Guardian Plug & Abandonment, LLC
12072 FM 3083
Conroe, Texas 77301
mgoodman@plugandabandonment.com
[redacted]

September 30, 2024

ER-001 Final Project Plan (FPP)

Executive Summary

Guardian Plug & Abandonment, LLC worked with EagleRidge Operating to plug four wells from one pad in Denton County, Texas. Two of these wells were made idle several years ago, and the other two were made idle in June 2024 with the Texas Railroad Commission. These were horizontal wells that produced gas from the Barnett Shale since 2010. They were plugged to avoid current and future methane gas emissions. Cast iron bridge plugs and multiple cement plugs were placed in each wellbore to permanently seal off emissions sources. The surface of the site was cleared of all equipment and cleaned up. In their last months of production, these wells were producing between 90 and 190 thousand cubic feet per day of natural gas, at which point they were made idle due to economic unfavourability. In total, over 560,000 tons of CO_2e were avoided by successfully and permanently plugging and abandoning these wells.

Project Information

Project ER-001 was developed by Guardian Plug & Abandonment, LLC (GPA). The project involved plugging four wells that were operated by EagleRidge Operating (EagleRidge) on a 2-acre pad on the Rice Ranch Property (hereafter referred to as the site) in Denton County, Texas. Project details are shown on Table 1. The four wells are the Rice Ranch Unit A-4H, Rice Ranch Unit B-5H, Rice Ranch Unit B-6H, and Rice Ranch Unit B-7H, which are hereafter referred to by their numbers A-4H, B-5H, B-6H, and B-7H. The site is a semi-wooded grassland surrounded by personal residences and other ranch-style properties, as shown on Figure 1. Figure 2 shows aerial imagery of the site historically and at present.

The justification for shutting in these wells was due to economics, poor performance, and risk. The B-7H last produced in June 2014 due to underperformance and excessive water production. The B-5H last produced in November 2015 due to underperformance and poor market conditions at the time. The A-4H and B-6H were recently made idle primarily due to marginal economics. Natural gas prices have been low and volatile since 2023. Also, the wells were continuing to produce more water which increased the disposal costs. Finally, more frequent and more expensive maintenance costs also contributed to the marginal economics. Second, the increasingly urban environment surrounding this well pad was a physical and reputational risk that put the operator in an uncomfortable situation. The operator continues to move away from working in urban areas and is shutting in marginal wells proximal to residential areas. In short, the operator chose to shut these wells in because they were no longer profitable and they presented risks that they would rather avoid.

Table 1

Project Name	Project Developer		Project Developer		
			Name	Number	Email
ER-001	Guardian Plug & Abandonment, LLC		Michael Goodman	[redacted]	mgoodman@pluganda bandonment.com
Name of Wells	**Well API**	**Latitude**	**Longitude**	**Pre-Plugging Test Date**	**Pre-Plugging methane (ppb)**
Rice Ranch Unit A-4H	42-121-33852	33.06898	-97.157392	6/17/2024	874,000
Rice Ranch Unit B-5H	42-121-33866	33.068484	-97.158696	6/17/2024	245,000
Rice Ranch Unit B-6H	42-121-33867	33.067538	-97.15899	6/17/2024	6,104,000
Rice Ranch Unit B-7H	42-121-33865	33.065792	-97.15857	6/17/2024	622,000

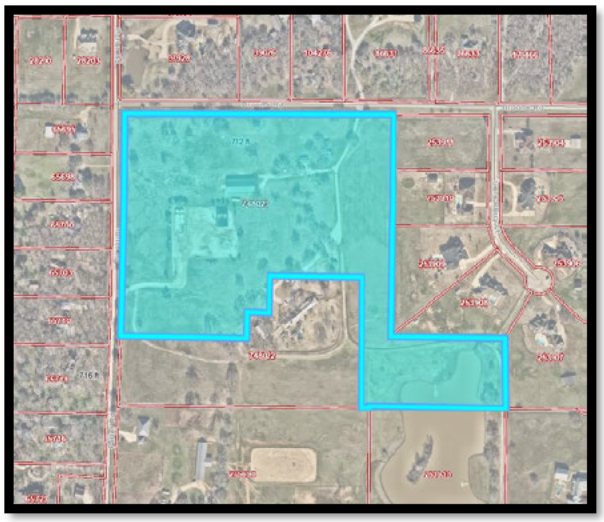


Figure 1. The "Rice Ranch Addition Blk A Lot 2R" property in Denton, TX owned by [redacted]. The well pad on the left side of the property is where all four wells are located. Sourced from Denton County GIS Interactive Map.

Figure 2. Aerial imagery of the site from 2008 (left) before operations, 2011 (middle) shortly after drilling, and 2024 (right) recently. The wells were drilled in 2010 and the size of the pad was reduced from its original size to its current size in 2012.

On June 17, 2024, GPA performed the baseline emissions test on the site. Using the Heath Consultant's RMLD-CS (Remote Methane Leak Detector – Complete Solution) and the Sensit HXG-2d Combustible Gas Detector (Sensit), GPA found that at each of the wellheads, methane was present in excess of 1,925 parts

per billion (ppb). Selected photos of the site are shown on Figure 3. Additional documentation can be viewed in the shared folder [redacted], hereafter referred to as the "shared folder."

Figure 3. Photos of the site showing various site conditions and the type of infrastructure on site.

Well Details

Information regarding the wells is included in Tables 2a through 2e. Much of the information summarized here was sourced from the RRC Online Research Queries database, and the remainder was sourced from

collaboration with the current operator. The completion records and the G-10 status reports for each well are included in the shared folder.

Table 2a

API Well Number	Name of Well	RRC Lease #	State	County	Regulator
42-121-33852	Rice Ranch Unit A-4H	259362	Texas	Denton	Railroad Commission of Texas
42-121-33866	Rice Ranch Unit B-5H	259090	Texas	Denton	
42-121-33867	Rice Ranch Unit B-6H	258950	Texas	Denton	
42-121-33865	Rice Ranch Unit B-7H	258946	Texas	Denton	

Table 2b

Well ID	Surface Landowner				Operator			
	Name	Address	Phone Number	Email	Name	Address	Phone Number	Email
A-4H	[redacted]	[redacted]	[redacted]	[redacted]	Eagleridge Operating, LLC	3500 Maple Avenue, Suite 1400 Dallas Texas 75219	214-295-6704	RD@eagleridgeenergy.com
B-5H								
B-6H								
B-7H								

Table 2c

Well ID	Plugging Company	Well Type	Well Status	Date Drilled	Date Shut-in	Total Depth TVD	Total Depth MD
A-4H	Petrosmith	Gas	Shut-in	7/19/2010	Jun-24	8,344	14,197
B-5H	Petrosmith	Gas	Shut-in	7/21/2010	Nov-15	8,321	14,560
B-6H	Petrosmith	Gas	Shut-in	3/28/2010	Jun-24	8,327	13,850
B-7H	Petrosmith	Gas	Shut-in	3/5/2010	Jun-14	8,352	13,423

Table 2d

Well ID	Producing Zones or Perforation depths (ft MD)	Geologic Formations and Depths (ft MD)
A-4H	11538-11823, 11896-12186, 12258-12549, 12621-12919, 12984-13274, 13347-13637, 13710-14000	Marble Falls Lime (7581) Upper Barnett Shale (8019) Lower Barnett Shale (8198)
B-5H	11760-12065, 12141-12447, 12523-12829, 12905-13211, 13287-13597, 13669-13974, 14051-14356	Marble Falls Lime (7579) Upper Barnett Shale (7912) Lower Barnett Shale (8200)
B-6H	11250-11603, 11691-12044, 12133-12486, 12574-12927, 13016-13369, 13437-13810	Marble Falls Lime (7559) Upper Barnett Shale (7887) Lower Barnett Shale (8172)
B-7H	11874-12259, 12355-12740	Marble Falls Lime (7539) Upper Barnett Shale (7872) Lower Barnett Shale (8163)

Table 2e

Well ID	Casing or plug leaks?	Contaminants (H2S, CO2, etc) Present?	Directions to Well Site	Surface Area Description	Description of surrounding land
A-4H	Yes	None	Enter into google maps:	The well pad is surrounded by grasses and trees used for ranching	Properties to the west, north, and east are residential, to the south is used for agriculture and/or ranching
B-5H	Yes	None			
B-6H	Yes	None	789 Porter Rd, Bartonville, TX 76226		
B-7H	Yes	None			

Well Plugging

Petrosmith is a well servicing and plugging company established in 1988 out of Abilene, Texas that was hired to plug the wells. They plugged each of the wells in accordance with 1) the Texas state regulations found in the Texas Administrative Code Title 16, Part 1, Chapter 3, rule 3.14, 2) the RRC requirements, and

3) the site-specific lease agreement with the landowner. Details regarding the plugging plan are included in the subsections below.

