



CLOSURE REPORT

Property:

**Dos Equis Fed Com 12-3H
Incident ID #: nRM2025348983
Unit C, S12, T24S, R32E Lea County, New Mexico**

April 14, 2021
Apex Project No. 725070635031

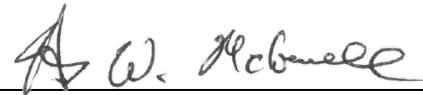
Prepared for:

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CLOSURE REPORT

Dos Equis 12 Federal Com 3H Release

Unit C, S12, T24S, R32E
Lea County, New Mexico

Apex Project No. 725070635031

1.0 INTRODUCTION

1.1 Site Description & Background

The Dos Equis Fed Com 12-3H Release site, incident ID number nRM2025348983, referred to hereinafter as the "Site", is located within Unit C, Section 12, Township 24 South, Range 32 East, in rural Lea County, New Mexico (32.238567 N, 103.630410 W). The Site is located on Federal land. The Site is surrounded by rangeland that is periodically interrupted by oil and gas production and gathering facilities.

On August 29, 2020, approximately five bbl. of crude oil was released on the Dos Equis 12 Federal Com 3H well site from the pumping unit on site after the pumping unit was energized while the wellhead was shut in. Cimarex Energy Company (Cimarex) subsequently shut down the pumping unit and began cleanup activities. Of the five bbl. of crude oil, 0.5 bbl. were recovered. On December 8, 2020, January 12, 2021 and March 5, 2021 Apex Companies, LLC. conducted excavation activities with the intent to obtain closure for soils impacted by a release (19.15.29.12 NMAC – Table 1).

A Topographic Map depicting the location of the Site is included as **Figure 1**, and a Site Overview Map is included as **Figure 2**.

1.2 Project Objective

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-Site soils to below the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) closure criteria using the New Mexico Administrative Code (NMAC) 19.15.29 *Releases* as guidance.

2.0 SITE ASSESSMENT AND CHARACTERIZATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references NMAC 19.15.29 *Releases* (revised 8/14/2018) which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. In accordance with the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases*, Apex utilized the general site characteristics and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site.

- The release was to an oil production facility pad and did not extend offsite. **Figure 2** is an aerial photo overview of the site that depicts the locations of surface features, infrastructure, access

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roads, and the bounds of excavation activities. **Figure 3** is a detailed map of the excavation, sample locations and buried flow lines that were exposed during the excavation activities.

- OCD approval to utilize the water level from point of diversion (POD) C-01932 to determine a probable depth to groundwater of 51 to 100 feet was sent via email to Cimarex on February 4, 2021. POD (C-01932), used for livestock watering, is located approximately 0.41 miles southeast of the Site according to the OSE Water Rights Reporting System (WRRS) database and indicates a depth to water of 180 feet below ground surface. Data for C-01932 was collected in October of 1980. NMOCD correspondence on this matter is included in **Appendix A**.
- POD C-01932 is the only known water source within a half mile of the release.
- No significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC exists within a half mile of the release boundaries and the Site is therefore not located within 300 feet of a continuously flowing watercourse or significant watercourse.
- The Site is not located within 300 feet from a permanent residence, school, hospital, institution, or church.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet from an occupied permanent residence, school, hospital, institution, or church.
- No springs or private, domestic freshwater wells used by less than five (5) households for domestic or stock watering purposes were identified within 500 feet of the Site.
- No freshwater wells or springs were identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
 - The Site is not located within 300 feet of a wetland.
 - Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
 - The Site is not located within an unstable area.
 - The Site is not located within a 100-year floodplain.

Based on the site characterization, closure criteria for the Site are the parameters listed in 19.15.29 NMAC for releases with a minimum depth to groundwater between 51 and 100 feet:

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Adapted from 19.15.29 NMAC Table 1

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
51 feet – 100 feet	Chloride	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

On September 14, 2020, H&R Enterprises (H&R) and Cimarex personnel began initial excavation activities to remediate potential petroleum hydrocarbon impacted soils resulting from the release. Further corrective action activities were conducted by H&R Enterprises, Stone Oilfield Services and Apex personnel on December 8, 2020, January 12, 2021, and March 5, 2021.

Apex field screened soil samples from the excavation utilizing a photoionization detector (PID) fitted with a 10.6 eV lamp and a calibrated Dexsil PetroFLAG[®] hydrocarbon analyzer system to delineate impacts and guide excavation extents.

The final primary excavation measured approximately 60 feet long by 40 feet wide. The maximum depth of the primary excavation measured approximately 4 feet below ground surface (bgs).

