



El Paso Natural Gas  
Company, L.L.C.  
a Kinder Morgan company

April 27, 2026

Federal Energy Regulatory Commission  
888 First Street, N.E.  
Washington, D.C. 20426

Attention: Ms. Debbie-Anne A. Reese, Secretary

Re: El Paso Natural Gas Company, L.L.C.;  
Docket No. CP26-156-000  
Responses to Data Request - OEP/DG2E/Gas Branch 3

Dear Ms. Reese:

On April 16, 2026, El Paso Natural Gas Company, L.L.C. ("EPNG") received a data request ("Data Request") from the Office of Energy Projects ("OEP") seeking information pertaining to the proposed Permian West Expansion Project. EPNG is herein filing its responses with the Federal Energy Regulatory Commission ("Commission").

### **Description of Proceeding**

On March 27, 2026, EPNG submitted a Request for Prior Notice Authorization Pursuant to Blanket Certificate in the above-referenced docket seeking authorization to construct, install, operate and maintain an approximately nine-mile, 30-inch outside diameter pipeline loop extension and related appurtenances, located in Hudspeth County, Texas as part of its Permian West Expansion Project.

### **Description of Information Being Filing**

EPNG is herein submitting its responses to the Data Request.

### **Filing Information**

EPNG is e-Filing this letter and its responses with the Commission's Secretary in accordance with the Commission's Order No. 703, *Filing Via the Internet*, guidelines issued on November 15, 2007 in Docket No. RM07-16-000.



EL PASO NATURAL GAS COMPANY, L.L.C.  
 Responses to Environmental Information Request – OEP/DG2E/Gas Branch 3  
 Dated April 16, 2026 in Docket No. CP26-156-000  
 Permian West Expansion Project

**ENVIRONMENTAL INFORMATION REQUEST**

**Resource Report 1**

1. Provide an updated map of the required route modifications and/or improvements for Permanent Access Road (PAR)-1 and PAR-2 to include labels of existing access roads and annotated distances. Provide a table of the related effects (length of modification, acreage, land use, etc.).

**Response:**

For ease of discussion, the attached Attachment 1-1, Figure 1-1 presents the two access roads in discrete segments. PAR-1 is shown with three (3) discrete segments extending south from US Highway 62/180 to the existing pipeline right-of-way (ROW). PAR-2 is shown with two (2) discrete segments. As noted in the map, PAR-1, Segment 2, and PAR-2, Segment 2, reflect the access road route modifications proposed in Environmental Resource Report 1. EPNG affirms that neither of these modifications will require construction of new access roads.

All five segments are part of an existing and discrete network of dirt roads. Table 1-1 provides the lengths of each segment.

PAR-1, Segment 1 and Segment 3 were previously used as part of EPNG’s Line No. 1110 Loop Project authorized in Docket CP23-546-000. PAR-1, Segment 2 is an existing dirt road that adds approximately 1,000 feet of access road length and is being proposed to avoid an existing farm equipment and material storage yard near that location.

PAR -2, Segment 1 runs parallel along EPNG’s existing Line No. 1100 and 1103 pipeline ROWs. At the eastern end of PAR -2, Segment 2 commences and extends in northeasterly direction away from the pipeline ROWs to avoid impacts to an eligible historic site.

**Table 1-1 – Permian West Access Roads**

Access Road Segment	Width (ft)	Approximate Length (mi.)	Approximate Length (ft)	Acres
<b>PAR #01</b>				
Segment 1	12	3.21	17,000	4.68
Segment 2	12	0.55	2,900	0.80
Segment 3	12	6.11	32,300	8.90
<b>Subtotal</b>		<b>9.87</b>	<b>62,640</b>	<b>14.38</b>
<b>PAR #02</b>				
Segment 1	12	11.12	58,700	16.17
Segment 2	12	0.43	2,280	0.63
<b>Subtotal</b>		<b>11.55</b>	<b>60,980</b>	<b>16.80</b>
<b>Total</b>		<b>21.42</b>	<b>123,620</b>	<b>31.18</b>

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The access roads were plotted against existing National Land Cover Database (NLCD) information to assign specific land uses for each Segment of access road. Results are presented in Table 1-2. As indicated in this table, based on NLCD data, approximately 50 percent of the total impacts associated with the two access roads (a total of 15.73 acres out of a total of 31.18 acres) are already recognized as existing roads, and reflected as developed land. Based on the high-level data used to create the NLCD data, the other half is largely mapped as either shrub-scrub or herbaceous land cover. As previously stated, however, the ongoing access along the roads, as well as the evident aerial signatures of the roadways suggest that the entirety of the access road network proposed by EPNG should be more appropriately classified as developed for its entirety.

