



November 25, 2025

Ashley Maxwell
New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

**Re: 2025 Q1 through Q3 Progress Report
Benson-Montin-Greer Drilling Corporation
Highway 537 Llaves Pipeline 2008 Release
Rio Arriba County, New Mexico
AP-136 (Formerly 3RP-447)
Incident #NRMD0929936774**

Dear Ms. Maxwell:

On behalf of Benson-Montin-Greer Drilling Corporation (BMG), Animas Environmental Services, LLC (AES) has prepared this 2025 Quarter 1 through Quarter 3 Progress Report. This report details groundwater monitoring and sampling activities conducted at the BMG Llaves Pipeline 2008 Release location. Because reporting requirements transitioned from an annual to a quarterly schedule midyear, this submittal includes data from multiple quarters; future reports will cover a single quarter. Site activities were completed in accordance with the Stage 1 and 2 Abatement Plan dated June 6, 2019, which was recently rejected by the New Mexico Oil Conservation Division (NMOCD). AES is currently revising the abatement plan and will resubmit it for NMOCD review and approval.

1.0 Site Information

1.1 Site Location

The 2008 release originated on the Schmitz Ranch, on the south side of Highway 537 and flowed south and southwest through a small unnamed arroyo for approximately 920 linear feet (ft). This arroyo eventually drains to the Los Ojitos Arroyo, which ultimately drains to Largo Canyon. The release location is legally described as being located within the NW¼ NE¼ Section 18, Township 25N, Range 3W in Rio Arriba County, New Mexico. Latitude and longitude were recorded as being N36.40357 and W107.18422, respectively. A topographic site location map, based on an excerpt from the U.S. Geological Survey (USGS) 7.5-minute

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Schmitz Ranch, Rio Arriba County, New Mexico topographic quadrangle, is included as Figure 1, and a general site plan is presented as Figure 2.

1.2 Release History

December 31, 2007 - A Western Refining truck driver discovered the Llaves pipeline leak and immediately contacted BMG. BMG personnel confirmed the release and shut down the Llaves pipeline pumps and block valve located about one mile upstream. BMG contracted with TNT Excavating to remove the oil that had pooled along the surface of the small arroyo. Approximately 40 barrels (bbls) of oil were recovered and placed in storage tanks at the BMG Hwy 537 Transfer Station. A total of 3,932 cubic yards of contaminated soils were excavated and transported to the TNT Landfarm facility for disposal.

January 9, 2008 – The Llaves pipeline was repaired. BMG notified the National Response Center on January 23, 2008, and the release was given identification number 860429.

1.3 Site Activities, 2008-2024

1.3.1 MPE and NAPL Recovery, 2011–2019

A mobile multi-phase extraction (MPE) system operated in 2011, 2014, and 2015, removing approximately 40,474 pounds (lbs) of petroleum hydrocarbons. Residual non-aqueous product layer (NAPL) recovery through monthly hand-bailing between December 2017 and April 2019 removed an additional 947 lbs (5.4 gallons [gal]), for a total of 41,421 lbs (6,796 gal) of hydrocarbons recovered by 2019.

1.3.2 Well Abandonment and Pilot Testing, 2017

In August 2017, six monitoring wells (MW-1, MW-3–MW-6, and MW-8) were plugged and abandoned (P&Ad) under NMOCD and NMOSE approval. MW-2 (downgradient) and MW-7 (upgradient) remained for groundwater gradient measurement. A 2017 pilot study tested passive skimming and low vacuum recovery methods to improve NAPL removal; however, due to low NAPL transmissivity, recovery was minimal, and additional MPE operations were determined to be ineffective.

1.3.3 Abatement and Recovery System Upgrades, 2019–2020

MW-9R was installed in September 2019, and a Geotech® Solar Sipper system was installed in October 2019 to allow continuous NAPL recovery. Due to the falling water table leading to an insufficient water column, the Solar Sipper system was removed in November 2021.

Throughout 2020, NAPL was consistently present in six wells (MW-9R, MPE-1, MPE-2, MPE-3, MPE-5, and MPE-6). Benzene, toluene, ethylbenzene, and total xylenes (BTEX) all remained below detection limits or regulatory standards, while total petroleum hydrocarbons (TPH) varied between 0.66 milligrams per liter (mg/L) of gasoline range organics (GRO) and 550 mg/L of diesel range organics (DRO). Dissolved iron and manganese occasionally exceeded

New Mexico Water Quality Control Commission (WQCC) standards at MW-9R. By the end of 2020, approximately 12.1 gal of NAPL had been recovered via the Solar Sipper system.

1.3.4 Abatement Plan, 2019

In accordance with New Mexico Administrative Code (NMAC) 19.15.30.11, a Stage 1 and 2 Abatement Plan was requested by the NMOCD in correspondence dated March 18, 2019, and subsequently submitted in June 2019. An Abatement Plan Modification Request was submitted in October 2024. AES was informed of the plan rejection in a virtual meeting on September 24, 2025. The plan is being revised and will be submitted to NMOCD for review and approval.

1.3.5 Groundwater Monitoring and Sampling 2008-2024

AES has conducted periodic groundwater monitoring and sampling at the site since 2008. As noted previously, several wells have been P&Ad or excluded from the sampling program after exhibiting at least eight consecutive events of dissolved constituent concentrations below laboratory detection limits or applicable WQCC standards.

Since August 2017, MW-9R has been the only well routinely sampled for laboratory analysis, while wells MPE-1 through MPE-7, MW-2, and MW-7 continue to be gauged for groundwater levels and monitored for NAPL presence and recovery. Groundwater elevations have shown a gradual decline over the years, with average depths to water declining from 33.38 ft below ground surface (bgs) in 2009 to 37.14 ft bgs in 2024.

The sampling event conducted in December 2024 indicated dissolved-phase volatile organic compound (VOC) concentrations in MW-9R were below laboratory detection limits or applicable WQCC standards. TPH was reported as 0.54 mg/L for GRO, 36 mg/L for DRO, and 17 mg/L for motor oil range organics (MRO); however, there are no established WQCC standards for TPH in groundwater. Total phenolics (0.23 mg/L) exceeded the WQCC standard of 0.005 mg/L, and dissolved manganese (2.8 mg/L) also exceeded the standard. Total dissolved solids (TDS) were reported at 1,200 mg/L, above the WQCC limit of 1,000 mg/L.

1.4 NMOCD Meeting, September 2025

A virtual meeting was held on September 24, 2025, with representatives from the NMOCD, BMG, and AES to discuss the current status and next steps for the 2008 site.

During the meeting, NMOCD informed AES that project management responsibilities for groundwater sites had been reorganized under Cory Smith's Special Projects group, and that Ashley Maxwell is now the assigned NMOCD Project Manager for the 2008 site. To align the project with current NMOCD requirements, the following actions were agreed upon:

- NMOCD will issue a formal rejection of the 2019 Stage 1 and Stage 2 Abatement Plan and the 2024 Abatement Plan Modification Request for the 2008 site.

- AES will prepare a revised Abatement Plan incorporating the injection activities proposed in the 2024 modification, as well as a detailed groundwater monitoring and sampling plan and schedule.
- NMOCD requires at least one round of groundwater samples from all existing monitoring wells to be analyzed for the full suite of parameters listed under 20.6.2.3103 New Mexico Administrative Code (NMAC). Following receipt of analytical results, formal variance requests may be submitted to justify reduced analytical lists and/or modified reporting frequencies.
- The injection portion of the revised Abatement Plan must be submitted to the NMOCD Underground Injection Control (UIC) Group for review and pre-approval. Documentation of UIC approval will then be included with the final Abatement Plan submittal to the NMOCD Project Manager.

On September 24, 2025, NMOCD rejected the 2019 Stage 1 and Stage 2 Abatement Plan and the 2024 Abatement Plan Modification Request. AES is currently revising the Abatement Plan to reflect these requirements and will coordinate with NMOCD for review and approval upon completion.

2.0 Quarterly Progress Summaries, Q1 through Q3 2025

2.1 Q1 - February 2025 Groundwater Gauging

Groundwater gauging of site wells, replacement of absorbent socks, and hand bailing of NAPL was conducted by AES on February 27, 2025. Oleophilic/hydrophobic absorbent socks were replaced in MPE-1, MPE-3, and MPE-5. Water quality readings and samples were not collected. All field measurements were recorded on a Depth to Groundwater Measurement Form and NAPL Recovery Form, which are included in Appendix A.

Groundwater and NAPL Measurements

Depth to groundwater at the site ranged from 34.14 ft bgs at MPE-7 to 42.04 ft bgs at MW-7. NAPL was observed in three wells: MPE-1 (sheen), MPE-3 (0.07 ft), and MPE-5 (1.69 ft). Residual NAPL was not observed in wells MW-7, MW-9R, MPE-2, MPE-4, MPE-6, or MPE-7. Well MW-2 was dry and no residual NAPL was observed.

The groundwater gradient was calculated to be 0.002 ft/ft in a southwestern direction, consistent with historical data. Fluid depth measurements are presented in Table 1, and fluid depth measurements, groundwater contours, and residual NAPL contours are presented on Figure 3.

2.2 Q2 - June 2025 Groundwater Gauging

Groundwater gauging of site wells was conducted on June 4, 2025. AES field personnel were not able to bail NAPL due to the onset of lightning near the site. Absorbent socks were replaced in MPE-1, MPE-3, MPE-4, MPE-5, and MPE-6. Water quality readings and samples were not collected. All field measurements were recorded on a Depth to Groundwater Measurement Form and a NAPL Recovery Form, which are included in Appendix A.

Groundwater and NAPL Measurements

Depth to groundwater at the site ranged from 34.14 ft bgs at MPE-7 to 42.00 ft bgs at MW-7. NAPL was observed in two wells: MPE-3 (sheen) and MPE-5 (1.25 ft). MW-2 was found to be dry. NAPL was not observed in wells MW-2, MW-7, MW-9R, MPE-1, MPE-2, MPE-4, MPE-6, and MPE-7.