The materials encountered during the completion of corrective action activities consisted of a caliche pad underlain by approximately 3-3.5 feet of brown silty sand transitioning into a hard tan native caliche.

A total of approximately 252 cubic yards of petroleum hydrocarbon affected soils were transported to R360 near Hobbs, New Mexico for disposal/remediation. Bills of lading are provided in **Appendix B**. The excavation was backfilled with imported fill and segregated, laboratory-confirmed, unaffected stockpiled soils, and contoured to surrounding grade. Analytical data for the backfill material is included in **Table 1**.

Figure 3 is a map with soil sample locations depicting the approximate dimensions of the excavation with respect to the well head. Photographic documentation of the field activities is included in **Appendix C**.

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3.2 Soil Sampling Program

Apex's soil sampling program included the collection of thirty-eight (38) composite soil samples, not exceeding two hundred (200) square feet in area, from the sidewalls and the base of the final excavation for laboratory analysis.

The samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels and stored on ice in a cooler. The samples were relinquished to Permian Basin Environmental Laboratory of Midland, Texas under proper chain-of-custody procedures.

3.3 Laboratory Analytical Methods

The five point composite soil samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method 8021/8260, total petroleum hydrocarbon (TPH) gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method 8015, and chlorides using EPA Method 300.0. Laboratory results are summarized in **Table 1**. The executed chain-of-custody form and laboratory data sheets are provided in **Appendix E**.

4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references NMAC 19.15.29 *Releases* (revised 8/14/2018), which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Soil Samples

Apex compared the BTEX, TPH, and chloride concentrations or laboratory practical quantitation limits (PQLs) associated with the composite soil samples to the New Mexico EMNRD OCD closure criteria.

- Sample SH14 indicated an exceedance of TPH with a total TPH concentration of 5,350 mg/kg. SH14 was a sidewall sample collected within two (2) feet of the wellhead cellar. The sidewall containing soils collected for SH14 has subsequently been removed to the well cellar, leaving no soil for collection. Photographic documentation is in **Appendix C**.
- The laboratory analyses of the composite soil samples collected from soils remaining in place and the backfill soils do not indicate benzene concentrations above the laboratory Practical Quantitation Limits (PQLs), which are below the New Mexico EMNRD OCD closure criteria of 10 mg/kg.
- The laboratory analyses of the composite soil samples collected from soils remaining in place and backfill soils do not indicate total BTEX concentrations above the laboratory PQLs, which are below the New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analyses of the composite soil samples collected from soils remaining in place and the backfill soils do not indicate combined TPH GRO/DRO/MRO concentrations above the laboratory PQLs, which are below the applicable New Mexico EMNRD OCD closure criteria of 2,500 mg/kg

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- The laboratory analyses of the composite soil samples collected from soils remaining in place and backfill soils do not indicate chloride concentrations above the laboratory PQLs which are below the applicable New Mexico OCD closure criteria of 10,000 mg/kg,

Laboratory analytical results are summarized in **Table 1**, sample locations are presented in **Figure 3**.

5.0 RESTORATION, RECLAMATION AND RE-VEGETATION

Restoration of the site consisted of backfilling with imported fill and compacting and contouring a caliche cover/pavement to the existing grade to prevent ponding of water and erosion of the cover material. Impacts from the release did not extend beyond the pad boundaries or the area needed for production operations. Reclamation and re-vegetation will be deferred to occur concurrent with reclamation of the facility pad once the facility is no longer needed for production purposes. Reclamation will be in accordance with 19.15.20 NMAC or Bureau of Land Management requirements, if they provide equal or better protection of fresh water, human health, and the environment.

6.0 FINDINGS AND CONCLUSIONS

The Dos Equis Fed Com 12-3H is in Unit C of Section 12, Township 24 South, Range 32 East in rural Lea County. The Site is located on federal land and is surrounded by rangeland that is periodically interrupted by oil and gas production and gathering facilities.