**Table 1-2 – NLCD Land Cover Types traversed by Permian West Access Roads  
(impacts presented in acreage)\***

Access Segment	Road	Developed <sup>1</sup>	Barren Land	Shrub-Scrub	Herbaceous	Total
<b>PAR-1</b>						
Segment 1		3.65	-	0.14	0.89	4.68
Segment 2		-	-	0.08	0.72	0.80
Segment 3		2.00	0.30	1.68	4.92	8.90
	<b>Total</b>	<b>5.65</b>	<b>0.30</b>	<b>1.90</b>	<b>6.53</b>	<b>14.38</b>
<b>PAR-2</b>						
Segment 1		10.08	0.14	4.06	1.89	16.17
Segment 2		<0.01	-	0.63	-	0.63
	<b>Total</b>	<b>10.08</b>	<b>0.14</b>	<b>4.69</b>	<b>1.89</b>	<b>16.80</b>

<sup>1</sup> Includes Open, Low, Medium, and High Developed Lands

\* EPNG notes that during the process of calculating the impacts of access road PAR-2, a small discrepancy was noted in the total acreage associated with PAR-2 impacts, as well as the NLCD Land Cover types traversed by the access roads. While presented in the Concise Environmental Report as having an associated impact of 16.51 acres, the actual impact acreage associated with PAR-2 should have been reported as 16.80. While minimal in nature, EPNG is submitting revised ER tables in Attachment 1-2; specifically, Resource Report 1, Table 1.4-1 is re-issued, and Resource Report 8, Table 8.3-1 is re-issued. Original values are presented with ~~red strike through font~~, and the revised totals are provided in **red font**.

EPNG notes that both PAR-1 (including the minor Segment 2 reroute) and PAR-2 (including the minor Segment 2 reroute) are suitable, in current form, for providing access to and from the Project area. However, because they are primarily dirt, and more easily subject to disturbance either from increased usage or unusually heavy precipitation events, the existing dirt access roads may require limited, in kind maintenance, such as grading, or adding some supplemental gravel, within the existing 12-foot-wide footprint, to address rutted areas and ensure safe passage for construction personnel and equipment. No expansion/widening of any of the five access road segments are being proposed as part of the Project.

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Response prepared by or under the supervision of:

Megan Mater  
Environmental Permitting Project Manager  
Kinder Morgan EHS Project Permitting  
719-473-2300

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**Resource Report 2**

1. Section 2.1.3 identifies that 5 water supply wells are within three miles of Project workspace. Clarify if any of the identified wells are within 150 feet of Project workspace and, if so, confirm that EPNG would offer respective landowners pre- and post-construction testing for quality and yield to determine whether water supplies have been affected by construction activities. Also indicate mitigation measures that would be undertaken to ensure that water supplies are returned to their former capacity in the event of damage resulting from construction (e.g., providing temporary sources of potable water, restoration, repair, or replacement of water supplies).

**Response:**

There are no wells located within 150 feet of Project workspace. Therefore, EPNG did not offer any landowners pre- and post-construction testing for quality and yield to determine whether water supplies have been affected by construction activities.

However, as indicated in Section 2.1.3, EPNG identified five wells within 3 miles of the project workspace. The closest well to the pipeline alignment is a stock well located approximately 600 feet north of Station 124+00. Based on distance from the Project workspaces, no impacts are anticipated. The location of this well and the wells discussed below are illustrated in the aerial mapping of access roads in Figure 1-1, being provided as Attachment 1-1 to this response.

One additional stock well is located approximately 600 feet east of PAR-1. A domestic water well is located 600 feet south of PAR-2. Since these two wells are located in the vicinity of access roads that will be used for construction equipment traffic, EPNG does not anticipate any impacts to these wells.

One industrial well, is located approximately 3,500 feet south of the eastern Terminus of PAR-2.

No other identified wells are located within one mile of Project workspaces.

