

<b>DOCKETED</b>	
<b>Docket Number:</b>	21-IEPR-05
<b>Project Title:</b>	Natural Gas Outlook and Assessments
<b>TN #:</b>	238505
<b>Document Title:</b>	California Energy Commission Comments - TN238033_20210528T113624_DOT PHMSA UNGS Annual Report Submitted 2020
<b>Description:</b>	N/A
<b>Filer:</b>	System
<b>Organization:</b>	California Energy Commission
<b>Submitter Role:</b>	Commission Staff
<b>Submission Date:</b>	6/25/2021 4:40:40 PM
<b>Docketed Date:</b>	6/25/2021


*Comment Received From: California Energy Commission  
Submitted On: 6/25/2021  
Docket Number: 21-IEPR-05*

**TN238033\_20210528T113624\_DOT PHMSA UNGS Annual Report  
Submitted 2020**

*Additional submitted attachment is included below.*

<b>DOCKETED</b>	
<b>Docket Number:</b>	21-IEPR-03
<b>Project Title:</b>	Electricity and Natural Gas Demand Forecast
<b>TN #:</b>	238033
<b>Document Title:</b>	DOT PHMSA UNGS Annual Report Submitted 2020
<b>Description:</b>	As part of the supporting data, the IEPR Gas Forms submittal requires PG&E to provide the most recent U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration (PHMSA) Gas Distribution F7100.1-1, Gas Transmission and Gathering F7100.2-1, and Underground Natural Gas Storage F7100.4-1 submitted by the gas utility.
<b>Filer:</b>	Elizabeth Lopez
<b>Organization:</b>	PG&E
<b>Submitter Role:</b>	Public Agency
<b>Submission Date:</b>	5/28/2021 11:36:26 AM
<b>Docketed Date:</b>	5/28/2021

Notice: This report is required by 49 CFR Part 191. Failure to report may result in a civil penalty as provided in 49 USC 60122.

	U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration	<b>UNDERGROUND NATURAL GAS STORAGE FACILITY ANNUAL REPORT FOR CALENDAR YEAR 2020</b>	<b>Original Date Submitted</b>	<b>DOT USE ONLY</b> <b>02/23/2021</b>
			<b>Report Type</b>	<b>INITIAL</b>
			<b>Date Submitted</b>	<b>02/23/2021</b>

A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2137-0522. Public reporting for this collection of information is estimated to be approximately 20 hours per response, including the time for reviewing instructions, gathering the data needed, and completing and reviewing the collection of information. All responses to this collection of information are mandatory. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Information Collection Clearance Officer, PHMSA, Office of Pipeline Safety (PHP-30) 1200 New Jersey Avenue, SE, Washington, D.C. 20590.

**INSTRUCTIONS**

**Important:** Please read the separate instructions for completing this form before you begin. They clarify the information requested and provide specific examples. If you do not have a copy of the instructions, you can obtain one from the PHMSA Pipeline Safety Community Web Page at <http://www.phmsa.dot.gov/pipeline/library/forms>

<b>PART A - OPERATOR INFORMATION</b>	<b>DOT USE ONLY</b>	<b>20210032 - 01864</b>
<p>A1. Operator's OPS-issued Operator Identification Number (OPID): <b>15007</b></p> <p>A2. Name of Operator: <b>PACIFIC GAS &amp; ELECTRIC CO</b></p> <p>A3. Address of Operator</p> <p>A3a. Street Address: <b>PG&amp;E - GAS OPERATIONS, REGULATORY COMPLIANCE</b></p> <p>A3b. City: <b>SAN RAMON</b></p> <p>A3c. State: <b>CA</b></p> <p>A3d. Zip Code: <b>94583</b></p>		

SUMMARY OF FACILITY/RESERVOIR					
Facility	Inter/Intra	State	County	Reservoir	Type
Pleasant Creek	Intra	California	YOLO	Peters Sand	Hydrocarbon Reservoir

SUMMARY OF FACILITY/RESERVOIR					
Facility	Inter/Intra	State	County	Reservoir	Type
Los Medanos	Intra	California	CONTRA COSTA	Domengine	Hydrocarbon Reservoir

SUMMARY OF FACILITY/RESERVOIR					
Facility	Inter/Intra	State	County	Reservoir	Type
McDonald Island	Intra	California	SAN JOAQUIN	Mokelumne River	Hydrocarbon Reservoir

PART B – STORAGE FACILITY (Complete Part B once for each independent storage facility)	
FACILITY INFORMATION FOR Pleasant Creek	
B1.	Facility Name (chosen by operator): <b>Pleasant Creek</b>
B2.	Select only one: <input type="checkbox"/> INTERState <input checked="" type="checkbox"/> INTRAsate
	PHMSA USE ONLY Unit ID: <b>88723</b>
B3.	Facility Location:
	Latitude: <b>38.54552</b>
	Longitude: <b>- 122.00211</b>

Notice: This report is required by 49 CFR Part 191. Failure to report may result in a civil penalty as provided in 49 USC 60122.