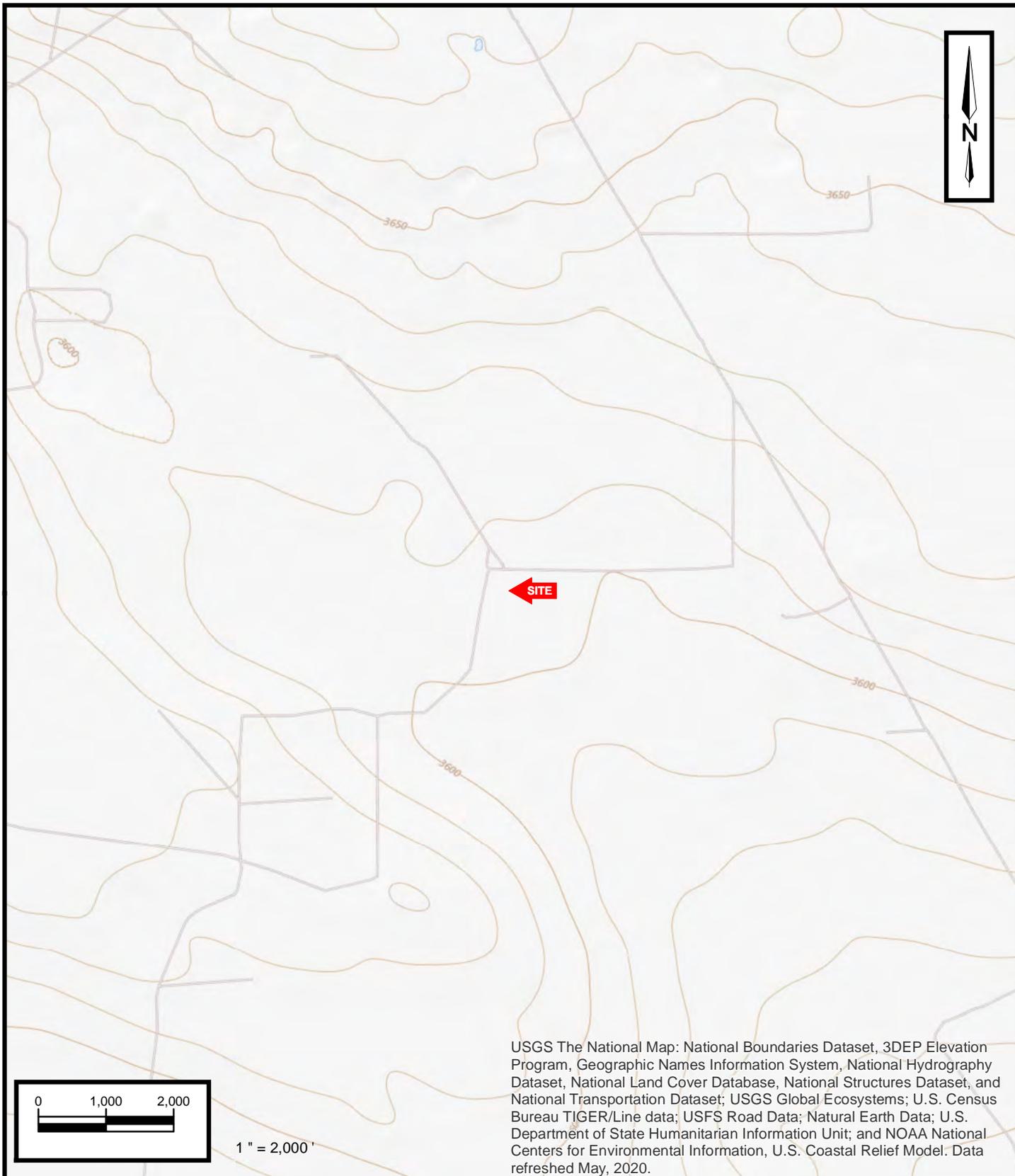
On August 29, 2020, a release of crude oil was identified on the Dos Equis Fed Com 12-3H location, caused by the pumping unit cycling after the wellhead had been shut in. Cimarex Energy, Co. subsequently shut down power to the pumping unit to halt any further release. Fluids from the release did not travel off the pad. The wellhead was subsequently repaired and placed back into service. On September 14, 2020, Cimarex initiated excavation activities to remediate potential petroleum hydrocarbon impact resulting from the release. Apex continued excavation and remediation activities on December 8, 2020, January 12, 2021, and March 5, 2021.

- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's NMAC 19.15.29 Releases as guidance.
- The materials encountered during the completion of corrective action activities consisted of a caliche pad underlain by approximately 3 to 3.5 feet of brown silty sand transitioning into a hard, tan native caliche.
- The final primary excavation measured approximately 60 feet long by 50 feet wide. The maximum depth of the excavation measured approximately 4 feet bgs.
- Prior to backfilling, thirty-eight (38) composite soil samples were collected from the final excavation for laboratory analysis. Based on soil analytical results, soils remaining in place do not exhibit COC concentrations above the New Mexico EMNRD OCD closure criteria.
- A total of approximately 252 cubic yards of petroleum hydrocarbon affected soils were transported to R360 near Hobbs, New Mexico for disposal/remediation. Waste manifest forms are provided in **Appendix B**. The excavation was backfilled with imported fill and segregated, laboratory-confirmed, unaffected stockpiled soils, and contoured to surrounding grade.