The groundwater gradient was calculated to be 0.002 ft/ft in a south-southwestern direction, which is generally consistent with historical data. Fluid depth measurements are presented in Table 1, and fluid depth measurements, groundwater contours, and residual NAPL contours are presented on Figure 3.

2.3 Q3 – August 2025 Groundwater Gauging

Groundwater gauging of site wells, replacement of absorbent socks, and hand bailing of NAPL was conducted on August 28, 2025. Absorbent socks were replaced in MPE-1, MPE-3, MPE-4, MPE-5, MPE-6, and MW-9R. All field measurements were recorded on a Depth to Fluids Measurement Form and NAPL Recovery Forms, which are included in Appendix A.

Groundwater and NAPL Measurements

Depth to groundwater at the site ranged from 34.36 ft bgs at MPE-7 to 42.17 ft bgs at MW-7. Residual NAPL was observed in five wells: MPE-1 (0.02), MPE-3 (0.07 ft), MPE-4 (0.01 ft), MPE-5 (1.32 ft), and MPE-6 (0.01 ft). MW-2 was found to be dry. Residual NAPL was not observed in MW-7, MPE-2, and MPE-7.

The groundwater gradient was calculated to be 0.003 ft/ft in a southwestern direction, consistent with historical data. Fluid depth measurements are presented in Table 1, and fluid depth measurements, groundwater contours, and residual NAPL contours are presented on Figure 3.

2.4 NAPL Recovery

On February 27 and August 28, 2025, AES hand bailed NAPL from any wells that were found to contain recoverable quantities of product. Hand bailing was performed by lowering a bailer into each well and retrieving it via a length of string. Bailed NAPL was decanted into the onsite storage barrel. NAPL volumes were approximated and recorded on the attached Depth to Groundwater Measurement forms.

NAPL Recovery Data - February 27, 2025

Well ID	Initial Depth to NAPL (ft)	Initial Depth to Water (ft)	Initial NAPL thickness (ft)	Final Depth to NAPL (ft)	Final Depth to Water (ft)	Final NAPL Thickness (ft)	Volume of NAPL Removed (gallon)
MPE-3	36.25	36.32	0.07	--	36.33	--	0.04
MPE-5	38.53	40.22	1.69	38.61	68.89	0.28	0.38

NAPL Recovery Data – August 28, 2025

Well ID	Initial Depth to NAPL (ft)	Initial Depth to Water (ft)	Initial NAPL thickness (ft)	Final Depth to NAPL (ft)	Final Depth to Water (ft)	Final NAPL Thickness (ft)	Volume of NAPL Removed (gallon)
MPE-3	36.39	36.46	0.07	36.57	36.62	0.05	0.5
MPE-5	38.65	39.97	1.32	39.26	39.28	0.02	1.75

Petroleum Hydrocarbon Mass Removal through Q3 2025

Time Period	Mass Petroleum Hydrocarbons Removed (lbs)
Through 2023	41,742
Q1 2025	0.42
Q2 2025	0
Q3 2025	2.25
Cumulative Mass Removal (lbs)	41,745

Cumulative depth to groundwater and NAPL measurements are presented in Table 1 and in NAPL recovery forms, which are included as Appendix A.

3.0 Conclusions, Recommendations, and Scheduled Activities

3.1 Conclusions

In February, June, and August 2025, AES conducted well gauging and hand bailing of NAPL. Additionally, hydrophobic socks were changed out within select site wells. Average groundwater elevations at the site decreased by 0.46 ft from Q4 2024 to Q3 2025. MW-2 (the downgradient well) has been dry since September 2014.

NAPL recovery efforts included hand-bailing and replacement of hydrophobic socks as needed.

3.2 Recommendations

AES is currently developing a Stage 1 and Stage 2 Abatement Plan that includes a proposal to inject ETEC Advanced Bioremediation Solutions' (ETEC's) PetroSolv™ surfactant into wells with residual NAPL impacts, specifically MPE-1, MPE-2, MPE-3, MPE-4, MPE-5, MPE-6, and MW-9R, with the objective of reducing or eliminating remaining NAPL mass. Following this effort, a second round of injections is planned using a combination of ETEC's CBN™ nutrient blend, A2™ bacterial consortium, and EA™ enzyme accelerator to promote enhanced biodegradation of any remaining NAPL and dissolved-phase contaminants.

The revised Abatement Plan will also include one groundwater sampling round to collect samples from all existing wells at the site to be analyzed for the full suite of NMAC 20.6.2.3103 contaminants:

- Atrazine per Method 8270QQQ;
- Chloride, fluoride, nitrate, nitrite, and sulfate per Method 300.0;
- Cyanide per Method 335.4;
- Dissolved metals (aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, cobalt, copper, iron, lead, manganese, molybdenum, nickel, selenium, silver, thallium, uranium, and zinc) per Method 6010B/6020A;
- Ethylene dibromide per Method 8011;
- pH per Method 9040C;
- Phenols per Method 420.4;
- Polychlorinated biphenyls per Method 8082A;
- Polycyclic aromatic hydrocarbons (total naphthalenes, benzo[a]pyrene, and styrene) per Method 8270-SIM.
- Radioactivity (combined radium-226 and radium-228) per Method 901.1;
- Total mercury per Method 7471B;
- TDS per Method 2540C; and,
- VOCs (benzene, carbon tetrachloride, chloroform, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, 1,2-dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,1-dichloroethylene, 1,2-dichloropropane, ethylbenzene, methyl tert-butyl ether, methylene chloride, pentachlorophenol, 1,1,2,2-tetrachloroethane, tetrachloroethylene, 1,2,4-trichlorobenzene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethylene, vinyl chloride, and total xylenes) per Method 8260.

Until approval is received from NMOCD to perform these additional remedial actions, AES will continue recovery of residual NAPL via hydrophobic socks where NAPL thickness is sufficient for removal; and with quarterly hand-bailing and sock replacements as necessary. AES will sample MW-9R on a yearly basis for VOCs, dissolved iron and manganese, phenols, total dissolved solids, and TPH (GRO/DRO/MRO).

3.3 Scheduled Site Activities

The following site activities are currently scheduled for Q4 2025:

- Submit a revised Stage 1 and 2 Abatement Plan;
- Continued recovery of residual NAPL via oleophilic/hydrophobic socks where NAPL thickness is sufficient for removal, and hand-bailing as necessary;
- Fluid gauging of all wells; and
- Conduct sampling of MW-9R for VOCs per USEPA 8260, TPH (GRO, DRO, MRO) per USEPA 8015, dissolved iron and manganese per USEPA 200.8/6010, TDS per SM2540C, and phenols per SW-846 9067.

If you have any questions regarding this report or site conditions, please do not hesitate to contact Angela Todd at (720) 537-6650.

Respectfully Submitted,



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Tables

1. Summary of Groundwater Measurement and Water Quality Data, 2020 to Present
2. Summary of Groundwater Analytical Results – VOCs and TPH
3. Summary of Groundwater Analytical Results – WQCC Groundwater Standards

Figures

1. Topographic Site Location Map
2. General Site Plan
3. 2025 Groundwater Elevation Contours and Residual NAPL Contours

Appendix

- A. Depth to Groundwater/Fluid Measurement Forms and NAPL Recovery Forms – February 2025, June 2025, and August 2025

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Tables

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA, 2020 to PRESENT
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Surveyed TOC (ft)	Total Well Depth	Screen Interval	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MPE-1	10-Mar-20	TBS	40	30-40	36.93	37.36	0.43	NA	NM	NM	NM	NM	NM
MPE-1	25-Mar-20	TBS	40	30-40	37.08	37.71	0.63	NA	NM	NM	NM	NM	NM
MPE-1	23-Jun-20	TBS	40	30-40	37.60	38.50	0.90	NA	NM	NM	NM	NM	NM
MPE-1	23-Sep-20	TBS	40	30-40	37.79	38.69	0.90	NA	NM	NM	NM	NM	NM
MPE-1	23-Nov-20	TBS	40	30-40	37.84	38.69	0.85	NA	NM	NM	NM	NM	NM
MPE-1	17-Mar-21	TBS	40	30-40	36.75	37.22	0.47	NA	NM	NM	NM	NM	NM
MPE-1	17-Jun-21	TBS	40	30-40	36.94	37.13	0.19	NA	NM	NM	NM	NM	NM
MPE-1	29-Sep-21	TBS	40	30-40	37.18	37.40	0.22	NA	NM	NM	NM	NM	NM
MPE-1	30-Nov-21	TBS	40	30-40	37.22	37.39	0.17	NA	NM	NM	NM	NM	NM
MPE-1	08-Mar-22	TBS	40	30-40	--	--	0.01	NA	NM	NM	NM	NM	NM
MPE-1	09-Jun-22	TBS	40	30-40	37.29	37.39	0.10	NA	NM	NM	NM	NM	NM
MPE-1	28-Sep-22	TBS	40	30-40	37.77	37.78	0.01	NA	NM	NM	NM	NM	NM
MPE-1	21-Dec-22	TBS	40	30-40	38.68	38.72	0.04	NA	NM	NM	NM	NM	NM
MPE-1	15-Mar-23	TBS	40	30-40	38.42	38.42	Sheen	NA	NM	NM	NM	NM	NM
MPE-1	22-Jun-23	TBS	40	30-40	38.09	38.43	0.34	NA	NM	NM	NM	NM	NM
MPE-1	13-Sep-23	TBS	40	30-40	39.04	39.04	Sheen	NA	NM	NM	NM	NM	NM
MPE-1	13-Dec-23	TBS	40	30-40	37.67	37.68	0.01	NA	NM	NM	NM	NM	NM
MPE-1	07-Mar-24	TBS	40	30-40	--	37.36	Sheen	NA	NM	NM	NM	NM	NM
MPE-1	29-May-24	TBS	40	30-40	--	37.38	--	NA	NM	NM	NM	NM	NM
MPE-1	05-Sep-24	TBS	40	30-40	--	37.63	--	NA	NM	NM	NM	NM	NM
MPE-1	05-Dec-24	TBS	40	30-40	37.68	37.69	0.01	NA	NM	NM	NM	NM	NM
MPE-1	27-Feb-25	7080.67	40	30-40	--	38.67	Sheen	7042.00	NM	NM	NM	NM	NM
MPE-1	04-Jun-25	7080.67	40	30-41	--	38.83	--	7041.84	NM	NM	NM	NM	NM
MPE-1	28-Aug-25	7080.67	40	30-41	36.39	36.41	0.02	7044.27	NM	NM	NM	NM	NM
MPE-2	10-Mar-20	TBS	39	29-39	--	34.74	--	NA	NM	NM	NM	NM	NM
MPE-2	25-Mar-20	TBS	39	29-39	34.62	34.63	0.01	NA	NM	NM	NM	NM	NM
MPE-2	23-Jun-20	TBS	39	29-39	34.85	34.85	0.00	NA	NM	NM	NM	NM	NM
MPE-2	23-Sep-20	TBS	39	29-39	35.14	35.15	0.01	NA	NM	NM	NM	NM	NM