Technical Considerations and Best Practices

Petrosmith follows all regulatory requirements and follows industry best practices for plugging wells. In preparation, Petrosmith was provided all relevant well documents, including the wellbore schematics and completion records. Using things such as the perforation intervals, casing depths, top of cement depths, Petrosmith prepared and submitted the W-3a. The W-3a is the Notice of Intention to Plug form, which is reviewed and signed by the RRC prior to executing the work. RRC staff have reviewed, approved, signed, and returned the W-3a plugging plan, which is included in the shared folder.

After providing notice to the RRC regarding the plugging schedule, RRC approved and Petrosmith plugged the wells following the procedures below:

- Checked the pressures on the wellhead
- Added weighted mud to the wellbore to kill it
- Pulled the production tubing string free using a spear with their pulling unit and checked again for any pressure
- Placed a Cast Iron Bridge Plug (CIBP) above the perforated intervals with the wireline unit
- Dump bailed many sacks of cement on top of the CIBP
- Pulled and cut the casing that was not cemented
- Placed cement plugs at the intervals specified on the W-3a and filled the remaining intervals of the hole with a water-based sack mud
- Tagged the cement to ensure they plugged the intervals as planned and to provide an accurate plugging record.
- Cut the surface casing approximately five feet below ground level and install a surface plug
- Installed a “grave marker,” which is a pipe sticking up out of the ground at the location of the wellbore (at the request of the landowner)
- Backfilled the hole with native soils and gravel

Petrosmith has a strong culture of health and safety that was adhered to. Daily job hazard analyses were conducted prior to beginning each workday. At all times, all workers had stop work authority and were equipped with sufficient personal protective equipment.

Construction and Excavation

Construction and excavation was limited on this project. The road and pad were in good working condition and there was plenty of space to conduct all work without disturbing neighboring properties. No additional signage, fencing, or notification were required prior to conducting well plugging and site restoration activities. There were no earthen pits or other features requiring major construction and excavation. However, in-house EagleRidge construction crews in combination with third party contractors disconnected and disassembled all surface equipment, including tanks, separators, surface flow lines, and compressors. Third party trucking and salvage companies removed the equipment from the site.

Site Surface Reclamation Plan

After the equipment was removed, EagleRidge construction crews removed visibly contaminated soil and gravel and knocked down the berms from the tank battery area. Crews then graded and leveled the site.

Per the lease terms and in agreement with the landowner, the road and gravel pad were left intact for future use.

Pre-Plugging Test Results

Per the requirements of the methodology, a Qualified Measurement Specialist (QMS) is required to conduct a pre-plugging methane detection test to confirm methane concentrations in excess of 1,925 parts per billion (ppb), or 1.925 parts per million (ppm) at the site. Michael Goodman of GPA is a QMS with experience using the Heath Consultants Remote Methane Leak Detection – Complete Solution (RMLD-CS) and the Sensit HXG-2d Combustible Gas Detector (Sensit). The RMLD-CS uses tunable diode laser technology to quantify the concentration of methane in parts per million-meter (ppm-m), which is a path-integrated gas concentration. This measurement refers to how much gas is present along a column of gas, or in other words is the sum of the concentrations through each meter of the column. As an example, if the laser spanned 3 meters and measured concentrations of 50 ppm, 30 ppm, and 40 ppm, it would report back 120 ppm-m, or the sum of all the concentrations. The Sensit uses a low power semi-conductor sensor to measure concentrations of all combustible gases in ppm. Michael Goodman's QMS log is included in the shared folder.

GPA visited the site on June 17, 2024 to test for methane emissions. Once on site, GPA conducted a self-test with the RMLD-CS. After passing the test, GPA conducted a background test. The location selected for background testing was upwind of the site and in the surrounding, natural environment of grasses and trees. The RMLD-CS regularly identified methane concentrations less than 10 ppm-m and the Sensit did not show any concentrations above zero, as shown on Figure 4.

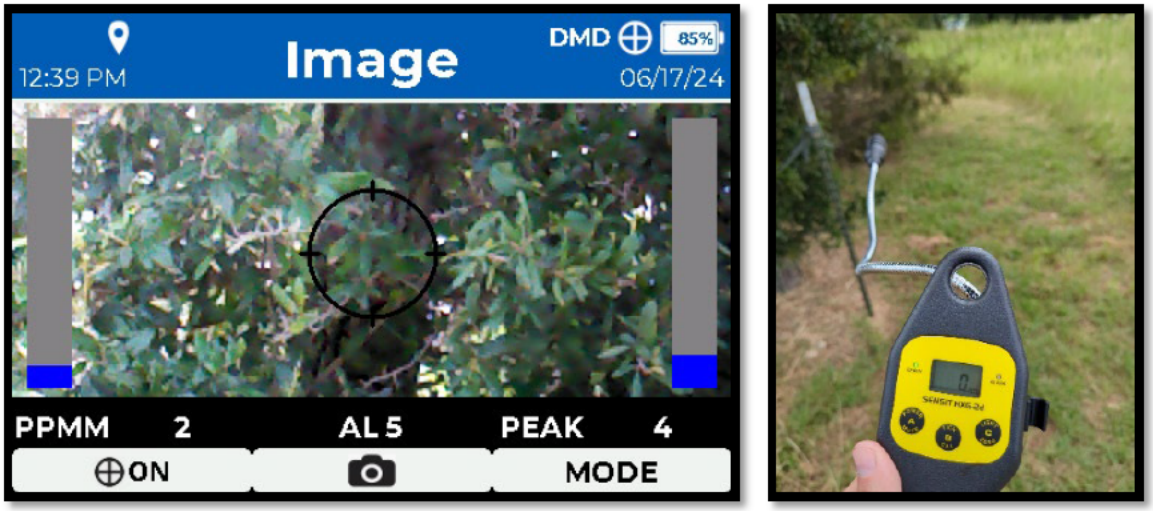


Figure 4. Background methane concentrations at the Rice Ranch site measured with the RMLD-CS (left) and Sensit (right).

After the background test, GPA used both instruments to screen for emissions around the wellhead, surface flowlines, separators, and storage tanks. Pictures were taken with the RMLD-CS when elevated concentrations were identified. GPA also took pictures of the Sensit in hand when elevated concentrations were shown on the screen. Selected photos taken with the RMLD-CS documenting the presence of methane are shown on Figure 4. GPA noted a consistent stream of gas leaking from the pneumatic valve of A-4H and small leaks around the seals of the surface casing connections on the other three wells.

Additionally, methane was documented at high methane concentrations at the pipes connecting to the separator tanks at B-6H and B-7H.

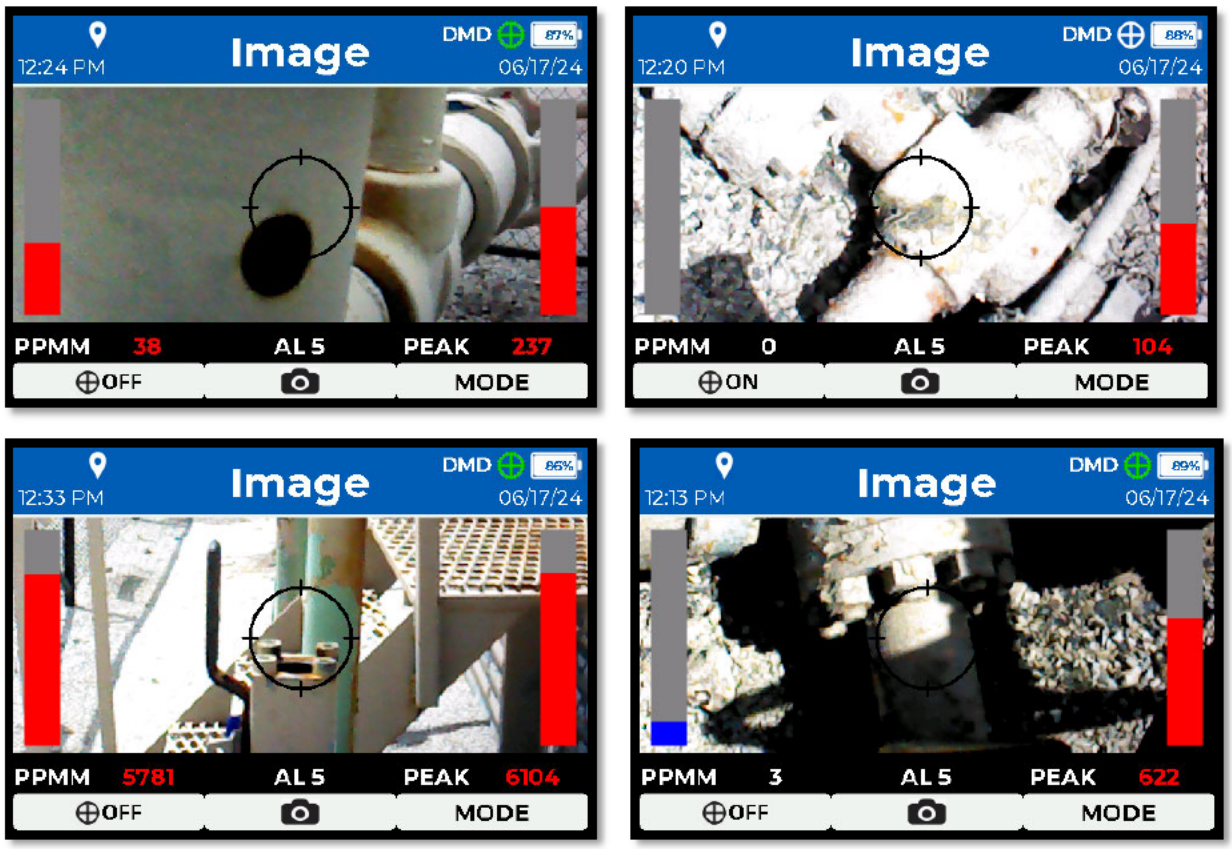


Figure 5. Images from the RMLD-CS that show peak (highest reading within the last 5 seconds) and current methane concentrations from wellheads and equipment across the site.