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Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.



USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA National Centers for Environmental Information, U.S. Coastal Relief Model. Data refreshed May, 2020.

Dos Equis 12-3H Release Closure Request
Cimarex Energy Co.
Dos Equis 12-3H Release
 Lea County, New Mexico
 32.238567 N, 103.630410 W



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FIGURE 2
Site Location



- LEGEND:**
-  Wellhead
 -  Excavation_new



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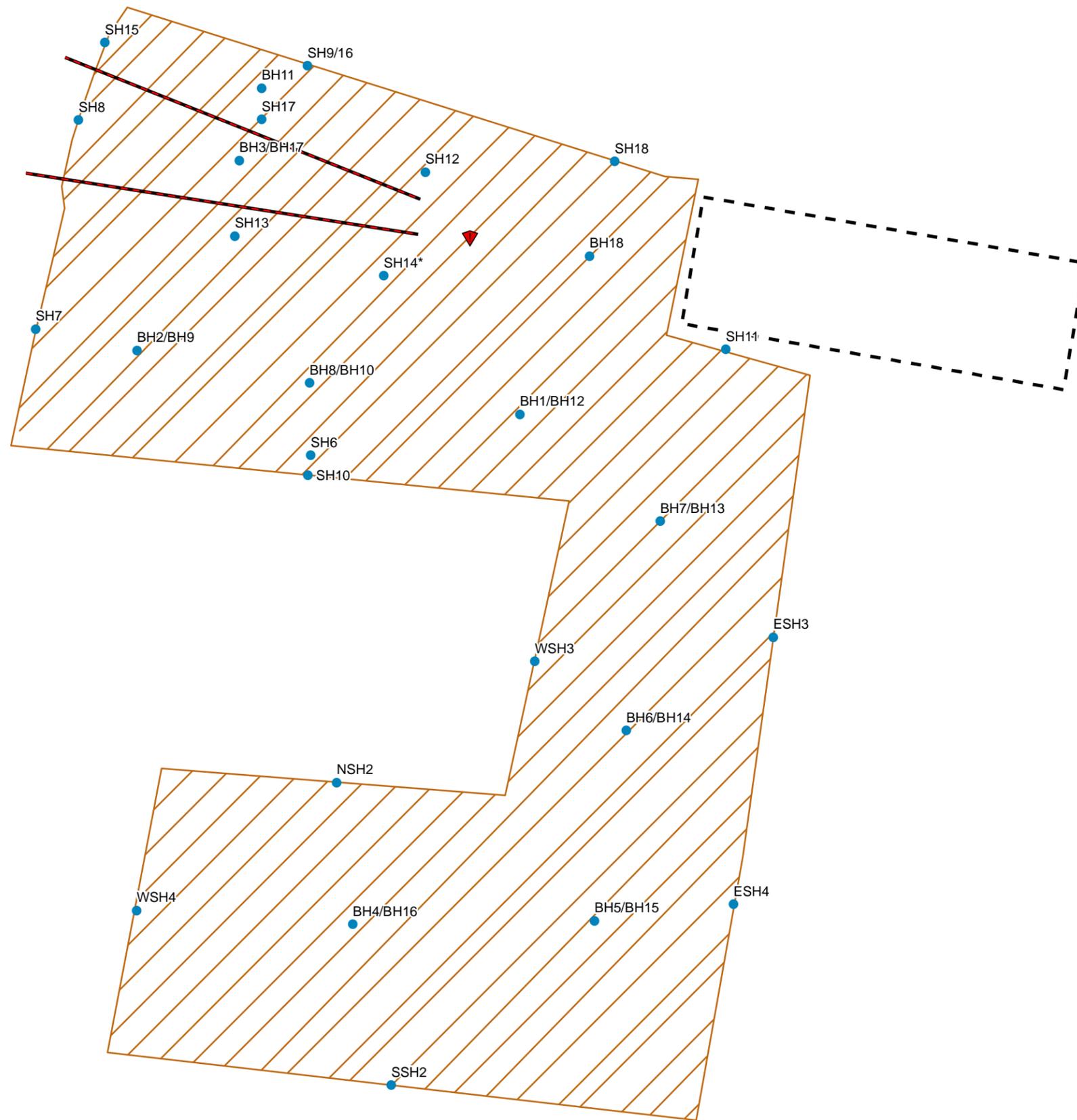
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1" = 82'