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MPE-2	23-Nov-20	TBS	39	29-39	35.11	35.13	0.02	NA	NM	NM	NM	NM	NM
MPE-2	17-Mar-21	TBS	39	29-39	--	35.21	--	NA	NM	NM	NM	NM	NM
MPE-2	17-Jun-21	TBS	39	29-39	35.32	35.33	0.01	NA	NM	NM	NM	NM	NM
MPE-2	29-Sep-21	TBS	39	29-39	35.58	35.59	0.01	NA	NM	NM	NM	NM	NM
MPE-2	30-Nov-21	TBS	39	29-39	35.61	35.62	0.01	NA	NM	NM	NM	NM	NM
MPE-2	08-Mar-22	TBS	39	29-39	--	--	0.01	NA	NM	NM	NM	NM	NM
MPE-2	09-Jun-22	TBS	39	29-39	--	35.68	--	NA	NM	NM	NM	NM	NM
MPE-2	28-Sep-22	TBS	39	29-39	35.64	35.65	0.01	NA	NM	NM	NM	NM	NM
MPE-2	21-Dec-22	TBS	39	29-39	--	35.39	--	NA	NM	NM	NM	NM	NM
MPE-2	15-Mar-23	TBS	39	29-39	--	35.29	--	NA	NM	NM	NM	NM	NM
MPE-2	22-Jun-23	TBS	39	29-39	--	--	--	NA	Did not gauge				
MPE-2	13-Sep-23	TBS	39	29-39	35.97	35.98	0.01	NA	NM	NM	NM	NM	NM
MPE-2	13-Dec-23	TBS	39	29-39	--	35.51	--	NA	NM	NM	NM	NM	NM
MPE-2	07-Mar-24	TBS	39	29-39	--	35.53	--	NA	NM	NM	NM	NM	NM
MPE-2	29-May-24	TBS	39	29-39	--	35.51	--	NA	NM	NM	NM	NM	NM
MPE-2	05-Sep-24	TBS	39	29-39	--	35.84	--	NA	NM	NM	NM	NM	NM
MPE-2	27-Feb-25	7079.02	39	29-39	--	39.02	--	7040.00	NM	NM	NM	NM	NM
MPE-2	04-Jun-25	7079.02	39	29-40	--	35.92	--	7043.10	NM	NM	NM	NM	NM
MPE-2	28-Aug-25	7079.02	39	29-40	--	36.13	--	7042.89	NM	NM	NM	NM	NM
MPE-3	10-Mar-20	TBS	38	28-38	34.55	36.39	1.84	NA	NM	NM	NM	NM	NM
MPE-3	25-Mar-20	TBS	38	28-38	34.45	36.24	1.79	NA	NM	NM	NM	NM	NM
MPE-3	23-Jun-20	TBS	38	28-38	34.87	36.05	1.18	NA	NM	NM	NM	NM	NM
MPE-3	23-Sep-20	TBS	38	28-38	35.13	36.66	1.53	NA	NM	NM	NM	NM	NM
MPE-3	23-Nov-20	TBS	38	28-38	35.19	35.58	0.39	NA	NM	NM	NM	NM	NM
MPE-3	17-Mar-21	TBS	38	28-38	35.18	36.05	0.87	NA	NM	NM	NM	NM	NM
MPE-3	17-Jun-21	TBS	38	28-38	35.32	36.07	0.75	NA	NM	NM	NM	NM	NM
MPE-3	29-Sep-21	TBS	38	28-38	35.51	36.61	1.10	NA	NM	NM	NM	NM	NM
MPE-3	30-Nov-21	TBS	38	28-38	35.54	36.71	1.17	NA	NM	NM	NM	NM	NM

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MPE-3	08-Mar-22	TBS	38	28-38	--	--	0.03	NA	NM	NM	NM	NM	NM
MPE-3	09-Jun-22	TBS	38	28-38	35.67	36.34	0.67	NA	NM	NM	NM	NM	NM
MPE-3	28-Sep-22	TBS	38	28-38	35.67	35.98	0.31	NA	NM	NM	NM	NM	NM
MPE-3	21-Dec-22	TBS	38	28-38	35.76	35.81	0.05	NA	NM	NM	NM	NM	NM
MPE-3	15-Mar-23	TBS	38	28-38	36.00	36.03	0.03	NA	NM	NM	NM	NM	NM
MPE-3	22-Jun-23	TBS	38	28-38	35.16	35.32	0.16	NA	NM	NM	NM	NM	NM
MPE-3	13-Sep-23	TBS	38	28-38	34.78	34.81	0.03	NA	NM	NM	NM	NM	NM
MPE-3	13-Dec-23	TBS	38	28-38	--	35.91	--	NA	NM	NM	NM	NM	NM
MPE-3	07-Mar-24	TBS	38	28-38	35.46	35.81	0.35	NA	NM	NM	NM	NM	NM
MPE-3	29-May-24	TBS	38	28-38	35.66	36.03	0.37	NA	NM	NM	NM	NM	NM
MPE-3	05-Sep-24	TBS	38	28-38	36.19	36.39	0.20	NA	NM	NM	NM	NM	NM
MPE-3	05-Dec-24	TBS	38	28-38	36.01	36.24	0.23	NA	NM	NM	NM	NM	NM
MPE-3	27-Feb-25	7079.06	38	28-38	36.25	36.32	0.07	7042.79	NM	NM	NM	NM	NM
MPE-3	04-Jun-25	7079.06	38	28-39	36.41	36.41	Sheen	7042.65	NM	NM	NM	NM	NM
MPE-3	28-Aug-25	7079.06	38	28-39	36.39	36.46	0.07	7042.65	NM	NM	NM	NM	NM
MPE-4	25-Mar-20	TBS	38	28-38	--	--	--	NA	NM - Lower and upper portions of well not aligned due to				
MPE-4	23-Jun-20	TBS	38	28-38	--	--	--	NA					
MPE-4	23-Sep-20	TBS	38	28-38	--	--	--	NA	Well damaged				
MPE-4	23-Nov-20	TBS	38	28-38	--	--	--	NA	Well obstructed at 35.28 ft				
MPE-4	17-Mar-21	TBS	38	28-38	--	--	--	NA	Well obstructed at 35.28 ft				
MPE-4	17-Jun-21	TBS	38	28-38	--	--	--	NA	Well obstructed at 35.28 ft				
MPE-4	29-Sep-21	TBS	38	28-38	--	--	--	NA	Well obstructed at 35.25 ft				
MPE-4	30-Nov-21	TBS	38	28-38	--	--	--	NA	Well obstructed at 35.28 ft				
MPE-4	08-Mar-22	TBS	38	28-38	--	--	--	NA	Well obstructed at 35.25 ft				
MPE-4	09-Jun-22	TBS	38	28-38	--	--	--	NA	Well obstructed				
MPE-4	28-Sep-22	TBS	38	28-38	--	--	--	NA	Well obstructed at 35.27 ft				
MPE-4	21-Dec-22	TBS	38	28-38	--	--	--	NA	Well obstructed				
MPE-4	13-Sep-23	TBS	38	28-38	33.32	--	2.19	NA	Well obstructed at 35.51 ft				