GPA did not quantify any emissions rates nor open any valves to determine potential gas emission quantities.

Greenhouse Gas Emissions

GPA calculated the Greenhouse Gas (GHG) emissions for each well using BCarbon's Decline Curve Model (DCM) and Leak Rate Model (LRM). All the data and sources for these calculations are available in the shared folder.

Historic Production Data Sourcing

The production data from each well was gathered from the specific lease query of the RRC Online System. All production data since the wells were drilled was sourced and has been plotted on Figure 6.

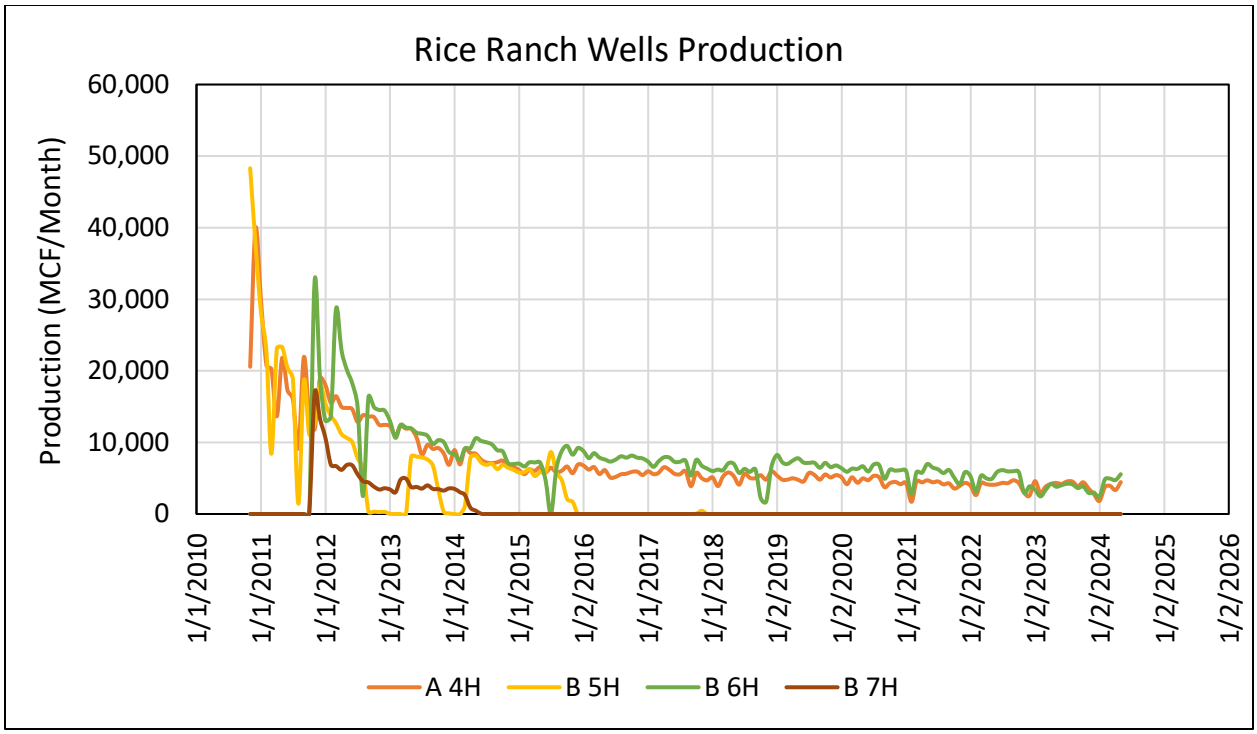


Figure 6: Rice Ranch Wells Production data from 2010 to 2024.

The methane concentration data was obtained from the operator in the form of a C8+ Analysis Report from Scott Measurement Service, Inc. Gas Lab. The gas sample was taken on April 19th, 2024 from the Rice Ranch Sales station. The methane concentration reported was 94.8923%.

GPA recognized that this gas sample was sourced from only the A-4H and B-6H wells since the B-5H and B-7H were inactive at the time. However, all these wells produced from the same formations at very similar depths and in close proximity. GPA was unable to obtain gas analysis data from the B-5H and B-7H. Therefore, GPA found it adequate to use the recent methane concentration data from the A-4H and B-6H and apply it to the DCM and LRM calculations for all wells.

Baseline Emissions Calculations

Prior to running the DCM and LRM, GPA evaluated the historical production data to determine which months had full production data to be used for modeling.

A-4H: The A-4H began producing gas in November 2010 at over 15,000 mcf/month and declined to below 7,000 mcf/month by November 2014. Since then, production slowly and steady declined to around 3,000-4,000 mcf in 2023 and 2024. When the project was developed, the last month of data available was May 2024 despite the well continuing to produce through June 2024. The operator decided to shut in the well in mid-2024 due to poor economic conditions and urban growth. The last 48 months of production, spanning from June 2020 through May 2024, was used for the DCM.

B-5H: The B-5H began producing gas in November 2010 at over 20,000 mcf/month. By July 2012, production had decreased to below 10,000 mcf/month and in September 2012 the well was taken offline for maintenance and a workover that lasted through April 2013. The well produced again from May 2013 through October 2013 before again being shut down for maintenance work through March 2014. The well produced again from April 2014 through November 2015 before the operator shut in the well due to poor

economic conditions and under-performance. When EagleRidge took over the well in 2017, they attempted to bring it back online but ultimately decided not to work on it further. This accounts for the 3 months of very minor production shown in 2017 and 2018. The production data used for the DCM spans from 2010 to 2015 and does not include the months when the well was under maintenance.

B-6H: The B-6H began producing gas in November 2011. It declined steadily until 2014 when production rates leveled out around 7,000-8,000 mcf/month. After EagleRidge took over the well in 2017, production slowly declined to rates ranging between 3,000 and 5,000 mcf/month in 2023 and 2024. The operator chose to shut in the well in mid-2024 due to the poor economic conditions and urban growth. The last 48 months used for the DCM span from June 2020 through May 2024.

B-7H: The B-7H started producing gas in November 2011. Production rates declined rapidly from 2011 to early 2014, which is when they dropped to less than 3,000 mcf/month. The last month of production before the operator shut in the well was June 2014, representing only 32 months of representative production data. GPA recognized that 32 data points is less than what the protocol recommends, but GPA also believed that the data available is sufficient to model the remaining gas in reserve. When EagleRidge acquired the well in 2017, they attempted to bring it back online and produced 11 mcf in October 2017, but they ultimately decided to leave the well shut in due to poor performance and unfavorable economic conditions.

The finalized production data was loaded into the DCM to determine the Last Production Estimate (LPE) and Annual Decline Rate (ADR) for each well. These values were then plugged into the LRM along with other well information. After goal seeking to accurately quantify each leak, the total GHG emissions were determined by the LRM. Plugging the A-4H, B-5H, B-6H, and 7H resulted in avoiding nearly 182,000 tons, nearly 254,000 tons, over 118,000 tons, and over 73,500 tons of CO_2e over the 20-year crediting period, respectively, as summarized in Table 3.

Table 3: DCA & LRM results

Well ID	Well API	Last Producing Month	LPE (mcf/d)	ADR (%)	Methane (%)	CO_2e (tons)
A-4H	42-121-33852	May-24	125.3	4.3	94.8923	181,890
B-5H	42-121-33866	Nov-15	175.4	3.0	94.8923	253,878
B-6H	42-121-33867	May-24	111.1	19.5	94.8923	118,227
B-7H	42-121-33865	Jun-14	75.5	30.0	94.8923	44,543
					Total:	**598,538**

Project Emissions

Emissions from the work performed to plug the well and conduct site restoration are separated into three major components: cement, travel, and rig usage. The tables below show the quantities of emissions generated.