Response prepared by or under the supervision of:

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**Resource Report 4**

1. Revise the Unanticipated Discoveries Plan for Cultural Resources and Human Remains (Appendix 4B) as follows: add the FERC contact as Archaeologist Allison King (202-502-8847). Provide the revised plan.

**Response:**

EPNG is providing, as Attachment 4-1, a revised Unanticipated Discoveries Plan for Cultural Resources and Human Remains.

Response prepared by or under the supervision of:

Megan Mater  
Environmental Permitting Project Manager  
Kinder Morgan EHS Project Permitting  
719-473-2300

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**Resource Report 9**

1. Provide an updated table 9.1-3 to include methane emission estimates (as methane and CO<sub>2</sub>e) associated with leaks and releases from the pipeline, including valves, connectors, etc., along the pipeline, in tons per year. Include supporting calculations, and indicate all assumptions.

**Response:**

Table 9.1-3 is a summary of operation emissions cumulatively associated with the pig launcher/receiver facility as well as fugitive emissions, with an emphasis on criteria pollutants. Resource Report 9, Appendix 9B provides the basis for information presented in Table 9.1-3 but also includes methane emission estimates both as methane (CH<sub>4</sub> and CO<sub>2</sub>e). Sheet 1 presents that summary as provided in Table 9.1-3. Sheet 2 of Appendix 9B is specific to proposed pig launcher/receiver emissions estimates and Sheet 3 is specific to fugitive emissions. For ease of review, Appendix 9B is resubmitted with the EIR response as Attachment 9-1.

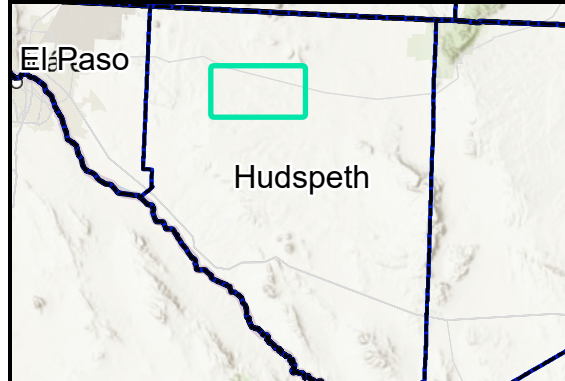
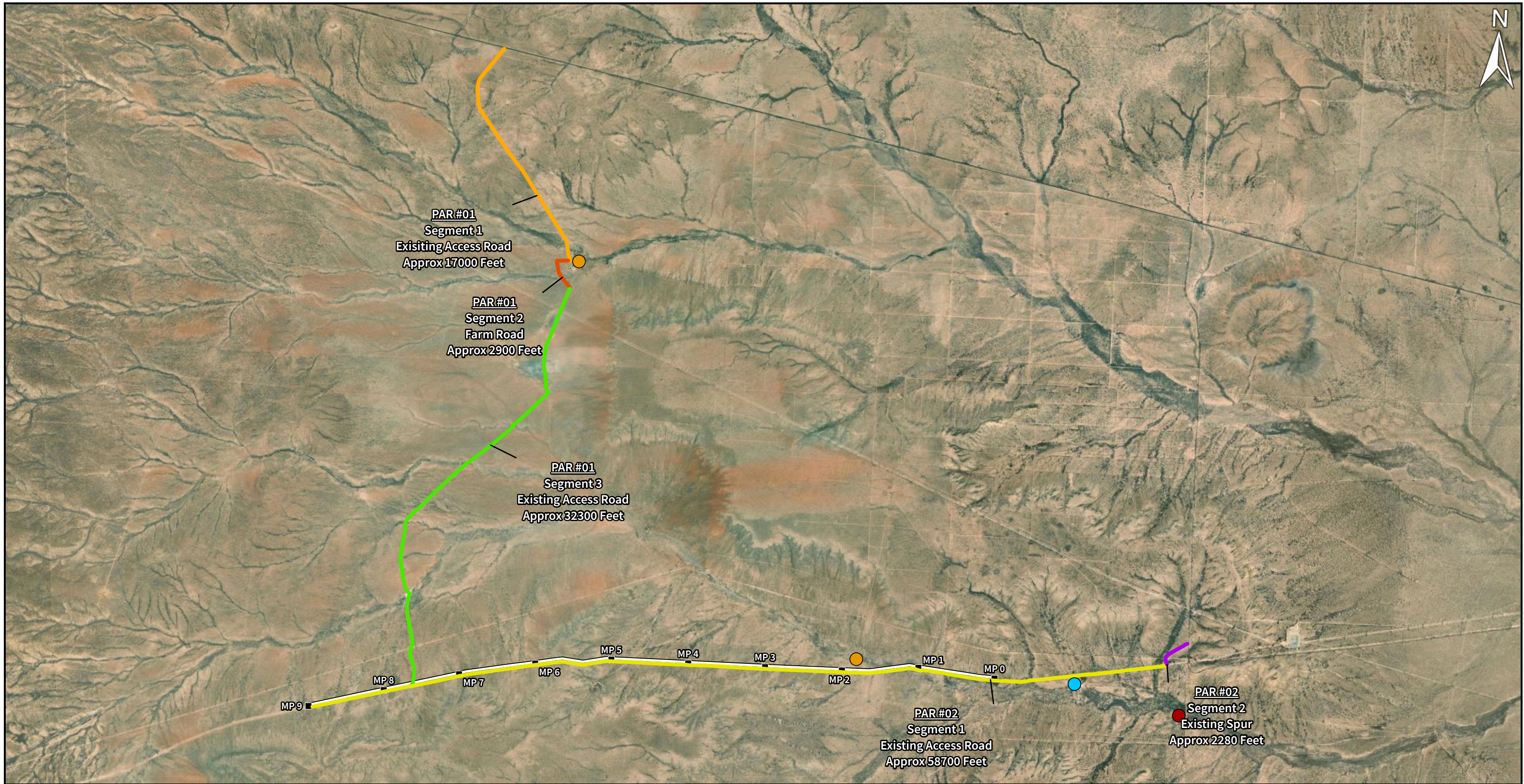
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## **Attachment 1-1**

