall be construed as providing a basis, directly or indirectly, for changing the boundaries of either party's service territory as otherwise established. Nothing in this Agreement shall be construed as providing, directly or indirectly, for the establishment of public utility Gas service by either party within the system of the other. Service under any provision of this Agreement by one party for the other shall not constitute the dedication of the Utility System or any portion thereof of either party to the public.

9.5 The several provisions of this Agreement are not intended to and shall not create rights of any character whatsoever in favor of any persons, corporations or associations other than the parties to this Agreement, and the obligations herein assumed are solely for the use and benefit of the parties to this Agreement.

ARTICLE X

INDEMNIFICATION

The parties respectively, will each indemnify the other and hold the other harmless from any and all loss, damage, expense and liability of every kind and character resulting from injuries to or death of persons, including but not limited to employees of either party hereto, and damage to or destruction of property, including but not limited to the property of either party hereto, arising out of, or in any way connected with the performance of this Agreement by the indemnifying party, its agents or employees, excepting only such injury, death, damage, or destruction as may be caused by the sole negligence or willful misconduct of the indemnified party, its agents or employees. The indemnifying party shall, upon the other party's request, defend any suit asserting a claim covered by this indemnity, and shall pay all costs that may be incurred by said other party in enforcing this indemnity, including reasonable attorney's fees as set by a court of competent jurisdiction.

ARTICLE XI

FORCE MAJEURE

11.1 If either party hereto is rendered unable, wholly or in part, by an event of force majeure to carry out its obligations under this Agreement, it is agreed that upon such party's giving notice and full particulars of such an event of force majeure in writing or by telecopy to the other, then the obligations of the party giving notice, except for unpaid Gas or financial obligations to each other which shall have become due

prior to such an event of force majeure, so far as they are affected by such an event of force majeure, shall be suspended during the continuance of any such inability so caused but for no longer period. The affected party shall use its best efforts to remedy or cause to be remedied such cause of suspension of its obligations as soon as practicable with all reasonable dispatch.

11.2 The term "force majeure" shall mean any cause not reasonably within the control of the party claiming suspension and which by the exercise of due diligence such party is unable to prevent or overcome. Such term shall include, without limitation: (a) the inability of either party to acquire, or delays in acquiring, at reasonable cost and after the exercise of reasonable diligence, necessary servitudes, right-of-way grants, permits or licenses; (b) the inability or delay of either party in acquiring, at reasonable cost and after the exercise of reasonable diligence, necessary materials and supplies, authorizations and permits; (c) actions by duly authorized governmental agencies which prevent either party from performing its obligations under this Agreement; and (d) to acts of God; strikes or other industrial disturbances; acts of the public enemy; the direct or indirect effect of governmental orders, actions, or interferences; civil disturbances; explosions; landslides; lightning; earthquakes; fires; storms; floods and washouts; breakage or accidents to machinery or lines of pipe; or any other cause or causes of whatsoever nature (whether like or

unlike the foregoing), not due to the fault or neglect of such party and beyond its reasonable control. Normal maintenance and repairs to a Utility System are not events of force majeure for purposes of this Agreement.

11.3 Settlement of strikes and lockouts shall be entirely within the discretion of the party affected, and the requirement that any event of force majeure shall be remedied as soon as practicable and shall not require the settlement of strikes and lockouts by acceding to the demands of the parties directly or indirectly involved in such strikes or lockouts when such course is inadvisable in the discretion of the party experiencing such difficulty. No declaration of force majeure shall serve to extend the term of this Agreement beyond its term as set forth in Article II.

## ARTICLE XII

### TITLE TO GAS

Title to and ownership of all Gas delivered and/or exchanged hereunder shall pass at the Delivery or Redelivery Point(s) and risk of loss of volumes delivered or exchanged hereunder shall follow title.

## ARTICLE XIII

### ASSIGNMENT

All of the provisions, covenants, agreements and stipulations contained herein by which either party is bound shall in like manner be binding upon the successors and assigns of such party and those which are for the benefit of either of

the parties hereto shall in like manner inure to the benefit of the successors and assigns of such party; provided, however, that neither party hereto shall assign this Agreement or any interest herein without first obtaining the written consent of the other party hereto, which consent shall not be unreasonably withheld. Notice only is required if an assignment of the entire interest of the assigning party hereunder is made to a parent or Affiliate of such assigning party or to an entity succeeding to all or substantially all of the business properties and assets of the assigning party.

#### ARTICLE XIV

##### CONFORMITY WITH LAWS

14.1 Both parties shall observe and comply with all applicable laws, rules, orders, ordinances, codes and regulations of governmental agencies, including federal, state, municipal and local governments and judicial bodies, having jurisdiction over the parties or this Agreement.

14.2 At the time this Agreement is executed, the parties hereto understand that if either party purchases \$10,000 or more from the other in goods or services, the purchasing party is subject to the requirements of 41 CFR 60-1.4 and Executive Order 11246 (non-discrimination on the basis of race, color, religion, sex or national origin); and, the requirement of 41 CFR 60-741.4 (non-discrimination against the handicapped). The parties hereby notify the other of the policy of the United States, the CPUC and of each party to encourage subcontracting with small businesses, minority-owned businesses and women-owned

businesses. Either party may have to file annual reports on form VETS-100 with the Secretary of Labor on that party's employment and hiring of Vietnam Era Veterans and special disabled veterans. If either party purchases \$50,000 or more in goods or services from the other party and the other party has 50 or more employees, the second party is subject to 41 CFR 60-1.40(a), 60-741.5 (written affirmative action compliance plan, affirmative action for Vietnam Veterans and handicapped individuals). The parties recognize that, as indicated in Article XIV, paragraph 14.1, additional governmental requirements may be imposed which will require them to be listed in the Agreement as recognition that the parties will comply therewith. The parties shall cooperate to modify or supplement this Agreement as necessary to evidence such compliance.

14.3 This Agreement and the obligations of the parties hereunder shall be controlled by the laws of the State of California. Ambiguities or uncertainties in the wording of this Agreement shall not be construed for or against either party, but shall be construed in a manner which most accurately reflects the intent of the parties when this Agreement was executed.

#### ARTICLE XV

##### RIGHT TO AUDIT

15.1 No director, employee or agent of either party shall give or receive any commission, fee, rebate, gift or entertainment of significant cost or value in connection with the negotiation or performance of this Agreement. Any

representative(s) authorized by either party may at its own cost, reasonably audit the applicable records of the other party solely for the purpose of determining whether there has been compliance with this paragraph 15.1.

15.2 In the event of any dispute as to the Gas or amounts owed hereunder, redelivery or payment shall be made as provided for in Articles III, V, and VI, but such redelivery or payment shall not be deemed to be a waiver of any rights to recoup any amounts in dispute. All reasonable efforts shall be made by the parties to resolve any dispute billing or computation.

15.3 Each party and its duly authorized representatives shall have reasonable access to the accounting records maintained by the other party which directly relate to the quantity or quality of Gas delivered or redelivered under this Agreement. Each party shall also have the right at its sole expense to audit such records from time to time and at any reasonable time for two (2) years after the date of delivery or redelivery of Gas hereunder which right survives after any termination of this Agreement.

## ARTICLE XVI

### NOTICES

Any notice to be given hereunder by either party to the other party shall be deemed received by the latter on the third Day following the date of deposit thereof in a United States Post Office, enclosed in a sealed envelope with requisite first class

postage thereon or, in instances where express or overnight mail service is used, on the Day either party receives said notice and signs the express or overnight mail package receipt, any notice respectively addressed as follows:

- (a) Any formal notice, request or demand concerning this Agreement shall be given in writing at the following addresses:

To SoCalGas:

Southern California Gas Company  
Box 3249 Terminal Annex, ML 103K  
Los Angeles, CA 90051  
Attn.: Manager of Gas Acquisition

To PG&E:

Pacific Gas and Electric Company  
245 Market Street, Room 1218  
San Francisco, CA 94106  
Attn.: Manager, Gas Supply Management Department

- (b) Statements, accounting, summaries, invoices and payments shall be sent by first class mail to the following addresses:

To SoCalGas:

Southern California Gas Company  
Box 3249 Terminal Annex, ML 305H  
Los Angeles, CA 90051  
Attn: Gas Accounting Supervisor

To PG&E:

Pacific Gas and Electric Company  
77 Beale Street, Room 1610  
San Francisco, CA 94106  
Attn.: Supervising Gas Accountant

(c) Operating communications by telephone shall be directed as follows:

To SoCalGas:

Gas Control  
(24 hours)  
(213) 266-5840  
Telecopy: (213) 260-4642

To PG&E:

Gas Control Department  
Asst. Chief Gas Dispatcher  
(415) 972-3220  
Telecopy: (415) 972-0649

Electronic transfer of any communication via telecopy machine and/or computer accessed modem may be utilized, but notice requirements will be deemed met only as outlined in this Article XVI, (a), (b) and (c). Each of the parties shall have the right from time to time to change its address or representative by giving written notice to the other.

#### ARTICLE XVII

##### WAIVERS AND EARLY TERMINATION FOR CAUSE

17.1 A waiver by either party at any time of its rights with respect to a default under this Agreement or with respect to any other matter in connection with this Agreement, shall not be deemed a waiver with respect to any other or subsequent default or matter whether of a like or of a different character. No delay, short of the statutory period of limitation, in asserting or enforcing any right hereunder shall be deemed a waiver of or limitation of such right.

17.2 If either party breaches the terms of this Agreement, or fails to observe and comply with all applicable laws, rules, orders, ordinances, codes and regulations, including any current or future applicable tariff schedules, and does not upon written notice of said breach or noncompliance, proceed with

due diligence to correct the situation, the other party shall have the right to cease delivery or redelivery of Gas hereunder to any or all Delivery or Redelivery Point(s) and may immediately terminate this Agreement as it applies to an individual Delivery or Redelivery Point(s) or the Agreement as a whole.

## ARTICLE XVIII

### ARBITRATION

In the event that any dispute, difference, question, controversy, or impasse occurs regarding the meaning, interpretation, effect or manner of implementation of this Agreement, or any provision thereof or performance thereof, which cannot be resolved after good faith discussion between the parties within a reasonable period of time; then upon written notice by either party, the matter shall be submitted to binding arbitration pursuant to the rules of the American Arbitration Association (including any rules for expedition of the hearing process); provided, however, such rules shall be modified, as necessary, to reflect the following:

(a) The arbitration panel shall consist of three persons, each of which shall have spent at least ten (10) years in the natural gas industry at entities other than the parties hereto including the parties's parent or subsidiary entities;

(b) A written decision determining the issues involved shall be issued not more than sixty (60) days following the final submission of the matter for decision;

(c) Such decision shall thereafter be deemed to be part of this Agreement and incorporated by reference herein;

(d) Pending such decision, the parties shall continue to operate under the Agreement as on the date the arbitration was requested; however, the decision by the panel should consider specifically the appropriateness of retroactive adjustments to the date the dispute, etc. first arose;

(e) Such arbitration shall be held at a location to be agreed by the parties, or, failing such agreement, at San Luis Obispo, California.

(f) The allocation of the costs of arbitration shall be considered and determined by the Arbitration Panel in connection with its decision, and, for example, the entire costs of such proceeding, including reasonable attorneys fees (for in-house and outside counsel) may be awarded to the prevailing party;

(g) The parties hereby waive any and all rights to a "stay" of the arbitration proceeding pending litigation under Section 1281.2 of the California Code of Civil Procedure, as arbitration is intended as the exclusive remedy for resolving disputes (although this is not intended as an attempt to avoid any applicable governmental authority);

(h) Time shall be of the essence in reaching an early decision in a matter and any reasonable means for expedition of the process shall be utilized by the American Arbitration Association (in connection with the selection of an Arbitration Panel) and by the Arbitration Panel in commencing and completing the hearing; and

(i) An arbitration award shall be final, conclusive and binding on both parties, and may be filed in any appropriate court for enforcement. In the event that it is necessary to enforce such award, all costs of enforcement, including reasonable attorney fees (for in-house or outside counsel), shall be payable to the prevailing party.

## ARTICLE XIX

### TERMINATION OF PRIOR AGREEMENTS

The parties having entered into this Agreement, do hereby mutually agree that the listed prior Agreements, between the parties, together with all modifications and amendments thereto shall be deemed superseded and terminated as of the Effective Date of this Agreement except to any monies or Gas due either party as of that date:

- (a) Agreement dated June 28, 1949 providing for the exchange of Gas in the Burrell Gas field.
- (b) Agreement dated July 7, 1950 providing for the exchange of Gas at various locations.
- (c) Agreement dated October 12, 1950 providing for the exchange of Gas to PG&E at Taft, Fellows and Maricopa.
- (d) Agreement dated April 1, 1954 providing for PG&E to exchange Gas to SoCalGas at Mojave.
- (e) Agreement dated December 11, 1956 providing for PG&E to exchange Gas to SoCalGas at Monolith.

- (f) Agreement dated November 1, 1962 providing for exchange of Gas in the San Luis Obispo area.
- (g) Agreement dated January 8, 1964 providing for exchange of Gas to SoCalGas in the Atascadero area.
- (h) Agreement dated January 8, 1964 providing for exchange of Gas to SoCalGas in the Pisgah area.
- (i) Agreement dated August 1, 1967 providing for exchange of Gas to SoCalGas when SoCalGas's Needles Compressor Station is inoperative.
- (j) Agreement dated September 23, 1969 providing for exchange of Gas in the Morro Bay area.
- (k) Agreement dated March 4, 1970 providing for exchange of Gas to PG&E at Avenal.
- (l) Agreement dated March 16, 1970 providing for exchange of Gas in the San Ardo - Adelaida area.
- (m) Agreement dated December 29, 1971 providing for exchange of Gas in the San Joaquin Valley - Kettleman Hills area.
- (n) Agreement dated July 29, 1974 providing for the return of Mutual Assistance Agreement Gas.
- (o) Agreement dated March 1, 1977 providing for exchange of Gas in the Chester Avenue - Bakersfield area.
- (p) Agreement dated July 13, 1979 providing for the design and construction of V.# 0.24B meter station near Topock.
- (q) Agreement dated October 28, 1983 providing for exchange of Gas in the Morro Bay area.

- (r) Agreement dated July 15, 1980 providing for certain exchange services between the parties at Elk Hills Naval Petroleum Reserve, Tupman, California.
- (s) Agreement dated April 25, 1988, providing for exchange of Gas to PG&E in the Victorville area. (Roundup Way and Victorville).
- (t) Agreement dated November 18, 1988, providing for exchange of Gas in the Hesperia (Los Flores Rd.) area.
- (u) Agreement dated July 24, 1989, providing for exchange of Gas in the Burrell area.
- (v) Agreement dated July 24, 1989, providing for exchange of Gas to PG&E in the Rancho Rd. (Adelanto) area.
- (w) Agreement dated July 24, 1989, providing for exchange of Gas to PG&E in the Baldy Mesa Rd. (Baldy Mesa area) area.
- (x) Agreement dated July 24, 1989, providing for exchange of Gas to PG&E in the Smoketree Lane (Phelan area) area.

## ARTICLE XX

### MISCELLANEOUS

20.1 Severability: If any provision of this Agreement shall be held invalid, illegal or unenforceable to any extent and for any reason by a court of competent jurisdiction, the remainder of this Agreement shall not be affected thereby and shall be enforceable to the full extent permitted by law.

20.2 Integration: This Agreement constitutes the entire agreement between the parties pertaining to the transactions described herein and may not be modified except by written agreement of the parties. The parties and their legal counsel have cooperated in the drafting of this Agreement and it shall therefore be deemed their joint work product and shall not be construed against either party by reason of its preparation.

20.3 Publicity: All notices to or other communication with third parties and all publicity concerning this Agreement and the transactions contemplated herein shall be jointly planned and coordinated by and between the parties hereto. Neither party shall act unilaterally regarding such notices, communication and publicity without the prior approval of the other, which approval shall not be unreasonably withheld. This provision is not intended to prevent notices, testimony, responses to data requests, routine regulatory filings and normal information exchange between the party, party's affiliates, and regulatory agencies having jurisdiction, either directly or indirectly, over the parties. The parties agree to maintain due diligence to safeguard any and all proprietary information, terms and conditions contained herein and prevent the release of such to third parties without the other's written approval.

20.4 Further Assurances: Each party shall do all necessary acts and make, execute, and deliver such written instruments as shall from time to time be reasonably required to carry out the terms of this Agreement.

ARTICLE XXI

APPENDICES

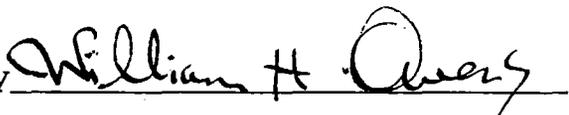
Appendix A, EXCHANGE TAP INFORMATION SHEETS AND EXCHANGE TAP INFORMATION SHEET SUMMARY, Appendix B, PAYMENT ACCOUNTING SUMMARY, Appendix C, ZONES and Appendix D, TOPOCK (V.#024B) which are referred to in this Agreement are attached hereto and by this reference incorporated herein as though set forth at length.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their respective duly authorized officers in duplicate originals of equal dignity of this Agreement as of the date first hereinabove written.

PACIFIC GAS AND ELECTRIC COMPANY

SOUTHERN CALIFORNIA GAS COMPANY

By 

By 

Title Vice President, Gas Supply

Title Vice President

*NYD  
10-23-89  
RMD  
10-23-89*

Effective Date: May 01, 2021  
Revision No.: Seventeen (17)

APPENDIX A  
MASTER EXCHANGE GAS DELIVERY AGREEMENT  
Between  
PACIFIC GAS AND ELECTRIC COMPANY  
And  
SOUTHERN CALIFORNIA GAS COMPANY

Exchange Tap Information Sheet Summary

<u>Exchange Point</u>	<u>Delivery To</u>	<u>Type of Exchange</u>	<u>Effective Date</u>
Arvin/Lamont	SoCalGas	Ongoing	01/01/15
Avenal	PG&E	Standby	03/01/90
Bakersfield (SCG L7039)	PG&E	Ongoing	07/07/92
Bakersfield Station 3 (Allen & Stockdale)	PG&E	Ongoing	03/01/90
Buena Vista	SoCalGas	Standby	11/01/92
Burrell Station Intertie	SoCalGas	Standby	03/01/90
Burrell Area	SoCalGas	Ongoing	03/01/90
Buttonwillow	SoCalGas	Standby	03/01/90
Creston	PG&E	Ongoing	03/01/90
Creston 2	SoCalGas	Ongoing	07/01/00
Elk Hills	PG&E	Standby	03/01/90
Fellows	PG&E	Ongoing	03/01/90
Kern River Tap (Gosford Intertie)	Two-way	Standby	03/01/90
Kettleman Intertie	SoCalGas	Standby	03/01/90
Kettleman Station Interconnect	SoCalGas	Ongoing	05/01/21
Line 44-306 Area	PG&E	Ongoing	05/01/21
Maricopa	PG&E	Ongoing	07/07/92
Mojave	SoCalGas	Standby	03/01/90
Monolith	SoCalGas	Standby	11/01/92
Oildale (Chester Avenue)	PG&E	Standby	03/01/90
Raisin City	SoCalGas	Ongoing	03/01/90
Rio Bravo-Jasmine	PG&E	Ongoing	07/07/92
San Joaquin (Agrico)	SoCalGas	Ongoing	11/01/92
San Joaquin II	SoCalGas	Ongoing	11/01/92
Selma	PG&E	Ongoing	03/01/90
Shandon	PG&E	Ongoing	03/01/90
Shandon (Unocal pump station)	PG&E	Ongoing	05/01/96
Sullivan Road	PG&E	Ongoing	12/15/94
Taft (Lincoln & Ash)	PG&E	Ongoing	03/01/90
Taft	SoCalGas	Ongoing	03/01/90
Topock (El Paso)	Two-way	Standby	03/01/90

Superseded May 1, 2021

Effective Date: January 20, 2015

Revision No.: Sixteen(16)

**APPENDIX A**  
**MASTER EXCHANGE GAS DELIVERY AGREEMENT**  
Between  
**PACIFIC GAS AND ELECTRIC COMPANY**  
And  
**SOUTHERN CALIFORNIA GAS COMPANY**  
**Exchange Tap Information Sheet Summary**

<u>Exchange Point</u>	<u>Delivery To</u>	<u>Type of Exchange</u>	<u>Effective Date</u>
Arvin/Lamont	SoCalGas	Ongoing	01/01/15
Atascadero (a.k.a. Edelman)	SoCalGas	Standby	03/01/90
Avenal	PG&E	Standby	03/01/90
Bakersfield (SoCalGas L-7039)	PG&E	Ongoing	07/07/92
Bakersfield Station 3 (Allen & Stockdale)	PG&E	Ongoing	03/01/90
Buena Vista	SoCalGas	Standby	11/01/92
Burrell Station Intertie	SoCalGas	Standby	03/01/90
Burrell Area	SoCalGas	Ongoing	03/01/90
Buttonwillow	SoCalGas	Standby	03/01/90
Creston	PG&E	Ongoing	03/01/90
Creston 2	SoCalGas	Ongoing	07/01/00
Elk Hills	PG&E	Standby	03/01/90
Fellows	PG&E	Ongoing	03/01/90
Kern River Tap (a.k.a. Gosford Intertie)	Two-Way	Standby	03/01/90
Kettleman Intertie	SoCalGas	Standby	03/01/90
Maricopa	PG&E	Ongoing	07/07/92
Mojave	SoCalGas	Standby	03/01/90
Monolith	SoCalGas	Standby	11/01/92
Morro Bay	SoCalGas	Standby	11/01/92
Oildale (Chester Avenue)	PG&E	Standby	03/01/90
Raisin City	SoCalGas	Ongoing	03/01/90
Rio Bravo-Jasmine	PG&E	Ongoing	07/07/92
San Joaquin	SoCalGas	Ongoing	11/01/92
San Joaquin II	SoCalGas	Ongoing	11/01/92
Selma	PG&E	Ongoing	03/01/90
Shandon	PG&E	Ongoing	03/01/90
Shandon (Unocal Pump Stations)	PG&E	Ongoing	05/01/96
Sullivan Road	PG&E	Ongoing	12/15/94
Taft (Lincoln & Ash)	PG&E	Ongoing	03/01/90
Taft	SoCalGas	Ongoing	03/01/90
Templeton	SoCalGas	Ongoing	03/01/90
Topock (El Paso)	Two-Way	Standby	03/01/90

Effective Date: January 20, 2015

Revision No.: Sixteen (16)

## **EXCHANGE TAP INFORMATION SHEET**

Tap Name: Arvin/Lamont

Tap Location(s):

1) on PG&E's 34" pipeline L-300 A at the corner of N. Ranch Dr. & Kenmar Lane, Arvin, CA;

2) another tap on PG&E's 34" pipeline L-300 B where it crosses N. Ranch Dr., Arvin, CA

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Ongoing

Volume Limits (max. daily):

750 MSCFH

Range of Operating Pressures Prevailing~ in Receiving Party's Pipeline System at Tap Location:

400 psig to 757 psig

Facility Ownership Information:

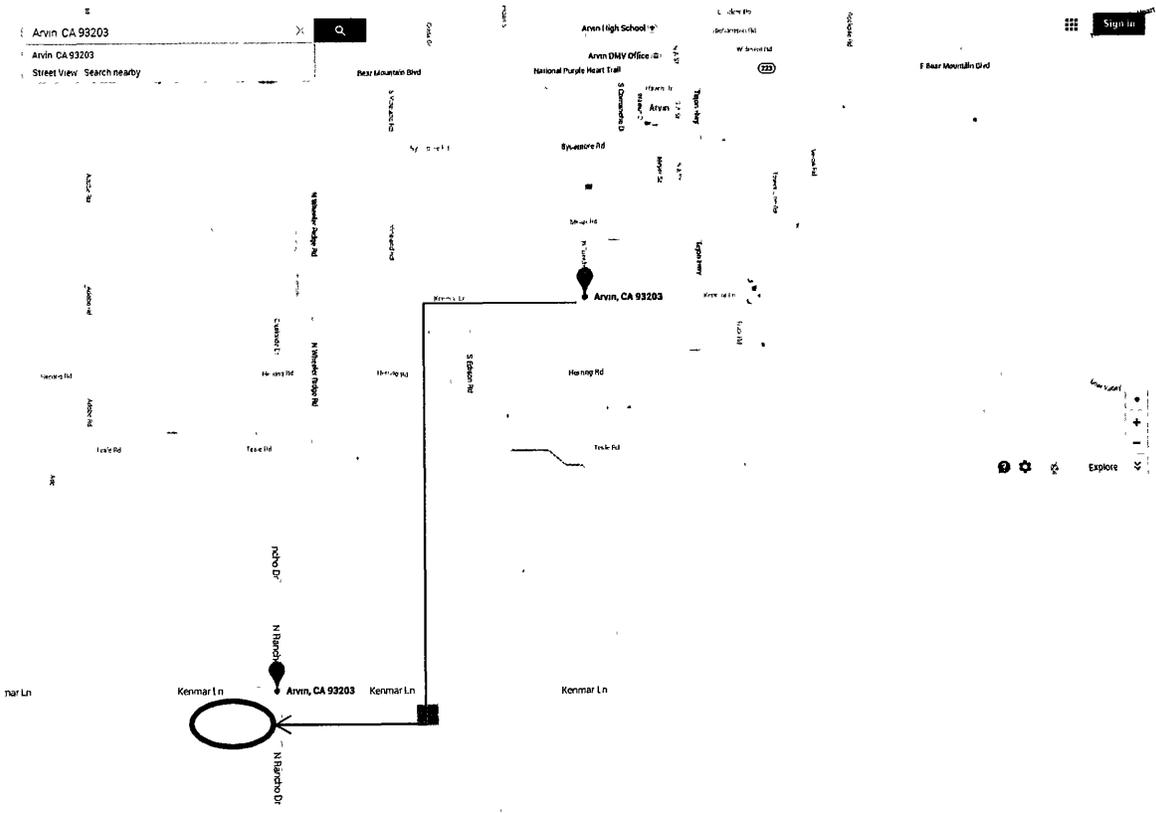
PG&E owns and operates the meter located at PG&E's Lamont Meter Station used to measure exchange gas volumes from PG&E to SoCalGas.