Table 4a: Emissions From Cement

Well ID	Plug #	Slurry Vol ft3	Density ppg	Total lbs	Total Emissions lbs**	Total Emissions MT (CO2e)
A-4H	CIBP*	3.96	15.6	462	416	0.2
	1	85.8	15.6	10013	9012	4.1
	2	105.6	15.6	12324	11092	5.0
	3	105.6	15.6	12324	11092	5.0
	4	19.8	15.6	2311	2080	0.9
B-5H	CIBP*	3.96	15.6	462	416	0.2
	1	99.0	15.6	11554	10398	4.7
	2	105.6	15.6	12324	11092	5.0
	3	105.6	15.6	12324	11092	5.0
	4	19.8	15.6	2311	2080	0.9
B-6H	CIBP*	3.96	15.6	462	416	0.2
	1	85.8	15.6	10013	9012	4.1
	2	85.8	15.6	10013	9012	4.1
	3	151.8	15.6	17716	15944	7.2
	4	19.8	15.6	2311	2080	0.9
B-7H	CIBP*	3.96	15.6	462	416	0.2
	1	85.8	15.6	10013	9012	4.1
	2	85.8	15.6	10013	9012	4.1
	3	151.8	15.6	17716	15944	7.2
	4	19.8	15.6	2311	2080	0.9
Total		**320.76**		**157438**	**141694**	**64.3**

* - Cast Iron Bridge Plug

** - Assumes 0.9 lbs CO2/lb cement as sourced from https://www.cement.org/docs/default-source/th-paving-pdfs/sustainability/carbon-foot-print.pdf

Table 4b: Emissions from Travel

Personnel Title	Type Vehicle	Total Miles	Est MPG	Fuel Used gal	Total Emissions lbs	Total Emissions MT (CO2e)
GPA Staff	Light Truck*	1500	20	75.00	659	0.659
ER Staff	Light Truck	100	12	8.33	73	0.073
ER Staff	Truck**	100	12	8.33	85	0.085
Constr. Crew	Truck	100	12	8.33	85	0.085
Plugger	Truck	380	10	38.00	388	0.388
Rig Travel	Truck	380	5	76.00	776	0.776
Cementer	Truck	380	10	38.00	388	0.388
Pipeline Crew	Light Truck	100	10	10.00	88	0.088
Total		**3040**		**262.00**	**2542**	**2.54**

* - EPA reports 8.78 kg CO2 per gallon of gasoline for light truck

** - EPA reports 10.21 kg CO2 per gallon of gasoline for diesel

Table 4c: Emissions From Equipment

Equipment Type	Fuel Used gal	Total Emissions kg CO2	Total Emissions MT (CO2e)
Pulling Unit	600	6126	6.126
Backhoe	60	613	0.613
Cement Unit	400	4084	4.084
Total	**1060**	**10823**	**10.82**

** - EPA reports 10.21 kg CO2 per gallon of gasoline for diesel

Table 4d: Total Project Emissions

Emission Source	Total Emissions MT (CO2e)
Cementing	64.3
Travel	2.5
Equipment	10.8
TOTAL	**77.6**

These emissions values are based on the time it took using the equipment and vehicles, as well as the cement volumes as recorded on the W-3 plugging record. Results are that 77.6 (rounded to 78) metric tons of CO2e were emitted as a result of executing this plugging work and conducting site visits.

Net Emissions Reductions

Net emissions reductions are calculated after subtracting out project emissions from baseline emissions and then factoring a 95% uncertainty factor, per the protocol. Thus, net emissions reductions from this project are:

$$(598{,}538 - 78) * 95\% = \mathbf{568{,}537}\ \text{MT}\ CO_2e$$

Post-Plugging Documentation and Test Results

Site Conditions

The Rice Ranch wells were plugged in August 2024 by Petrosmith. The W-3a document with the plugging plan was followed, and the RRC-signed W-3 plugging record is included in the shared folder. Photos of the site while operations were in progress are shown below as Figure 7.

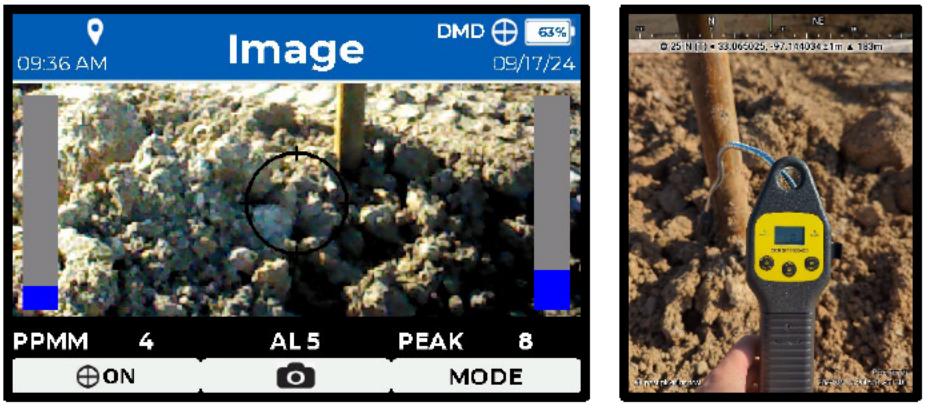
Figure 7: Plugging and site restoration work being conducted at the Rice Ranch Site.

The site was emptied of all equipment and structures in September, 2024 after the wells were plugged. The berms were knocked down, the site was graded and leveled, and it was left in a clean condition to be utilized by the landowners as they please, as shown in Figure 8.

Figure 8: Photos of the site showing the former well locations (left) and former tank and separator locations (right) from the ground (top) and from above (bottom).

Emissions Testing

Michael Goodman conducted a post-plugging site visit and emissions test on September 17th, 2024. At this point, all tankage and other structures had been removed and the wells were plugged. All that remained were four "grave markers," or pipes sticking out of the ground that indicated the location of the wellbores that were capped and cut below grade. Using the RMLD-CS, Michael screened background locations and identified methane concentrations in the 4-35 ppm-m range away from the wellheads, with photo evidence in the shared folder. The Sensit also identified concentrations of zero ppm at the same background location. Concentrations around the former wellbores were identified at less than 20 ppm-m with the RMLD-CS and no detections above zero were observed with the Sensit, as indicated by the photos in Figure 9.