### **Figure 1-1 Aerial Mapping of Access Roads**



<ul style="list-style-type: none"> <li>■ Mileposts</li> <li>— Pipeline Centerline</li> </ul>	<p><b>Access Road - Centerline</b></p> <p><b>PAR #01</b></p> <ul style="list-style-type: none"> <li>— Segment 1</li> <li>— Segment 2</li> <li>— Segment 3</li> </ul> <p><b>PAR #02</b></p> <ul style="list-style-type: none"> <li>— Segment 1</li> <li>— Segment 2</li> </ul>	<p><b>Groundwater Wells</b></p> <ul style="list-style-type: none"> <li>● Domestic</li> <li>● Industrial</li> <li>● Stock</li> </ul>	<p>0 1 2      0 0.75 1.5</p> <p>Kilometers      Miles</p> <p>Scale: 1:75,698</p> <p>Spatial Reference: NAD 1983 2011 StatePlane Texas Central FIPS 4203 Ft US</p> <p>Basemap: ESRI World Imagery (2024)</p>
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**Aerial Mapping of Access Roads and Groundwater Wells**  
Figure 1-1  
Permian West Expansion Project  
Hudspeth County, Texas

Prepared For: El Paso Natural Gas Company, L.L.C.  
a Kinder Morgan company

Prepared By: **TETRA TECH**

SHEET 1 OF 1

EL PASO NATURAL GAS COMPANY, L.L.C.  
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**Attachment 1-2**

**Updated Environmental Resource Report Tables  
1.4-1 and 1.8-3**

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<b>Revised Table 1.4-1. Land Required for the Permian West Expansion Project</b>		
<b>Facility Component</b>	<b>Temporary/ Construction(acres)</b>	<b>Permanent/Operation (acres) <sup>a</sup></b>
Right-of-Way	54.77	54.77
Temporary Workspace (TWS)	27.03	0
Additional TWS	10.91	0
New Pig Launcher Yard	0.29	0.29
Existing Pig Launcher Yard	0.29	0
PAR-1	14.38	0 <sup>b</sup>
PAR-2	<del>46.51</del> 16.80	0 <sup>b</sup>
Access Road Deviations	1.49	1.49
<b>TOTAL</b>	<del>126.67</del> 125.96	<b>56.55</b>
<sup>a</sup> Includes areas to remain in use after construction (i.e., permanent pipeline ROW easement, access roads and pig launcher). <sup>b</sup> Access roads are currently used to access the pipeline system from US Route 62, and along the existing pipeline ROW.		