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BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Surveyed TOC (ft)	Total Well Depth	Screen Interval	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MPE-4	13-Dec-23	TBS	38	28-38	--	--	--	NA	Well obstructed at 35.28 ft				
MPE-4	07-Mar-24	TBS	38	28-38	36.49	36.64	0.15	NA	NM	NM	NM	NM	NM
MPE-4	29-May-24	TBS	38	28-38	36.64	36.81	0.17	NA	NM	NM	NM	NM	NM
MPE-4	05-Sep-24	TBS	38	28-38	36.96	37.04	0.08	NA	NM	NM	NM	NM	NM
MPE-4	05-Dec-24	TBS	38	28-38	37.09	37.10	0.01	NA	NM	NM	NM	NM	NM
MPE-4	27-Feb-25	7080.13	38	28-38	--	37.18	--	7042.95	NM	NM	NM	NM	NM
MPE-4	04-Jun-25	7080.13	38	28-39	--	37.32	--	7042.81	NM	NM	NM	NM	NM
MPE-4	28-Aug-25	7080.13	38	28-39	37.33	37.34	0.01	7042.80	NM	NM	NM	NM	NM
MPE-5	10-Mar-20	TBS	40	30-40	37.22	37.92	0.70	NA	NM	NM	NM	NM	NM
MPE-5	25-Mar-20	TBS	40	30-40	37.21	37.83	0.62	NA	NM	NM	NM	NM	NM
MPE-5	23-Jun-20	TBS	40	30-40	37.42	38.10	0.68	NA	NM	NM	NM	NM	NM
MPE-5	23-Sep-20	TBS	40	30-40	37.72	38.35	0.63	NA	NM	NM	NM	NM	NM
MPE-5	23-Nov-20	TBS	40	30-40	37.70	38.29	0.59	NA	NM	NM	NM	NM	NM
MPE-5	17-Mar-21	TBS	40	30-40	37.80	38.41	0.61	NA	NM	NM	NM	NM	NM
MPE-5	17-Jun-21	TBS	40	30-40	37.95	38.28	0.33	NA	NM	NM	NM	NM	NM
MPE-5	29-Sep-21	TBS	40	30-40	37.93	--	--	NA	Well obstructed at 39.3 ft				
MPE-5	30-Nov-21	TBS	40	30-40	39.30	--	0.20	NA	NM	NM	NM	NM	NM
MPE-5	08-Mar-22	TBS	40	30-40	--	--	0.03	NA	NM	NM	NM	NM	NM
MPE-5	09-Jun-22	TBS	40	30-40	38.00	--	1.30	NA	NM	NM	NM	NM	NM
MPE-5	28-Sep-22	TBS	40	30-40	38.00	--	1.30	NA	NM	NM	NM	NM	NM
MPE-5	21-Dec-22	TBS	40	30-40	38.00	39.08	1.08	NA	NM	NM	NM	NM	NM
MPE-5	15-Mar-23	TBS	40	30-40	37.52	39.27	1.75	NA	NM	NM	NM	NM	NM
MPE-5	22-Jun-23	TBS	40	30-40	37.52	39.29	1.77	NA	NM	NM	NM	NM	NM
MPE-5	13-Sep-23	TBS	40	30-40	38.87	36.32	2.55	NA	NM	NM	NM	NM	NM
MPE-5	13-Dec-23	TBS	40	30-40	37.76	39.98	2.22	NA	NM	NM	NM	NM	NM
MPE-5	07-Mar-24	TBS	40	30-40	37.71	39.97	2.26	NA	NM	NM	NM	NM	NM
MPE-5	29-May-24	TBS	40	30-40	38.00	39.93	1.93	NA	NM	NM	NM	NM	NM
MPE-5	05-Sep-24	TBS	40	30-40	38.39	39.82	1.43	NA	NM	NM	NM	NM	NM
MPE-5	05-Dec-24	TBS	40	30-40	36.38	40.06	3.68	NA	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA, 2020 to PRESENT
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Surveyed TOC (ft)	Total Well Depth	Screen Interval	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MPE-5	27-Feb-25	7081.80	40	30-40	38.53	40.22	1.69	7042.89	NM	NM	NM	NM	NM
MPE-5	04-Jun-25	7081.80	40	30-40	38.54	39.79	1.25	7042.98	NM	NM	NM	NM	NM
MPE-5	28-Aug-25	7081.80	40	30-40	38.65	39.97	1.32	7042.85	NM	NM	NM	NM	NM
MPE-6	10-Mar-20	TBS	36	26-36	35.81	35.86	0.05	NA	NM	NM	NM	NM	NM
MPE-6	25-Mar-20	TBS	36	26-36	35.01	35.17	0.16	NA	NM	NM	NM	NM	NM
MPE-6	23-Jun-20	TBS	36	26-36	35.12	36.07	0.95	NA	NM	NM	NM	NM	NM
MPE-6	23-Sep-20	TBS	36	26-36	35.39	36.34	0.95	NA	NM	NM	NM	NM	NM
MPE-6	23-Nov-20	TBS	36	26-36	35.37	36.27	0.60	NA	NM	NM	NM	NM	NM
MPE-6	17-Mar-21	TBS	36	26-36	35.48	36.19	0.71	NA	NM	NM	NM	NM	NM
MPE-6	17-Jun-21	TBS	36	26-36	35.68	36.00	0.32	NA	NM	NM	NM	NM	NM
MPE-6	29-Sep-21	TBS	36	26-36	36.00	36.25	0.25	NA	NM	NM	NM	NM	NM
MPE-6	30-Nov-21	TBS	36	26-36	35.94	36.28	0.34	NA	NM	NM	NM	NM	NM
MPE-6	08-Mar-22	TBS	36	26-36	--	--	0.01	NA	NM	NM	NM	NM	NM
MPE-6	09-Jun-22	TBS	36	26-36	36.03	36.16	0.13	NA	NM	NM	NM	NM	NM
MPE-6	28-Sep-22	TBS	36	26-36	36.13	36.21	0.08	NA	NM	NM	NM	NM	NM
MPE-6	21-Dec-22	TBS	36	26-36	36.31	36.33	0.02	NA	NM	NM	NM	NM	NM
MPE-6	15-Mar-23	TBS	36	26-36	35.65	35.65	Sheen	NA	NM	NM	NM	NM	NM
MPE-6	22-Jun-23	TBS	36	26-36	35.39	35.39	Sheen	NA	NM	NM	NM	NM	NM
MPE-6	13-Sep-23	TBS	36	26-36	35.59	35.59	Sheen	NA	NM	NM	NM	NM	NM
MPE-6	13-Dec-23	TBS	36	26-36	--	36.00	--	NA	NM	NM	NM	NM	NM
MPE-6	07-Mar-24	TBS	36	26-36	--	35.82	Sheen	NA	NM	NM	NM	NM	NM
MPE-6	29-May-24	TBS	36	26-36	--	36.49	--	NA	NM	NM	NM	NM	NM
MPE-6	05-Sep-24	TBS	36	26-36	--	36.64	--	NA	NM	NM	NM	NM	NM
MPE-6	05-Dec-24	TBS	36	26-36	36.65	36.66	0.01	NA	NM	NM	NM	NM	NM
MPE-6	27-Feb-25	7079.37	36	26-36	--	37.10	--	7042.27	NM	NM	NM	NM	NM
MPE-6	04-Jun-25	7079.37	36	26-36	--	36.84	--	7042.53	NM	NM	NM	NM	NM
MPE-6	28-Aug-25	7079.37	36	26-36	36.99	37.00	0.01	7042.37	NM	NM	NM	NM	NM
MPE-7	25-Mar-20	TBS	36	26-36	--	32.85	--	NA	NM	NM	NM	NM	NM

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BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Surveyed TOC (ft)	Total Well Depth	Screen Interval	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MPE-7	23-Jun-20	TBS	36	26-36	--	33.12	--	NA	NM	NM	NM	NM	NM
MPE-7	23-Sep-20	TBS	36	26-36	--	33.43	--	NA	NM	NM	NM	NM	NM
MPE-7	23-Nov-20	TBS	36	26-36	--	33.34	--	NA	NM	NM	NM	NM	NM
MPE-7	17-Mar-21	TBS	36	26-36	--	33.50	--	NA	NM	NM	NM	NM	NM
MPE-7	17-Jun-21	TBS	36	26-36	--	33.57	--	NA	NM	NM	NM	NM	NM
MPE-7	29-Sep-21	TBS	36	26-36	--	33.80	--	NA	NM	NM	NM	NM	NM
MPE-7	30-Nov-21	TBS	36	26-36	--	33.86	--	NA	NM	NM	NM	NM	NM
MPE-7	08-Mar-22	TBS	36	26-36	--	33.81	--	NA	NM	NM	NM	NM	NM
MPE-7	09-Jun-22	TBS	36	26-36	--	33.92	--	NA	NM	NM	NM	NM	NM
MPE-7	28-Sep-22	TBS	36	26-36	--	33.88	--	NA	NM	NM	NM	NM	NM
MPE-7	21-Dec-22	TBS	36	26-36	--	33.64	--	NA	NM	NM	NM	NM	NM
MPE-7	22-Jun-23	TBS	36	26-36	--	33.22	--	NA	NM	NM	NM	NM	NM
MPE-7	13-Sep-23	TBS	36	26-36	--	33.91	--	NA	NM	NM	NM	NM	NM
MPE-7	13-Dec-23	TBS	36	26-36	--	33.64	--	NA	NM	NM	NM	NM	NM
MPE-7	07-Mar-24	TBS	36	26-36	--	33.58	--	NA	NM	NM	NM	NM	NM
MPE-7	29-May-24	TBS	36	26-36	--	33.74	--	NA	NM	NM	NM	NM	NM
MPE-7	05-Sep-24	TBS	36	26-36	--	34.03	--	NA	NM	NM	NM	NM	NM
MPE-7	27-Feb-25	7077.09	36	26-36	--	34.14	--	7042.95	NM	NM	NM	NM	NM
MPE-7	04-Jun-25	7077.09	36	26-36	--	34.14	--	7042.95	NM	NM	NM	NM	NM
MPE-7	28-Aug-25	7077.09	36	26-36	--	34.36	--	7042.73	NM	NM	NM	NM	NM
MW-2	25-Mar-20	7079.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	23-Jun-20	7079.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	23-Sep-20	7079.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	23-Nov-20	7079.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	17-Mar-21	7079.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	17-Jun-21	7097.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	29-Sep-21	7097.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	30-Nov-21	7097.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	08-Mar-22	7097.94	40	25-40	--	Dry	--	NA	NM - Well dry				