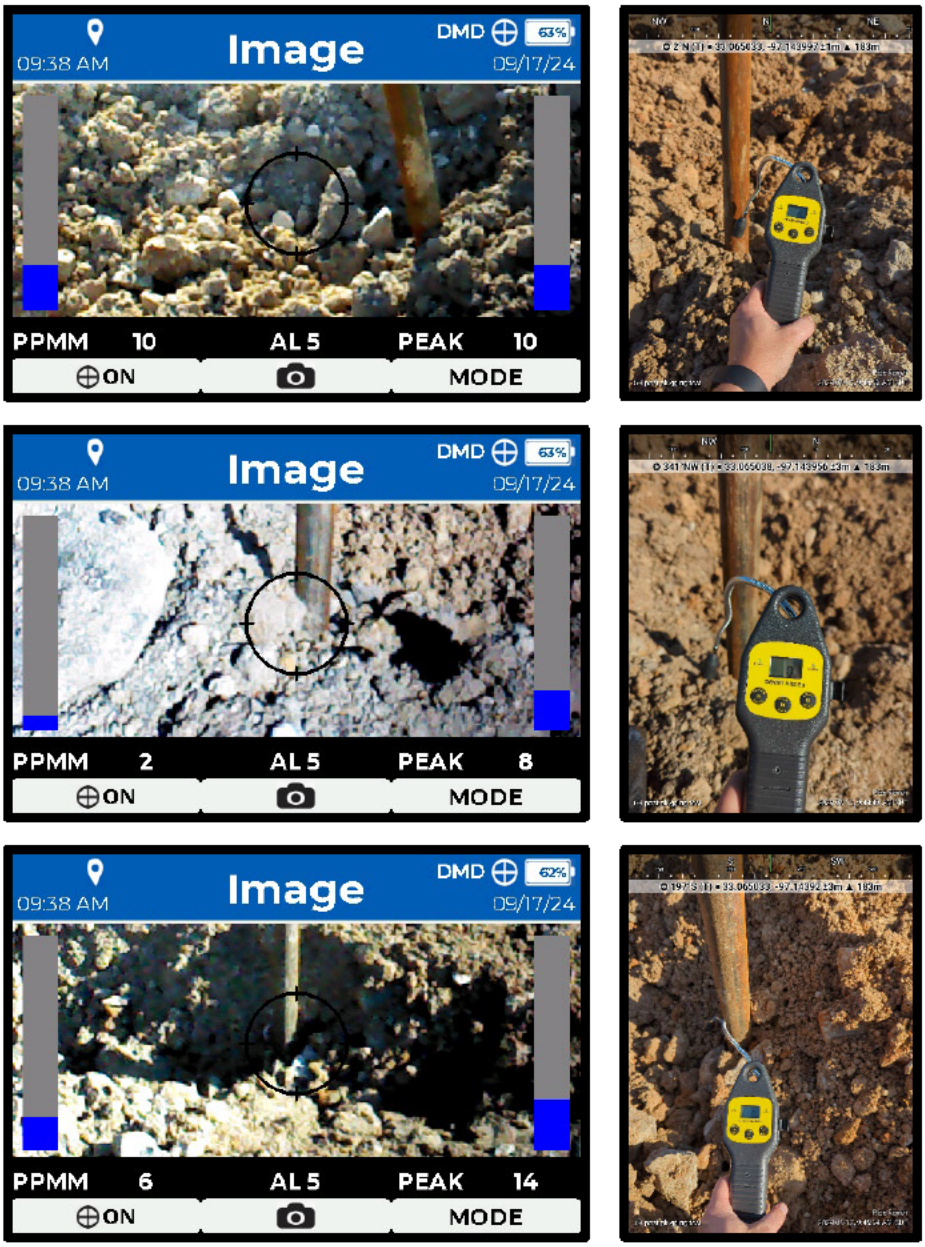


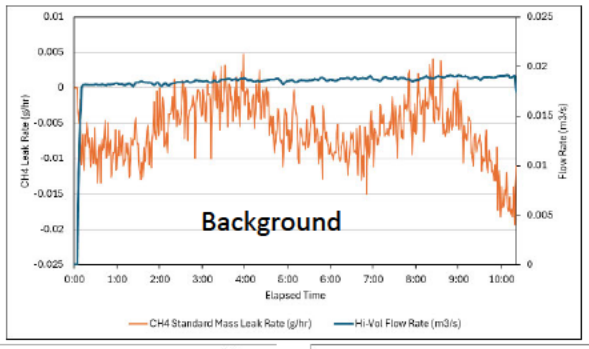
Figure 9: RMLD-CS and Sensit readings at the former A-4H (top), B-5H (second), B-6H (third), and B-7H (bottom) wells, demonstrating concentrations the same as background concentrations.

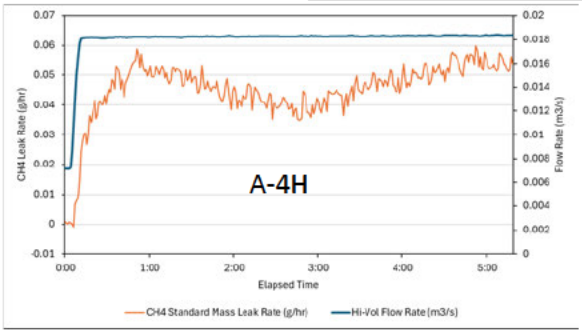
In addition to screening for detections, Michael conducted methane emissions quantification tests using the SEMTECH Hi-Flow 2 device. The Hi-Flow 2 uses an analyzer to gather methane concentration data and a sampler to measure flow rates. Together, the analyzer and sampler quantify methane emissions rates with accuracy better than 1 gram/hour. Michael conducted a background test for approximately 10 minutes at a location upwind of the wells. Then, a 5-minute test was conducted at each well with the sampling end covered by a tarp to capture air directly above the former wellbore. Photos showing the High-Flow 2 set up are shown on Figure 10.

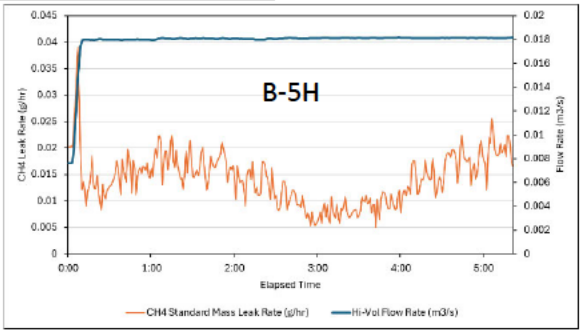
Figure 10: Photos showing methane emissions quantification with the Hi-Flow 2 gathering background data (left) and leak test data (right) at the B-5H.

Results from the Hi-flow test demonstrate that there are no leaks at the former wellbore locations. Figure 11 below shows the methane leak rate and the volume flow rate from the background test and the tests at each former wellbore location.

The background test was conducted with the sampling hose exposed to the wind and resulted in methane leak rates of at or below zero grams per hour. The approximate 5-minute tests conducted at each well resulted in methane emissions rates ranging from less than zero to 0.06 grams per hour. Emissions rates less than one gram per hour are deemed as "no[t] measurable or very low quantities" in the DOI's "Assessing Methane Emissions from Orphaned Wells to Meet Reporting Requirements of the 2021 Infrastructure Investment and Jobs Act: Methane Measurement Guidelines July 2023 Version" located here. These methane emissions results are not statistically different from the results of the background test and the data is considered as "not detected" according to the DOI's guidance document. Given these facts, GPA concluded that there are no leaks at these former wellbore locations.







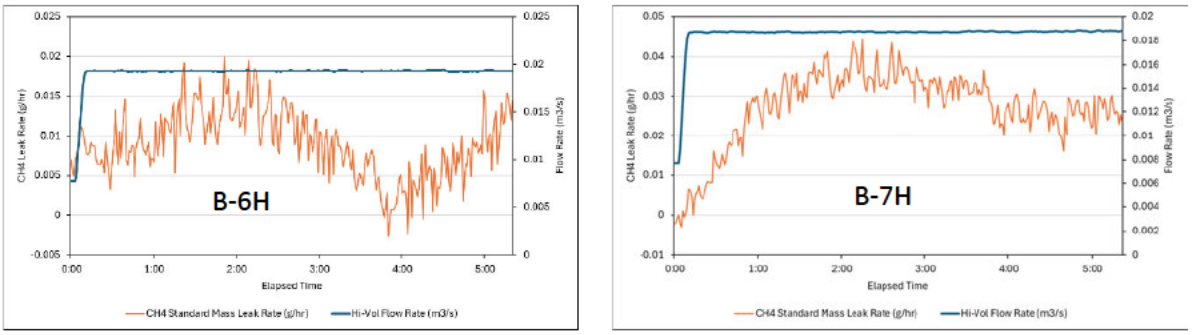


Figure 11: Methane leak rate in g/hr and total volume flow rate in m3/s measured in background conditions (top) and at the four former wellbore locations.

Demographic Details

Demographic details were considered within a five-mile radius of the well pad as required by the protocol.

Aquifers and Water Wells

The area surrounding the site is used for groundwater extraction. Underneath the site, Cretaceous sandstones and siltstones make up the Woodbine minor aquifer and the Trinity major aquifer. Both of these aquifers dip easterly, and the Woodbine aquifer is located at shallower depths than the Trinity aquifer, according to the Texas Water Development Board (TWDB) and their GIS data hub located at https://www.twdb.texas.gov/mapping/gisdata.asp. Within a five-mile radius of the property, there are 72 water wells that tap into these aquifers, most of which are at depths between 500 and 1600 feet below ground surface (bgs), as shown on Figure 12.