Use of Exchange Tap:

Provide service for additional support of the SoCalGas Arvin/Lamont system.

Special Condition:

PG&E Zone - # 4



PG&E Lamont Meter Station Arvin CA.

EXCHANGE TAP INFORMATION SHEET

Tap Name:

Adelaida

Tap Location:

At Mobil's Adelaida Pump Station off of Vineyard Dr. 1.4 miles south of Adelaida Rd., west of Paso Robles.

Delivery to (Requesting Party):

PG&E

Type of Exchange:

Ongoing

Volume Limits (max. daily):

Maximum approximately 7,000 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

400 psig maximum

Facility Ownership Information:

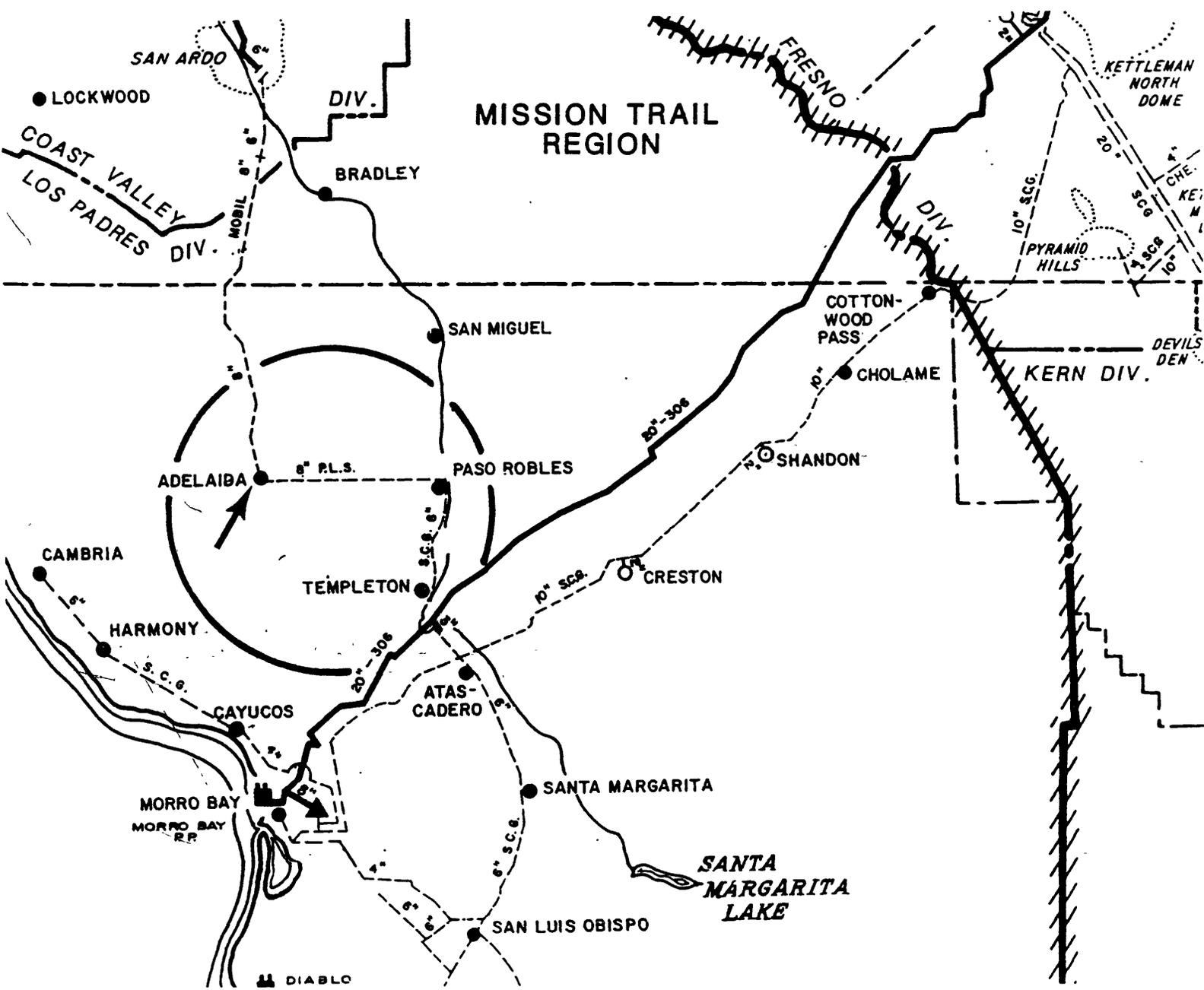
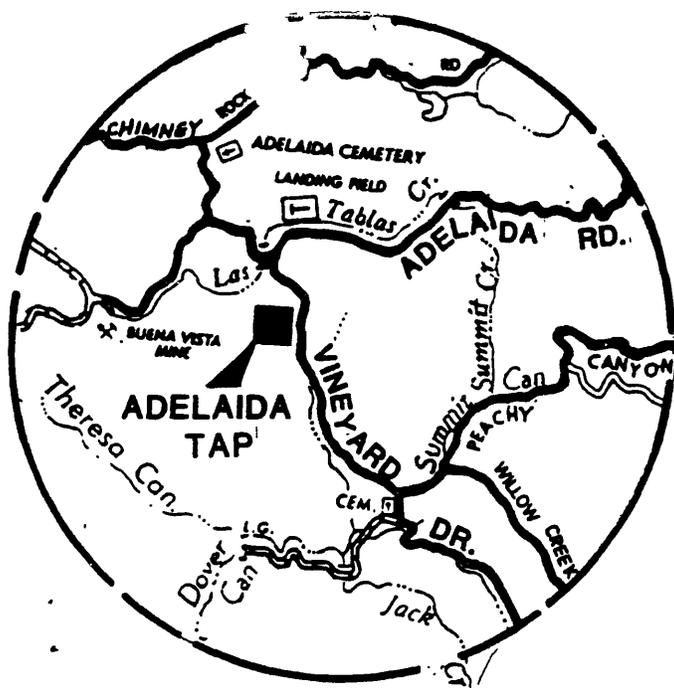
SoCalGas Meter No. 3893438 at Mobil Oil Corp pipeline.

Use of Exchange Tap:

PG&E delivers gas from Line 306 to SoCalGas L909. (See Atascadero Exchange Tap Information Sheet) SoCalGas delivers gas to Mobil Oil Co. pipeline at Adelaida for the account of PG&E.

Special Conditions:

SoCalGas Zone - #4



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Atascadero (a.k.a. Edelman)

Tap Location:

750' west of Highway 101 and San Ramon overpass on the Edelman Ranch. Tap at M.P. 54.83 on PG&E's L-306 delivering to SoCalGas's L-909.

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Ongoing

Volume Limits (max. daily):

17,000 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

Normal 400 psig  
Minimum required 300 psig

Facility Ownership Information:

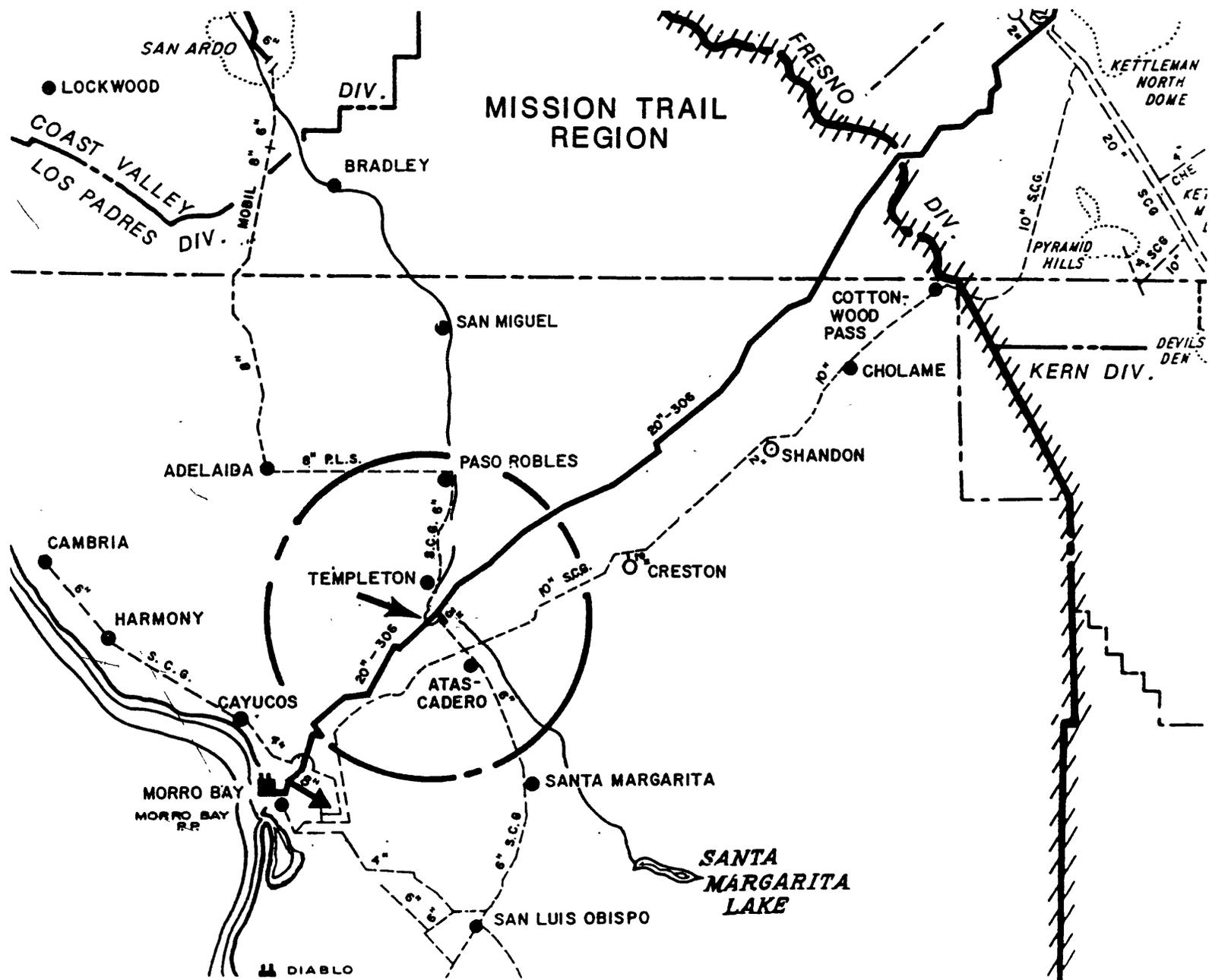
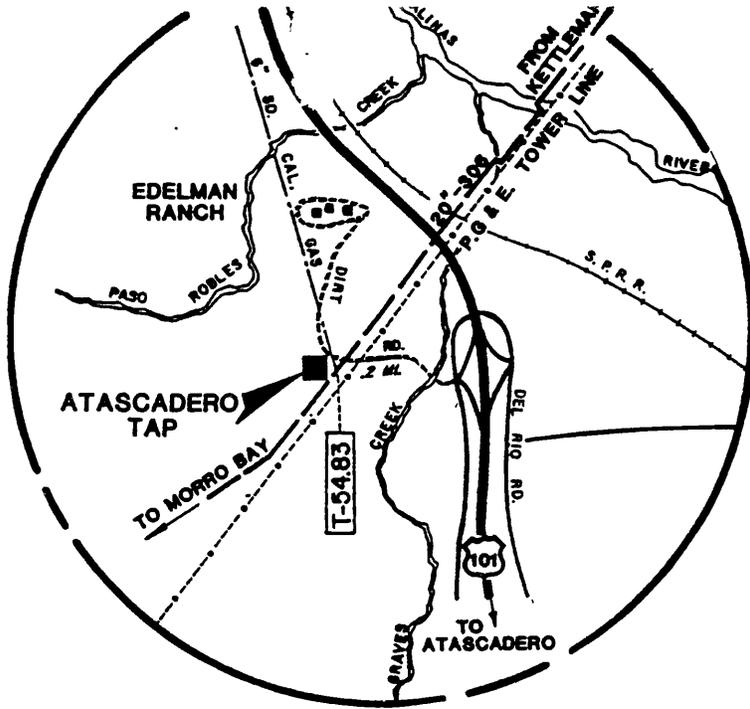
Meter and regulation owned by SoCalGas (O.M. 1087).

Use of Exchange Tap:

Gas received from PG&E tap is used to supply gas to the Paso Robles area, and balance is redelivered to PG&E customers in San Ardo via Adelaida through SoCalGas Meter No. 3893438, formally OM 5803. (See San Ardo Exchange Tap Information Sheet)

Special Conditions:

PG&E Zone - #4



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Avenal

Tap Location:

Approximately 1 mile east of Avenal-Lemoore Highway off of Corcoran/Hydril Road east of the town of Avenal (SoCalGas Lines #73 and #85).

Delivery to (Requesting Party):

PG&E

Type of Exchange:

Standby

Volume Limits (max. daily):

2,400 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

240 psig

Facility Ownership Information:

PG&E

Use of Exchange Tap:

PG&E is normal supplier with standby from SoCalGas.  
Standby supply to PG&E's pipeline serving the City of Avenal.

Special Conditions:

SoCalGas Zone - #4



Effective Date July 7, 1992  
Revision No. Original

**EXCHANGE TAP INFORMATION SHEET**

**Tap Name:**

Bakersfield (SoCalGas L-7039)

**Tap Location:**

Various PG&E Enhanced Oil Recovery (EOR) customers off of SoCalGas' L-7039 in the Kern River/Kern Front oil field area(s).

**Delivery to (Requesting Party):**

PG&E

**Type of Exchange:**

Ongoing

**Volume Limits (max. daily):**

50 MMcf/day

**Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:**

600 psig

**Facility Ownership Information:**

SoCalGas

**Use of Exchange Tap:**

To supply nine (9) current PG&E EOR customers: 1) Kern Front - PSE; 2) Kern River Steam; 3) Dexzel; 4) Chevron Sec. 31; 5) Chevron KCL-39; 6) Tenneco - Cork; 7) Chevron Sec. 3 - Cogen; 8) Chevron Sec. 3 - Steam; 9) Santa Fe Energy

**Special Conditions:**

SoCalGas Zone - #3

**EXCHANGE TAP INFORMATION SHEET**

**Tap Name:**

Bakersfield East (SoCalGas L-202)

**Tap Location:**

SoCalGas' L-202 on the east side of Bakersfield at China Grade Loop and Round Mountain Road(s).

**Delivery to (Requesting Party):**

PG&E

**Type of Exchange:**

Ongoing

**Volume Limits (max. daily):**

6,000 Mcf

**Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:**

230 psig

**Facility Ownership Information:**

SoCalGas

**Use of Exchange Tap:**

Supply to PG&E's Enhanced Oil Recovery customers off of SoCalGas' L-202.

**Special Conditions:**

SoCalGas Zone - #3

Tap Name:

Bakersfield (SoCalGas Station 4)

Tap Location:

On the south side of Brimhall Rd. west of Greeley Rd. (old PG&E Rosedale Station). Tap 1.66 on PG&E Line 142 delivers gas to SoCalGas Line 1102. Note: SoCalGas has two regulator stations on Brimhall at Greeley Rd.

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Standby

Volume Limits (max. daily):

25,000 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

350-400

Facility Ownership Information:

SoCalGas meter at Greeley & Brimhall Rds.

Use of Exchange Tap:

Manual valve operation, PG&E and SoCalGas personnel meet at the old PG&E Rosedale Station location to make any change simultaneously. PG&E opens a valve, SoCalGas opens a valve and places a meter in service.

Special Conditions:

PG&E Zone - #3



EXCHANGE TAP INFORMATION SHEETTap Name:

Bakersfield Station 3

Tap Location:

At the intersection of Allen and Stockdale Roads, on the west side of Allen, north of Stockdale. SoCalGas's Line 200.

Delivery to (Requesting Party):

PG&amp;E

Type of Exchange:

Ongoing

Volume Limits (max. daily):

240 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

45 psig

Facility Ownership Information:

SoCalGas

Use of Exchange Tap:

To supply 140 PG&amp;E customers

Special Conditions:

SoCalGas Zone - #3



**EXCHANGE TAP INFORMATION SHEET**

**Tap Name:**

Buena Vista

**Tap Location:**

At Buena Vista Road, 550' south of White Lane (formerly Frazier Rd.) In the Stockdale area of Kern County (PG&E's Line 300B, Milepost 278.30).

**Delivery to (Requesting Party):**

SoCalGas

**Type of Exchange:**

Standby

**Volume Limits (max. daily):**

250 Mcf/day

**Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:**

500 to 700 psig

**Facility Ownership Information:**

Meter and regulation owned by SoCalGas.

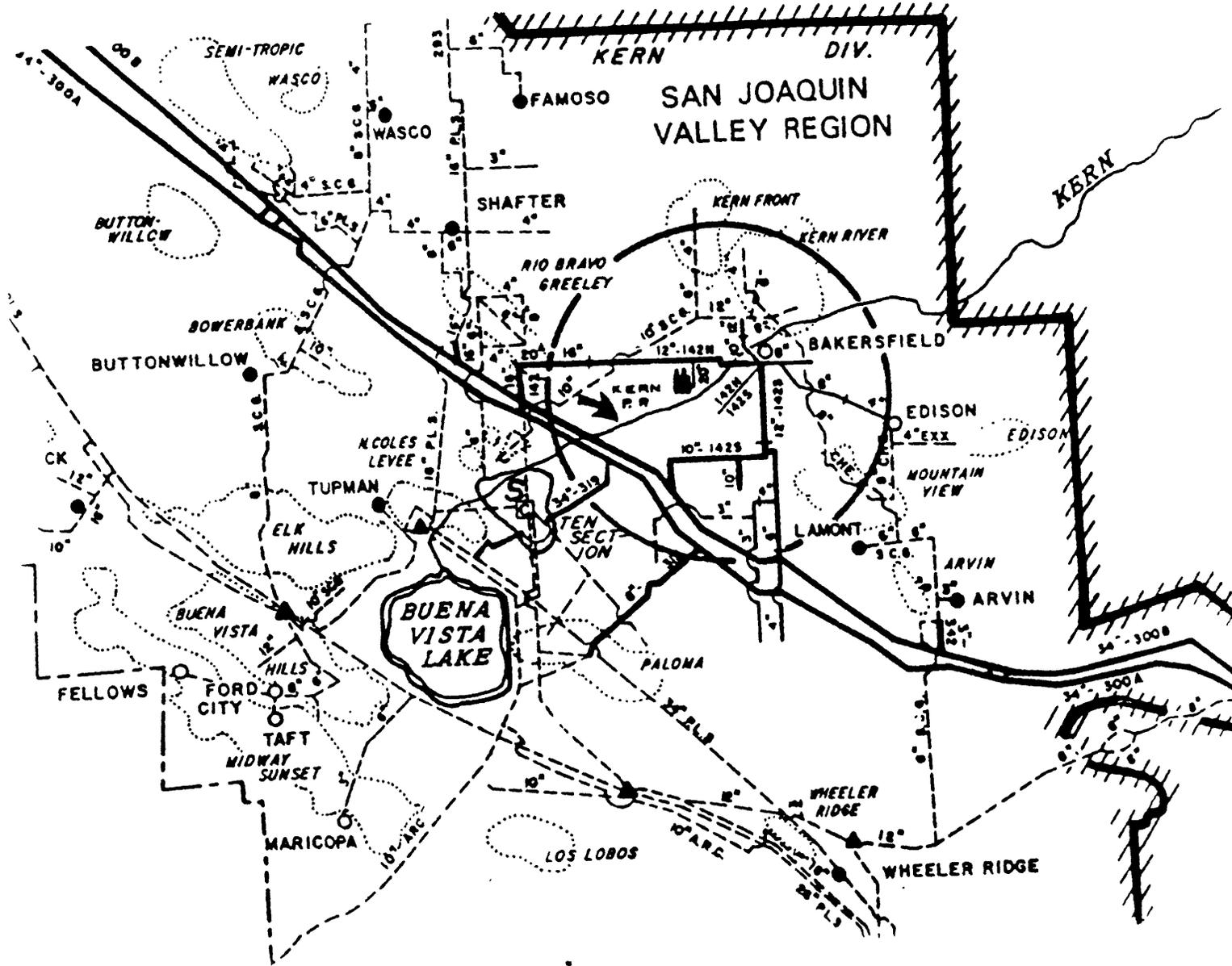
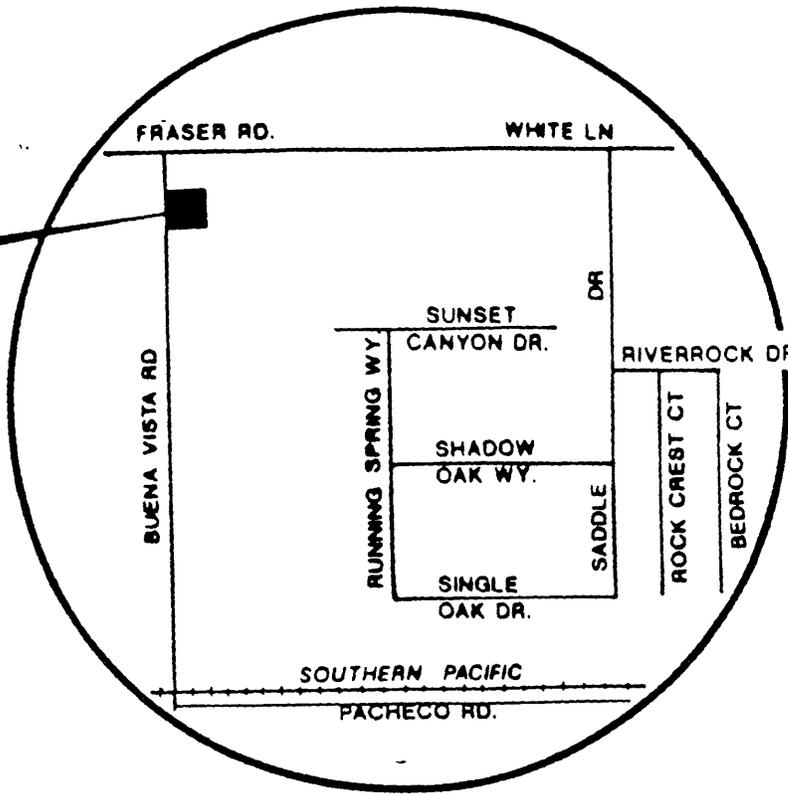
**Use of Exchange Tap:**

Standby tap for Stockdale area.

**Special Conditions:**

PG&E Zone - # 3

**BUENA VISTA  
TAP**



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Burrell Station Intertie

Tap Location:

South of the town of Burrell in the Burrell oil field approximately .1 mile west of Dower Avenue, south of Elkhorn Avenue. Burrell Station - Mile Point 22.04 on PG&E's Line 138, SoCalGas's Line 514.

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Standby

Volume Limits (max. daily):

96,000 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

SoCalGas - 550 psig

Facility Ownership Information:

PG&E

Use of Exchange Tap:

Support SoCal Gas Line 514

Special Conditions:

PG&E Zone - #4



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Burrell Area

Tap Location:

Four taps off PG&E's Line 138 at Mile Point 22.0, South of the town of Burrell on Dower Avenue between Elkhorn Avenue and Cerini Avenue.

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Ongoing

Volume Limits (max. daily):

96 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

25 psig to 42 psig

Facility Ownership Information:

SoCalGas owns main, regulation station, service and meter set assemblies.

Use of Exchange Tap:

Various SoCalGas customers off of PG&E's Line 138 in Burrell area.

Special Conditions:

PG&E Zone - #4



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Buttonwillow

Tap Location:

Mile Point 288.42 on PG&E's Line 300B, SoCalGas's Line 293  
On State Highway 58, 1/2 mile east of Mayer Ave.

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Standby \*

Volume Limits (max. daily):

225,000 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

500 to 700 psig

Facility Ownership Information:

Meter belongs to SoCalGas. Regulator belongs to PG&E.

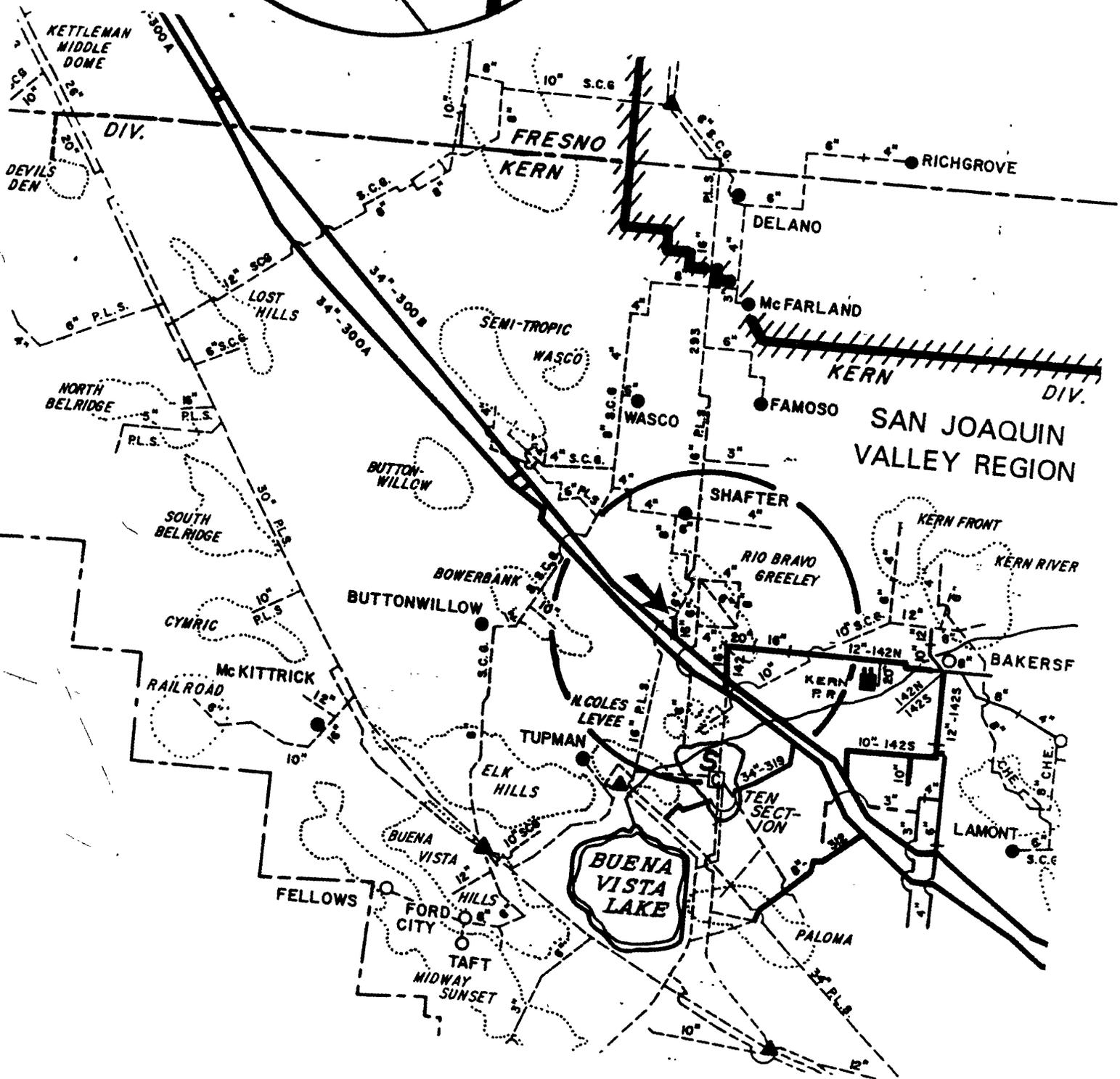
Use of Exchange Tap:

\*Standby support under this Master Exchange Agreement. However, this interconnection is used primarily as a delivery point for several other sales and transportation agreements.