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BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Surveyed TOC (ft)	Total Well Depth	Screen Interval	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-2	09-Jun-22	7097.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	28-Sep-22	7097.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	21-Dec-22	7097.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	22-Jun-23	7097.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	13-Sep-23	7097.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	13-Dec-23	7097.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	07-Mar-24	7097.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	29-May-24	7097.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	05-Sep-24	7097.94	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	27-Feb-25	7075.32	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	04-Jun-25	7075.32	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-2	28-Aug-25	7075.32	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-7	25-Mar-20	7090.15	40	25-40	--	40.61	--	7049.54	12.5	2.00	1.78	7.13	168.9
MW-7	23-Jun-20	7090.15	40	25-40	--	40.85	--	7049.30	19.4	1.96	4.38	7.53	167.6
MW-7	23-Sep-20	7090.15	40	25-40	--	41.14	--	7049.01	NM	NM	NM	NM	NM
MW-7	23-Nov-20	7090.15	40	25-40	--	41.16	--	7048.99	NM	NM	NM	NM	NM
MW-7	17-Mar-21	7090.15	40	25-40	--	41.23	--	7048.92	NM	NM	NM	NM	NM
MW-7	17-Jun-21	7090.15	40	25-40	--	41.36	--	7048.79	NM	NM	NM	NM	NM
MW-7	29-Sep-21	7090.15	40	25-40	--	44.54	--	7045.61	NM	NM	NM	NM	NM
MW-7	30-Nov-21	7090.15	40	25-40	--	41.67	--	7048.48	NM	NM	NM	NM	NM
MW-7	08-Mar-22	7090.15	40	25-40	--	41.63	--	7048.52	NM	NM	NM	NM	NM
MW-7	09-Jun-22	7090.15	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-7	28-Sep-22	7090.15	40	25-40	--	Dry	--	NA	NM - Well dry				
MW-7	21-Dec-22	7090.15	40	25-40	--	41.50	--	7048.65	NM	NM	NM	NM	NM
MW-7	22-Jun-23	7090.15	40	25-40	--	41.09	--	7049.06	NM	NM	NM	NM	NM
MW-7	13-Sep-23	7090.15	40	25-40	--	Dry	--	Dry	NM - Well dry				
MW-7	13-Dec-23	7090.15	40	25-40	--	41.43	--	7048.72	NM	NM	NM	NM	NM
MW-7	07-Mar-24	7090.15	40	25-40	--	41.44	--	7048.71	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA, 2020 to PRESENT
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Surveyed TOC (ft)	Total Well Depth	Screen Interval	Depth to NAPL (ft)	Depth to Water (ft)	NAPL Thickness (ft)	GW Elev. (ft)	Temp. (°C)	Specific Conduct. (mS)	Dissolved Oxygen (mg/L)	pH	ORP (mV)
MW-7	29-May-24	7090.15	40	25-40	--	41.59	--	7048.56	NM	NM	NM	NM	NM
MW-7	05-Sep-24	7090.15	40	25-40	--	41.86	--	7048.29	NM	NM	NM	NM	NM
MW-7	27-Feb-25	7085.61	40	25-40	--	42.04	--	7043.57	NM	NM	NM	NM	NM
MW-7	04-Jun-25	7085.61	40	25-40	--	42.00	--	7043.61	NM	NM	NM	NM	NM
MW-7	28-Aug-25	7085.61	40	25-40	--	42.17	--	7043.44	NM	NM	NM	NM	NM
MW-9R	10-Mar-20	TBS	38	28-38	--	35.20	--	NA	NM	NM	NM	NM	NM
MW-9R	25-Mar-20	TBS	38	28-38	35.07	35.12	0.05	NA	NM	NM	NM	NM	NM
MW-9R	23-Jun-20	TBS	38	28-38	35.30	35.37	0.07	NA	NM	NM	NM	NM	NM
MW-9R	23-Sep-20	TBS	38	28-38	35.57	35.86	0.29	NA	NM	NM	NM	NM	NM
MW-9R	23-Nov-20	TBS	38	28-38	35.55	35.70	0.15	NA	NM	NM	NM	NM	NM
MW-9R	17-Mar-21	TBS	38	28-38	35.66	35.76	0.10	NA	NM	NM	NM	NM	NM
MW-9R	17-Jun-21	TBS	38	28-38	35.77	35.89	0.12	NA	NM	NM	NM	NM	NM
MW-9R	29-Sep-21	TBS	38	28-38	36.01	36.14	0.13	NA	NM	NM	NM	NM	NM
MW-9R	30-Nov-21	TBS	38	28-38	36.05	36.28	0.23	NA	NM	NM	NM	NM	NM
MW-9R	08-Mar-22	TBS	38	28-38	--	--	0.01	NA	NM	NM	NM	NM	NM
MW-9R	09-Jun-22	TBS	38	28-38	36.15	37.14	0.99	NA	NM	NM	NM	NM	NM
MW-9R	28-Sep-22	TBS	38	28-38	36.11	36.15	0.04	NA	NM	NM	NM	NM	NM
MW-9R	21-Dec-22	TBS	38	28-38	35.88	35.89	0.01	NA	NM	NM	NM	NM	NM
MW-9R	15-Mar-23	TBS	38	28-38	--	37.52	--	NA	NM	NM	NM	NM	NM
MW-9R	22-Jun-23	TBS	38	28-38	--	--	--	NA	Did not gauge				
MW-9R	13-Sep-23	TBS	38	28-38	35.49	35.49	Sheen	NA	NM	NM	NM	NM	NM
MW-9R	13-Dec-23	TBS	38	28-38	--	35.86	Sheen	NA	NM	NM	NM	NM	NM
MW-9R	07-Mar-24	TBS	38	28-38	--	35.83	--	NA	NM	NM	NM	NM	NM
MW-9R	29-May-24	TBS	38	28-38	--	35.98	--	NA	NM	NM	NM	NM	NM
MW-9R	05-Sep-24	TBS	38	28-38	36.28	36.31	0.03	NA	NM	NM	NM	NM	NM
MW-9R	05-Dec-24	TBS	38	28-38	--	36.88	Sheen	NA	NM	NM	NM	NM	NM
MW-9R	27-Feb-25	7079.48	38	28-38	--	36.87	--	7042.61	NM	NM	NM	NM	NM
MW-9R	04-Jun-25	7079.48	38	28-38	--	36.88	--	7042.60	NM	NM	NM	NM	NM

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SUMMARY OF GROUNDWATER MEASUREMENT AND WATER QUALITY DATA, 2020 to PRESENT
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

<i>Well ID</i>	<i>Date Sampled</i>	<i>Surveyed TOC (ft)</i>	<i>Total Well Depth</i>	<i>Screen Interval</i>	<i>Depth to NAPL (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>	<i>GW Elev. (ft)</i>	<i>Temp. (°C)</i>	<i>Specific Conduct. (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>pH</i>	<i>ORP (mV)</i>
MW-9R	28-Aug-25	7079.48	38	28-38	--	36.59	--	7042.89	NM	NM	NM	NM	NM

NOTES:

NA - NOT AVAILABLE
NM - NOT MEASURED
NS - NOT SAMPLED
TBS - TO BE SURVEYED

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
Analytical Method		8021/8260	8021/826	8021/8260	8021/8260	8015D	8015M/D	8015M/D
New Mexico WQCC		5	1000	700	620	NE	NE	NE
MW-1	05-May-08	<1.0	<1.0	<1.0	<2.0	0.092	<1.0	<5.0
MW-1	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	10-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-1	07-Aug-17	Plugged and abandoned						
MW-2	05-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-2	13-Oct-10	NS - Well filled with roots						
MW-2	20-Jan-11	NS - Well filled with roots						
MW-2	10-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	05-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	07-Jul-09	NS - Well filled with sediment						
MW-3	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	10-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-3	07-Aug-17	Plugged and abandoned						
MW-4	05-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
Analytical Method		8021/8260	8021/826	8021/8260	8021/8260	8015D	8015M/D	8015M/D
New Mexico WQCC		5	1000	700	620	NE	NE	NE
MW-4	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	09-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-4	07-Aug-17	Plugged and abandoned						
MW-5	05-May-08	NS - Well dry						
MW-5	07-Aug-17	Plugged and abandoned						
MW-6	05-May-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	24-Sep-08	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	09-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-6	07-Aug-17	Plugged and abandoned						
MW-7	05-May-08	2.8	<1.0	<1.0	<2.0	0.40	<1.0	<5.0
MW-7	24-Sep-08	<1.0	<1.0	<1.0	<2.0	0.069	<1.0	<5.0
MW-7	02-Jan-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	07-Apr-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	07-Jul-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	12-Oct-09	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	12-Jan-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	13-Oct-10	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	20-Jan-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-7	09-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	05-May-08	26	10	<1.0	<2.0	1.10	<1.0	<5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
Analytical Method		8021/8260	8021/826	8021/8260	8021/8260	8015D	8015M/D	8015M/D
New Mexico WQCC		5	1000	700	620	NE	NE	NE
MW-8	24-Sep-08	65	26	<1.0	<2.0	0.90	<1.0	<5.0
MW-8	05-Jan-09	45	25	<1.0	2.2	1.0	<1.0	<5.0
MW-8	07-Apr-09	25	20	<1.0	2.9	0.89	<1.0	<5.0
MW-8	07-Jul-09	7.5	4.5	<1.0	<2.0	0.21	<1.0	<5.0
MW-8	12-Oct-09	15	11	<1.0	<2.0	0.52	<1.0	<5.0
MW-8	12-Jan-10	<1.0	<1.0	<1.0	<2.0	0.088	<1.0	<5.0
MW-8	13-Oct-10	12	<1.0	1.7	16	0.25	<1.0	<5.0
MW-8	20-Jan-11	35	<1.0	6.5	6.3	0.16	<1.0	<5.0
MW-8	10-May-11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	15-Aug-11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0
MW-8	21-Nov-11	<2.0	<2.0	<2.0	<4.0	<0.10	2.2	<5.0
MW-8	21-Feb-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0
MW-8	24-May-12	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0	<5.0
MW-8	21-Sep-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	04-Dec-12	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	26-Mar-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	26-Jun-13	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0	<5.0
MW-8	07-Aug-17	Plugged and abandoned						
MW-9	05-May-08	6.2	7.5	<1.0	2.3	0.90	<1.0	<5.0
MW-9	24-Sep-08	17	12	<1.0	<2.0	0.32	<1.0	<5.0
MW-9	05-Jan-09	NS - Well dry						
MW-9	07-Apr-09	12	6.2	<1.0	<2.0	0.32	<1.0	<5.0
MW-9	07-Jul-09	7.0	5.3	<1.0	<2.0	0.28	<1.0	<5.0
MW-9	12-Oct-09	26	2.0	<1.0	<2.0	0.31	<1.0	<5.0
MW-9	12-Jan-10	NAPL present through current date						
MW-9R	25-Sep-19	<1.0	<1.0	56	80	0.87	<1.0	<5.0
MW-9R	25-Mar-20	<2.0	<2.0	50	44	0.66	1.2	<5.0
MW-9R	23-Jun-20	<1.0	<1.0	11	23	0.86	46	20
MW-9R	23-Sep-20	<5.0	<5.0	38	100	3.8	550	270
MW-9R	23-Nov-20	<5.0	<5.0	12	29	1.0	250	120
MW-9R	17-Mar-21	<1.0	<1.0	<1.0	6.7	2.9	220	98
MW-9R	29-Sep-21	NS - Insufficient water						
MW-9R	30-Nov-21	NS - Insufficient water						
MW-9R	08-Mar-22	NS - Insufficient water						
MW-9R	09-Jun-22	NS - Insufficient water						
MW-9R	28-Sep-22	<2.0	<2.0	<2.0	<3.0	NA	NA	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS -
VOLATILE ORGANICS AND PETROLEUM HYDROCARBONS
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Date Sampled	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl- benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	TPH-GRO (mg/L)	TPH-DRO (mg/L)	TPH-MRO (mg/L)
Analytical Method		8021/8260	8021/826	8021/8260	8021/8260	8015D	8015M/D	8015M/D
New Mexico WQCC		5	1000	700	620	NE	NE	NE
MW-9R	21-Dec-22	<2.0	<2.0	<2.0	<3.0	0.24	NA	NA
MW-9R	13-Dec-23	<2.0	<2.0	<2.0	<3.0	0.34	31	13
MW-9R	05-Dec-24	<0.23	<0.25	<0.21	<0.37	0.054	36	17