	State:	<b>California</b>
	County:	<b>YOLO</b>
B4.	Energy Information Administration Gas Field Code: <b>113</b> Names of Reservoirs within this facility: <b>Peters Sand,</b>	
<b>GAS VOLUMES</b>		
B5.	Working gas capacity (billion standard cubic feet (BCF)), <i>include two decimal places</i> : <b>2.25</b>	
B6.	Base (also known as Cushion or Pad) gas (billion standard cubic feet (BCF)), <i>include two decimal places</i> : <b>5.08</b>	
B7.	Total gas capacity (billion standard cubic feet (BCF)): <b>7.33</b>	
B8.	Volume of natural gas withdrawn from the facility for calendar year (billion standard cubic feet (BCF)), <i>include two decimal places</i> : <b>1.25</b>	
B9.	Volume of natural gas injected into the facility for calendar year (billion standard cubic feet (BCF)), <i>include two decimal places</i> : <b>0</b>	

<b>PART C – RESERVOIRS AND WELLS (Complete Part C once for each reservoir or geologic storage formation within a facility)</b>		
<b>RESERVOIR 1: Peters Sand</b>		
C1.	Reservoir name (chosen by operator): <b>Peters Sand</b>	
C2.	Year reservoir placed in storage service: <b>1960</b>	
C3.	Type (select only one): <input type="checkbox"/> Salt Cavern <input checked="" type="checkbox"/> Hydrocarbon Reservoir <input type="checkbox"/> Aquifer Reservoir <input type="checkbox"/> Other Description of type:	
C4.	Maximum Wellhead Surface Pressure	
C4a.	Text identifying the indicator well: <b>N/A</b>	
C4b.	Maximum surface pressure (pounds per square inch gauge (psig)) at the indicator well: <b>1250</b>	
<b>RESERVOIR OR GEOLOGIC STORAGE FORMATION DEPTH</b>		
C5.	Approximate Maximum Depth (feet): <b>2975</b>	
C6.	Approximate Minimum Depth (feet): <b>2675</b>	
<b>WELLS</b>		
C7.	Number of Injection and/or Withdraw Wells: <b>6</b>	
C8.	Number of Monitoring and/or Observation Wells: <b>0</b>	
C9.	Number of Wells drilled during the calendar year: <b>0</b>	
C10.	Number of Wells plugged and abandoned during the calendar year: <b>0</b>	
<b>WELL SAFETY VALVES</b>		
C11.	Number of Wells with surface safety valves: <b>6</b>	
C12.	Number of Wells with subsurface safety valves: <b>0</b>	
<b>WELLS GAS FLOW</b>		
C13.	Number of Wells with gas flow only through production tubing: <b>0</b>	
C14.	Number of Wells with gas flow only through production casing: <b>0</b>	
C15.	Number of Wells with gas flow through both production tubing and production casing: <b>6</b>	
C16.	Number of Wells with some "other type" of gas flow: <b>0</b> Describe the "other type" of gas flow through the well:	
<b>MAINTENANCE</b>		

Notice: This report is required by 49 CFR Part 191. Failure to report may result in a civil penalty as provided in 49 USC 60122.

C17.	Number of Wells with new production tubing installed during the calendar year: <b>0</b>
C18.	Number of Wells with new production casing, new liner, or repairs to casing or liner during the calendar year: <b>0</b>
C19.	Number of Wells with wellhead remediation or repair during the calendar year: <b>0</b>
C20.	Number of Wells with casing, wellhead, or tubing leaks during the calendar year: <b>0</b>
C21.	Number of Wells with Pressure Test Mechanical Integrity Tests (MIT) during the calendar year: <b>0</b>
C22.	Number of Wells with Logged for Corrosion/wall loss MIT during the calendar year: <b>0</b>
C23.	Number of Wells with MIT other than "Pressure Test" and "Logged for Corrosion/wall loss" during the calendar year*: <b>0</b> * Describe other MIT:

**PART B – STORAGE FACILITY (Complete Part B once for each independent storage facility)**

FACILITY INFORMATION FOR Los Medanos	
B1.	Facility Name (chosen by operator): <b>Los Medanos</b>
B2.	Select only one: <input type="checkbox"/> INTERState <input checked="" type="checkbox"/> INTRAsate
	PHMSA USE ONLY Unit ID: <b>88725</b>
B3.	Facility Location:
	Latitude: <b>38.02347</b>
	Longitude: <b>- 122.00376</b>
	State: <b>California</b>
	County: <b>CONTRA COSTA</b>
B4.	Energy Information Administration Gas Field Code: <b>013</b> Names of Reservoirs within this facility: <b>Domengine,</b>
GAS VOLUMES	
B5.	Working gas capacity (billion standard cubic feet (BCF)), include two decimal places: <b>17.95</b>
B6.	Base (also known as Cushion or Pad) gas (billion standard cubic feet (BCF)), include two decimal places: <b>11.19</b>
B7.	Total gas capacity (billion standard cubic feet (BCF)): <b>29.14</b>
B8.	Volume of natural gas withdrawn from the facility for calendar year (billion standard cubic feet (BCF)), include two decimal places: <b>2.44</b>
B9.	Volume of natural gas injected into the facility for calendar year (billion standard cubic feet (BCF)), include two decimal places: <b>2.5</b>

**PART C – RESERVOIRS AND WELLS (Complete Part C once for each reservoir or geologic storage formation within a facility)**

RESERVOIR 1: Domengine	
C1.	Reservoir name (chosen by operator): <b>Domengine</b>
C2.	Year reservoir placed in storage service: <b>1973</b>
C3.	Type (select only one): <input type="checkbox"/> Salt Cavern <input checked="" type="checkbox"/> Hydrocarbon Reservoir <input type="checkbox"/> Aquifer Reservoir <input type="checkbox"/> Other Description of type:
C4.	Maximum Wellhead Surface Pressure
C4a.	Text identifying the indicator well: <b>N/A</b>
C4b.	Maximum surface pressure (pounds per square inch gauge (psig)) at the indicator well: <b>1600</b>
RESERVOIR OR GEOLOGIC STORAGE FORMATION DEPTH	

Notice: This report is required by 49 CFR Part 191. Failure to report may result in a civil penalty as provided in 49 USC 60122.

C5.	Approximate Maximum Depth (feet): <b>4000</b>
C6.	Approximate Minimum Depth (feet): <b>3770</b>
<b>WELLS</b>	
C7.	Number of Injection and/or Withdraw Wells: <b>16</b>
C8.	Number of Monitoring and/or Observation Wells: <b>2</b>
C9.	Number of Wells drilled during the calendar year: <b>0</b>
C10.	Number of Wells plugged and abandoned during the calendar year: <b>1</b>
<b>WELL SAFETY VALVES</b>	
C11.	Number of Wells with surface safety valves: <b>16</b>
C12.	Number of Wells with subsurface safety valves: <b>16</b>
<b>WELLS GAS FLOW</b>	
C13.	Number of Wells with gas flow only through production tubing: <b>2</b>
C14.	Number of Wells with gas flow only through production casing: <b>0</b>
C15.	Number of Wells with gas flow through both production tubing and production casing: <b>14</b>
C16.	Number of Wells with some "other type" of gas flow: <b>0</b> Describe the "other type" of gas flow through the well:
<b>MAINTENANCE</b>	
C17.	Number of Wells with new production tubing installed during the calendar year: <b>2</b>
C18.	Number of Wells with new production casing, new liner, or repairs to casing or liner during the calendar year: <b>0</b>
C19.	Number of Wells with wellhead remediation or repair during the calendar year: <b>2</b>
C20.	Number of Wells with casing, wellhead, or tubing leaks during the calendar year: <b>0</b>
C21.	Number of Wells with Pressure Test Mechanical Integrity Tests (MIT) during the calendar year: <b>2</b>
C22.	Number of Wells with Logged for Corrosion/wall loss MIT during the calendar year: <b>3</b>
C23.	Number of Wells with MIT other than "Pressure Test" and "Logged for Corrosion/wall loss" during the calendar year*: <b>0</b> * Describe other MIT:

**PART B – STORAGE FACILITY (Complete Part B once for each independent storage facility)**

<b>FACILITY INFORMATION FOR McDonald Island</b>	
B1.	Facility Name (chosen by operator): <b>McDonald Island</b>
B2.	Select only one: <input type="checkbox"/> INTERState <input checked="" type="checkbox"/> INTRASTate PHMSA USE ONLY Unit ID: <b>88724</b>
B3.	Facility Location:
	Latitude: <b>37.99096</b>
	Longitude: <b>- 121.47647</b>
	State: <b>California</b>
	County: <b>SAN JOAQUIN</b>
B4.	Energy Information Administration Gas Field Code: <b>077</b> Names of Reservoirs within this facility: <b>Mokelumne River,</b>
<b>GAS VOLUMES</b>	
B5.	Working gas capacity (billion standard cubic feet (BCF)), include two decimal places: <b>82</b>

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B6.	Base (also known as Cushion or Pad) gas (billion standard cubic feet (BCF)), include two decimal places: <b>54.57</b>
B7.	Total gas capacity (billion standard cubic feet (BCF)): <b>136.57</b>
B8.	Volume of natural gas withdrawn from the facility for calendar year (billion standard cubic feet (BCF)), include two decimal places: <b>18.58</b>
B9.	Volume of natural gas injected into the facility for calendar year (billion standard cubic feet (BCF)), include two decimal places: <b>28.47</b>

**PART C – RESERVOIRS AND WELLS (Complete Part C once for each reservoir or geologic storage formation within a facility)**

<b>RESERVOIR 1: Mokelumne River</b>	
C1.	Reservoir name (chosen by operator): <b>Mokelumne River</b>
C2.	Year reservoir placed in storage service: <b>1975</b>
C3.	Type (select only one): <input type="checkbox"/> Salt Cavern <input checked="" type="checkbox"/> Hydrocarbon Reservoir <input type="checkbox"/> Aquifer Reservoir <input type="checkbox"/> Other Description of type:
C4.	Maximum Wellhead Surface Pressure
C4a.	Text identifying the indicator well: <b>McDonald Farms #4</b>
C4b.	Maximum surface pressure (pounds per square inch gauge (psig)) at the indicator well: <b>2070</b>
<b>RESERVOIR OR GEOLOGIC STORAGE FORMATION DEPTH</b>	
C5.	Approximate Maximum Depth (feet): <b>5315</b>
C6.	Approximate Minimum Depth (feet): <b>5150</b>
<b>WELLS</b>	
C7.	Number of Injection and/or Withdraw Wells: <b>77</b>
C8.	Number of Monitoring and/or Observation Wells: <b>8</b>
C9.	Number of Wells drilled during the calendar year: <b>0</b>
C10.	Number of Wells plugged and abandoned during the calendar year: <b>1</b>
<b>WELL SAFETY VALVES</b>	
C11.	Number of Wells with surface safety valves: <b>76</b>
C12.	Number of Wells with subsurface safety valves: <b>67</b>
<b>WELLS GAS FLOW</b>	
C13.	Number of Wells with gas flow only through production tubing: <b>23</b>
C14.	Number of Wells with gas flow only through production casing: <b>0</b>
C15.	Number of Wells with gas flow through both production tubing and production casing: <b>54</b>
C16.	Number of Wells with some "other type" of gas flow: <b>0</b> Describe the "other type" of gas flow through the well:
<b>MAINTENANCE</b>	
C17.	Number of Wells with new production tubing installed during the calendar year: <b>15</b>
C18.	Number of Wells with new production casing, new liner, or repairs to casing or liner during the calendar year: <b>4</b>
C19.	Number of Wells with wellhead remediation or repair during the calendar year: <b>15</b>
C20.	Number of Wells with casing, wellhead, or tubing leaks during the calendar year: <b>0</b>
C21.	Number of Wells with Pressure Test Mechanical Integrity Tests (MIT) during the calendar year: <b>16</b>



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C22	Number of Wells with Logged for Corrosion/wall loss MIT during the calendar year: <b>17</b>
C23.	Number of Wells with MIT other than "Pressure Test" and "Logged for Corrosion/wall loss" during the calendar year*: <b>0</b> * Describe other MIT:

**PART D – CONTACT INFORMATION**

- D1. Name of person submitting report: **Susie Richmond**
- D2. Title of person in D1: **Manager, Regulatory Compliance**
- D3. Work e-mail address of person in D1: **Susie.Richmond@pge.com**
- D4. Work phone number of person in D1: **925-786-0267**
- D5. Name of person to contact with questions about this report: **Lucy Redmond**
- D6. Title of person in D5: **Director Reservoir Engineering**
- D7. Email address of person in D5: **Lucy.Redmond@pge.com**
- D8. Phone number of person in D5: **(925)328-5793**