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<b>Revised Table</b> Error! No text of specified style in document.-1 <b>Land Use Impacts by Type (acres)</b>		
<b>Facility</b>	<b>Construction Acreage</b>	<b>Operational Acreage</b>
<b>Temporary Workspace</b>	<b>27.03</b>	<b>0.00</b>
Barren land	0.41	0.00
Developed <sup>1</sup>	1.07	0.00
Grassland/Herbaceous	4.33	0.00
Shrub/Scrub	21.22	0.00
<b>Additional Temporary Workspace</b>	<b>10.91</b>	<b>0.00</b>
Developed*	1.05	0.00
Grassland/Herbaceous	0.74	0.00
Shrub/Scrub	9.12	0.00
<b>Permanent Easement</b>	<b>54.77</b>	<b>54.77</b>
Barren land	0.84	0.84
Developed <sup>1</sup>	15.08	15.08
Grassland/Herbaceous	10.54	10.54
Shrub/Scrub	28.31	28.31
<b>Relocated Pig Launcher (new permanent location)<sup>1</sup></b>	<b>0.29</b>	<b>0.29</b>
Grassland/Herbaceous	0.05	0.05
Scrub/shrub	0.24	0.24
<b>Pig Launcher Abandonment</b>	<b>0.29</b>	<b>0.00</b>
Developed <sup>1</sup>	0.28	0.00
Shrub/Scrub	0.01	0.00
<b>New Proposed Access Road</b>	<b>1.49</b>	<b>0.00</b>
Grassland/Herbaceous	0.75	0.00
Shrub/Scrub	0.74	0.00
<b>PAR-4 2</b>	<del>16.51</del> <b>16.80</b>	0.00
Barren land	0.14	0.00
Developed <sup>1</sup>	<del>10.42</del> <b>10.08</b>	0.00
Grassland/Herbaceous	1.89	0.00
Shrub/Scrub	<del>4.06</del> <b>4.69</b>	0.00
<b>PAR-2 1</b>	<b>14.38</b>	0.00
Barren land	0.30	0.00
Developed <sup>1</sup>	<del>5.88</del> <b>5.65</b>	0.00
Grassland/Herbaceous	<del>6.38</del> <b>6.53</b>	0.00
Shrub/Scrub	<del>1.82</del> <b>1.90</b>	0.00
<b>Project Total</b>	<del>125.68</del> <b>125.96</b>	<b>55.06</b>

<sup>1</sup> Includes Developed-Open Spaces and Developed- Low Intensity Areas. See Footnote 2 for definitions.

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## **Attachment 4-1**

### **Updated Unanticipated Discoveries Plan for Cultural Resources and Human Remains**

# UNANTICIPATED DISCOVERIES PLAN FOR CULTURAL RESOURCES AND HUMAN REMAINS

## Proposed Permian West Expansion Project, Hudspeth County, TX

**Prepared for**



El Paso Natural Gas  
Company, L.L.C.  
a Kinder Morgan company

El Paso Natural Gas Company, L.L.C.  
Two North Nevada  
Colorado Springs, Colorado 80903

**Prepared by**



Tetra Tech, Inc.  
1500 CityWest Blvd, Suite 1000  
Houston, TX 77042

April 2026

## **1.0 INTRODUCTION**

This document outlines the procedures the El Paso Natural Gas Company, L.L.C (EPNG) will follow to prepare for and address any unanticipated discoveries of cultural resources, including archaeological sites and possible human remains. It provides direction to EPNG personnel and their consultants as to the proper procedure to follow in the event that unanticipated discoveries are made during construction of the Permian West Expansion Project (Project).

As part of the planning process for the Project, EPNG conducted a cultural resources survey of the Project. To ensure that EPNG maintains compliance with all federal and state regulations concerning the protection of cultural resources, and to maintain compliance with the Federal Energy Regulatory Commission's (FERC) requirement for a plan to address the unanticipated discovery of cultural properties or human remains during construction, this Unanticipated Discoveries Plan (UDP) has been prepared for the Project.

Unanticipated cultural discoveries that trigger these procedures include:

- Building foundations or other historic structures with subsurface remains;
- Cultural features, concentrations of artifacts, or evidence of human occupation, such as fire hearths, middens and mounds, bottle or can dumps, clusters of stone tools or pottery fragments, and charcoal-stained soil; and
- Human remains, including evidence of human burial, such as gravestone and other funerary objects, casket hardware, ceremonial grave goods, soil staining in the outline of a grave, or any other evidence that suggests the presence of a human interment.