NOTES:

NS - Not Sampled
 NA - Not Analyzed
 TPH - Total Petroleum Hydrocarbons
 GRO - Gasoline Range Organics
 DRO - Diesel Range Organics
 MRO - Motor Oil Range Organics

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - WQCC GROUNDWATER STANDARDS
(NMAC 20.6.2.3103)
BMG HWY 537 LLAVES PIPELINE 2008 OIL RELEASE
Rio Arriba County, New Mexico

Well ID	Sample Date	Total Dissolved Solids	Dissolved Iron	Dissolved Manganese	Phenols
Analytical Method		2540C	200.7/6010B	200.7/6010B	SW-846 9067
NM WQCC Standard		1,000	1.0	0.2	0.005
MW-7	23-Jun-20	NA	0.11	0.18	NA
MW-7	13-Dec-23	980	NA	NA	NA
MW-9R	25-Sep-19	1,040	4.2 (T)	3.3 (T)	0.0042
MW-9R	25-Mar-20	NA	1.9	2.5	NA
MW-9R	6-Oct-22	NA	0.0096	0.0041	0.016
MW-9R	13-Dec-23	1,100	1.1	3.9	<0.003
MW-9R	5-Dec-24	1,200	0.070	2.8	0.23
MPE-5	13-Dec-23	2,910	NA	NA	NA

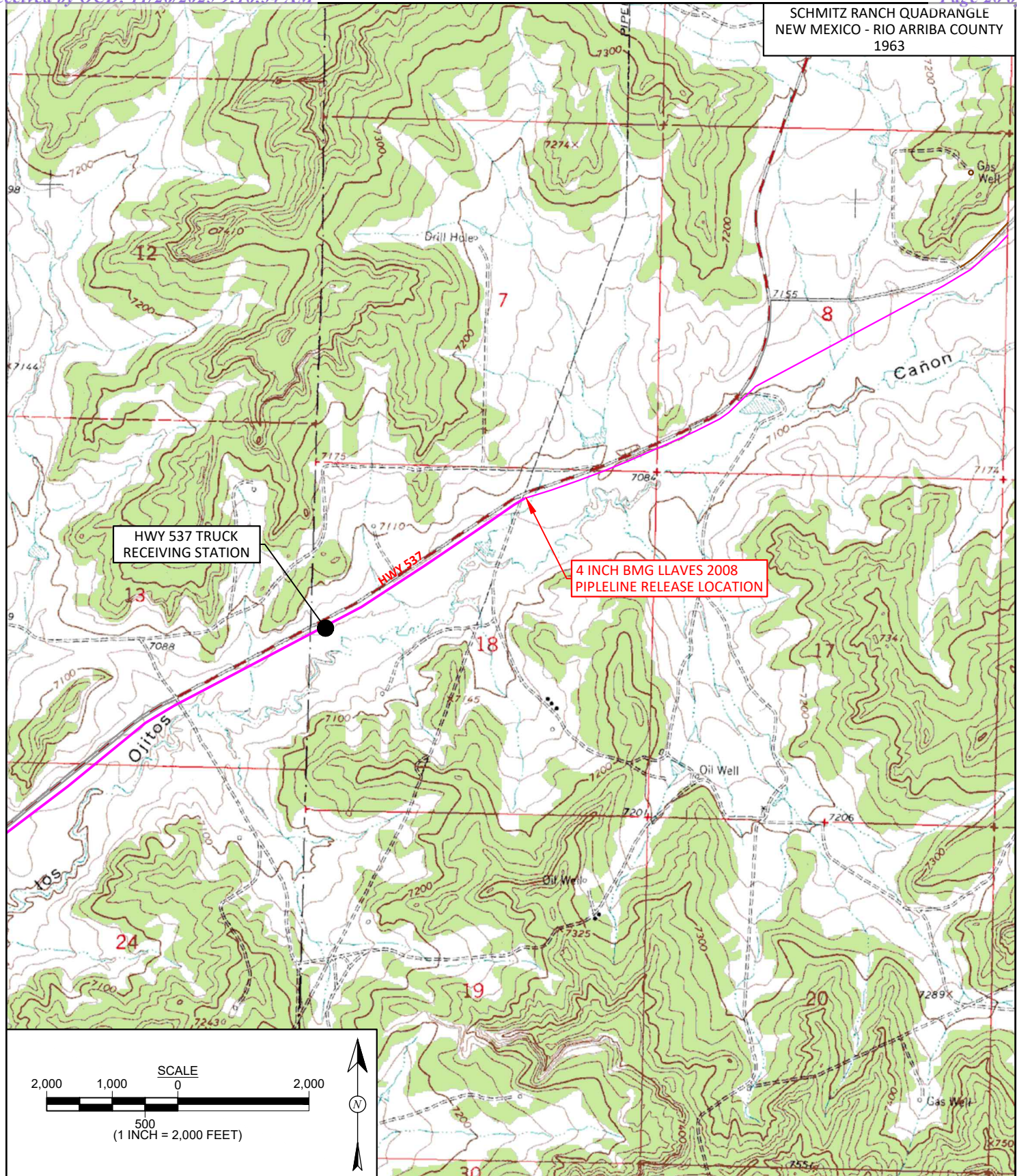
NOTES:

< Analyte not detected above listed method limit
 NA Not analyzed
 NE Not established
 (T) Total

All standards and analytical results are reported in milligrams per liter (mg/L).

Bold where results are above WQCC standards.

Figures



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DRAWN BY:
C. Lameman

DATE DRAWN:
March 3, 2017

REVISIONS BY:
C. Lameman

DATE REVISED:
November 3, 2025

CHECKED BY:
J. Liesse

DATE CHECKED:
November 3, 2025

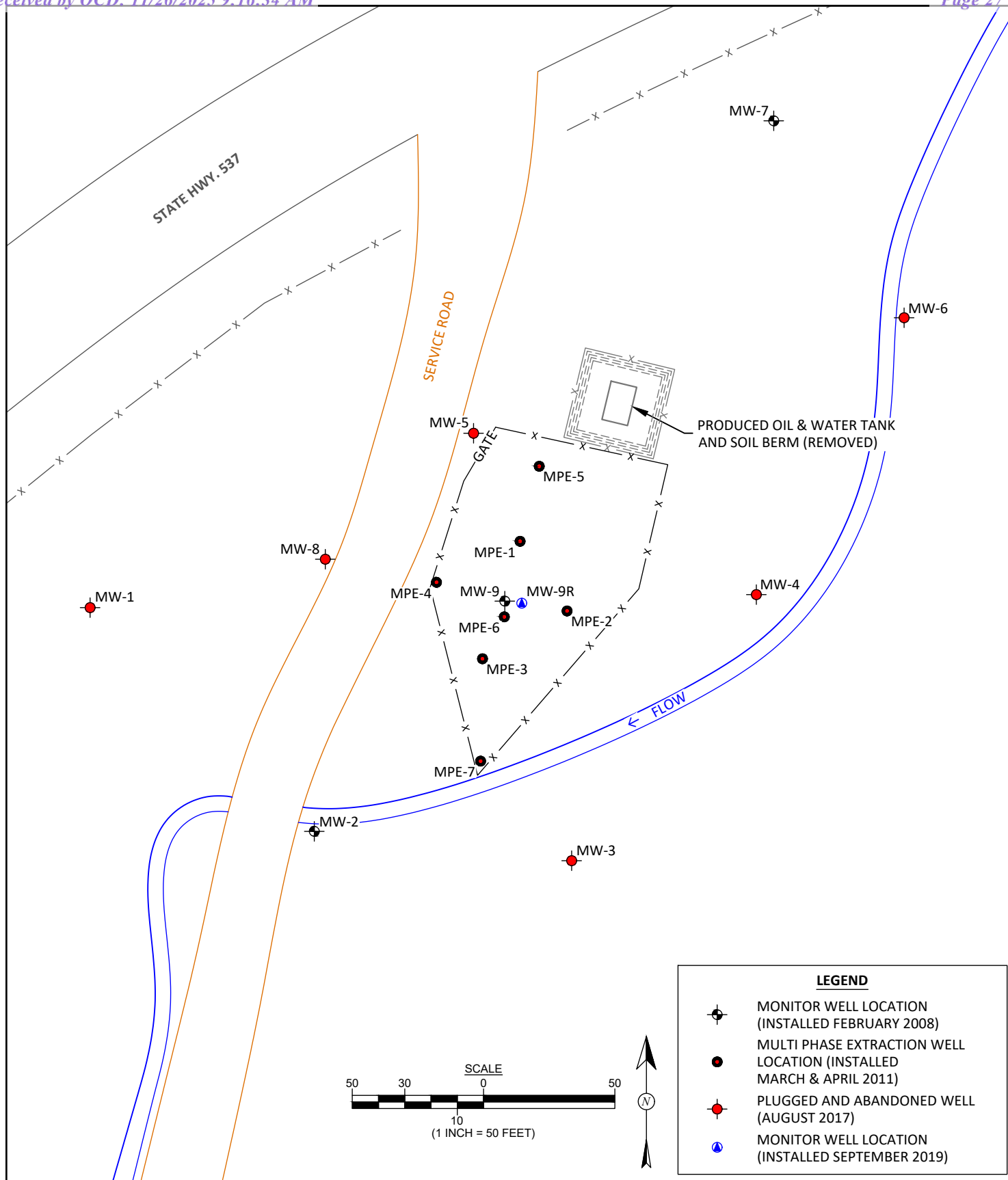
APPROVED BY:
E. McNally

DATE APPROVED:
November 3, 2025

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

BMG HIGHWAY 537
LLAVES 2008 PIPELINE OIL RELEASE
NW $\frac{1}{4}$ NE $\frac{1}{4}$, SECTION 18, T25N, R3W
RIO ARriba COUNTY, NEW MEXICO
N36.40357, W107.18422