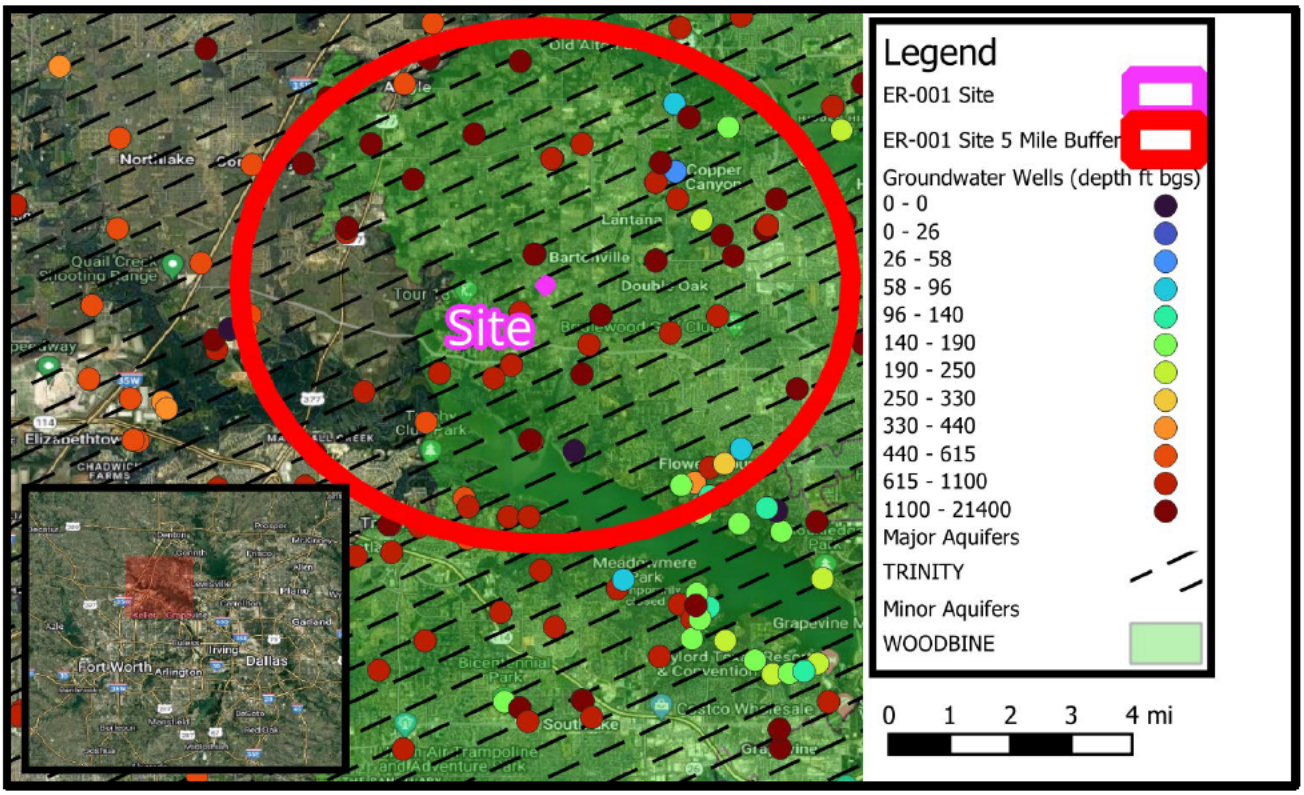


Figure 12: Map showing the aquifers and water wells within a five-mile radius of the site. There are 72 wells that tap into either the Woodbine or Trinity aquifers.

Sensitive Receptors and Environmental Justice Data

To evaluate for sensitive receptors and environmental justice information, GPA relied upon the EPA's Environmental Justice Screening and mapping tool (https://www.epa.gov/ejscreen). This tool generated the EJScreen Community report and EJScreen American Community Survey (ACS) Summary Report, both of which are included in the shared folder. Within a five-mile radius of the property, key indicators are as follows:

- Population: 84,749
- Households: 28,063
- People of color: 25%
- Low income: 8%
- Children Age 0-17: 28%
- Persons with disabilities: 6%

Using both the EJ screen tool and google maps, GPA conducted an assessment on the community landmarks proximal to the site. Within the five-mile radius of the property, there is one hospital, 10 places of worship, 25 schools, over 10 playgrounds, and eight retirement homes/assisted living centers.

Endangered Species

Endangered Species at the site were evaluated using the U.S. Fish & Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) resource (https://ipac.ecosphere.fws.gov/). The species potentially affected by activities at the location of the site are as follows:

- Tricolored Bat – Mammal – Proposed Endangered
- Piping Plover – Bird – Threatened
- Rufa Red Knot – Bird – Threatened
- Whooping Crane – Bird – Endangered
- Alligator Snapping Turtle – Reptile – Proposed Threatened
- Texas Heelsplitter – Clam – Proposed Endangered
- Monarch Butterfly – Insect – Candidate

Additionally, this area is home to the Bald Eagle and five other migratory birds that fall under the USFWS Birds of Conservation Concern list.

The full report generated from the USFS IPaC tool is available in the shared folder.

Soils, Land Use, and Land Reclamation

Soil types within a five-mile radius of the site were analyzed using the United States Department of Agriculture (USDA) Web Soil Survey (WSS). The predominant soil types around the property are sandy and clayey loams on 1-15% slopes. Underneath the well pad is the Birome fine sandy loam at 3-5% slopes which is well drained soil not categorized as prime farmland (Figure 13). Land use in the area is becoming increasingly suburban, but traditional and historical land use is predominantly for livestock and poultry.

At the Rice Ranch site, the pad has been used for over a decade for the wells and other on-site equipment. In many circumstances, well plugging and site restoration results in reclaiming land to be used for farming or livestock. However, at this site, the lease agreement states that the well pad will remain for future use by the landowner. At the conclusion of the project, all surface equipment was removed from the site,

berms were leveled, and the pad was left intact as an improved structure that can be utilized by the landowner.

Figure 13: Soils around the site according to the USDA WSS. The soil types underneath the property are the Birome fine sandy loam.

Waters of the U.S.

Waters of the United States were evaluated using the USFWS digital Wetlands Mapper tool at https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper. In addition to Grapevine Lake and associated wetlands on its fringes to the south of the site, the site is surrounded by freshwater ponds and riverines, as shown on Figure 14.

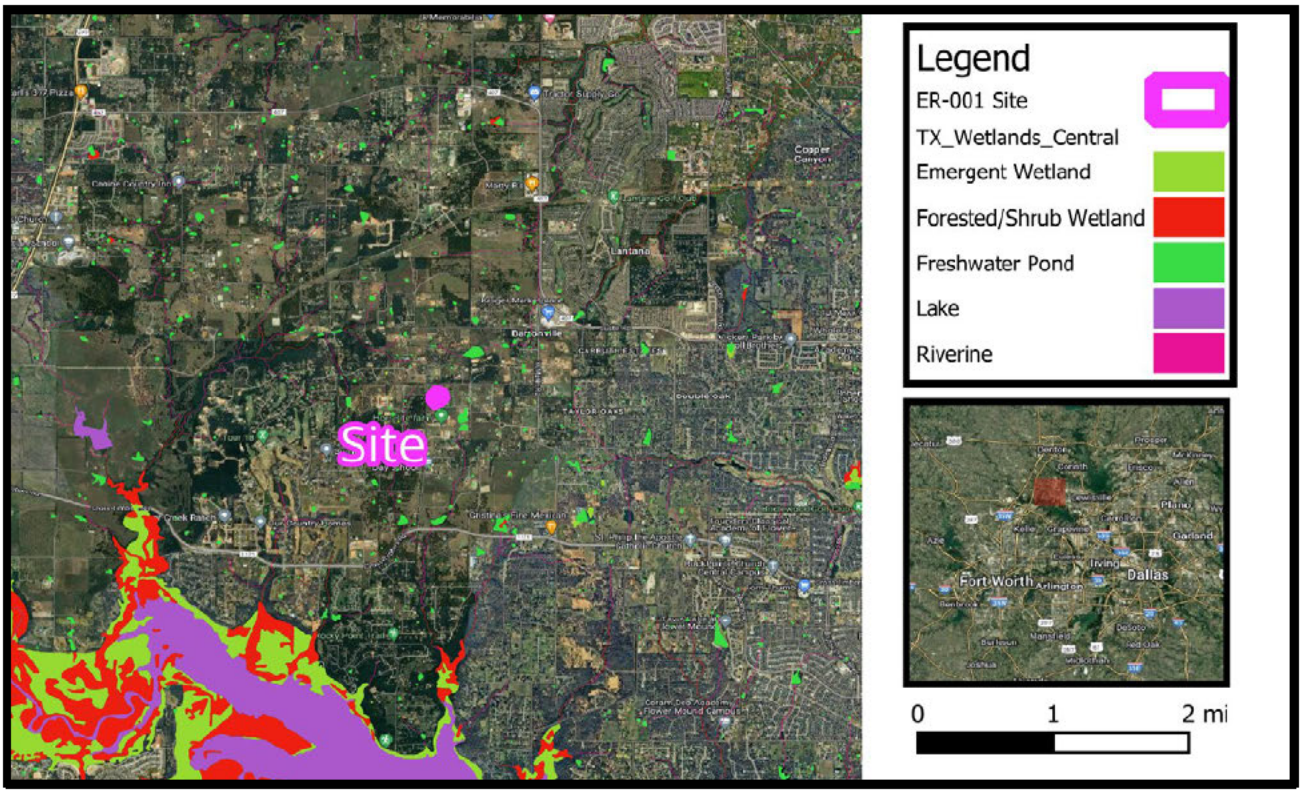


Figure 14: USFWS Wetlands showing freshwater emergent wetlands, freshwater forested/shrub wetlands, ponds, and riverines proximal to the site.

Co-Benefits Analysis

Co-benefits of this project are the benefits that go beyond emissions reductions. The following co-benefits are the result of executing this project:

1. **Job Creation – This project provides work for many people such as the crew members working the plugging equipment at Petrosmith. Other parties this provides work for include the project developer, the 3rd party validator, the registry, and those involved with the carbon credit transactions. This is meaningful work for dozens of people that will lead to future work opportunities as well.**
2. **Property value increase – A study conducted in 2021[1] found that homes in Pennsylvania within 2 kilometers of an unplugged well were valued at about 11% less than similar homes not near a well. Plugging these wells will increase the value of hundreds of homes in proximity to the well pad, as well as the undeveloped properties to the north, east, and south.**
3. **Human health conditions improvements – By removing methane from the local environment, human health is improved. Methane is particularly harmful to humans, as it decreases oxygen levels in the air and can cause suffocation. It also forms volatile organic compounds, which when inhaled can cause cancer and affect the nervous system. Stopping this source will improve human health and make the environment a safer place for life.**
4. **Increased biodiversity – By removing the source of methane and all associated equipment from the surface, plants and wildlife will be able to thrive in their natural habitat with improved air quality.**

5. Removal of potential liabilities – wells are inherently dangerous and pose several types of risk to the local community. The physical risk of the methane catching fire and exploding (typically called a "blowout") can affect human life, biodiversity, water quality, local governments, and the taxpayer, who'll ultimately be responsible for fixing the problem. Properly plugging the wells removes all of these risks entirely.
6. Improved air quality – In addition to methane, natural gas produced from these wells includes small quantities of non-GHG gasses. Stopping the source of this gas to nearby residents improves the local air quality.