Remotely controlled from PG&E's Kettleman Compressor Station.

Special Conditions:

PG&E Zone - #3



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Creston

Tap Location:

Various locations in the Creston area.

Delivery to (Requesting Party):

PG&E

Type of Exchange:

Ongoing

Volume Limits (max. daily):

4,800 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

250 psig

Facility Ownership Information:

PG&E meters

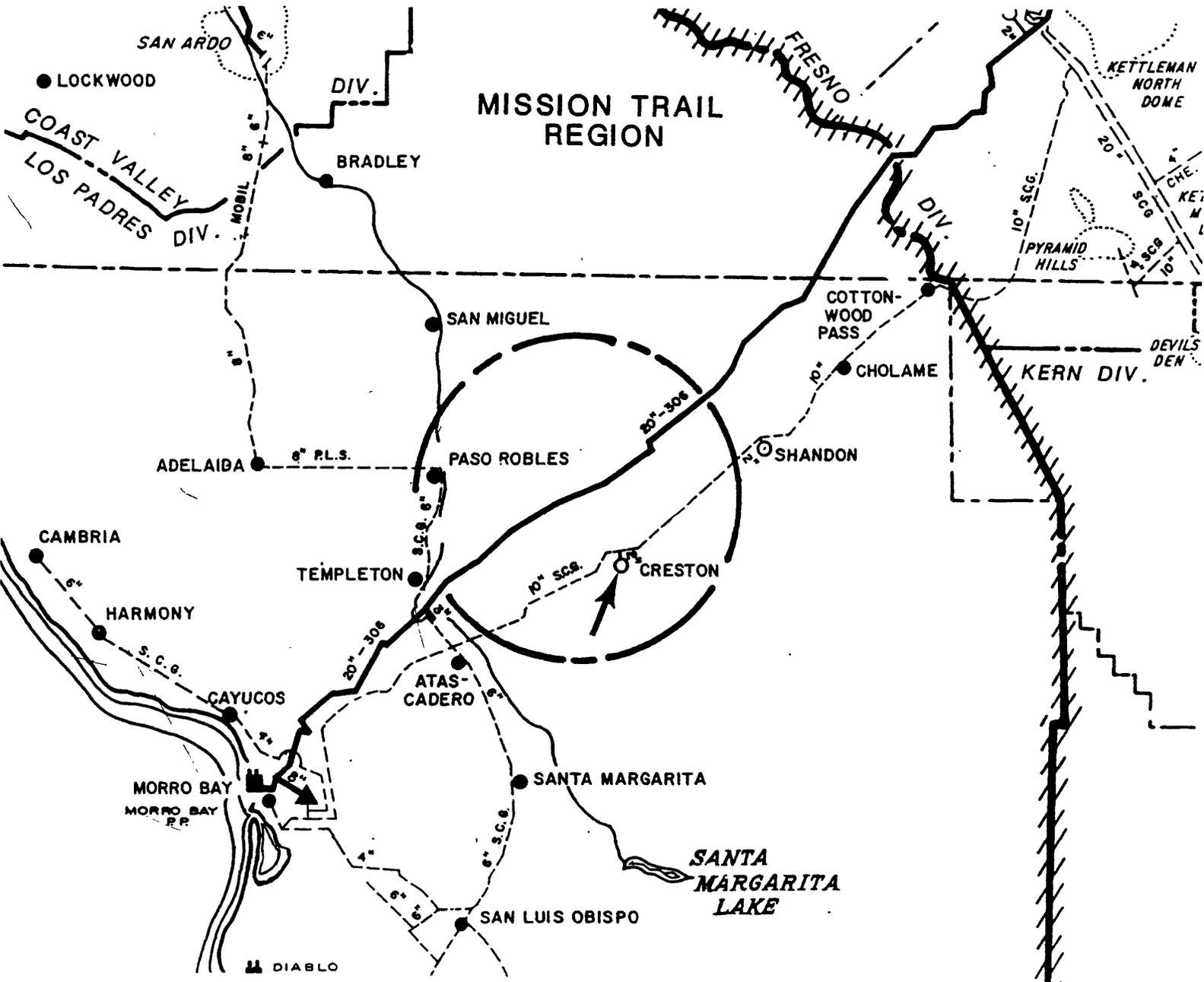
Use of Exchange Tap:

Various PG&E customer meters supplied from SoCalGas's Line 1008 in the Creston area.

Special Conditions:

SoCalGas Zone - #4

# CRESTON TAP



Effective Date: July 1, 2000  
Revision No. : One (1)

EXCHANGE TAP INFORMATION SHEET

Tap Name:

Creston Road 2

Tap Location:

On PG&E's 3" pipeline across from 4141 Creston Road, Paso Robles.

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Ongoing

Volume Limits (max. daily):

Per customer load

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Location:

60 psig

Facility Ownership Information:

SoCalGas meter shall be located on customer's house and used to measure exchange gas volumes.

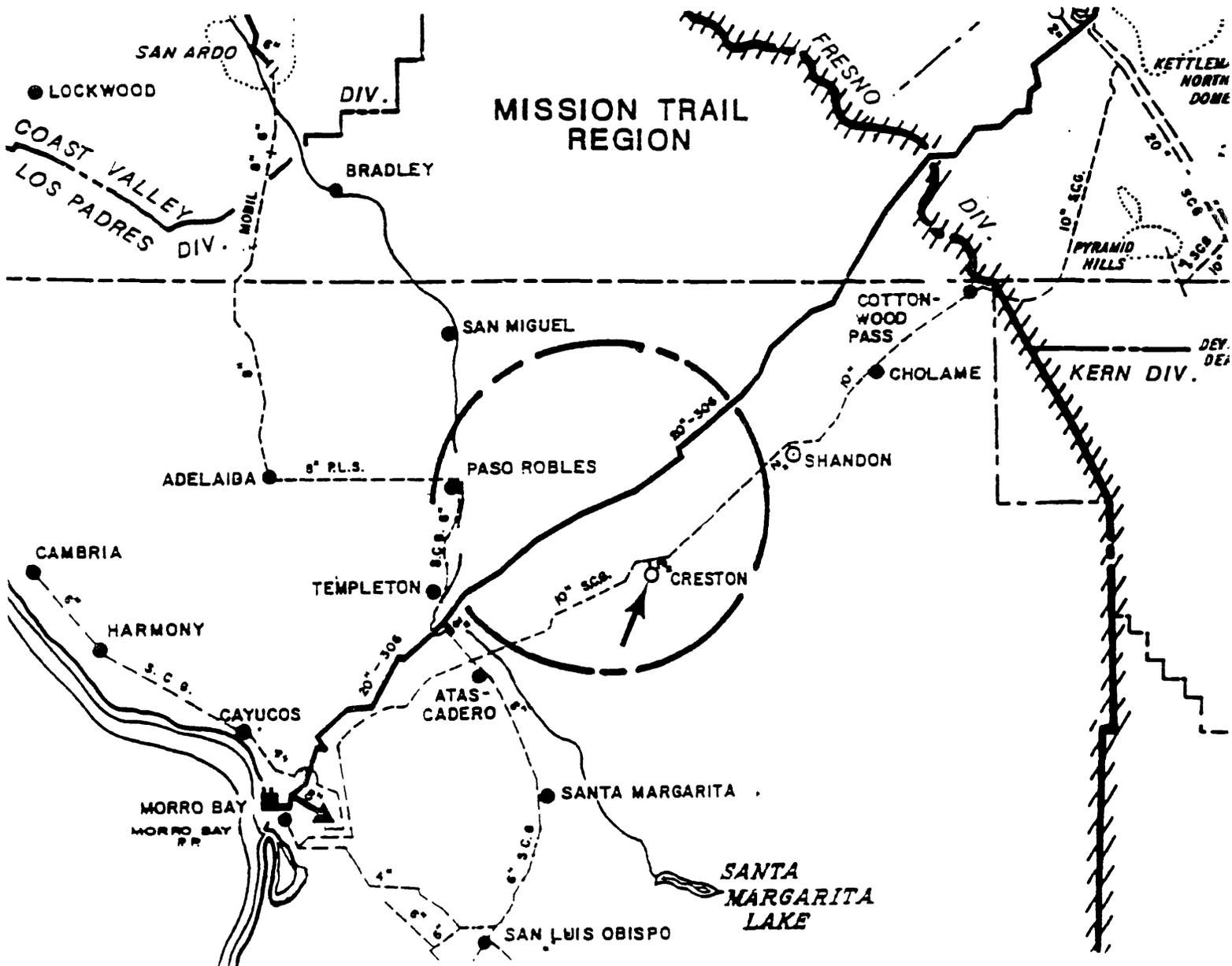
Use of Exchange Tap:

Provide service to one (1) SoCalGas customer located at 4141 Creston Road.

Special Condition:

PG&E Zone - # 4

# CRESTON TAP



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Elk Hills

Tap Location:

In the Elk Hills Naval Petroleum Reserve at meter station 24Z and 36R off of Elk Hills Rd.

Delivery to (Requesting Party):

PG&E

Type of Exchange:

Standby

Volume Limits (max. daily):

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

Facility Ownership Information:

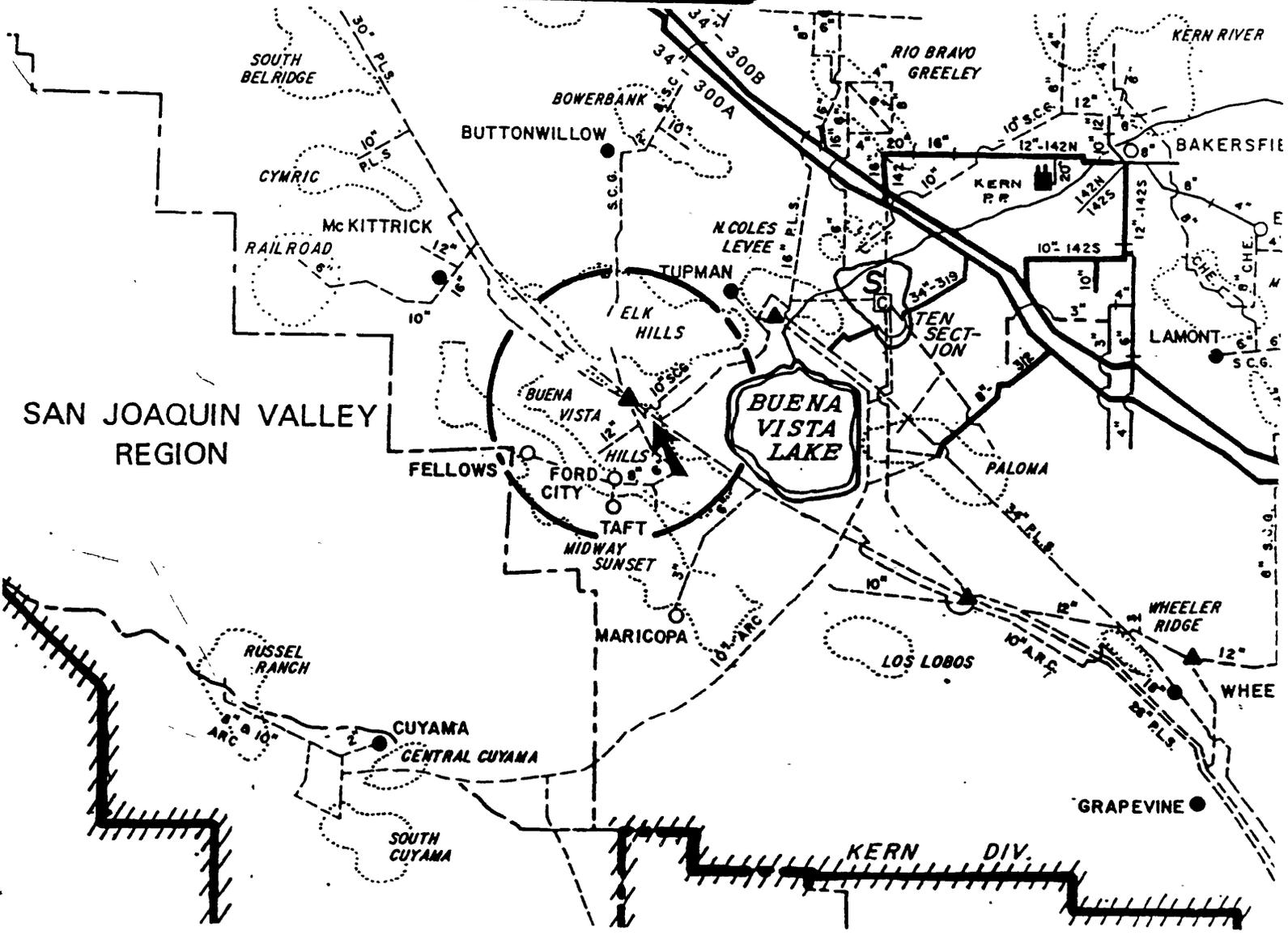
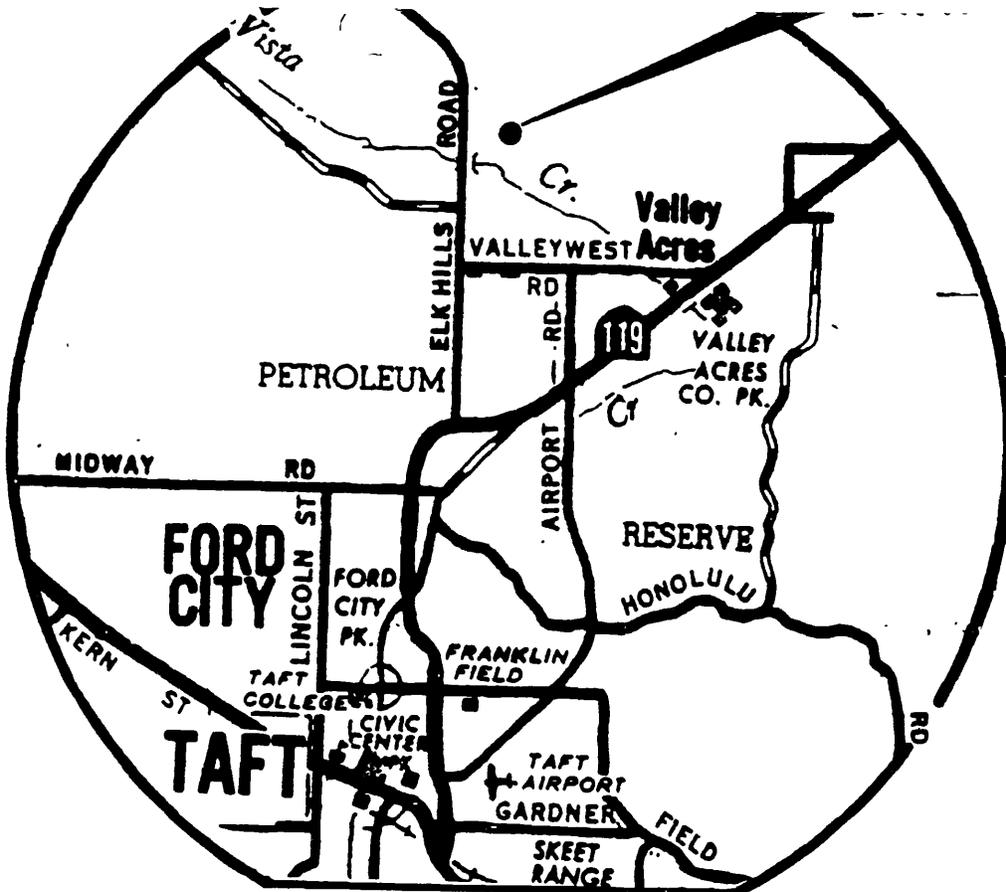
SoCalGas

Use of Exchange Tap:

To provide PG&E access to any PG&E awarded Elk Hills Naval Petroleum Reserve bid gas.

Special Conditions:

SoCalGas Zone - #3



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Fellows

Tap Location:

Midway and Mocal Rds., approx. 1/2 mile south of 2nd St. north of the town of Fellows.

Delivery to (Requesting Party):

PG&E

Type of Exchange:

Ongoing

Volume Limits (max. daily):

720 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

20 psig

Facility Ownership Information:

SoCalGas

Use of Exchange Tap:

Supply to PG&E's Fellows distribution system.

Special Conditions:

SoCalGas Zone - #3



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Fresno - Elm and South

Tap Location:

At the intersection of Elm and South Avenues south of the city of Fresno. SoCalGas's Line is on the west side of Hwy #41 (Elm Ave.)

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Standby

Volume Limits (max. daily):

48,000 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

SoCalGas 400 psig  
PG&E 600-725 psig

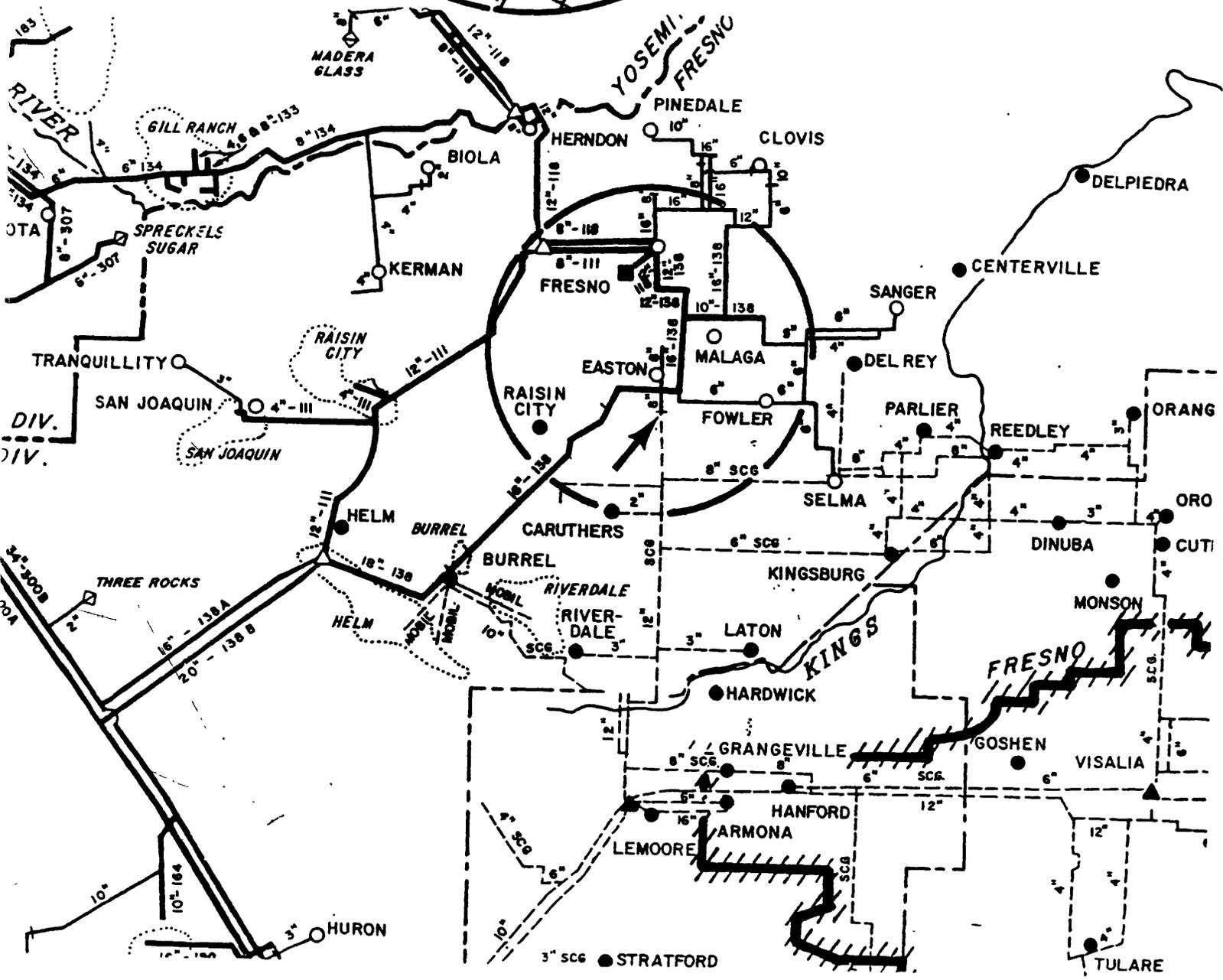
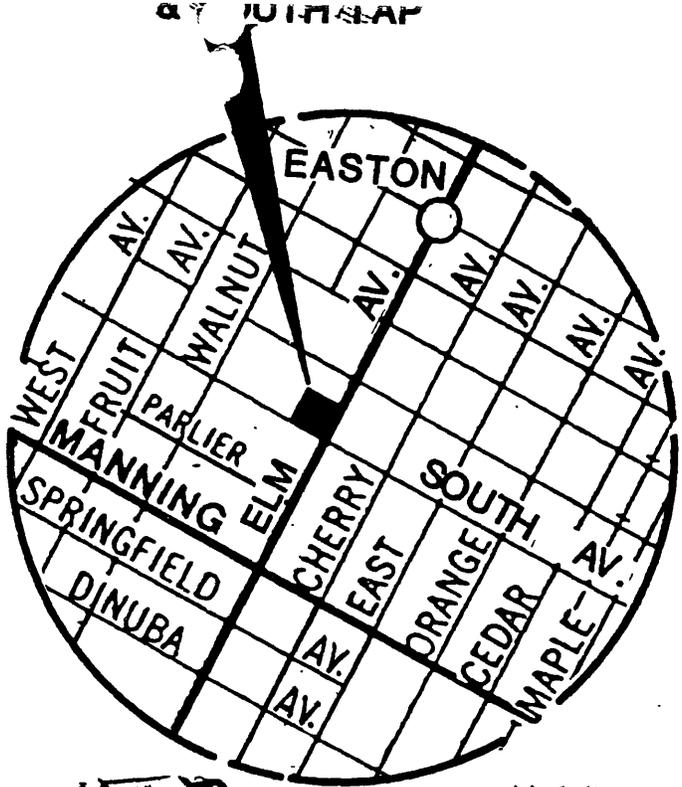
Facility Ownership Information:

Metering and regulation occur at PG&E's Elm and Adams Station. Mile Point 38.59 on PG&E's Line 138.

Use of Exchange Tap:

Special Conditions:

PG&E Zone - #4



Hydrocarbons	=	≤ 400 psig, 45°F
	=	> 400 psig, 45°F @ 400 psig
Dust, gum, solids	=	commercially free of
Heating value	=	min. of 970 Btu, dry basis
Temperature	=	50°F - 105°F
Toxics	=	not hazardous <u>to</u> health
Interchangeability	=	AGA Bulletin No. 36 indices
Odorization	=	CPUC G0112D, Section 192.625(b)

\*Maximum H<sub>2</sub>S set by CPUC G.O. No. 58A&B

7.3 All Gas should be delivered to the receiving party at sufficient pressure to enter the receiving party's Utility System at the Delivery and/or Redelivery Point(s) provided, however, such delivery pressure shall not be in excess of that pressure contained on the applicable Exchange Tap Information Sheet in Appendix A.

7.4 Neither party shall be obligated to receive or deliver Gas at Delivery and/or Redelivery Point(s), except at times when the capacity of the Requesting or Delivering Party's Utility System is sufficient to receive or deliver the Gas without detriment to service to others.

## ARTICLE VIII

### MEASUREMENT

8.1 Unless otherwise agreed to by the parties, the Delivering Party shall install, own, operate, and maintain suitable measuring devices and necessary related instrumentation at each Point of Delivery for the purpose of measuring the volume and quality of all Gas delivered. Orifice meters will be installed to comply with the most recent version of American National Standard Institute Report ANSI/API 2530 at the time of the meter installation. Other types of measuring devices will be

EXCHANGE TAP INFORMATION SHEET

Tap Name:

Kern River Tap (a.k.a. Gosford Intertie)

Tap Location:

Mile Point 280.58 on PG&E's Line 300A near SoCalGas's Line 7200 West of Buena Vista Rd.; south of Stockdale Hwy. on unpaved road south of canal.

Delivery to (Requesting Party):

Two-Way

Type of Exchange:

Standby \*

Volume Limits (max. daily):

600,000 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

450 psig to 700 psig

Facility Ownership Information:

PG&E owns the metering and regulation, Line 319 is jointly owned, 50% ownership, by SoCalGas and PG&E.