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DRAWN BY:
C. Lameman

DATE DRAWN:
March 3, 2017

REVISIONS BY:
C. Lameman

DATE REVISED:
November 3, 2025

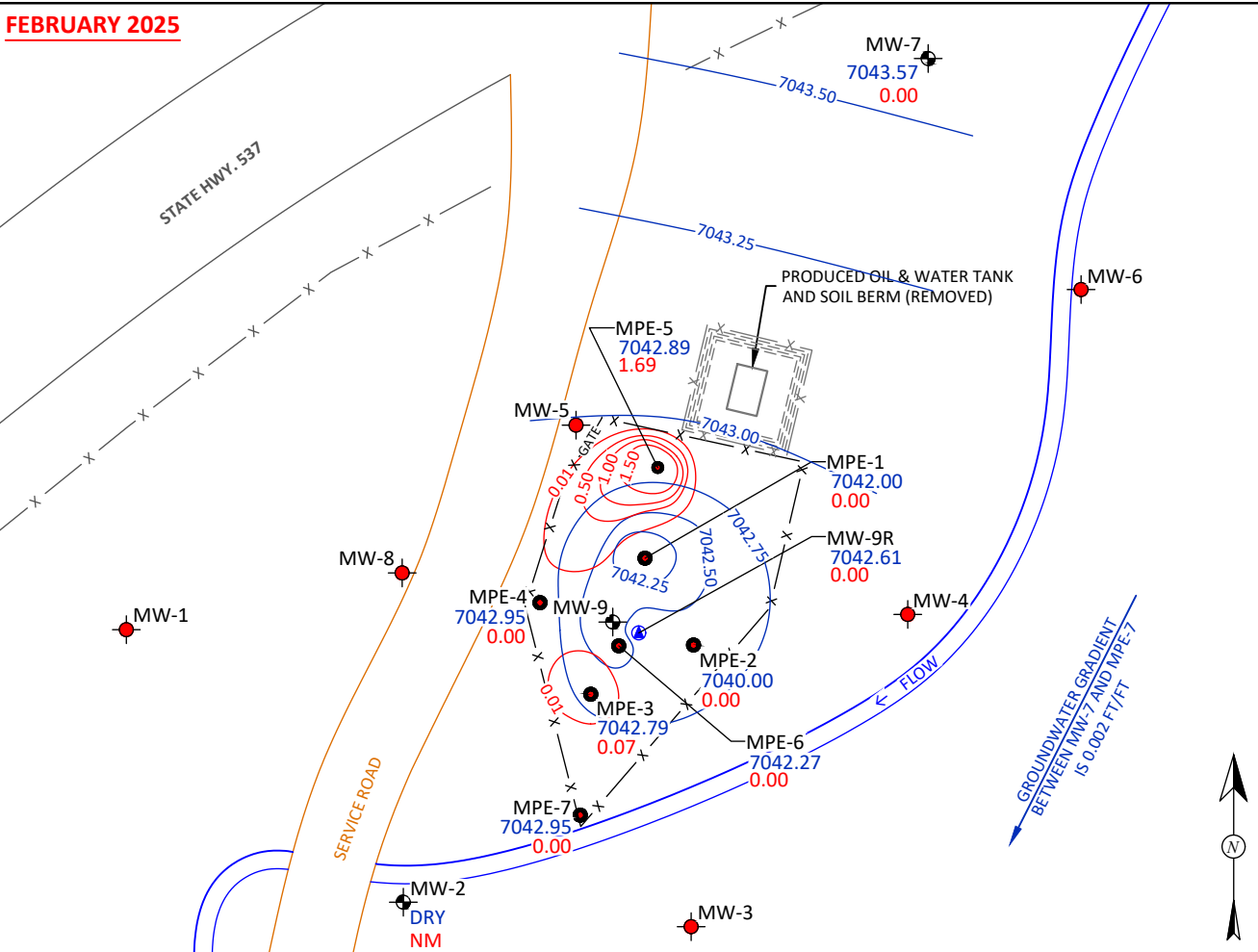
CHECKED BY:
J. Liesse

DATE CHECKED:
November 3, 2025

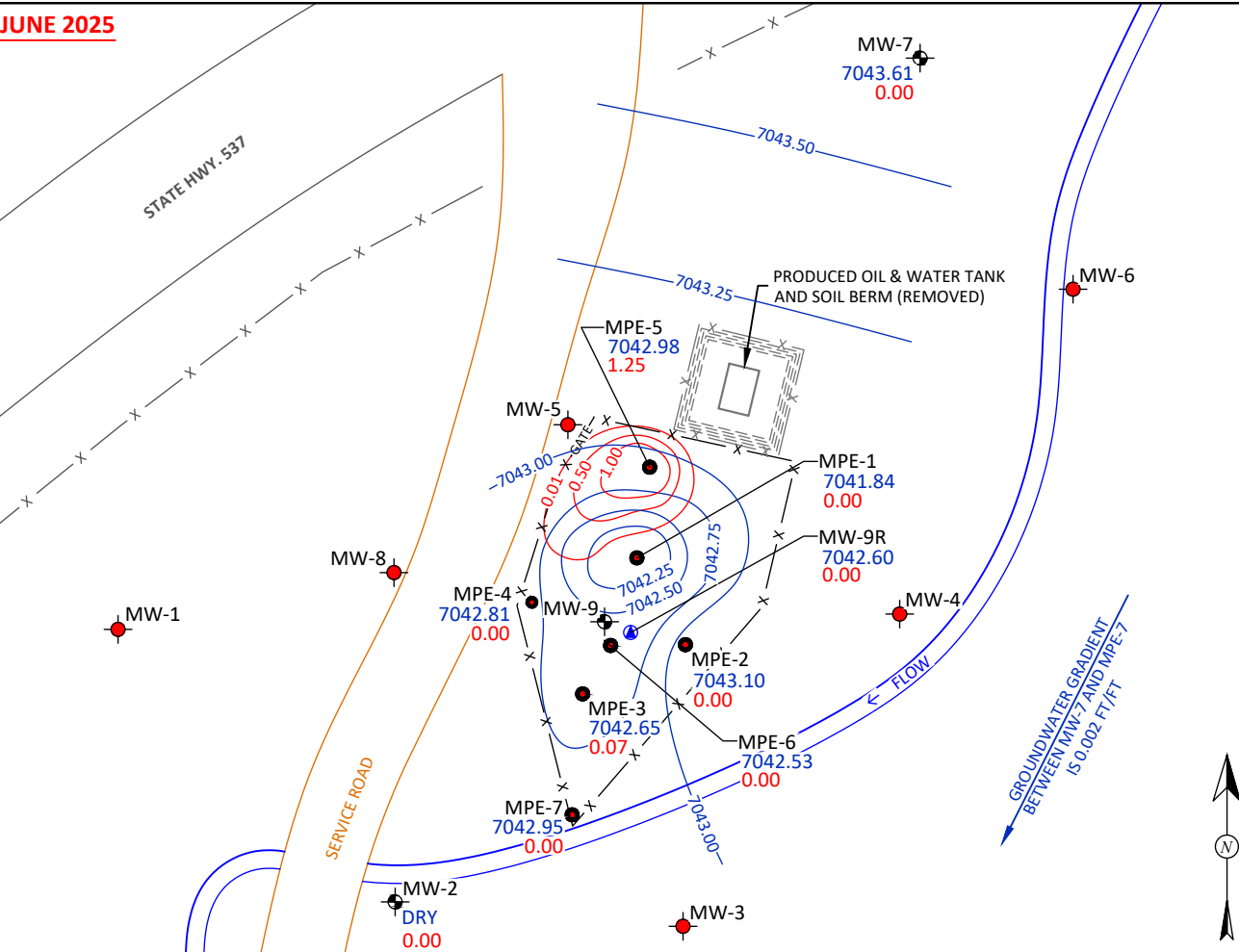
APPROVED BY:
E. McNally

DATE APPROVED:
November 3, 2025

FEBRUARY 2025



JUNE 2025



AUGUST 2025

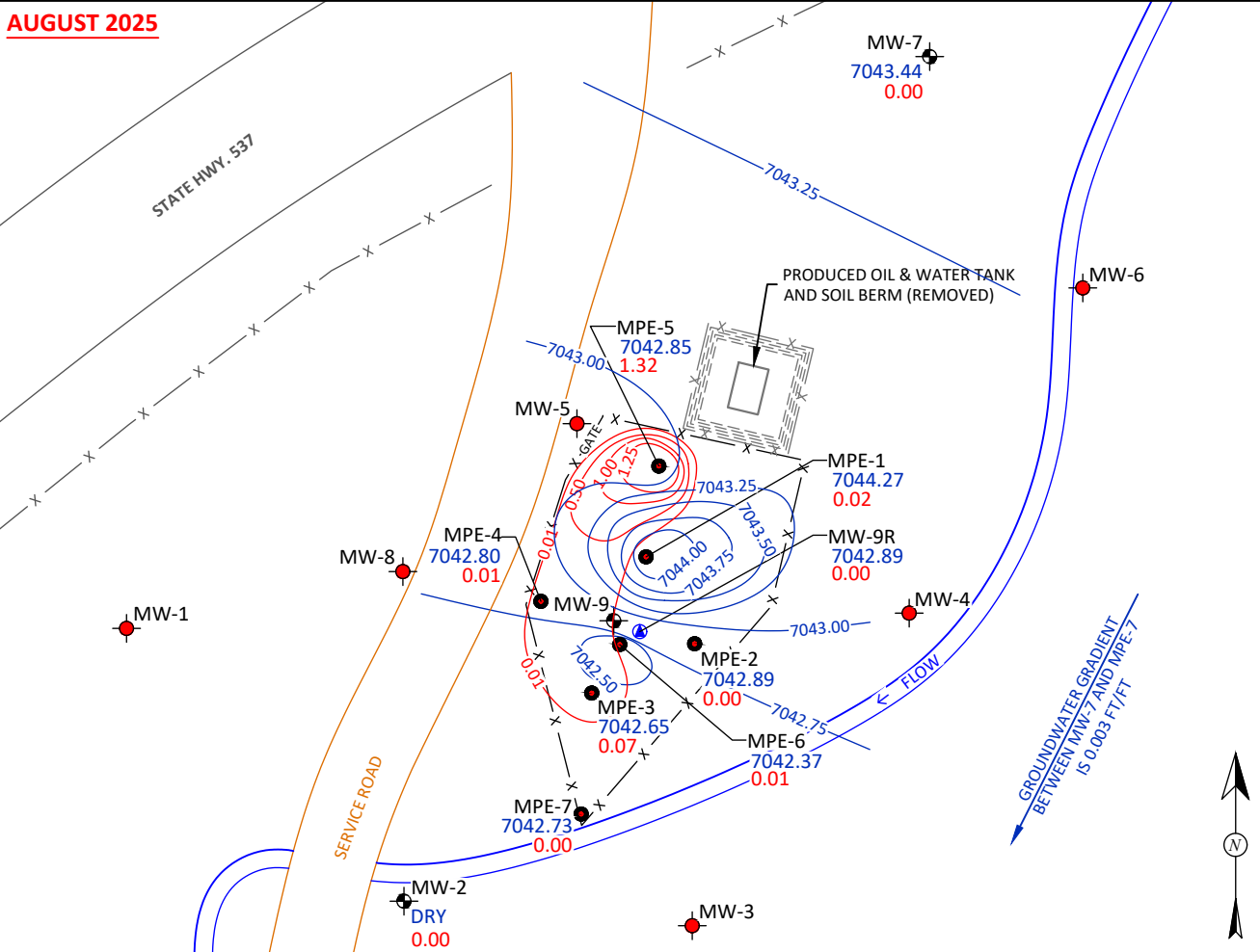


FIGURE 3

2025 GROUNDWATER ELEVATION CONTOURS AND RESIDUAL NAPL CONTOURS

BMG HIGHWAY 537
LLAVES 2008 PIPELINE OIL RELEASE
NW¼ NE¼, SECTION 18, T25N, R3W
RIO ARRIBA COUNTY, NEW MEXICO
N36.40357, W107.18422

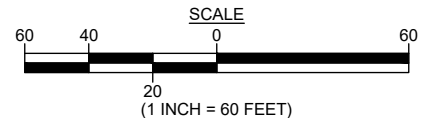


DRAWN BY: C. Lameman	DATE DRAWN: June 16, 2022
REVISIONS BY: C. Lameman	DATE REVISED: November 3, 2025
CHECKED BY: J. Liesse	DATE CHECKED: November 3, 2025
APPROVED BY: E. McNally	DATE APPROVED: November 3, 2025

LEGEND

- MONITOR WELL LOCATION (INSTALLED FEBRUARY 2008)
- MULTI PHASE EXTRACTION WELL LOCATION (INSTALLED MARCH & APRIL 2011)
- PLUGGED AND ABANDONED WELL (AUGUST 2017)
- MONITOR WELL LOCATION (INSTALLED SEPTEMBER 2019)
- GROUNDWATER ELEVATION IN FEET (AMSL)
- GROUNDWATER ELEVATION CONTOUR IN FEET (AMSL)
- NAPL THICKNESS IN FEET
- NAPL THICKNESS CONTOURS IN FEET

NOTE: GROUNDWATER MEASUREMENTS WERE COLLECTED ON FEBRUARY 27, JUNE 4 AND AUGUST 28, 2025. **MPE-2 WAS NOT INCLUDED IN CONTOURING FOR FEBRUARY 2025 EVENT.**



Appendix

624 E. Comanche St, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project No.:

Date: 02.27.25

Time: 09:55

Form: 1 of 1

Time period NAPL has been collected from here:

Wells measured with KECK water level or KECK interface tape and decontaminated between each well measurement.

NAPL Recovery Form						Animas Environmental Services 624 E. Comanche St., Farmington NM 87401 animasenvironmental.com (505) 564-2281			
Site:		BMG Hwy 537 2008 Release				Project No.:		080101	
Location:		Hwy 537, Rio Arriba County, New Mexico				Date:		2-27-05	
Project:		NAPL Recovery				Arrival Time:		09:50	
Sampling Technician:		Jessica Liesel				Air Temp:		44°F	
Well ID	Start Time/End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
MPE-3	10:15 10:38	36.25	36.32	0.07	—	36.33	0	0.75 gal	replaced sock 150 mL NAPL
Well ID	Start Time/End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
MPE-5	11:12 11:41	38.53	40.22	1.69	38.61	38.89	0.28	0.75 gal	replaced sock 1450 mL NAPL
Well ID	Start Time/End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
Well ID	Start Time/End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
Well ID	Start Time/End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
Well ID	Start Time/End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
Purged NAPL and Water Storage, Transport, and Disposal Information:									
disposed in on site barrel									

Released to Imaging: 12/10/2025 2:16:59 PM

NAPL Recovery Form						Animas Environmental Services 624 E. Comanche St., Farmington NM 87401 animasenvironmental.com (505) 564-2281			
Site:		BMG Hwy 537 2008 Release				Project No.:		080101	
Location:		Hwy 537, Rio Arriba County, New Mexico				Date:		06/04/2025	
Project:		NAPL Recovery				Arrival Time:		13:10	
Sampling Technician:		JO				Air Temp:		62° Cloudy -	
Well ID	Start Time/End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