Additional Required Documentation

GPA has provided specific documentation to BCarbon and 3rd party validators in the shared folder. The following documents are included:

- Environmental Attribute affirmation letter signed by the current operator.
- RRC W-3a Notice of Intention to Plug and Abandon reports for each well.
- Well Information, including completion records and wellbore schematics.
- GPA's tables and calculations in their raw, excel format.
- RRC-signed W-3 plugging records for each well.
- EJ Screen ACS Summary Report and Community Report.
- USFWS IaPC Endangered Species Report
- WSS Report

We thank you for allowing us to develop this project with your methodology.

Sincerely,
Guardian Plug and Abandonment

Michael Goodman, P.G.
General Manager

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 08/2019

Status As Approved | Tracking # B1B35C57 | API No. (if available) 42- 12133852 | 1. RRC District 09

FILE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or ID Number: 259362

2. FIELD NAME (as per RRC records): NEWARK, EAST [BARNETT SHALE]

3. Lease Name: RICE RANCH UNIT

5. Well Number: A 4H

6. OPERATOR & 7. ADDRESS: EAGLERIDGE OPERATING, LLC, 3500 MAPLE AVENUE STE 1400, DALLAS, TX 75219-

6a. Original Form W-1 filed in name of: Williams Prod. Gulf Coast, LP

6b. Any subsequent W-1's filed in name of:

10. County: DENTON

11. Date Drilling Permit Issued: 11/10/2009

8. Location of well, relative to nearest lease boundaries of lease on which this well is located: 2042.10 feet from South line and 2514.70 feet from East line of the Rice Ranch Unit lease

12. Permit Number: 687020

9a. SECTION, BLOCK and SURVEY: BURKE, J , , A-42

9b. Distance and direction from nearest town in this county: .08 mi East of Bartonville

13. Date Drilling Commenced: 04/20/2010

16. Type Well (oil, gas, or dry): Gas | Total Depth: 8344 | If multiple completion list all field names and oil lease or gas id no.'s | Gas ID or Oil Lease # | Oil - O Gas - G | Well #

14. Date Drilling Completed: 05/14/2010

18. If gas, amt. of cond. on hand at time of plugging

15. Date Well Plugged: 08/05/2024

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	08/01/24	08/05/24	08/05/24	08/05/24	08/05/24			
20. Size of Hole or Pipe in which Plug Placed (inches)	5 1/2	8 3/4	8 3/4	9 5/8	9 5/8			
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	7300	4000	3000	1600	15			
*22. Sacks of Cement Used (each plug)	3	65	80	80	15			
*23. Slurry Volume Pumped (cu. ft.)	3.96	85.80	105.60	105.60	19.80			
*24. Calculated Top of Plug (ft.)	7280	3860	2874	1500	3			
25. Measured Top of Plug (if tagged) (ft.)			2870					
*26. Slurry Wt. # / Gal.	14.8	14.8	14.8	14.8	14.8			
*27. Type Cement	CIBP, C	C	C	C	C			

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
9 5/8	36.0	2924	2924	12 1/4
5 1/2	17.0	14070	9060	8 3/4

29. Was any non-drillable material (other than casing) left in this well? No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material.

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
12258	14000		

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Randall Smith
Signature of Cementer or Authorized Representative

Petrosmith Equipment LP
Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Kelvin Porter	Regulatory	08/21/2024	PHONE (214) 444-7493,ext:1002
REPRESENTATIVE OF COMPANY	TITLE	DATE	A/C NUMBER

Blake Ramon
SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission?	32. How was mud applied?	33. Mud Weight
Yes	Pump	9.5 LBS/GAL

34. Total Depth	Other Fresh Water Zones by GAU		35. Have all abandoned wells on this lease been plugged according to R R C Rules?
	TOP	BOTTOM	Yes
8344 Depth of Deepest			36. If No, Explain
Fresh Water 1550			

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well

PETROSMITH EQUIPMENT, LP , P.O. Box 6291, Abilene, Tx. 79608

Date RRC District Office notified of plugging: 07/31/2024

38. Name(s) and address(es) of surface owners of well site

Phillip Rice , PO Box 600308 , Dallas , TX , 75360

39. Was notice given before plugging to the above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by RRC Form L-1 (Electric Log Status Report). If confidentiality is requested on the L-1, attach a copy of the header for each log that has been run on the well.

☐ L-1 Attached

☐ Log Header(s) Attached

NOTE: Well Logs should be submitted to the RRC using the on-line Digital Well Log Submission (DWL) application

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *

File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 08/2019

Status As Approved | Tracking # 3A55FFEE | API No. (if available) 42- 12133866 | 1. RRC District 09

FILE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or ID Number: 259090

2. FIELD NAME (as per RRC records): NEWARK, EAST [BARNETT SHALE]

3. Lease Name: RICE RANCH UNIT B

5. Well Number: 5H

6. OPERATOR & 7. ADDRESS: EAGLERIDGE OPERATING, LLC, 3500 MAPLE AVENUE STE 1400, DALLAS, TX 75219-

6a. Original Form W-1 filed in name of: Williams Prod. Gulf Coast, L.P.

6b. Any subsequent W-1's filed in name of:

10. County: DENTON

11. Date Drilling Permit Issued: 11/13/2009

8. Location of well, relative to nearest lease boundaries of lease on which this well is located: 2041.80 feet from South line and 1228.20 feet from South line of the Rice Ranch Unit B lease

12. Permit Number: 687045

9a. SECTION, BLOCK and SURVEY: , , A-42 BURKE, J

9b. Distance and direction from nearest town in this county: .08 mi East of Bartonville

13. Date Drilling Commenced: 03/29/2010

16. Type Well (oil, gas, or dry): Gas | Total Depth: 8321 | If multiple completion list all field names and oil lease or gas id no.'s | Gas ID or Oil Lease # | Oil - O Gas - G | Well #

14. Date Drilling Completed: 04/19/2010

18. If gas, amt. of cond. on hand at time of plugging

15. Date Well Plugged: 08/21/2024

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	08/19/24	08/21/24	08/21/24	08/21/24	08/21/24			
20. Size of Hole or Pipe in which Plug Placed (inches)	5 1/2	8 3/4	8 3/4	9 5/8	9 5/8			
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	6000	4000	3000	1620	15			
*22. Sacks of Cement Used (each plug)	3	75	80	80	15			
*23. Slurry Volume Pumped (cu. ft.)	3.96	99.00	105.60	105.60	19.80			
*24. Calculated Top of Plug (ft.)	5980	3750	2750	1520	3			
25. Measured Top of Plug (if tagged) (ft.)			2600					
*26. Slurry Wt. # / Gal.	14.8	14.8	14.8	14.8	14.8			
*27. Type Cement	CIBP, C	C	C	C	C			

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
9 5/8	36.0	2942	2942	12 1/4
5 1/2	17.0	14395	9381	8 3/4

29. Was any non-drillable material (other than casing) left in this well? No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material.

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
12523	14356		

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Randall Smith — Signature of Cementer or Authorized Representative

Petrosmith Equipment LP — Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Kelvin Porter — REPRESENTATIVE OF COMPANY
Regulatory — TITLE
08/23/2024 — DATE
PHONE (214) 444-7493,ext:1002 — A/C NUMBER

Blake Ramon — SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission?	32. How was mud applied?	33. Mud Weight
Yes	Pump	9.5 LBS/GAL

34. Total Depth	Other Fresh Water Zones by GAU		35. Have all abandoned wells on this lease been plugged according to R R C Rules?
	TOP	BOTTOM	Yes
8321 Depth of Deepest			36. If No, Explain
Fresh Water 1550			

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well

PETROSMITH EQUIPMENT, LP , P.O. Box 6291, Abilene, Tx. 79608

Date RRC District Office notified of plugging: 08/16/2024

38. Name(s) and address(es) of surface owners of well site

Phillip Rice , PO Box 600308 , Dallas , TX , 75360

39. Was notice given before plugging to the above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by RRC Form L-1 (Electric Log Status Report). If confidentiality is requested on the L-1, attach a copy of the header for each log that has been run on the well.