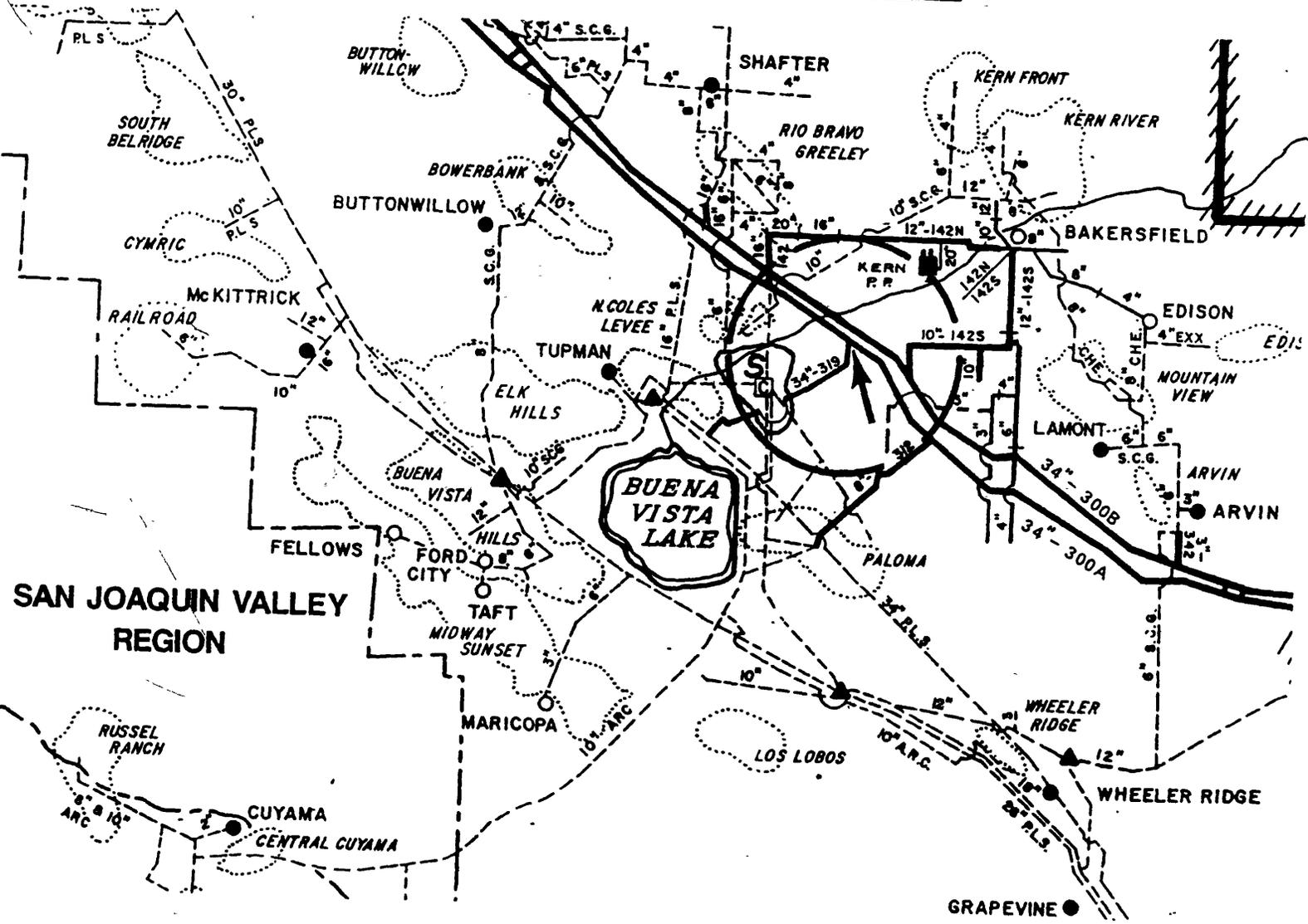
Use of Exchange Tap:

\*Standby support under this Master Exchange Agreement and also serves as the primary exchange balance delivery point. Additionally, this interconnection is used as a delivery point for several other sales and transportation agreements.

Remotely controlled by PG&E at Kettleman.

Special Conditions:

PG&E Zone - #3  
SoCalGas Zone - #3



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Kettleman Intertie

Tap Location:

Mile Point 352.61 on PG&E's Line 300A where SoCalGas's Lines 800 and 812 intersect Line 300A, 1.2 miles south of PG&E's Kettleman Compressor Station. Access through gate in southeast corner of Kettleman yard.

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Standby

Volume Limits (max. daily):

66,500 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

400 psig (PG&E)  
330 to 380 psig (SoCalGas)

Facility Ownership Information:

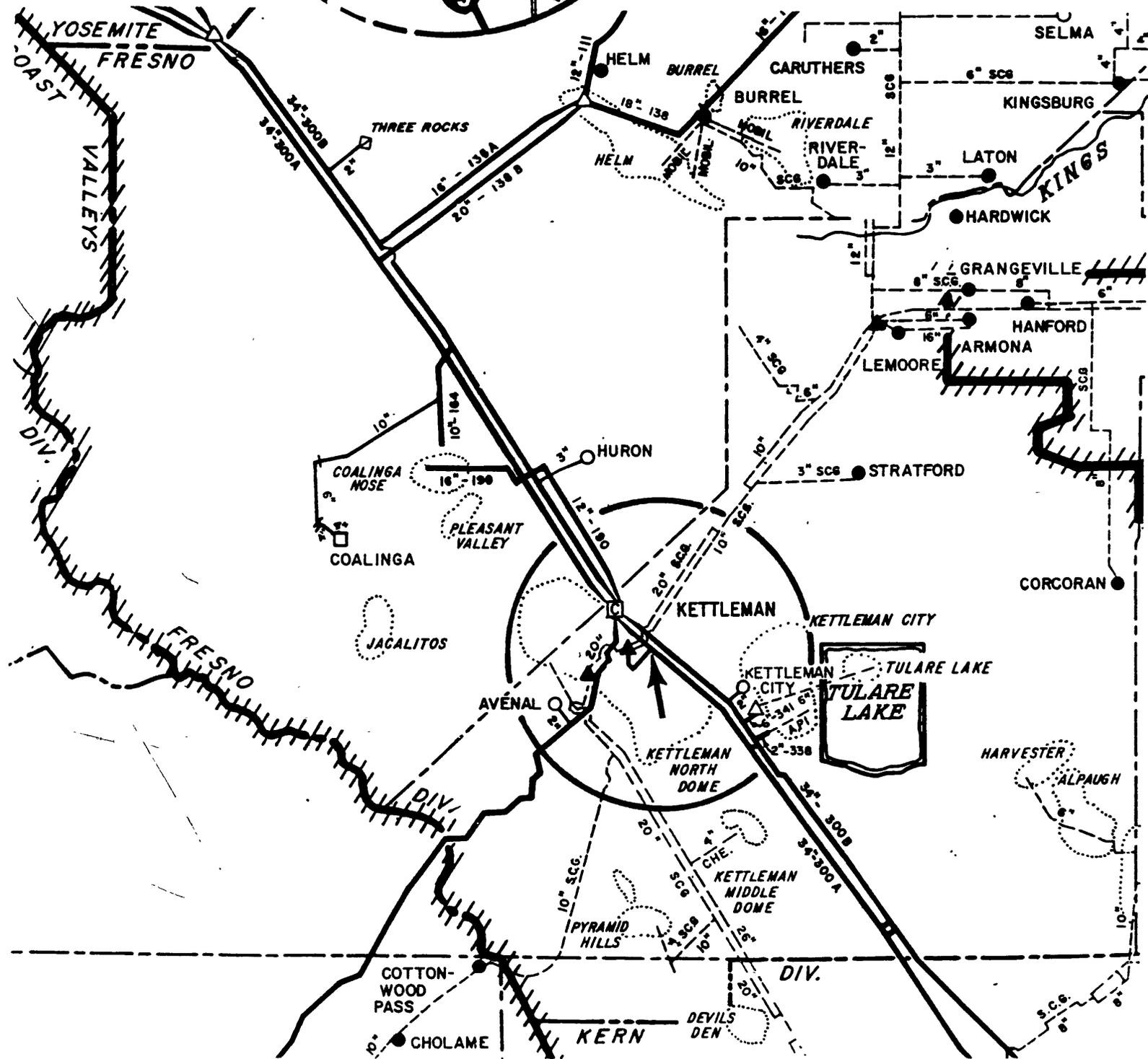
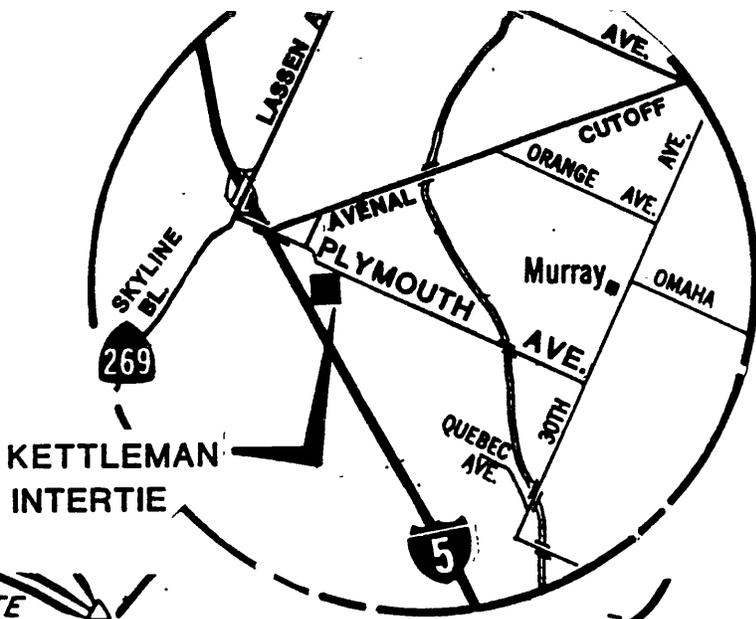
SoCalGas owns meter, PG&E owns tap & regulation.

Use of Exchange Tap:

Set to feed SoCalGas's Lines 800 and 812 automatically if pressure falls to 330 psig. Additionally, this interconnection is used as a delivery point for several other sales and transportation agreements.

Special Conditions:

PG&E Zone - #4.



Effective Date: May 01, 2021  
Revision No.: Original

## EXCHANGE TAP INFORMATION SHEET

Tap Name:

Kettleman Station Interconnect

Tap Location(s):

Located at the interconnect of PG&E's Lines 300 (A/B) and SoCalGas SoCalGas Line 44-306.

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Ongoing

Volume Limits (max. daily):

10MMcf/hour

Range of Operating Pressures Prevailing~ in Receiving Party's Pipeline System at Tap Location:

400 psig to 757 psig

Facility Ownership Information:

PG&E owns the meter. SoCalGas owns regulation downstream of the interconnect at Estrella River PLS.

Use of Exchange Tap:

Primary source of gas supply to SoCalGas Line 44-306 – acquired from PG&E on April 30, 2021

Special Condition:

PG&E Zone - # 4

Effective Date: May 01, 2021  
Revision No.: Original

## EXCHANGE TAP INFORMATION SHEET

Tap Name:

Line 44-306 Area

Tap Location(s):

All PG&E customer taps off of SCG Line 44-306 from mile point 0 at Kettleman Station to mile point 70 at Morro Bay.

Delivery to (Requesting Party):

PG&E

Type of Exchange:

Ongoing

Volume Limits (max. daily):

Per customer load

Range of Operating Pressures Prevailing~ in Receiving Party's Pipeline System at Tap Location:

Distribution level pressure ( $= < 40$  psig)

Facility Ownership Information:

Customer meters and downstream facilities served and owned by PG&E.

Use of Exchange Tap:

Provide service to PG&E customers located along SoCalGas Line 44-306 between Kettleman Station and Morro Bay.

Special Condition:

PG&E Zone - # 4

EXCHANGE TAP INFORMATION SHEET

Tap Name:

Maricopa

Tap Location:

Terminus of SoCalGas's Line 235 in Shell Oil Company's D&E Sand plant yard, near the N/W corner of the town of Maricopa (SW 1/4 of Sec. 1, T11N, R24W, SBB&M). Drive 4/10 miles east on entry road (over 5 speed bumps), turn right on yard road and drive 2/10 miles south to meter set.

Delivery to (Requesting Party):

PG&E

Type of Exchange:

Ongoing

Volume Limits (max. daily):

960 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

120 psig

Facility Ownership Information:

SoCalGas meter; PG&E regulator

Use of Exchange Tap:

Supply to PG&E's Maricopa distribution system

Special Conditions:

SoCalGas Zone - #3



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Mojave

Tap Location:

Tap 218.73A on PG&E's Line 300A - 1500' north of Texas Ave. and 500' west of Holt St. on the west side of the town of Mojave.

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Standby

Volume Limits (max. daily):

24,000 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

700 to 750 psig (PG&E)  
250 to 400 psig (SoCalGas)

Facility Ownership Information:

PG&E owns the meter and regulators; SoCalGas owns dehydration equipment. Dehydrator disconnected.

Use of Exchange Tap:

This standby supply is set to deliver 250 psig to SoCalGas's 6" line. Automatic operation.

Special Conditions:

PG&E Zone - #3



Effective Date: November 1, 1992  
Revision No. One (1)

**EXCHANGE TAP INFORMATION SHEET**

**Tap Name:**

Monolith

**Tap Location:**

Tap 231.27B on PG&E's Line 300B - Three miles south of State Highway 58 on Tehachapi-Willow Springs Rd.

**Delivery to (Requesting Party):**

SoCalGas

**Type of Exchange:**

Ongoing

**Volume Limits (max. daily):**

24,000 Mcf/day

**Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:**

700 to 750 psig (PG&E)  
250 to 325 psig (SoCalGas)

**Facility Ownership Information:**

PG&E meter and regulation

**Use of Exchange Tap:**

PG&E provides ongoing support to SoCalGas at 325 psig. If PG&E curtails gas deliveries to its customers that have the same or similar CPUC priority as SoCalGas' customer Calaveras Cement at Tehachapi, SoCalGas will, upon PG&E's request, curtail gas deliveries to the Calaveras Cement plant at Tehachapi.

**Special Conditions:**

PG&E Zone - # 3



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Morro Bay

Tap Location:

On Frontage Road east of Highway #1, approx. 650' south of Preston Ave., Morro Bay. Tap M.P. 69.8 on PG&E L-306

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Standby

Volume Limits (max. daily):

124,000 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

290 psig min.  
400 psig max.

Facility Ownership Information:

Measurement and back pressure controls by PG&E; regulation by SoCalGas.

Use of Exchange Tap:

"If...PG&E elects to provide service under this agreement which results in PG&E incurring additional costs to operate PG&E's gas or electric system, (SoCalGas) will reimburse PG&E for those additional incremental costs above the cost of gas that PG&E may incur to maintain an equivalent amount of electric generation, including but not limited to the incremental cost of the use of alternate fuels at the Morro Bay Power Plant or the incremental cost of generation of electricity from other sources." (From 1983 PLGS/PG&E Agreement)

Special Conditions:

PG&E Zone - #4



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Needles

Tap Location:

At SoCalGas' South Needles Compressor Station, 11 miles south of the town of Needles on Highway #95. Mile Point 7.62, on PG&E's Line 300B, which connects to SoCalGas's Line 3000.

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Standby

Volume Limits (max. daily):

160,000 Mcf/day with discharge pressure of 860-890 psig.

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

See special conditions

Facility Ownership Information:

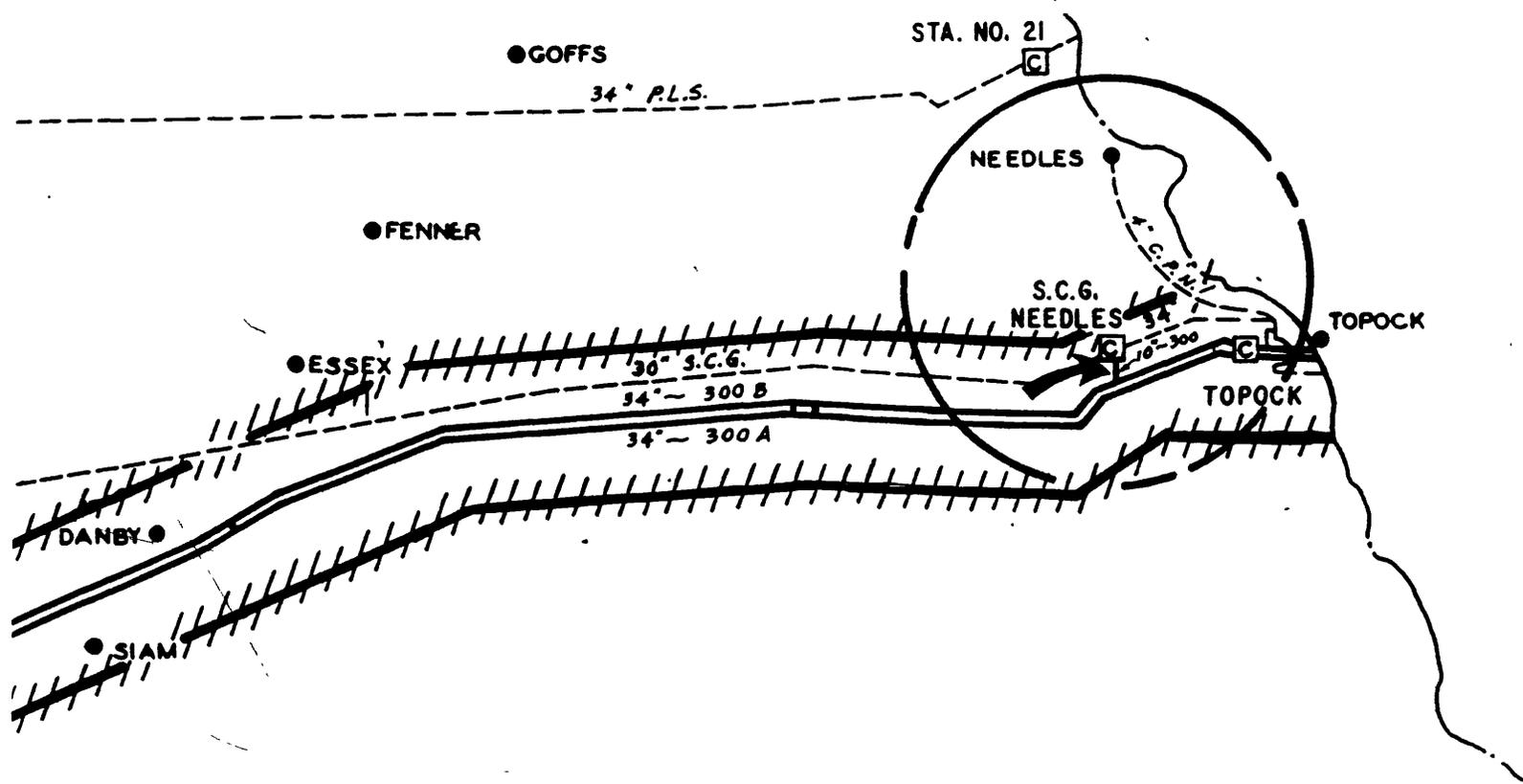
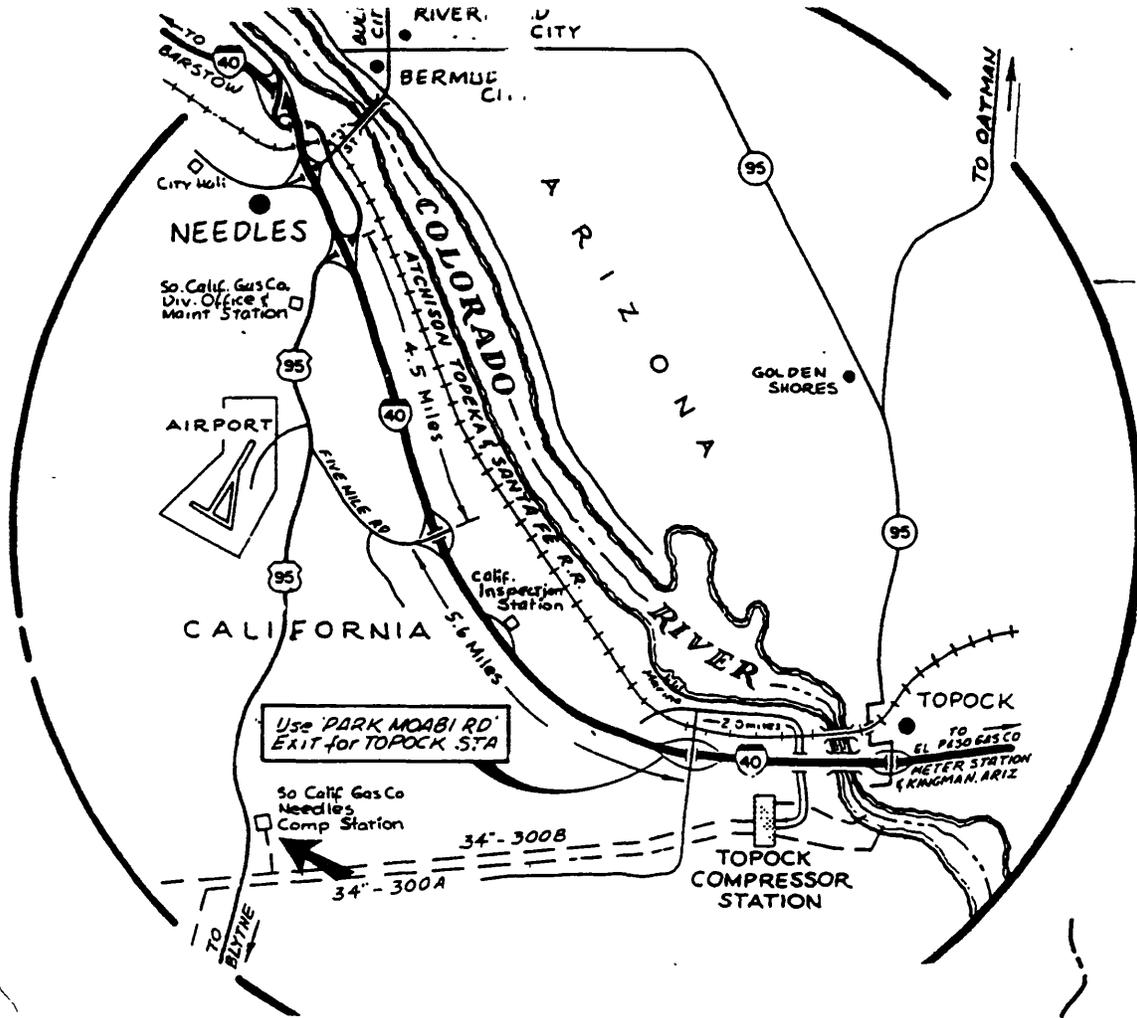
PG&E

Use of Exchange Tap:

Tap is piped to the suction side of two compressor units at SoCalGas's South Needles Compressor Station. During operation, the system is separated from prevailing station suction pressures. Pressure supplied by PG&E is in the 700-800 psig range. SoCalGas controls the delivery rate with their South Needles Compressor Station.

Special Conditions:

PG&E Zone - #2



SAN JOAQUIN VALLEY REGION

EXCHANGE TAP INFORMATION SHEET

Tap Name:

Oildale (Chester Avenue)

Tap Location:

In SoCalGas's service center yard  $\pm$  300 feet east of the northeast corner of Chester and Norris Rds., Oildale.