## **2.0 TRAINING AND IDENTIFICATION**

Training will be provided to all construction personnel outlining EPNG's commitment to cultural resources compliance and to provide an overview of the types of human-made artifacts, cultural features, and structures that may be encountered during construction of the Project. The training will emphasize the exact procedures to be followed, as outlined in this plan, in the event unanticipated cultural resources are discovered during construction.

The Environmental Project Managers (PMs) will provide training as part of the pre-construction on-site training program for foremen, company inspectors, and construction supervisors. The Construction Manager (CM) will be responsible for advising construction-contractor personnel on the procedures to follow in the event unanticipated discoveries are encountered.

## **3.0 PROCEDURES WHEN CULTURAL MATERIALS ARE OBSERVED**

In the event that cultural materials are observed within a construction zone, the person making the discovery will immediately contact the CM. If the CM believes that an unanticipated discovery has been made:

- a. CM will immediately halt all ground-disturbing activities within 100 feet (30 meters) of the discovery unless a greater distance is deemed appropriate;

- b. CM will protect and secure the discovery by delineating the finds with flagging or fencing within 24 hours;
- c. CM will notify the Environmental PM same day;
- d. Environmental PM will notify the Project Archaeologist within 24 hours;
- e. Project Archaeologist will examine the location of the discovery accompanied by CM, within 1 day of being notified;
  - 1. If during the initial discovery examination, the Project Archaeologist determines that the discovery is not a significant cultural resource, the Project Archaeologist will immediately notify the CM and/or PM, either of whom will have the authority to remove the stop-work order. The Project Archaeologist will prepare a letter report of findings to EPNG within 10 business days.
  - 2. If the Project Archaeologist determines that the discovery may be a significant cultural resource, the Project Archaeologist will immediately advise EPNG.
- f. In the event that the Project Archaeologist has determined the discovery may be a significant cultural resource, Tetra Tech will develop a Scope of Work and in consultation with EPNG, the Texas Historical Commission (THC), and FERC, will prepare to conduct an archaeological investigation that will conform to the Secretary of the Interior's *Standards and Guidelines for Archeology and Historic Preservation* (48 Federal Register 44716-42, September 29, 1983), and the *Archeological Survey Standards for Texas*, and the *Council of Texas Archaeologists: Guidelines for Cultural Resource Reports*.
- g. If the discovery is determined to be eligible for listing on the National Register of Historic Places (NRHP) and Project construction cannot avoid the resource, Tetra Tech's Project Archaeologist will work with EPNG to develop a Treatment Plan for review and approval by FERC and the Texas Historical Commission.
- h. FERC will consult with interested Native American Tribes that have historical and cultural associations with the Project Area and solicit their comments on the findings.

#### **4.0 UNANTICIPATED DISCOVERY OF HUMAN REMAINS**

The following procedures will be conducted in the event human remains are discovered during Project construction.

- a. Should human remains be encountered during construction, all work will be immediately halted within 100 ft (30 m) of the discovery.
- b. The CM and Environmental PM will be immediately notified of the discovery of skeletal remains, even if there is uncertainty about the identification of the remains as human. The Environmental PM will immediately notify EPNG, the Texas Historical Commission, and FERC of the discovery.
- c. CRS § 24-80-1302 mandates that anyone who discovers, on any land, suspected human skeletal remains must contact the county coroner and local law enforcement officials (see Contacts below). This task will be the responsibility of the Environmental PM.
- d. The CM will ensure that the suspected human remains are safeguarded, covered, not disturbed, and treated with respect. The CM will ensure that fencing is installed around the location of the discovery.

- e. The coroner will determine if the human remains possess forensic value and if so, will take legal custody of the remains. If determined that the human remains do not possess forensic value, the coroner will notify the State Archaeologist into whose care the remains will be moved.
- f. The State Archaeologist will select a qualified archaeologist to examine the remains to determine: 1) the general age of interment, 2) the integrity of the archaeological context, and 3) whether the remains are representative of a Native American individual. If the remains are determined to be of Native American origin, the State Archaeologist will notify the State Commission of Indian Affairs (Commission).
- g. The remains will be disinterred unless the landowner, the State Archaeologist, and the Commission Chair unanimously agree to leave the remains in situ.
- h. Disinterment will occur within ten days after the State Archaeologist has received initial notification from the coroner.
- i. After disinterment is complete, and with the approval of the State Archaeologist, the stop-work order can be removed.