☐ L-1 Attached

☐ Log Header(s) Attached

NOTE: Well Logs should be submitted to the RRC using the on-line Digital Well Log Submission (DWL) application

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *

File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 08/2019

Status As Approved | Tracking # 0AA2B827 | API No. (if available) 42- 12133867 | 1. RRC District 09

FILE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or ID Number: 258950

2. FIELD NAME (as per RRC records): NEWARK, EAST [BARNETT SHALE]

3. Lease Name: RICE RANCH UNIT B

5. Well Number: 6H

6. OPERATOR & 7. ADDRESS: EAGLERIDGE OPERATING, LLC, 3500 MAPLE AVENUE STE 1400, DALLAS, TX 75219-

6a. Original Form W-1 filed in name of: Williams Prod. Gulf Coast, L.P.

6b. Any subsequent W-1's filed in name of:

10. County: DENTON

11. Date Drilling Permit Issued: 11/13/2009

8. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1218.20 feet from East line and 2041.50 feet from South line of the Rice Ranch Unit B lease

12. Permit Number: 687056

9a. SECTION, BLOCK and SURVEY: , , A-42 BURKE, J

9b. Distance and direction from nearest town in this county: .08 mi East of Bartonville

13. Date Drilling Commenced: 03/06/2010

16. Type Well (oil, gas, or dry): Gas | Total Depth: 8327 | If multiple completion list all field names and oil lease or gas id no.'s | Gas ID or Oil Lease # | Oil - O Gas - G | Well #

14. Date Drilling Completed: 03/27/2010

18. If gas, amt. of cond. on hand at time of plugging

15. Date Well Plugged: 08/15/2024

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	08/13/24	08/14/24	08/14/24	08/15/24	08/15/24			
20. Size of Hole or Pipe in which Plug Placed (inches)	5 1/2	8 3/4	8 3/4	8 3/4	9 5/8			
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	7300	4000	3000	1704	15			
*22. Sacks of Cement Used (each plug)	3	65	65	115	15			
*23. Slurry Volume Pumped (cu. ft.)	3.96	85.80	85.80	151.80	19.80			
*24. Calculated Top of Plug (ft.)	7280	3750	2750	1500	3			
25. Measured Top of Plug (if tagged) (ft.)				1400				
*26. Slurry Wt. # / Gal.	14.8	14.8	14.8	14.8	14.8			
*27. Type Cement	CIBP, C	C	C	C	C			

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
9 5/8	36.0	1604	1604	12 1/4
5 1/2	17.0	13850	8840	8 3/4

29. Was any non-drillable material (other than casing) left in this well? No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material.

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
11691	13810		

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Randall smith — Signature of Cementer or Authorized Representative

Petrosmith Equipment LP — Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Kelvin Porter — REPRESENTATIVE OF COMPANY

Regulatory — TITLE

08/21/2024 — DATE

PHONE (214) 444-7493,ext:1002 — A/C NUMBER

Blake Ramon — SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission?	32. How was mud applied?	33. Mud Weight
Yes	Pump	9.5 LBS/GAL

34. Total Depth	Other Fresh Water Zones by GAU		35. Have all abandoned wells on this lease been plugged according to R R C Rules?
	TOP	BOTTOM	Yes
8327 Depth of Deepest			36. If No, Explain
Fresh Water 1550			

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well: PETROSMITH EQUIPMENT, LP , P.O. Box 6291, Abilene, Tx. 79608

Date RRC District Office notified of plugging: 08/12/2024

38. Name(s) and address(es) of surface owners of well site

Phillip Rice , PO Box 600308 , Dallas , TX , 75360

39. Was notice given before plugging to the above? Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by RRC Form L-1 (Electric Log Status Report). If confidentiality is requested on the L-1, attach a copy of the header for each log that has been run on the well.

☐ L-1 Attached

☐ Log Header(s) Attached

NOTE: Well Logs should be submitted to the RRC using the on-line Digital Well Log Submission (DWL) application

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *

File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS

Plugging Record

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FORM W-3
Rev. 08/2019

Status As Approved | Tracking # E5EFA4AB | API No. (if available) 42- 12133865 | 1. RRC District 09

FILE WITH DISTRICT OFFICE OF DISTRICT IN WHICH WELL IS LOCATED WITHIN THIRTY DAYS AFTER PLUGGING

4. RRC Lease or ID Number: 258946

2. FIELD NAME (as per RRC records): NEWARK, EAST [BARNETT SHALE]

3. Lease Name: RICE RANCH UNIT B

5. Well Number: 7H

6. OPERATOR & 7. ADDRESS: EAGLERIDGE OPERATING, LLC, 3500 MAPLE AVENUE STE 1400, DALLAS, TX 75219-

6a. Original Form W-1 filed in name of: Williams Gulf Coast Prod. L.P.

6b. Any subsequent W-1's filed in name of:

10. County: DENTON

11. Date Drilling Permit Issued: 11/13/2009

8. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1218.20 feet from East line and 2041.50 feet from South line of the Rice Ranch Unit B lease

12. Permit Number: 687059

9a. SECTION, BLOCK and SURVEY: , , A-42 BURKE, J

9b. Distance and direction from nearest town in this county: .08 mi East of Bartonville

13. Date Drilling Commenced: 02/11/2010

16. Type Well (oil, gas, or dry): Gas | Total Depth: 8352 | If multiple completion list all field names and oil lease or gas id no.'s | Gas ID or Oil Lease # | Oil - O Gas - G | Well #

14. Date Drilling Completed: 03/04/2010

18. If gas, amt. of cond. on hand at time of plugging

15. Date Well Plugged: 08/12/2024

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
*19. Cementing Date	08/07/24	08/09/24	08/09/24	08/09/24	08/12/24			
20. Size of Hole or Pipe in which Plug Placed (inches)	5 1/2	8 3/4	8 3/4	8 3/4	9 5/8			
21. Depth to Bottom of Tubing or Drill Pipe (ft.)	7300	4000	3000	1650	15			
*22. Sacks of Cement Used (each plug)	3	65	65	115	15			
*23. Slurry Volume Pumped (cu. ft.)	3.96	85.80	85.80	151.80	19.80			
*24. Calculated Top of Plug (ft.)	7280	3750	2750	1500	3			
25. Measured Top of Plug (if tagged) (ft.)				1296				
*26. Slurry Wt. # / Gal.	14.8	14.8	14.8	14.8	14.8			
*27. Type Cement	CIBP, C	C	C	C	C			

28. CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT.# / FT.	PUT IN WELL (ft.)	LEFT IN WELL (ft.)	HOLE SIZE (in.)
9 5/8	36.0	1595	1595	12 1/4
5 1/2	17.0	12790	7780	8 3/4

29. Was any non-drillable material (other than casing) left in this well? No

29a. If answer to above is "Yes" state depth to top of "junk" left in hole and briefly describe non-drillable material.

30. LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

FROM	TO	FROM	TO
11874	12740		

I have knowledge that the cementing operations, as reflected by the information found on this form, were performed as indicated by such information.
* Designates items to be completed by Cementing Company. Items not so designated shall be completed by operator.

Randall Smith — Signature of Cementer or Authorized Representative

Petrosmith Equipment LP — Name of Cementing Company

CERTIFICATE:
I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Kelvin Porter — REPRESENTATIVE OF COMPANY
Regulatory — TITLE
08/22/2024 — DATE
PHONE (214) 444-7493,ext:1002 — A/C NUMBER

Blake Ramon — SIGNATURE: REPRESENTATIVE OF RAILROAD COMMISSION

31. Was well filled with mud - laden fluid, according to the regulations of the Railroad Commission?	32. How was mud applied?	33. Mud Weight
Yes	Pump	9.5 LBS/GAL

34. Total Depth	Other Fresh Water Zones by GAU		35. Have all abandoned wells on this lease been plugged according to R R C Rules?
	TOP	BOTTOM	Yes
8352 Depth of Deepest			36. If No, Explain
Fresh Water 1550			

37. Name and address of cementing or service company who mixed and pumped cement plugs in this well

PETROSMITH EQUIPMENT, LP , P.O. Box 6291, Abilene, Tx. 79608

Date RRC District Office notified of plugging: 08/06/2024

38. Name(s) and address(es) of surface owners of well site

Phillip Rice , PO Box 600308 , Dallas , TX , 75360

39. Was notice given before plugging to the above?

Yes

FILL IN BELOW FOR DRY HOLES ONLY

40. For dry holes, this form must be accompanied by RRC Form L-1 (Electric Log Status Report). If confidentiality is requested on the L-1, attach a copy of the header for each log that has been run on the well.

☐ L-1 Attached

☐ Log Header(s) Attached

NOTE: Well Logs should be submitted to the RRC using the on-line Digital Well Log Submission (DWL) application

41. Date FORM P-8 (Special Clearance) filed:

42. Amount of oil produced prior to plugging _____ bbls *

File FORM P-1 (Oil Production Report) for month this oil was produced

R R C USE ONLY

Nearest field _____

REMARKS