Delivery to (Requesting Party):

SoCalGas

PG&E

Type of Exchange:

Standby

Volume Limits (max. daily):

7,200 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

51 psig

Facility Ownership Information:

SoCalGas (SoCalGas Station No. 2)

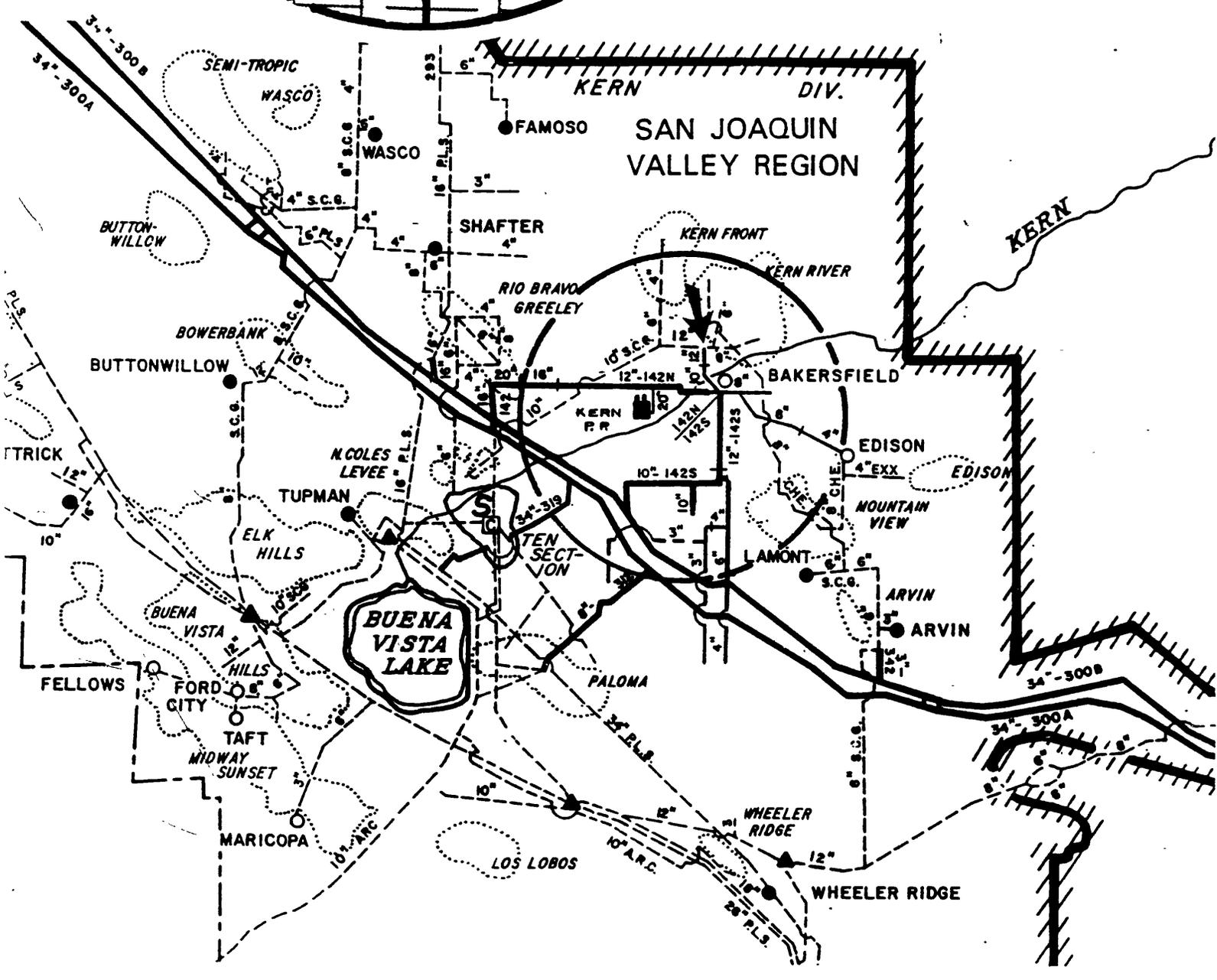
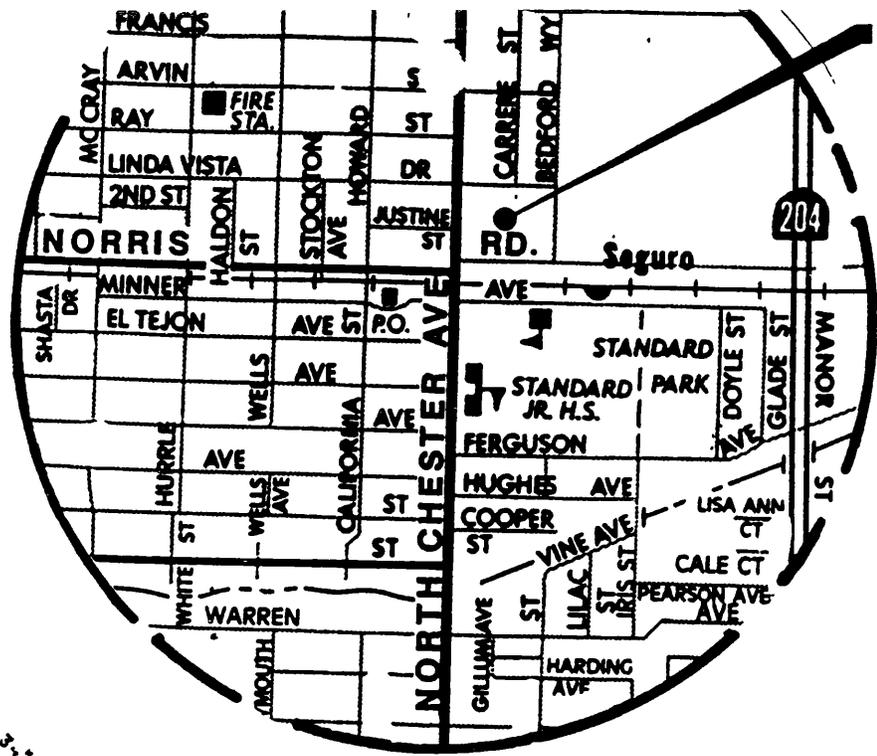
Use of Exchange Tap:

Standby supply for local PG&E distribution system.

Special Conditions:

SoCalGas Zone - #3

OIL-PALE (CHESTER AVE.)  
TAP



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Pisgah

Tap Location:

1.6 miles east of Hector Rd. on Pipeline Road on north side of Interstate Highway #40; M.P.116.48 on PG&E's Line 300A; M.P.116.28 on PG&E's Line 300B, intersecting SoCalGas's Line 235.

Delivery to (Requesting Party):

PG&E

Type of Exchange:

Standby

Volume Limits (max. daily):

300,000 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

475 psig - 688 psig

Facility Ownership Information:

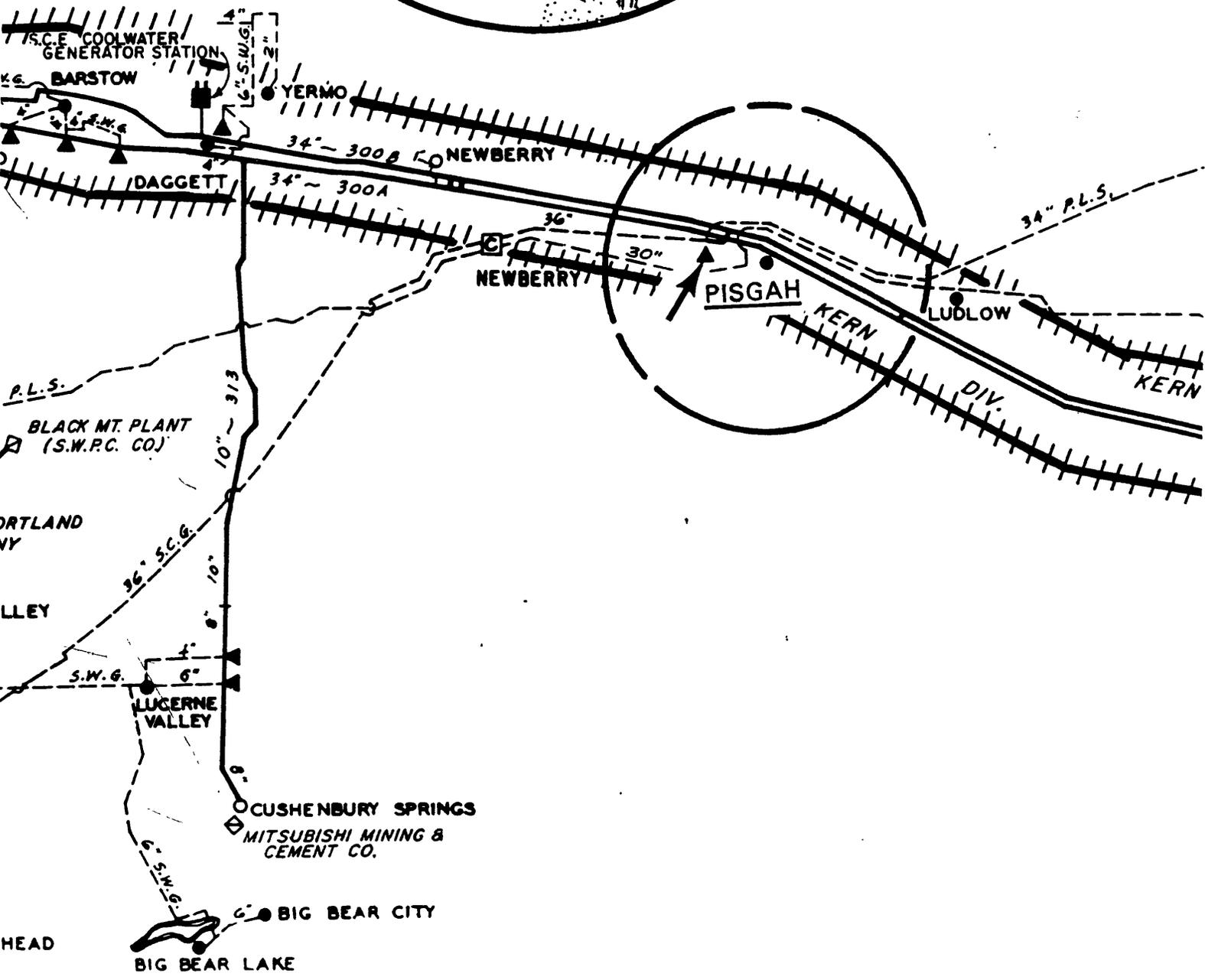
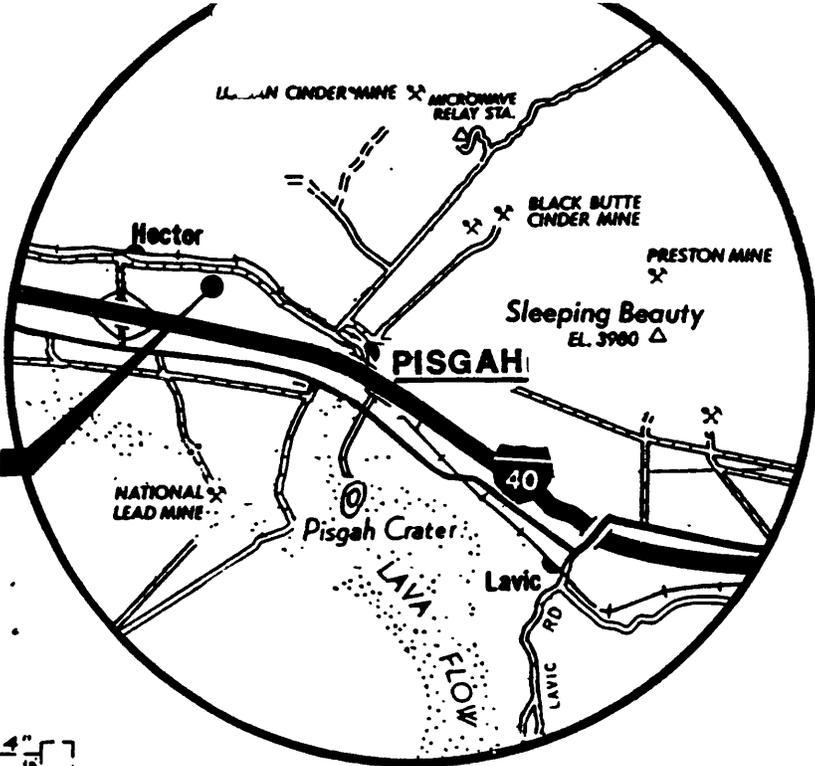
Jointly owned

Use of Exchange Tap:

Special Conditions:

Closed and locked UFN. Cannot be operated without express approval of PG&E's Vice President - Gas Transmission and Storage.

SoCalGas Zone - #2



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Raisin City

Tap Location:

On the east side of Henderson Road halfway between Cornelia and Blythe Avenues.

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Ongoing

Volume Limits (max. daily):

672 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

600 to 750 psig (PG&E)  
650 psig (SoCalGas)

Facility Ownership Information:

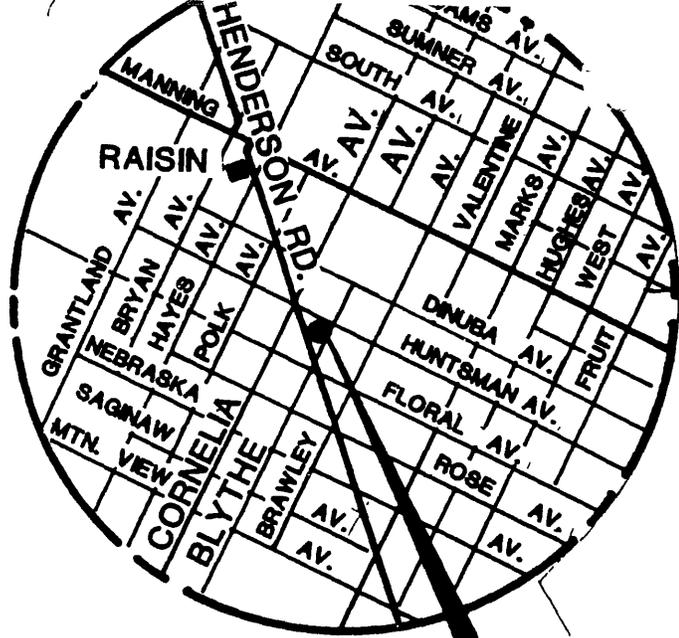
SoCalGas

Use of Exchange Tap:

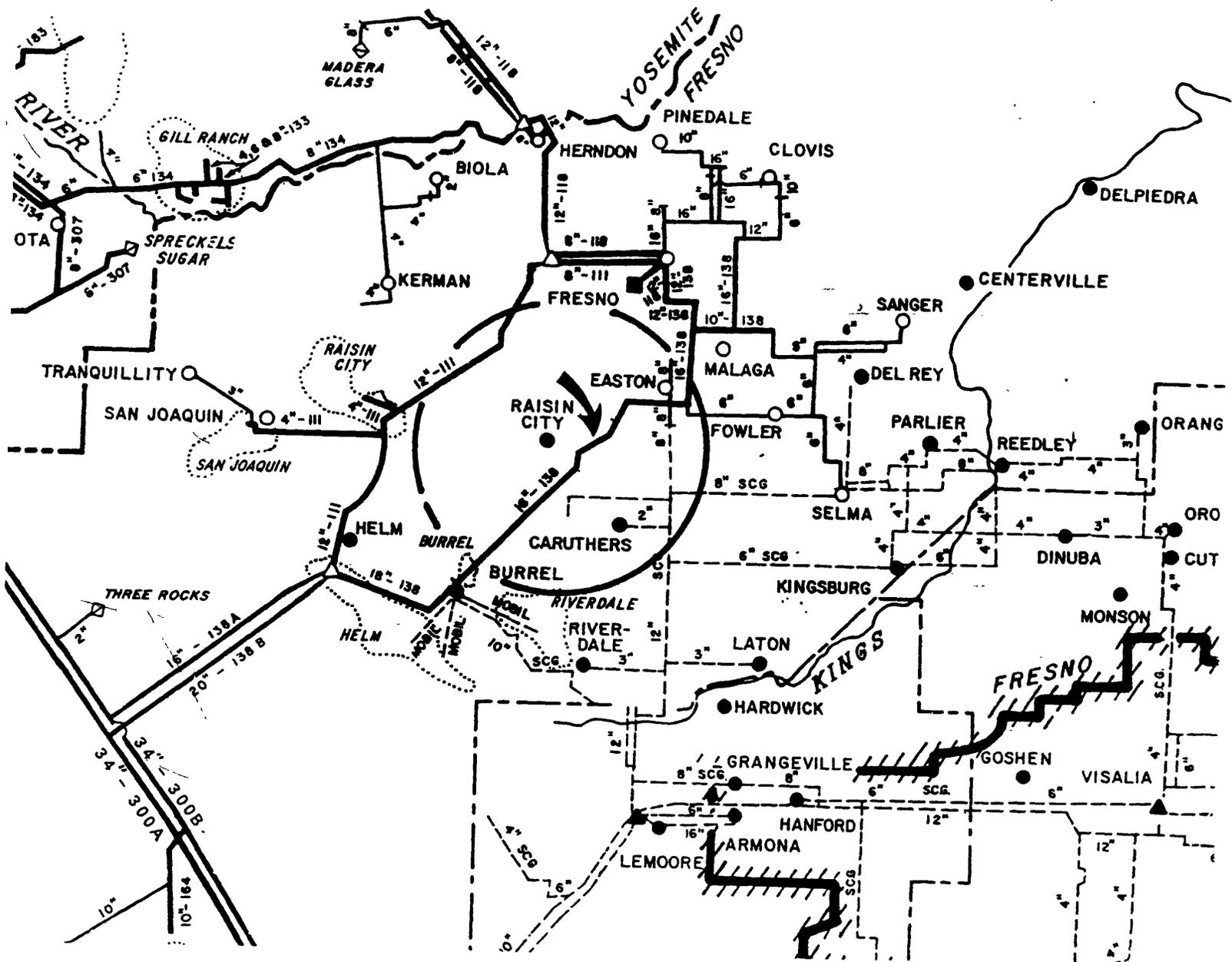
Serves a standby district regulator station for town of Raisin City.

Special Conditions:

PG&E Zone - #4



RAISIN CITY TAP



**EXCHANGE TAP INFORMATION SHEET**

**Tap Name:**

Rio Bravo - Jasmine

**Tap Location:**

11258 Porterville Highway, Bakersfield, California on SoCalGas 6" L-386.

**Delivery to (Requesting Party):**

PG&E

**Type of Exchange:**

Ongoing

**Volume Limits (max. daily):**

7,500 Mcf/day

**Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:**

60 psig

**Facility Ownership Information:**

SoCalGas

**Use of Exchange Tap:**

To supply one PG&E EOR customer.

**Special Conditions:**

SoCalGas Zone - #3

Effective Date: November 1, 1992  
Revision No. Two (2)

**EXCHANGE TAP INFORMATION SHEET**

**Tap Name:**

San Joaquin

**Tap Location:**

A 1/2" Tap and a 1" tap on the north side of Manning Avenue east of the town of San Joaquin on PG&E 4" Line 111 Lateral.

**Delivery to (Requesting Party):**

SoCalGas

**Type of Exchange:**

Ongoing

**Volume Limits (max. daily):**

2,880 Mcf/day

**Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:**

55 psig

**Facility Ownership Information:**

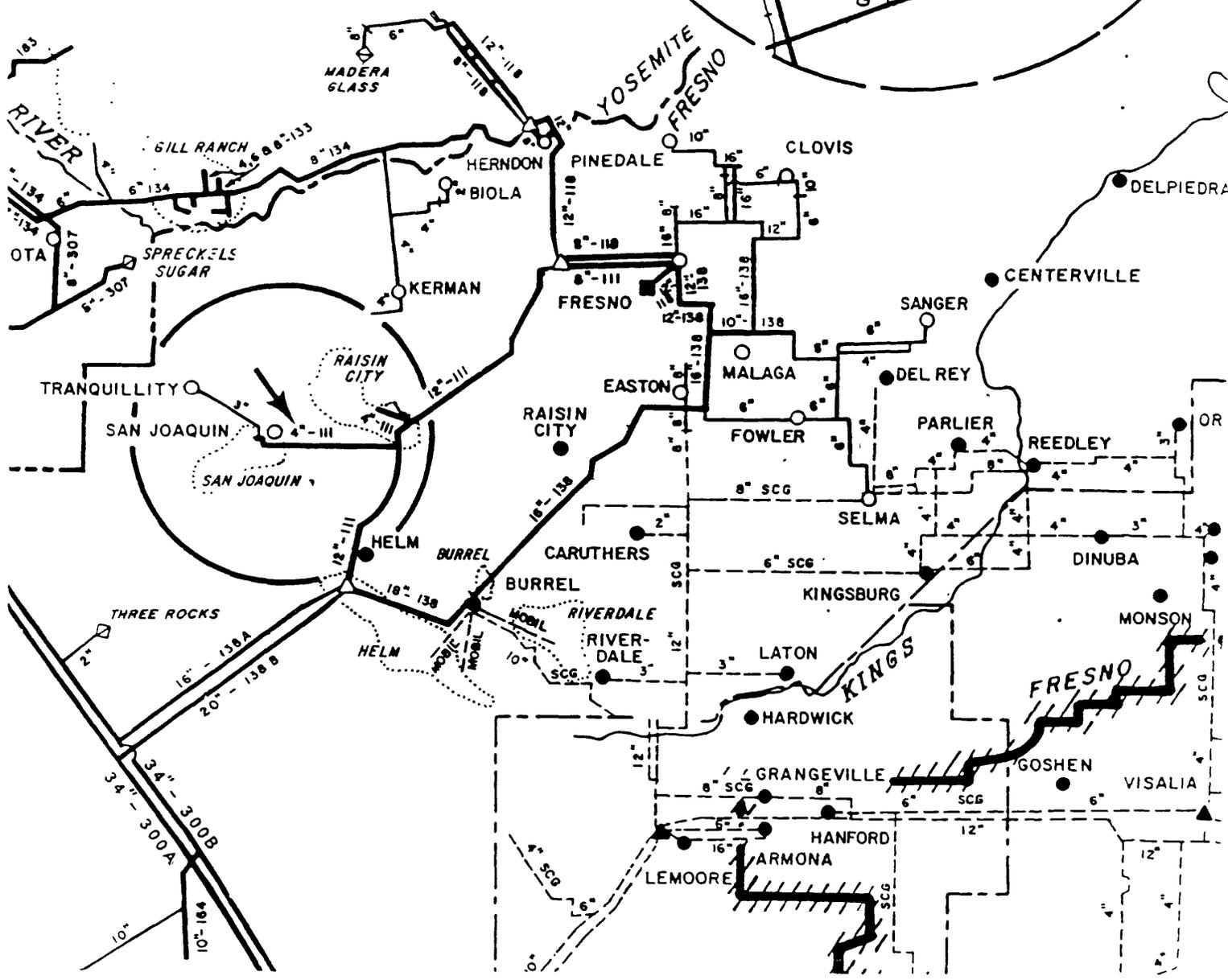
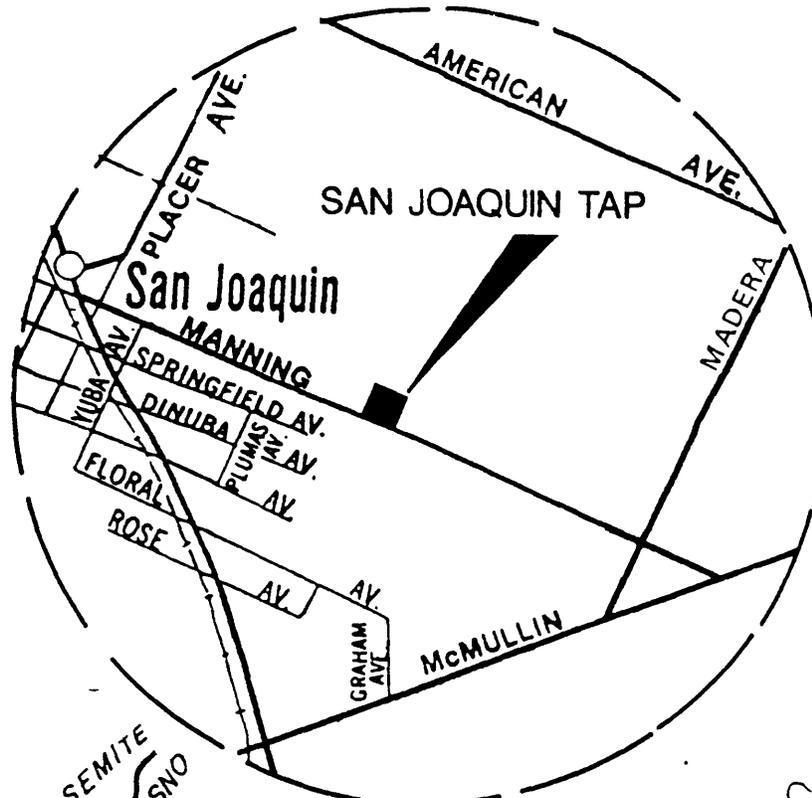
PG&E and SoCalGas

**Use of Exchange Tap:**

To serve Agrico, a SoCalGas industrial customer.

**Special Conditions:**

PG&E Zone - # 4



Effective Date November 1, 1992

Revision No Original

## EXCHANGE TAP INFORMATION SHEET

**Tap Name:**

San Joaquin II (McMullin Grade & Floral)

**Tap Location:**

A 1 1/4" tap at M P 5 62 on PG&E's 12" Line 111-A (15401 W Floral Avenue )

A 1 1/4" tap on PG&E's 16" Line 111-B on the East side of McMullin Grade Rd at Floral Avenue Alignment

**Delivery to (Requesting Party):**

SoCalGas

**Type of Exchange:**

Ongoing

**Volume Limits (max. daily):**

2,400 Mcf/day

**Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:**

600 to 650 psig (PG&E)

55 psig (SoCalGas)

**Facility Ownership Information:**

PG&E

**Use of Exchange Tap:**

To serve Foster Farms, a SoCalGas industrial customer.

**Special Conditions:**

PG&E Zone - # 4



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Selma

Tap Location:

Various locations in the Selma area.

Delivery to (Requesting Party):

PG&E

Type of Exchange:

Ongoing

Volume Limits (max. daily):

408 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

250 psig

Facility Ownership Information:

PG&E meters

Use of Exchange Tap:

Eighteen PG&E customer meters supplied from SoCalGas's distribution mains in the Selma area.