**CONTACTS**

EPNG will provide contact names for <b>Construction Manager</b>	
<b>EPNG Construction Manager</b>	<b>EPNG Environmental PM</b> Megan Mater Two North Nevada Colorado Springs, CO 80903 (719) 520-450 (office) (719) 660-2916 (cell) <a href="mailto:Megan_Mater@kindermorgan.com">Megan_Mater@kindermorgan.com</a>
<b>Project Archaeologist</b> Steven Sarich, MS, RPA Tetra Tech (512) 645-6238 (cell) <a href="mailto:Steven.Sarich@tetrattech.com">Steven.Sarich@tetrattech.com</a>	<b>Hudspeth County Coroner/Medical Examiner</b> Precinct #1 P.O. Box 40 Sierra Blanca TX 79851 (915) 369-4141
<b>Texas State Historic Preservation Officer</b> Texas Historical Commission John L. Nau, III 1511 Colorado Street Austin Texas 78701 (512) 463-6100 <a href="mailto:John.Nau@thc.texas.gov">John.Nau@thc.texas.gov</a>	<b>Hudspeth County Sheriff</b> Arvin West P.O. Box 39 Sierra Blanca TX 79851 (915) 369-2161 <a href="mailto:sheriff@hudspethsheriff.org">sheriff@hudspethsheriff.org</a>
<b>FERC Archaeologist</b> Allison King Federal Energy Regulatory Commission 888 First Street, NE Washington, DC 20426 202-502-8847	<b>FERC PM</b> Kristen Trinh Federal Energy Regulatory Commission 888 First Street, NE Washington, DC 20426 202-502-6340



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**Attachment 9-1**

**Permian West Expansion Project  
Appendix 9B**

**Summary of Estimated Operating Emissions  
Proposed Pig Launcher/Receive Emissions Estimates  
Proposed Fugitive Equipment Emissions Calculations**

**Revised**  
**El Paso Natural Gas Company, L.L.C.**  
**Permian West Expansion Project**  
**Summary of Estimated Operating Emissions (tons per year)**

Project Location	CO	NO <sub>x</sub>	SO <sub>2</sub>	VOC	HAP	PM <sub>10</sub>	PM <sub>2.5</sub>	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2e</sub>
	U.S. Tons Per Year										
Pig Launcher / Receiver Emissions				0.00	0.00			0.00	0.12		3.37
Fugitive Emissions				0.85	0.01			0.46	96.07		2,402.30
<b>Project Operation Totals</b>				<b>0.85</b>	<b>0.01</b>			<b>0.46</b>	<b>96.19</b>		<b>2,405.66</b>

NOTE: "0.00" indicates emissions are <0.01 tons.

NOTE: Sums in table are based on Excel spreadsheet/multiple decimal places, and may differ from sums added from table due to rounding.

NOTE: CO<sub>2e</sub> calculated from the following global warming potentials: CO<sub>2</sub> = 1, CH<sub>4</sub> = 28.

**EI Paso Natural Gas Company, L.L.C.  
Permian West Expansion Project  
Proposed Pig Launcher/Receiver Emission Estimates**

Project Location	Chamber Volume Per Event <sup>2</sup>  (cf)	Gas Temperature  (°F)	Line Pressure <sup>3</sup>  (psi)	Volume of Pressurized Gas (ft <sup>3</sup> ) <sup>4</sup>  Ideal Gas Law : (V <sub>1</sub> * P <sub>1</sub> ) / P <sub>2</sub>	Compressibility Factor <sup>5</sup>  Z	Pressurized Density (lb/ft <sup>3</sup> )  $\rho_1 = (P_1 * MW) / R * T_1 * Z$	Atmospheric Density (lb/ft <sup>3</sup> )  $\rho_2 = (P_2 * MW) / R * T_2 * Z$	Delta Density  (lb/ft <sup>3</sup> )	Gas Vented Per Event  (lbs)	Max Events Per Year <sup>6</sup>	Emission Estimate <sup>7, 8, 10</sup>				
											VOC	HAP	CO <sub>2</sub>	CH <sub>4</sub>	CO <sub>2</sub> e
											(tons)	(tons)	(tons)	(tons)	(tons)
Pig Launcher / Receiver (Hudspeth County)	55.20	80	1,440	5,462	0.8736	4.81	0.05	4.76	262.7	1	0.001	0.000	0.001	0.120	3.369
<b>TOTAL:</b>											0.001	0.000	0.001	0.120	3.369