MPE-3	13:21 13:39	36.41	36.41	Small Sheen?	36.41	36.41	Sheen	0	Sock Changed / Probe did not detect NAPL - NAPL seen on probe - check 28
MPE-6	13:42 13:54	0	36.84	0	0	36.84	0	0	Sock Changed / Probe did not detect NAPL
MPE-4	13:58 14:10	0	37.32	0	0	37.32	0	0	Sock Changed / Probe did not detect NAPL
MPE-1	14:16 14:23	0	38.83	0	0	38.83	0		Sock Changed / Probe did not detect NAPL
MPE-5	14:27 14:40	38.54	39.79	1.25	38.54	39.79	1.25	0	sock changed Interruption due to storm
Well ID	Start Time/End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
Purged NAPL and Water Storage, Transport, and Disposal Information:									
@ 14:33 NAPL FROM MPE-5 NOT collected due to lightning/storm onset greater than 30 mins Recovery attempt to be made on 06/06/2025 of MPE-5. -JO									

Animas Environmental Services

Tel. (505) 564-2281 Fax (505) 324-2022

Project No.:

Date: 08/28/25

Time: 14:18

Form: 1 of 1

Wells measured with KECK water level or KECK interface tape and decontaminated between each well measurement.

NAPL Recovery Form						Animas Environmental Services 624 E. Comanche St., Farmington NM 87401 animasenvironmental.com (505) 564-2281			
Site:		BMG Hwy 537 2008 Release				Project No.:		080101	
Location:		Hwy 537, Rio Arriba County, New Mexico				Date:		8/25/2025	
Project:		NAPL Recovery				Arrival Time:		14:18	
Sampling Technician:			JO			Air Temp:		77 Degrees	
Well ID	Start Time/ End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
MPE-3	15:01/15:22	36.39	36.46	0.07	36.57	36.62	0.05	0.5	Sock Replaced/Good Recharge Rate
Well ID	Start Time/ End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
MPE-6	15:27/15:34	36.99	37	0.01	36.99	37	0.01	0	Sock Replaced
Well ID	Start Time/ End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
MPE-4	15:36/15:42	37.33	37.34	0.01	37.33	37.34	0.01	0	Sock Replaced
Well ID	Start Time/ End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
MW-9R	15:44/15:56	ND	36.59	N/A	ND	36.59	N/A	0	Sock Replaced
Well ID	Start Time/ End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
MPE-1	15:58/16:15	36.39	36.41	0.02	36.39	36.41	0.02	0	Sock Replaced
Well ID	Start Time/ End Time	Initial Depth to NAPL (ft.)	Initial Depth to Water (ft.)	Initial NAPL Thickness (ft.)	Final Depth to NAPL (ft.)	Final Depth to Water (ft.)	Final NAPL Thickness (ft.)	Purged Volume (gal.)	Method / Notes / Observations
MPE-5	16:20/16:47	38.65	39.97	1.32	39.26	39.28	0.02	1.75	Sock Replaced
Purged NAPL and Water Storage, Transport, and Disposal Information: Purged amounts include NAPL from sock. All NAPL collected was stored in onsite containment barrel.									

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 530197

CONDITIONS

Operator: BENSON-MONTIN-GREER DRILLING CORP 4900 College Blvd. Farmington, NM 87402	OGRID: 2096
	Action Number: 530197
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Report accepted for record.	12/10/2025
amaxwell	The following activities are approved: Submit a revised Stage 1 and 2 Abatement Plan; ? Continued recovery of residual NAPL via oleophilic/hydrophobic socks where NAPL thickness is sufficient for removal, and hand-bailing as necessary; ? Fluid gauging of all wells; and ? Conduct sampling of MW-9R for VOCs per USEPA 8260, TPH (GRO, DRO, MRO) per USEPA 8015, dissolved iron and manganese per USEPA 200.8/6010, TDS per SM2540C, and phenols per SW-846 9067.	12/10/2025