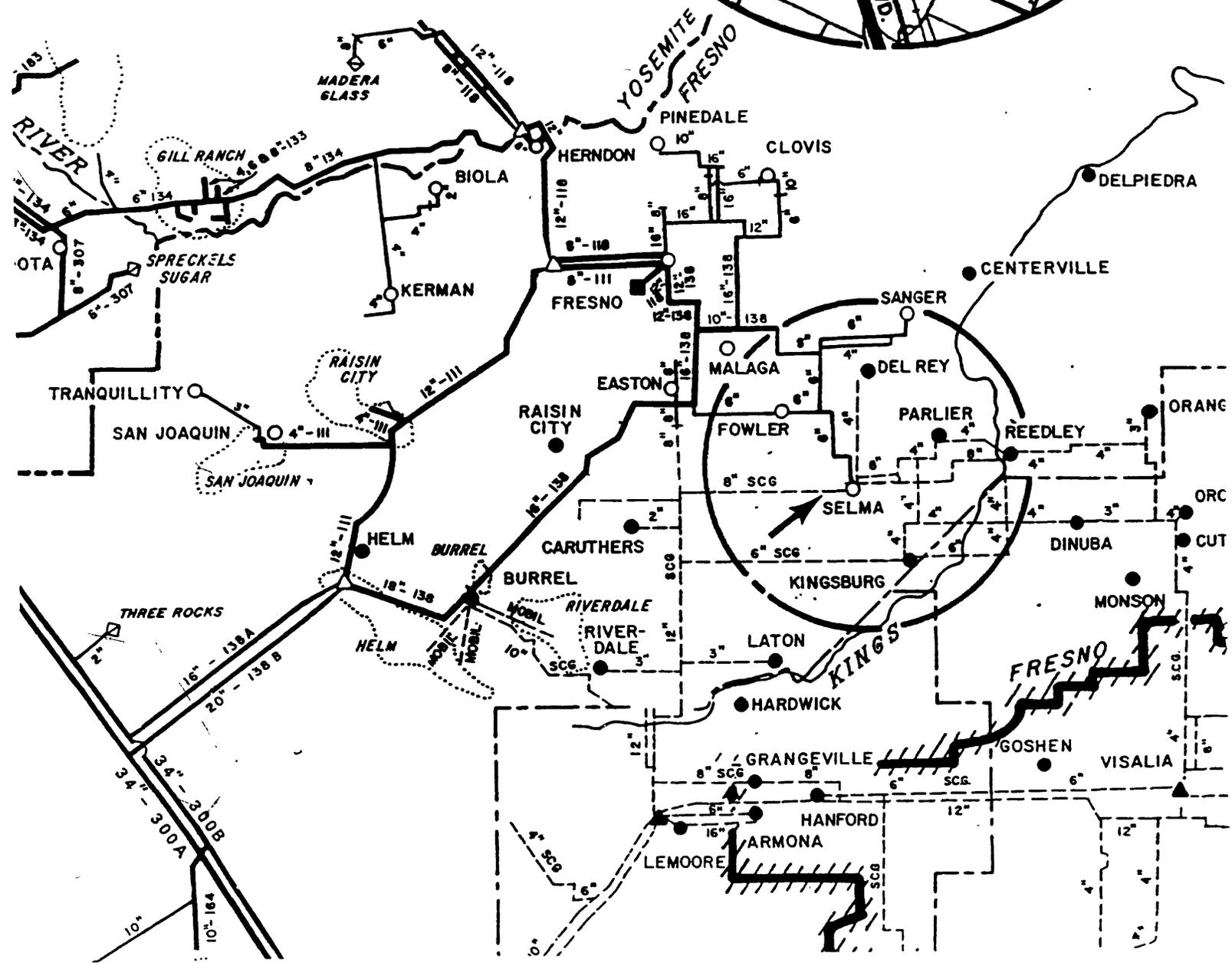
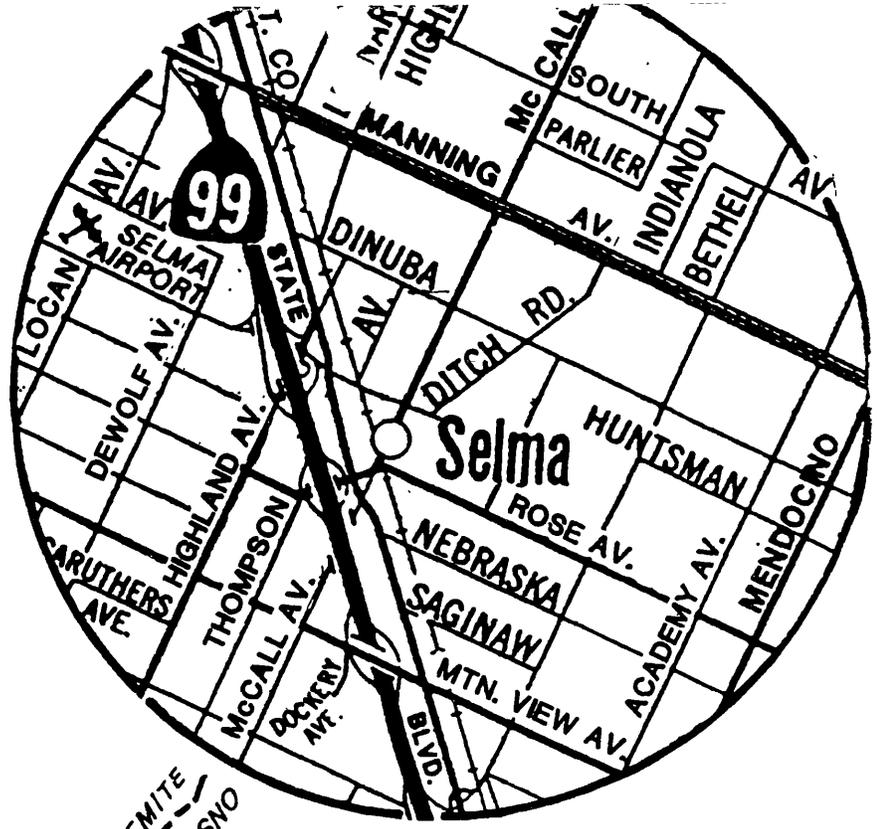
Special Conditions:

SoCalGas Zone - #4

*planner*

*meter no.  
- type  
device or int.  
std indep  
mechanical*

*Adrian D. Fii  
Diane Dehart*



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Shandon

Tap Location:

On north side of Shandon Town access road. (Road which parallels Hwy. 46 to the south.)

Delivery to (Requesting Party):

PG&E

Type of Exchange:

Ongoing

Volume Limits (max. daily):

420 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

350-500 psig

Facility Ownership Information:

PG&E meters

Use of Exchange Tap:

Various PG&E customer meters supplied from SoCalGas Line 1008.

Special Conditions:

SoCalGas Zone - #4



Effective Date: May 1, 1996

Revision No. Original

**EXCHANGE TAP INFORMATION SHEET**

**Tap Name:**

Shandon

**Tap Location:**

North of Hwy. 46 at driveway to Chevron Pump Station. Driveway is located 1 mile east of Cal Trans rest stop along Hwy. 46.

**Delivery to (Requesting Party):**

PG&E

**Type of Exchange:**

Ongoing

**Volume Limits (max. daily):**

1,296 Mcf/day

**Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:**

60 psig

**Facility Ownership Information:**

Meter set, and tap line - PG&E

Tap and tap valve - SoCal Gas

Unocal pipeline to house side riser flange of meter set

**Use of Exchange Tap:**

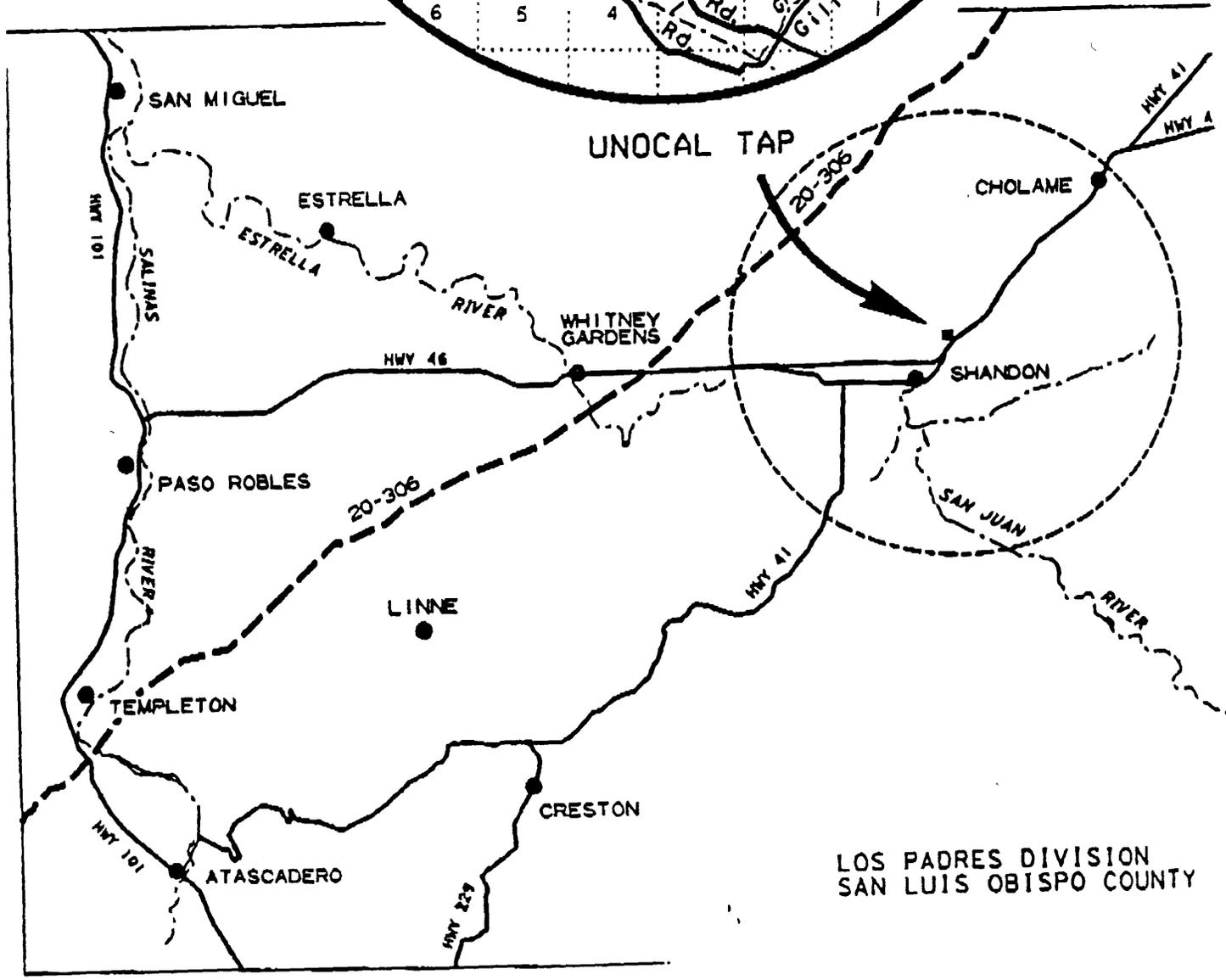
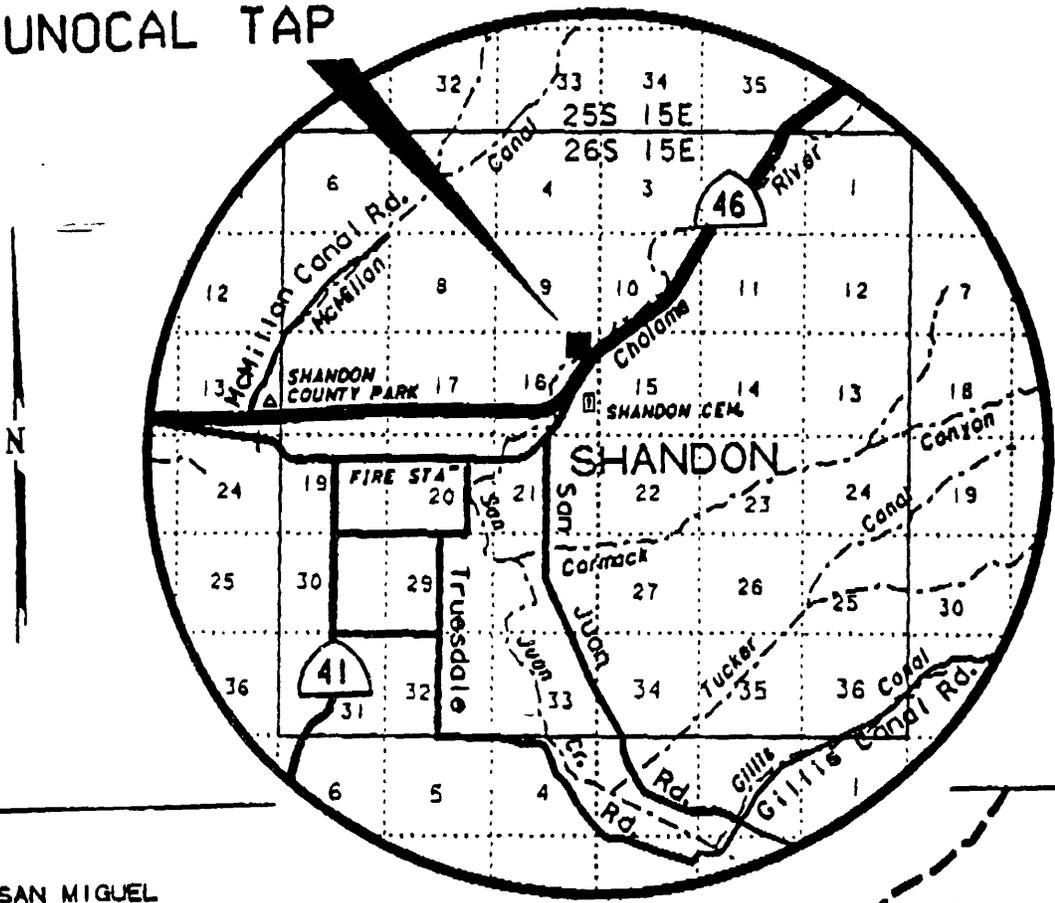
To serve Unocal Pipelines' Creston and Shandon pump stations.

**Special Conditions:**

PG&E Zone #4

Meter set will include a pressure recorder.

# UNOCAL TAP



LOS PADRES DIVISION  
SAN LUIS OBISPO COUNTY

Effective Date: December 15, 1994  
Revision No. Original

**EXCHANGE TAP INFORMATION SHEET**

**Tap Name:**

Snow Road

**Tap Location:**

South side of Snow Road, 400' east of Martin Ave., <sup>Kern</sup> ~~San Joaquin~~ County, California.

**Delivery to (Requesting Party):**

PG&E

**Type of Exchange:**

Ongoing

**Volume Limits (max. daily):**

25 Mcf/day

**Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:**

25 to 50 psig

**Facility Ownership Information:**

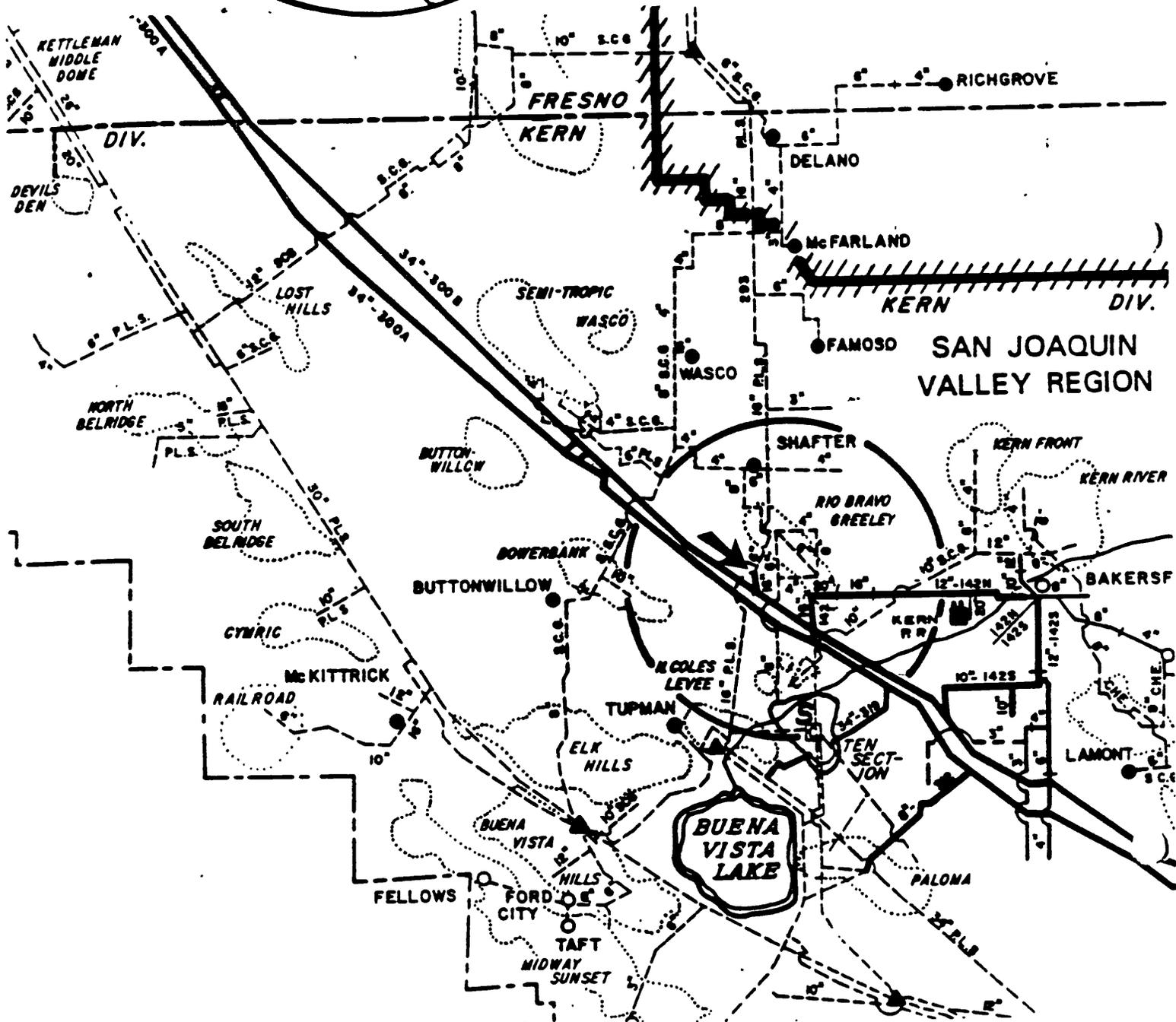
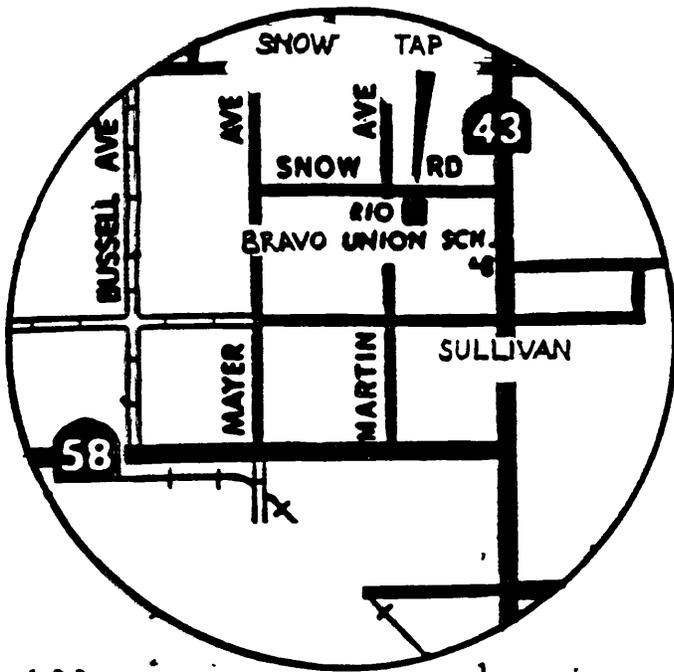
Meters and regulator belong to PG&E.

**Use of Exchange Tap:**

Tap serves a single family home.

**Special Conditions:**

PG&E Zone - # 3



**EXCHANGE TAP INFORMATION SHEET**

**Tap Name:**

Sullivan Road

**Tap Location:**

Two locations along the south side of Sullivan road. House tap is 1914' west of Martin Road. Water pump tap is 1472' west of Martin Road.

**Delivery to (Requesting Party):**

PG&E

**Type of Exchange:**

Ongoing

**Volume Limits (max. daily):**

25 Mcf/day

**Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:**

25 to 50 psig

**Facility Ownership Information:**

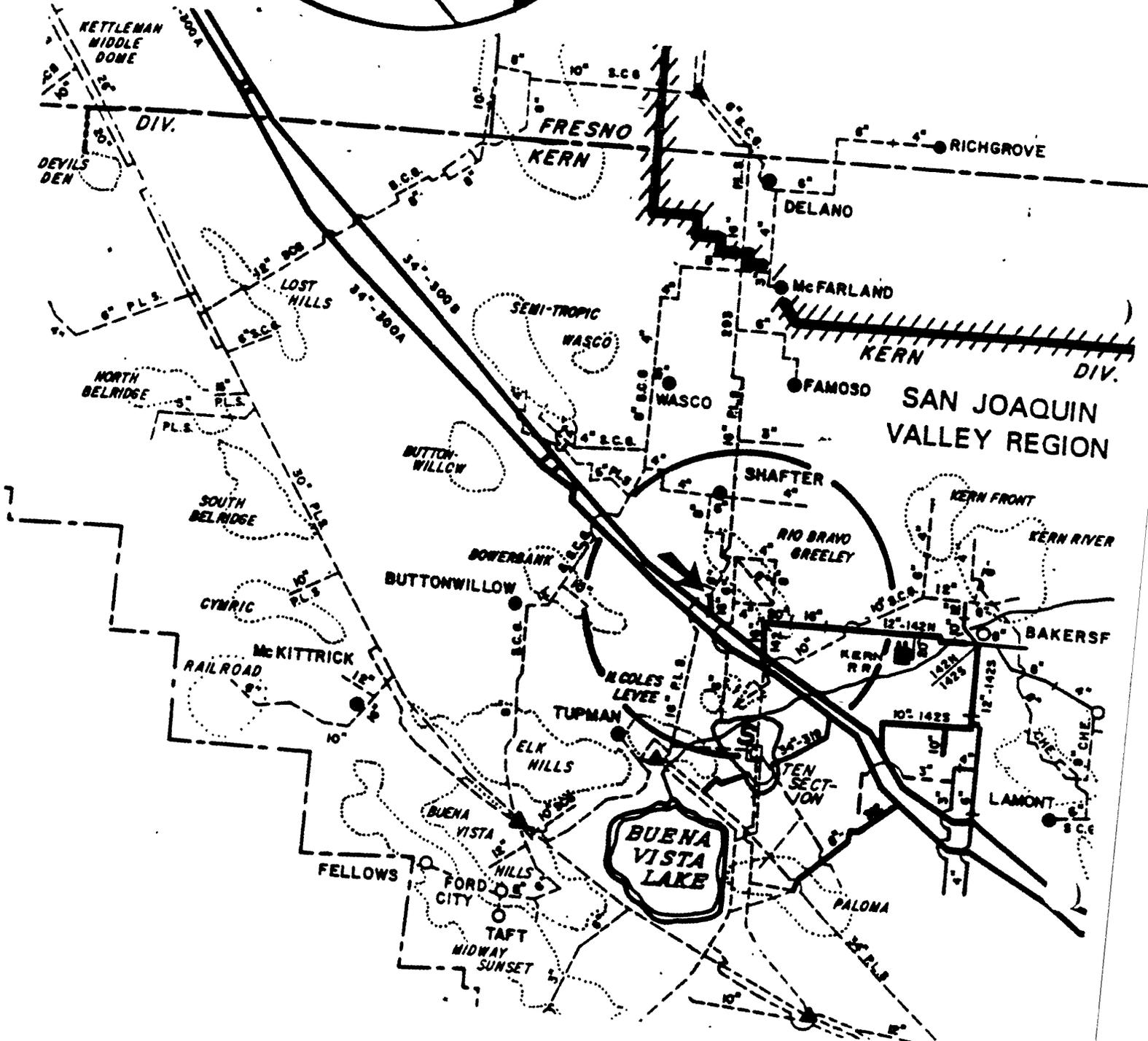
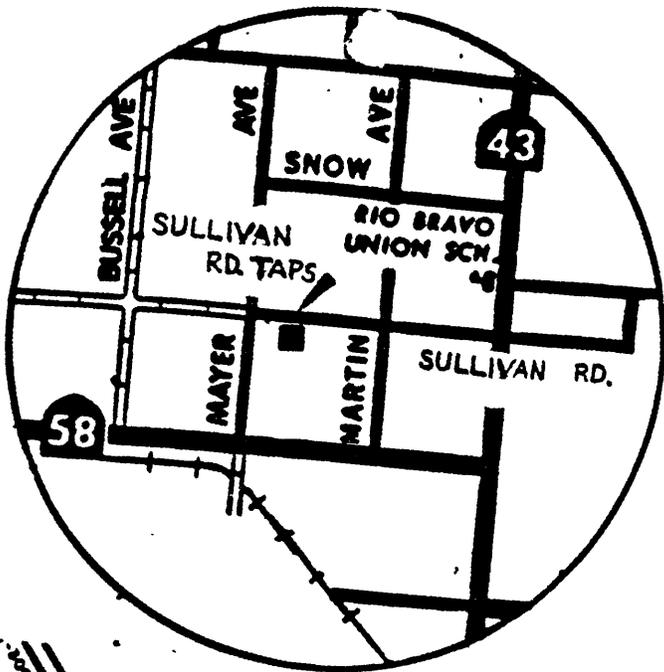
Meters and regulators belong to PG&E.

**Use of Exchange Tap:**

House tap serves a single family home. Water pump tap serves a water pump.

**Special Conditions:**

PG&E Zone - # 3



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Taft (Lincoln & Ash)

Tap Location:

At the intersection of Lincoln & Ash Sts., Taft (SoCalGas Lines #800 & #812).

Delivery to (Requesting Party):

PG&E

Type of Exchange:

Ongoing

Volume Limits (max. daily):

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

95 psig

Facility Ownership Information:

PG&E meter

Use of Exchange Tap:

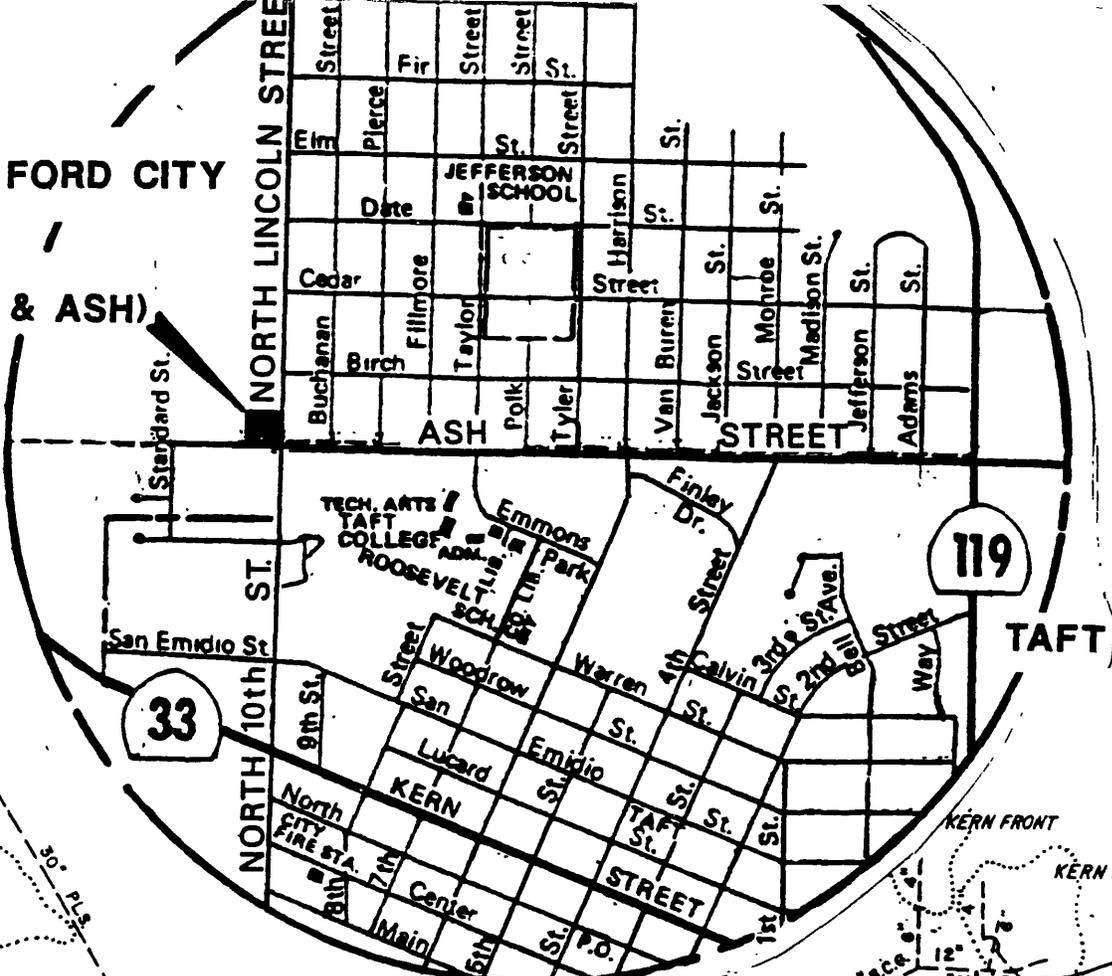
SoCalGas provides service to PG&E distribution system in the City of Taft.