NOTES:

1. Emission calculations from the Pennsylvania Department of Environmental Protection's Midstream Emissions Calculation spreadsheet.
2. Chamber volume based upon the dimensions of the barrel (30"D x 11.25'L) .
3. Line pressure based on the maximum operating pressure of tsimilar lines.
4. Volume of pressurized gas based on line chamber volume, temperature, and pressure corrected to standard conditions.
5. Compressibility factor based on engineering estimate.
6. Maximum number of pigging events per year estimated to be 1 venting events to provide conservative estimate.
7. Emission Rate (tons) = Gas Vented Per Event (lbs) x Number of Events ÷ 2,000 x constituent weight percent
8. Gas constituent weight percentages: CH<sub>4</sub> = 91.58%, CO<sub>2</sub> = 0.43%, VOC = 0.81% and HAPs = 0.01%; based on typical pipeline gas analysis.
9. Gas mean molecular weight of 16.73 lb/lb-mol
10. CO<sub>2</sub>e calculated from the following global warming potentials: CO<sub>2</sub> = 1, CH<sub>4</sub> = 28.

**El Paso Natural Gas Company, L.L.C.  
Permian West Expansion Project  
Proposed Fugitive Equipment Emission Calculations**

Project Location	Component	Emissions Inputs				VOC <sup>5</sup>	HAP <sup>5</sup>	CO <sub>2</sub> <sup>5</sup>	CH <sub>4</sub> <sup>5</sup>	CO <sub>2</sub> e <sup>6</sup>
		Count <sup>1</sup>	Factor <sup>2</sup>	Units	(lb/scf)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)
Pig Launcher / Receiver (Hudspeth County)	Valves	5	14.84	scf/hr/#	0.044	0.104	0.002	0.056	12	295
	Flanges	72	5.59	scf/hr/#	0.044	0.629	0.010	0.337	71	1,780
	Pneumatic Controllers CB <sup>7</sup>	0	18.20	scf/hr/#	0.044	0.000	0.000	0.000	0	0
	Pneumatic Controllers IB <sup>8</sup>	0	2.35	scf/hr/#	0.044	0.000	0.000	0.000	0	0
	Connectors	0	5.59	scf/hr/#	0.044	0.000	0.000	0.000	0	0
	Others <sup>9</sup>	18	4.1000	scf/hr/#	0.044	0.115	0.002	0.062	13	326
<b>TOTAL</b>						<b>0.848</b>	<b>0.013</b>	<b>0.455</b>	<b>96</b>	<b>2,402</b>

**NOTES:**

1. Component counts based on similar projects with 50% margin added.
2. U.S. Environmental Protection Agency (EPA). 40 CFR Part 98 Subpart W Table W-3a.
3. Gas constituent weight percentages: CH<sub>4</sub> = 91.58%, CO<sub>2</sub> = 0.43%, VOC = 0.81% and HAPs = 0.01%; based on typical pipeline gas analysis.
4. Gas average molar mass = 16.73 lb/lb-mol
5. Emission Rate (tons) = scf/hr/# x lb/scf (16.73 lb/lb-mol / 379.3) x # (component count) x wt% of compound x 8,760 (hrs/yr) / 2000 (tons/lb)
6. CO<sub>2</sub>e calculated from the following global warming potentials: CO<sub>2</sub> = 1, CH<sub>4</sub> = 28.
7. U.S. Environmental Protection Agency (EPA). 40 CFR Part 98 Subpart W Table W-3b.
8. U.S. Environmental Protection Agency (EPA). 40 CFR Part 98 Subpart W Table W-3b.
9. The "other" equipment type was derived from compressors, diaphragms, drains, dump arms, hatches, instruments, meters, pressure relief valves, polished rods, relief valves, and vents. This "other" equipment type should be applied for any equipment type other than connectors, flanges, open-ended lines, pumps, or valves.