Special Conditions:

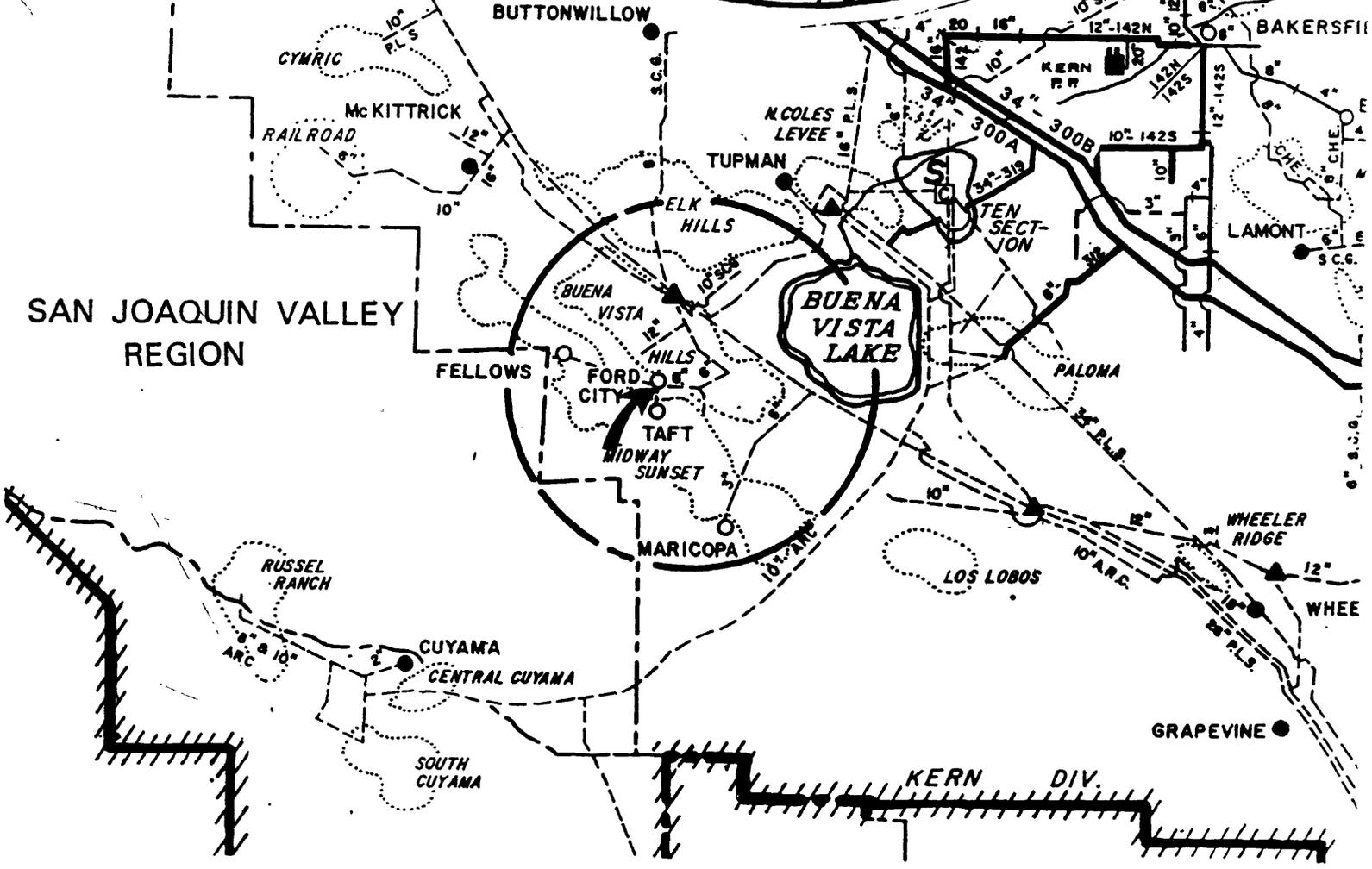
SoCalGas Zone - #3

FORD CITY

TAFT (LINCOLN & ASH) TAP



SAN JOAQUIN VALLEY REGION



Effective Date: March 1, 1990  
Revision No. One (1)

**EXCHANGE TAP INFORMATION SHEET**

**Tap Name:**

Taft

**Tap Location:**

Lincoln and Date Streets

**Delivery to (Requesting Party):**

SoCal Gas

**Type of Exchange:**

Ongoing

**Volume Limits (max. daily):**

72 Mcf/day

**Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:**

18 psig

**Facility Ownership Information:**

SoCal Gas meter

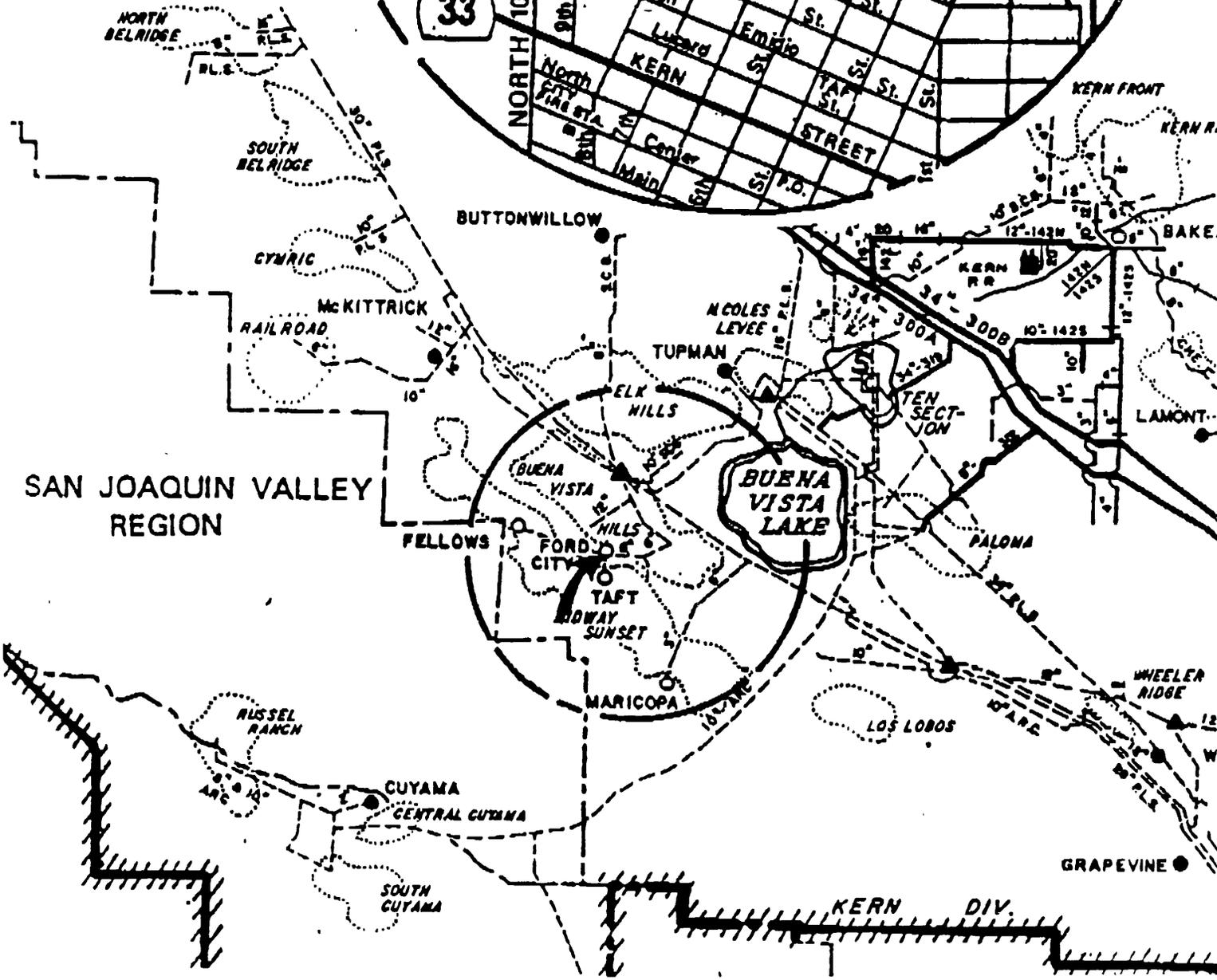
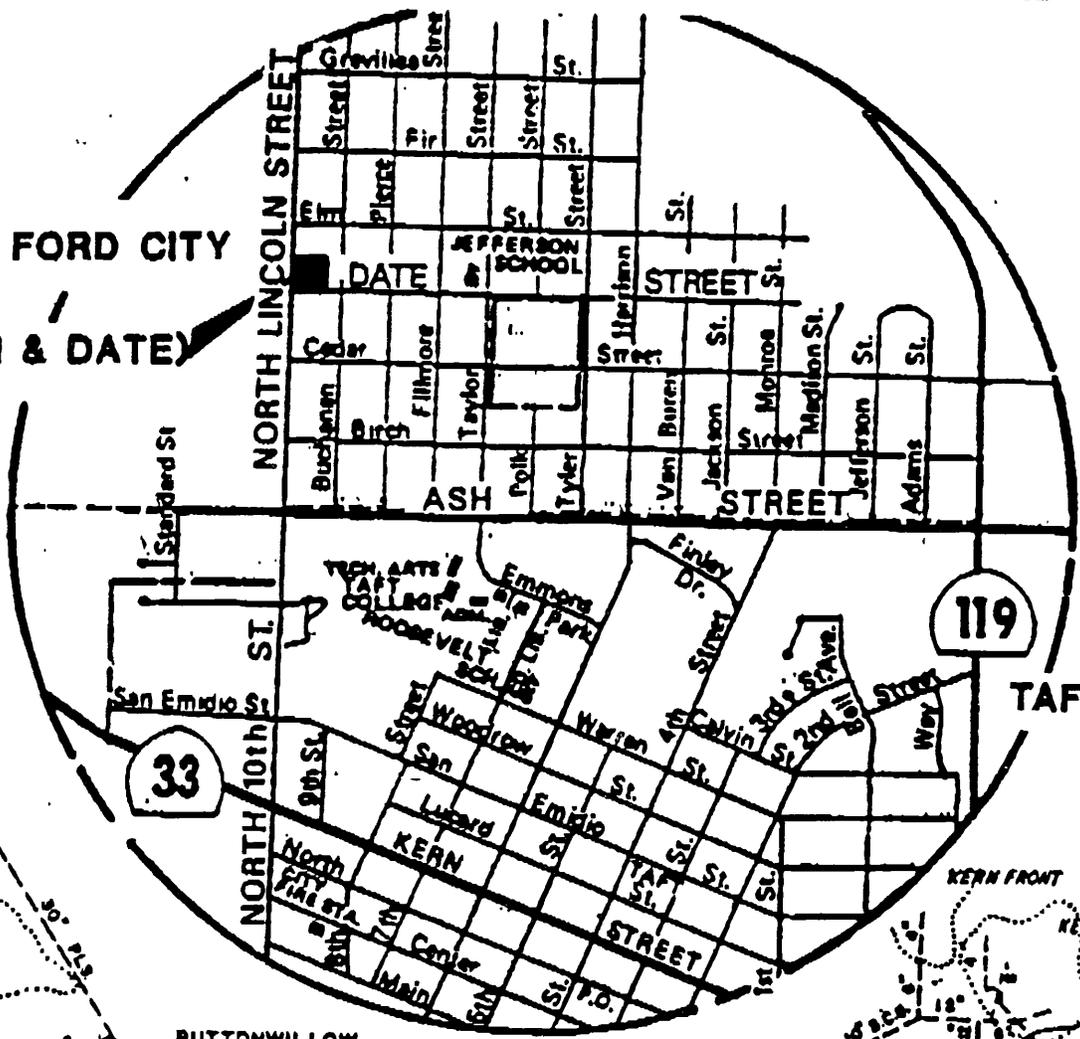
**Use of Exchange Tap:**

Provide service to two (2) SoCal Gas customers, both on the west side of Lincoln near Date Street.

**Special Conditions:**

PG&E Zone #3

FORD CITY  
TAFT (LINCOLN & DATE)  
TAP



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Templeton

Tap Location:

Various SoCalGas customer meters off of PG&E Line 306 in the Templeton and Atascadero areas.

Delivery to (Requesting Party):

SoCalGas

Type of Exchange:

Ongoing

Volume Limits (max. daily):

17 Mcf/day

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

290 to 400 psig

Facility Ownership Information:

Service, meter and regulating facilities owned by SoCalGas.  
Taps owned by PG&E.

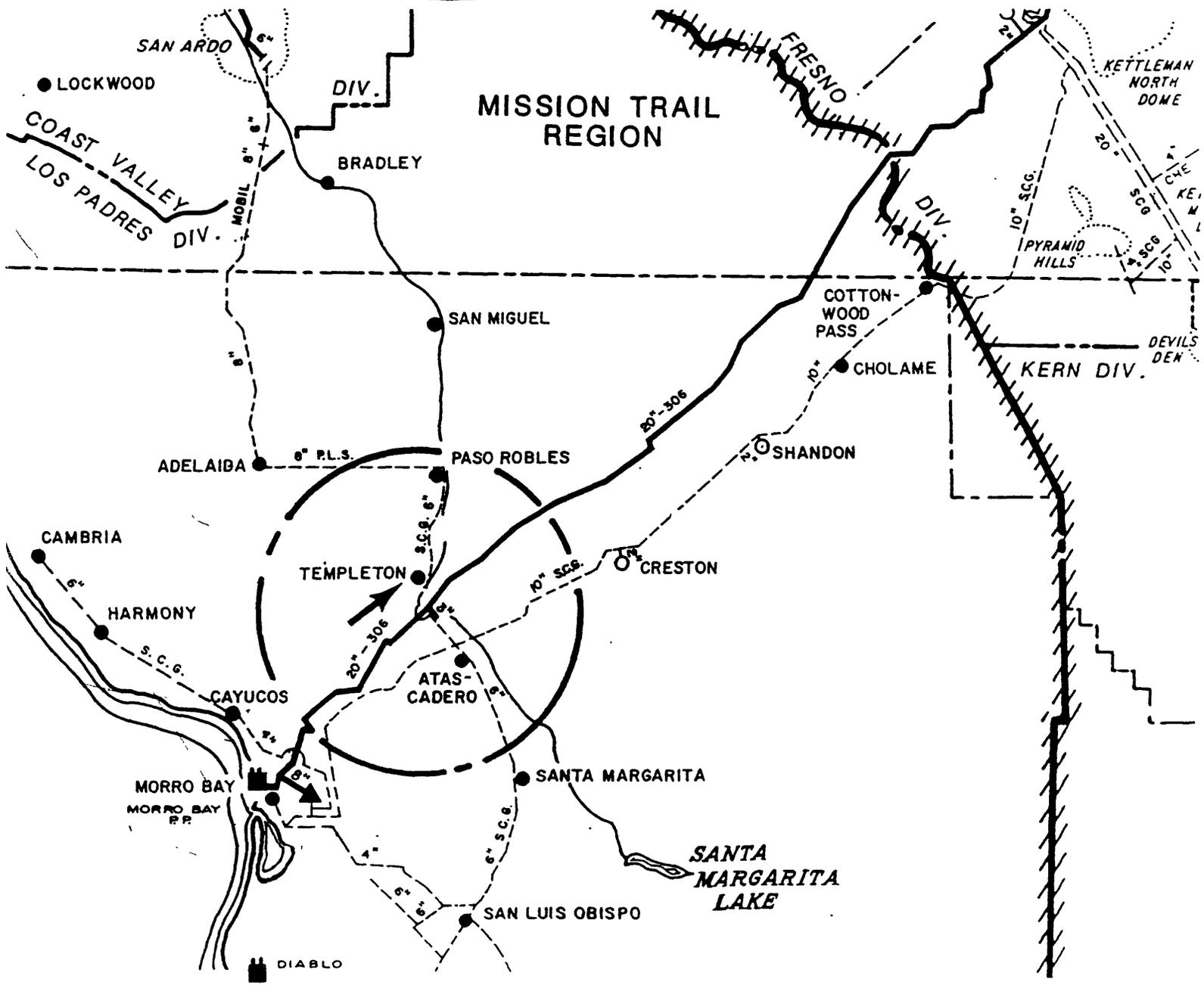
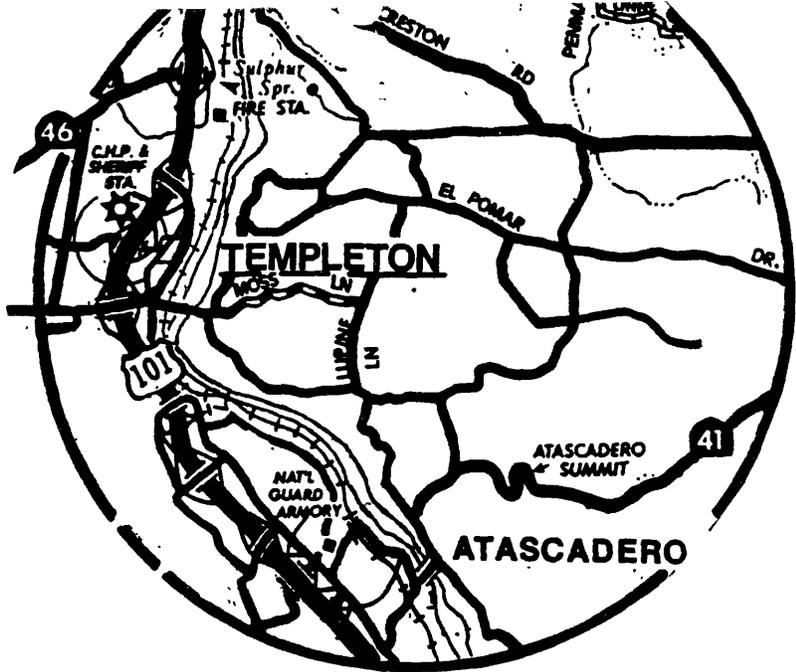
Use of Exchange Tap:

Service to scattered rural customers services.

Special Conditions:

PG&E Zone - #4

# TEMPLETON TAP



EXCHANGE TAP INFORMATION SHEET

Tap Name:

Topock (Valve # 0.24B)

Tap Location:

Near old Highway 66 on the road to the PG&E Topock Compressor Station (Tap at mile 0.24B on PG&E's Line 300B; at mile 0.56 on SoCalGas's L3000).

Delivery to (Requesting Party):

Two-Way

Type of Exchange:

Standby\*

Volume Limits (max. daily):

50 MMcf/day minimum (meter limits)

240 MMcf/day maximum (meter limits)

Note: 200 MMcf/day maximum flow achieved during test on 3/7/82

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

550-650 psig (SoCalGas)

429 psig minimum (PG&E)

660 psig maximum (PG&E)

Facility Ownership Information:

SoCalGas - Piping and meter facilities

PG&E - Flow control system

Use of Exchange Tap:

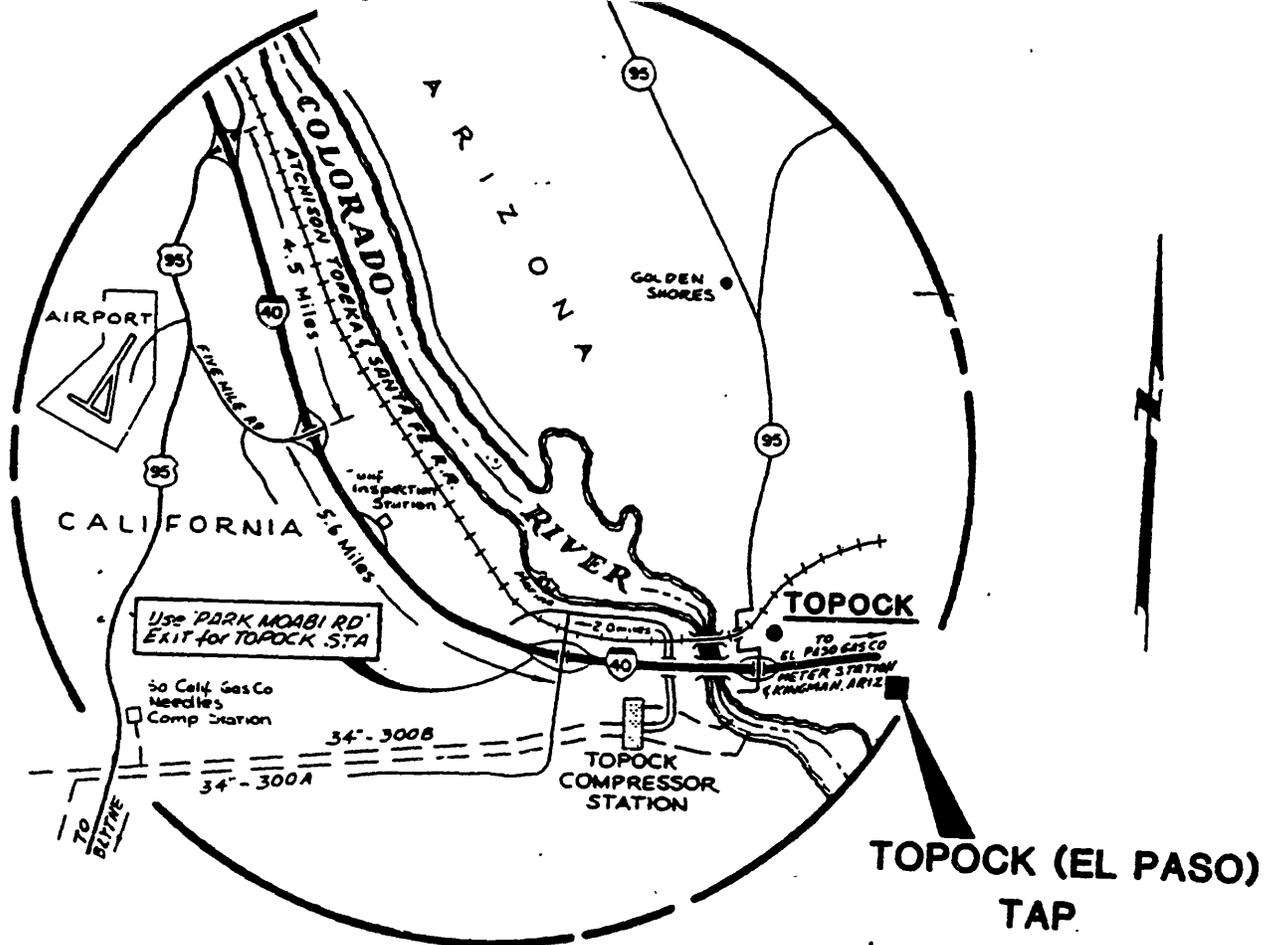
\*This interconnection is used primarily as a delivery point for several other sales and transportation agreements. If used for Standby deliveries under the Master Exchange Agreement, the provisions of Appendix D hereof (SoCalGas/PG&E Letter Agreement dated July 18, 1979) will be applicable to all Standby volumes delivered.

Special Conditions:

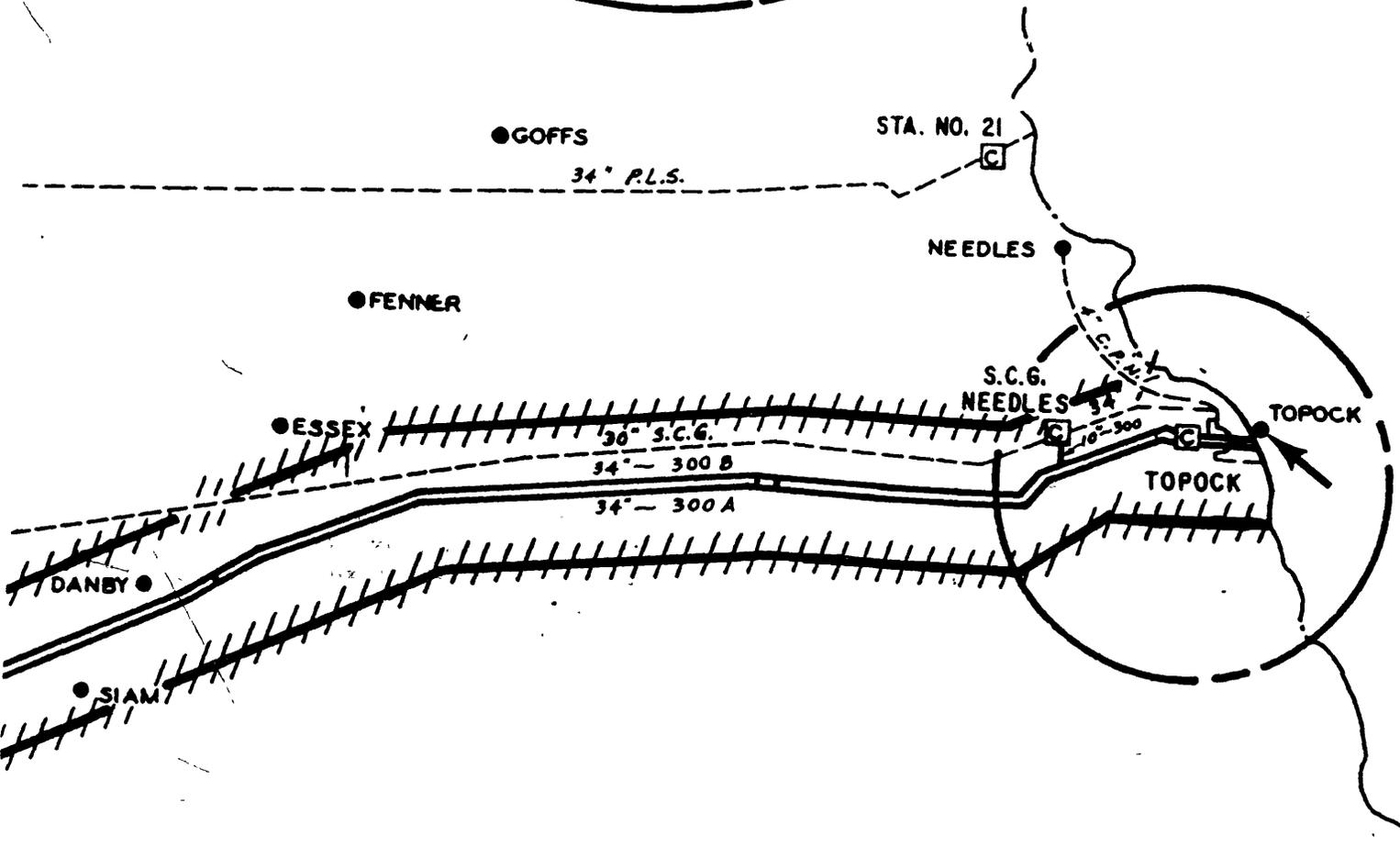
PG&E Zone - #1

SoCalGas Zone - #1

EXCHANGE TAP INFORMATION SHEET



**TOPOCK (EL PASO) TAP**



**SAN JOAQUIN VALLEY REGION**

Tap Name:

Topock (El Paso)

Tap Location:

In Arizona at El Paso's meter station upstream of the PG&E/SoCalGas interconnections with the El Paso system.

Delivery to (Requesting Party):

Two-way

Type of Exchange:

Standby\*

Volume Limits (max. daily):

Range of Operating Pressures Prevailing in Receiving Party's Pipeline System at Tap Locations:

429 psig minimum  
660 psig maximum

Facility Ownership Information:

El Paso Natural Gas Co.

Use of Exchange Tap:

\*This interconnection is used primarily as a delivery point for several other sales and transportation agreements.

Special Conditions:

PG&E Zone - #1  
SoCalGas Zone - #1



Billing Month of:  
\_\_\_\_\_, 19\_\_

(ST)ANDBY or (ON)GOING DELIVERIES				Net Exchanges		Net Compress. Fee		Net Delivery Fees		Cost of	
***** (All Values in Decatherms) *****				(Deliv & Redeliv)		(Deliv & Redeliv)		(Deliveries Only)		Ownership Charges	
-----SoCal Deliveries to PG&E-----				-----PG&E Deliveries to SoCal-----		I - = Net to PG&E		I + = PG&E owes SoCal		I + = PG&E Owes SoCal	
Deliveries		Redeliveries		Deliveries		Redeliveries		I + = Net to SoCal		I - = SoCal owes PG&E	
(A)	Dth	(B)	Dth	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
				I (E) = (A+B) - (C+D)		I Fee = (E) x rate		I Fee = (A-C) x rate		I Tap I \$	
ZONE 1 :ST: Topock (El Paso) (1)				:ST: Topock (El Paso) (1)		I 0		I		I	
:ST: Topock (V#0.24B) (1)				:ST: Topock (V#0.24B) (1)		I 0		I		I	
:ST: Needles (T/W) (1)				:ST: Needles (T/W) (1)		I 0		I		I	
TOTAL ZONE 1				TOTAL ZONE 1		DthI \$ 0 @ \$0.00		I \$ @ \$0.10		I	
ZONE 2 :ST: Pisgah				:ST: Needles (7.62B)		I		I		I	
TOTAL ZONE 2				TOTAL ZONE 2		DthI \$ @ \$0.05		I \$ @ \$0.10		I	
ZONE 3 :ON: Baksfld (Stock. & Alin)				:ON: Baksfld (Palm & West.)		I		I		I	
:ON: Baldy Mesa				:ON: Baldy Mesa		I		I		I	
:ON: Fellows				:ON: Fellows		I		I		I	
:ON: Hesperia				:ON: Hesperia		I		I		I	
:ST: Kern River Int. (2)				:ST: Kern River Int. (2)		I		I		I	
:ON: Maricopa				:ON: Maricopa		I		I		I	
:ST: Dildale (Chester Ave.)				:ST: Dildale (Chester Ave.)		I		I		I	
:ON: Taft (Lincoln & Date)				:ON: Taft (Lincoln & Date)		I		I		I	
:ON: Rancho Rd. (Adelanto)				:ON: Rancho Rd. (Adelanto)		I		I		I	
:ON: Roundup Way				:ON: Roundup Way		I		I		I	
:ON: Smokefree Rd. (Phelan)				:ON: Smokefree Rd. (Phelan)		I		I		I	
:ST: Victorville				:ST: Victorville		I		I		I	
TOTAL ZONE 3				TOTAL ZONE 3		DthI \$ @ \$0.10		I \$ @ \$0.10		I	
ZONE 4 :ON: Adelaida (3)				:ON: Atascadero		I		I		I	
:ST: Avenal				:ST: Burrell Station		I		I		I	
:ON: Creston				:ON: Burrell Area		I		I		I	
:ST: Elk Hills				:ST: Fresno (Elm & South)		I		I		I	
:ON: Kettleman Hills				:ST: Kettleman (1)		I		I		I	
:ON: Selma Area				:ST: Morro Bay		I		I		I	
:ON: Shandon				:ON: Raisin City		I		I		I	
				:ON: San Joaquin		I		I		I	
				:ON: Templeton		I		I		I	
SUBTOTAL ZONE 4				SUBTOTAL ZONE 4		DthI \$ @ \$0.15		I \$ @ \$0.10		I	
:ON: Adelaida (3)				:ON: Atascadero (3)		DthI @ \$0.15		I \$ @ \$0.02		I	
TOTAL ZONE 4				TOTAL ZONE 4		I \$		I \$		I	
GRAND TOTAL						DthI \$		I \$		I \$	

Notes: (1) Also a Delivery Point under other sales and transportation agreements. (2) Standby and Redelivery Point under this Agreement, also a Receipt/Delivery Point under other agreements. (3) Delivery fee for Adelaida is 2 cents if Redelivery is made at Atascadero (otherwise fee is 10 cents).

Cumulative Balance (DTH):	+ SoCal Owes PG&E	Fees and Charges	+ PG&E Owes SoCal
	- PG&E Owes SoCal		- SoCal Owes PG&E
End of Prior Month	+/- Dth	Compression Fees	+/- \$
Current Month	+/- Dth	Delivery Fees	+/- \$
		Ownership Charges	+/- \$
End of Current Month	+/- Dth		
		NET DUE	+/- \$

APPENDIX C

ZONES

A. PG&E's Utility System is divided into the following four zones for the purpose of determining compression fees pursuant to Article V herein:

Zone 1 - From the PG&E-El Paso Natural Gas Company interconnection near Topock at the California-Arizona border to the suction side of PG&E's Topock Compressor Station.

Zone 2 - From the discharge side of the Topock Compressor Station, San Bernardino County, California to the suction side of PG&E's Hinkley Compressor Station, San Bernadino County, California.

Zone 3 - All Delivery and Redelivery Point(s) not found in another zone.

Zone 4 - All Delivery and Redelivery Point(s) in Fresno, Kings, San Luis Obispo, and Tulare Counties California.

B. SoCalGas' Utility System is divided into the following four zones for the purpose of determining compression fees pursuant to Article V herein:

Zone 1 - From the SoCalGas-El Paso Natural Gas Company interconnection near Topock at the California-Arizona border to the suction side of SoCalGas' Needles Compressor Station and from the SoCalGas-Transwestern Pipeline Company interconnection at the California-Arizona border to the suction side of SoCalGas' Station No. 21 Compressor Station.

Zone 2 - From the discharge side of Station No. 21 or the Needles Compressor Station to the suction side of SoCalGas' Newberry Compressor Station, San Bernadino County, California.

Zone 3 - All Delivery and Redelivery Point(s) not found in another zone.

Zone 4 - All Delivery and Redelivery Point(s) in Fresno, Kings, San Luis Obispo and Tulare Counties, California.

C. The compression fee charged to the Receiving Party will be based upon the zone designations of the Delivering Party's Utility System. Deliveries as used in this Appendix C, shall mean all Standby deliveries, Ongoing deliveries and redeliveries.

APPENDIX D

Letter Agreement dated July 18, 1979

between

PACIFIC GAS AND ELECTRIC COMPANY

and

SOUTHERN CALIFORNIA GAS COMPANY

# PACIFIC GAS AND ELECTRIC COMPANY

PG&E + 77 BEALE STREET • SAN FRANCISCO, CALIFORNIA 94106 • (415) 781-4211

HOWARD M. MCKINLEY  
VICE PRESIDENT - GAS OPERATIONS

July 18, 1979

Mr. J. D. Brady, Vice President  
Southern California Gas Company  
P. O. Box 3249, Terminal Annex  
Los Angeles, California 90051

Dear John:

This letter will confirm our agreement concerning the operation of the proposed new intertie facilities at Topock Compressor Station in California for the exchange of gas between Southern California Gas Company's ("SoCal") 34" Line 3000 and Pacific Gas and Electric Company's ("PGandE") 34" Line 300B.

1. PGandE will provide the additional personnel to handle the increased throughput at Topock Station associated with the gas volumes to be exchanged. The costs related thereto, including overheads, will be billed by PGandE and paid on a monthly basis by SoCal.
2. In order to effect the exchange of gas from SoCal's Line 3000 to PGandE's Line 300B, PGandE must lower the normal delivery pressure of the gas received from El Paso Natural Gas Company (EPNG) at Topock. PGandE shall determine the fuel volume that must be used in additional compression to make up for such pressure drop and that volume of fuel gas will be deducted from the amount of gas redelivered by PGandE to SoCal at the downstream delivery point. (See Appendix A for calculation of fuel volume expressed as a percentage of volume exchanged.)
3. SoCal will also provide to PGandE the fuel required for additional compression to compensate for any pressure degradation on the El Paso system resulting from said Topock intertie exchanges. This fuel volume will also be deducted from the actual transported volume as in 2 above. Fuel volumes, so provided, will be based upon the difference between the average suction pressure existing at PGandE's Topock Compressor Station during the days on which said gas is being exchanged and that which would have existed absent the exchange. For purposes of

this agreement, the suction pressure which would have existed, absent these deliveries, will be determined from a least squares curve fit of recorded June and July 1979 PGandE Topock pressure flow data at the upper 95 percent confidence level.

It is agreed that the companies will jointly reevaluate the subject of pressure degradation after 30 days of actual exchange operation to determine the necessity of any modification in the pressure drop fuel adjustment. (See Appendix A for fuel volume expressed as a percentage of volume exchanged.)

4. SoCal shall deliver (and PGandE will pay for at the currently effective El Paso rate per Mcf) the amount of gas equivalent to any daily underrun in PGandE's take from El Paso that is attributable directly or indirectly to the exchange of gas by SoCal to PGandE's Line 300B hereunder. SoCal shall reimburse PGandE for any overrun or underrun penalty charged by El Paso to PGandE for any underrun or overrun on any gas day that is directly or indirectly attributable to the exchange of gas to PGandE's Line 300B under this agreement. It is intended that the agreed to exchanges take place during the same gas day. All adjustments and reconciliation of gas accounts will be made to conform to El Paso's gas billing day (7:00 a.m. to 7:00 a.m. MST).

5. In addition to the herein stated terms and conditions, all of the terms and conditions, except Article 8, of that certain "Gas Transportation and Exchange Agreement" between the parties dated May 23, 1979, shall apply to operations hereunder and to all gas delivered to PGandE at the Topock intertie, and subsequently redelivered to SoCal. The Topock intertie shall be deemed a mutually acceptable delivery point under said Exchange Agreement during the term hereof.

6. Notwithstanding any other provision hereof, in no case shall PGandE be required under this agreement to accept delivery of gas through the intertie if, in PGandE's sole judgment, such acceptance of gas would prevent or hinder PGandE from discharging its corporate responsibilities to both its gas suppliers and customers.

7. The term of this agreement shall be 90 days and shall continue in effect thereafter until one party elects to terminate the agreement by giving the other party 30 days' written notice of its intent to terminate.

Mr. J. D. Brady

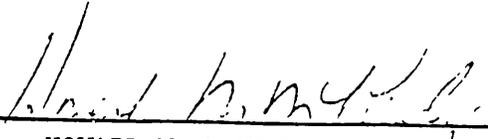
- 3 -

July 18, 1979

If you agree to the foregoing, please sign and return one copy of this letter to me.

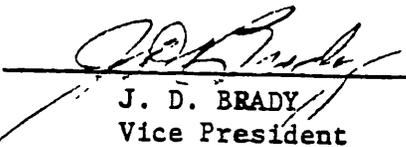
Very truly yours,

PACIFIC GAS AND ELECTRIC COMPANY

By   
HOWARD M. McKINLEY  
Vice President

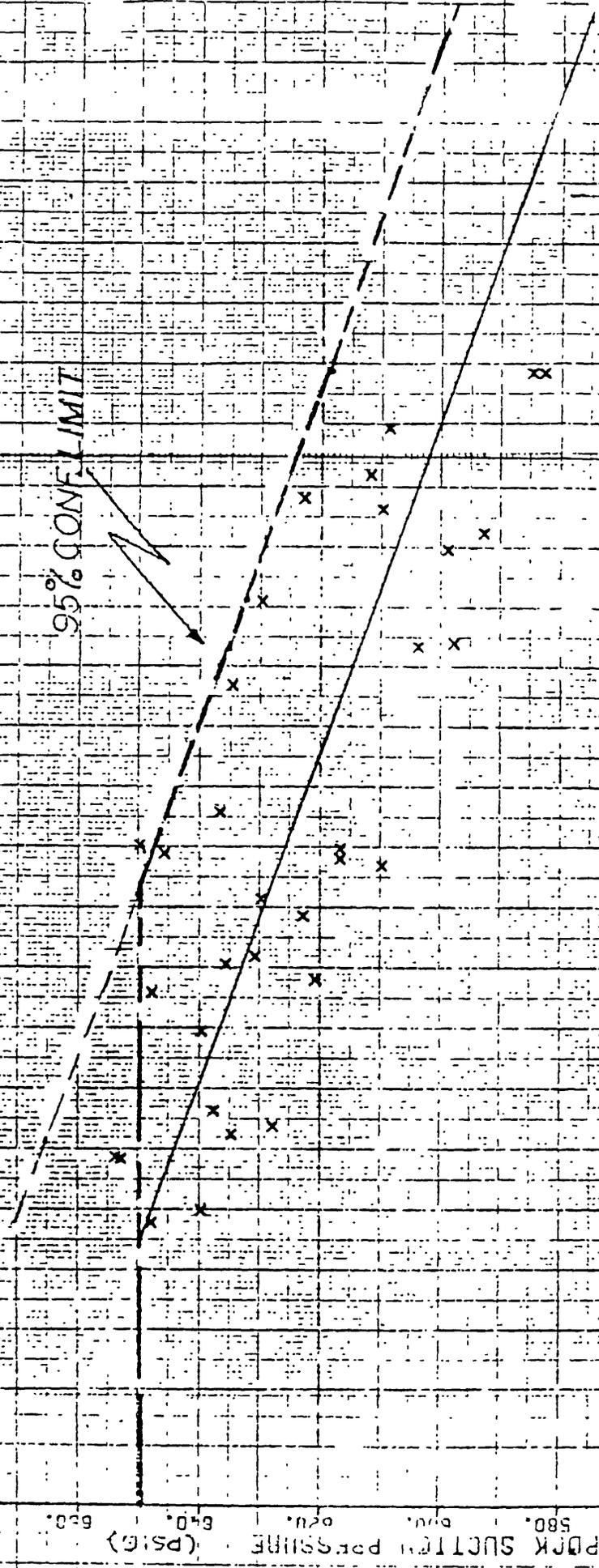
ACCEPTED AND AGREED TO:

SOUTHERN CALIFORNIA GAS COMPANY

By  *at*  
J. D. BRADY  
Vice President

95% CONFIDENCE LIMIT  
OF P&E TOPOCK SUCTION PRESSURE  
FOR SUMMER 1979

95% CONFIDENCE LIMIT



APPENDIX A

TABLE I

(Reference: Paragraph 2 of the Topock SoCal-PG&E Interchange Operating Agreement.)

Incremental Fuel Required by the Topock Compressors to Recover the Pressure Lost Throttling PG&E's MLV 0.24B  
 (Incremental Fuel is Shown as a Percentage (%) of the SoCal Intertie Flow)

SoCal Intertie Flow Rate MMCF/D	PG&E's El Paso Flow Rate -- MMCF/D								
	700	750	800	850	900	950	1000	1050	1100
50	0.1528	0.1272	0.2736	0.2309	0.2600	0.3275	0.3605	0.4126	0.4126
100	0.0636	0.1368	0.1155	0.1300	0.1638	0.1803	0.2063	0.2063	-
150	0.0912	0.0770	0.0867	0.1092	0.1202	0.1375	0.1375	-	-
200	0.0577	0.0650	0.0819	0.0901	0.1032	0.1375	-	-	-

Sample Calculation

Given: PG&E-El Paso Rate - 800 MMCF/D; SoCal Intertie Flow - 150 MMCF/D.

Go to table and find 0.0867% factor, then the following is true:

$$\text{Incremental Fuel Charged SoCal} = 150 \text{ MMCF/D} \times \frac{0.0867\%}{100\%} = 130 \text{ MCF}$$

The total fuel volume which SoCal would owe to PG&E based on the sample conditions given at the bottom of Tables I and II would then be:

$$\begin{aligned} \text{Total fuel volume owed PG\&E} &= \text{Incremental fuel due to throttling MLV 0.24B} + \text{Incremental fuel due to} \\ &\quad \text{PG\&E-El Paso suction pressure degradation} \\ &= 130 \text{ MCF} + 280.2 \text{ MCF} \\ &= 410.2 \text{ MCF (this fuel volume would be in addition to the 1.7\% fuel volume} \\ &\quad \text{specified in the PG\&E-SoCal "Gas Transportation and Exchange Agreement"} \\ &\quad \text{dated May 23, 1979)} \end{aligned}$$

APPENDIX A

TABLE II

(Reference: Paragraph 3 of the Topock SoCal - PGandE Interchange Operating Agreement)

Incremental Fuel as a Percentage of SoCal Intertie Flow Rate  
to Compensate for Degradation of El Paso's Pressure to PG&E

<u>SoCal Intertie Flow Rate MMCF/D</u>	<u>Pressure Degradation Due to SoCal Flow (psi)</u>	<u>PGandE - El Paso Flow Rate -- MMCF/D</u>								
		<u>700</u>	<u>750</u>	<u>800</u>	<u>850</u>	<u>900</u>	<u>950</u>	<u>1000</u>	<u>1050</u>	<u>1100</u>
50	10	0.1528	0.1272	0.0952	0.2500	0.2460	0.2789	0.3594	0.4032	0.4032
	20	0.4720	0.3244	0.3688	0.4838	0.5236	0.5603	0.7272	0.8158	0.8158
100	10	0.0636	0.0476	0.1250	0.1395	0.1663	0.1797	0.2016	0.2016*	0.2016*
	20	0.1622	0.1844	0.2419	0.2842	0.2999	0.3636	0.4079	0.4079*	0.4079*
	30	0.2977	0.2850	0.3570	0.4121	0.4622	0.5518	0.5518*	0.5518*	0.5518*
150	10	0.0317	0.0833	0.0930	0.1109	0.1198	0.1344	0.1344*	0.1344*	0.1344*
	20	0.1229	0.1613	0.1868	0.1999	0.2424	0.2719	0.2719*	0.2719*	0.2719*
	30	0.1900	0.2380	0.2747	0.3249	0.3679	0.3679*	0.3679*	0.3679*	0.3679*
	40	0.2631	0.3191	0.3702	0.4183	0.4757	0.4757*	0.4757*	0.4757*	0.4757*
200	10	0.0625	0.0697	0.0832	0.0899	0.1008	0.1008*	0.1008*	0.1008*	0.1008*
	20	0.1210	0.1401	0.1500	0.1818	0.2040	0.2040*	0.2040*	0.2040*	0.2040*
	30	0.1785	0.2060	0.2311	0.2759	0.2759*	0.2759*	0.2759*	0.2759*	0.2759*
	40	0.2394	0.2777	0.3137	0.3568	0.3568*	0.3568*	0.3568*	0.3568*	0.3568*

Note: \*Pressure degradation due to high flow rate not to exceed PGandE's minimum suction pressure requirement.

Sample Calculation

Given: PGandE - El Paso Rate - 800 MMCF/D; SoCal Intertie Rate - 150 MMCF/D; Actual (Field Recorded) pressure degradation below 95% Confidence Line (See Graph I) - 20 psi

**Pacific Gas and Electric Company**

245 Market Street, Room 1509-N15A  
San Francisco, CA 94105  
*Mailing Address*  
Mail Code N15A  
P.O. Box 770000  
San Francisco, CA 94177  
415/973-1332

H. O. LaFlasch  
Manager - Business Projects Department  
Gas Services and Operations

October 8, 1996



Mr. Richard Ishikawa  
Southern California Gas Company  
P. O. Box 3249  
Los Angeles, CA 90051-1249

Dear Mr. Ishikawa:

Please refer to the Master Exchange Gas Delivery Agreement (Agreement) dated March 1, 1990, and more specifically to the letter dated March 11, 1996, requesting the recalculation of the compression fees provided under the Agreement. The parties have met and agree to the following:

1. Paragraph 5.2 of the Agreement shall be deleted in its entirety and replaced with the following revised Paragraph 5.2:

5.2 All Gas delivered or redelivered hereunder is subject to a compression fee designed to reimburse the parties for the operational cost of compressing and transporting such Gas to the Delivery Point(s) or Redelivery Point(s). For the purpose of accounting for such fees, the respective Utility Systems of the parties are divided into compression zones more fully described in Appendix C.

The compression fees applicable to each party hereto for delivery of Gas within each zone are as follows:

		<u>PG&amp;E the Requesting Party</u>	<u>SoCalGas the Requesting Party</u>
For deliveries or			
redeliveries in -	Zone 1	\$0.01/Dth	\$0.01/Dth
-	Zone 2	\$0.03/Dth	\$0.03/Dth
-	Zone 3	\$0.01/Dth	\$0.05/Dth
-	Zone 4	\$0.01/Dth	\$0.05/Dth

Mr. Richard Ishikawa  
October 8, 1996  
Page 2



2. Southern California Gas Company (SoCalGas) has requested, and Pacific Gas & Electric Company (PG&E) has agreed, to make a possible exception to the limitation set forth in Paragraph 5.4 of the Agreement which would prevent SoCalGas from requesting a redetermination of the delivery and/or compression fees set forth in the Agreement any time sooner than two years following the effective date of the revised Paragraph 5.2 set forth above. SoCalGas has indicated that at some time during that two-year period, SoCalGas may wish to propose a fundamental change to the operation of the Agreement which may involve a redetermination of the delivery and/or compression fees set forth in the revised Paragraph 5.2. If SoCalGas submits such a proposal during the two-year period following the effective date of the revised Paragraph 5.2, PG&E agrees to make an exception to the limitation set forth in Paragraph 5.4 if necessary to consider SoCalGas' proposal. By this exception, the Agreement shall not be modified, and neither party shall waive any rights or obligations thereunder. The term and conditions of the Agreement shall continue in full force.

This revised Paragraph 5.2 will become effective on November 1, 1996.

If the foregoing is acceptable, please execute and return one fully executed copy of the agreement to PG&E.

PACIFIC GAS & ELECTRIC COMPANY

By: N. O. LaHask

ACCEPTED AND AGREED TO:

SOUTHERN CALIFORNIA GAS COMPANY

By: L. Perry

829  
ms

June 10, 2021

Mr. Kenneth Brennan  
Pacific Gas and Electric Company  
6121 Bollinger Canyon Road, Suite 4206C, MC BR1Z4A  
San Ramon, CA 94583

Dear Ken:

Please refer to the Master Exchange Agreement (Agreement) dated March 1, 1990, between Pacific Gas and Electric Company (PG&E) and Southern California Gas Company (SoCalGas).

After discussions with PG&E representatives, and pursuant to the purchase of PG&E Line 306 by SoCalGas, both parties propose to amend the Agreement to add two additional Exchange Tap Information Sheets (Tap Sheets) and remove three existing Tap Sheets. Appendices "A" and "B" thereto will be revised.

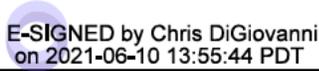
Enclosed please find the following:

1. New Tap Sheets for (i) Line 44-306 Area; and (ii) Kettleman Station Interconnect.
2. A revised "Appendix A – Exchange Tap Information Sheet Summary" to reflect (i) the deletion of the Atascadero, Morro Bay, and Templeton Tap Sheets; and (ii) the addition of the new Kettleman Station Interconnect and Line 44-306 Area Tap Sheets.
3. A revised "Appendix B – Monthly Accounting Summary" showing the addition of the Kettleman Station Interconnect, as well as the addition and deletion of individual taps on Line 306 in PG&E's service territory.

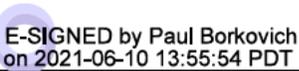
If the additional Tap Sheets and revisions to Appendices "A" and "B" are satisfactory, please indicate your agreement by having this Letter Amendment executed on behalf of PG&E and returning one fully executed copy to SoCalGas.

ACCEPTED AND AGREED TO:

PACIFIC GAS AND ELECTRIC COMPANY

By:   
Chris DiGiovanni, Manager, Wholesale Marketing and Business Development

SOUTHERN CALIFORNIA GAS COMPANY

By:   
Paul Borkovich, Energy Markets Segment Manager

Enclosure