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

FIGURE 2
Site Overview



- LEGEND:**
- Sample Locations
 - ▼ Wellhead
 - Flow Lines
 - - - Pumping Unit
 - ▨ Excavation

***Note:** SH14 sidewall, located against the well cellar has been completely removed. No further soil remained for sample collection



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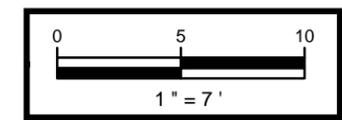
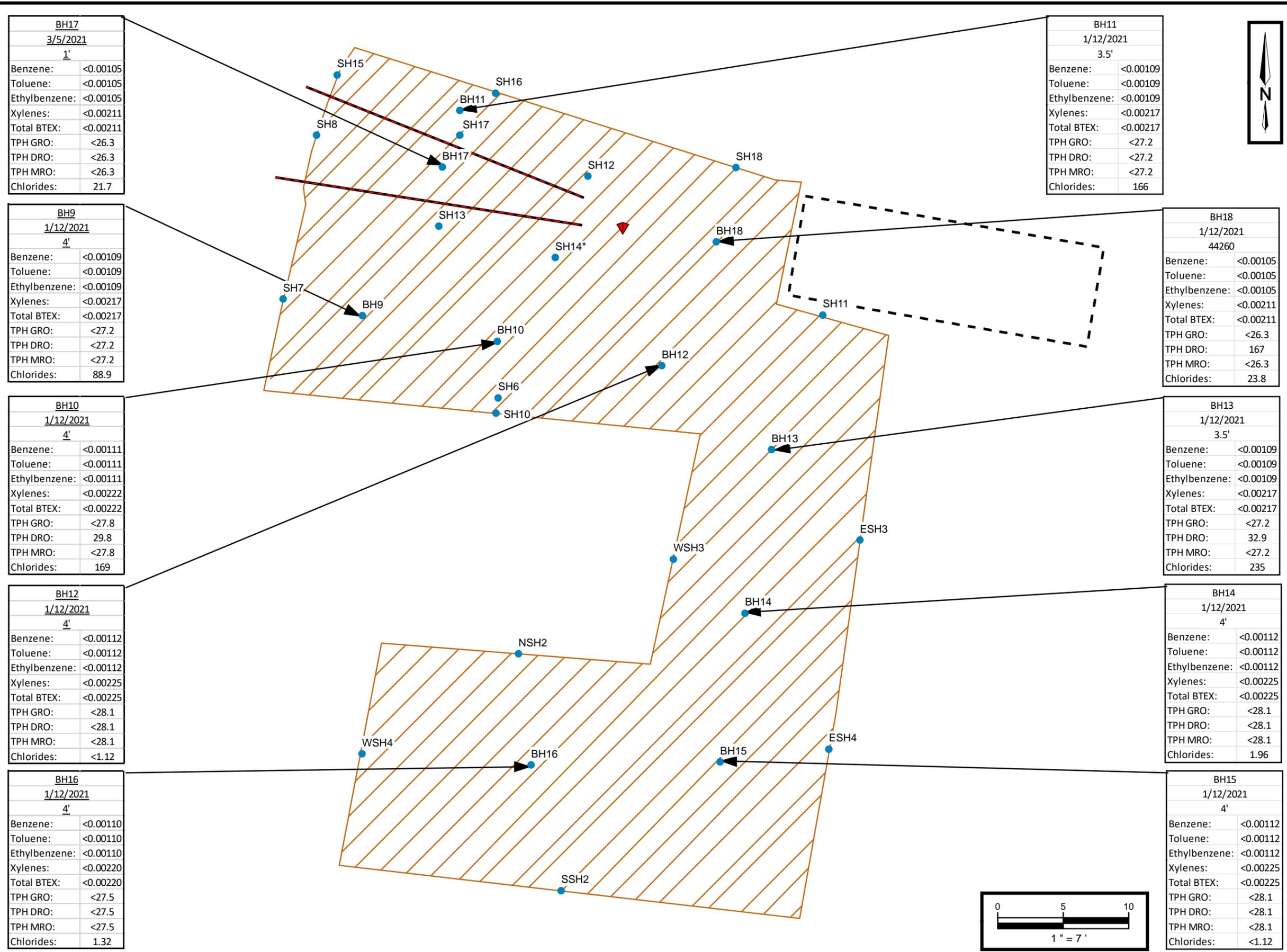


FIGURE 3
Sample Locations



LEGEND:

- Wellhead/Point of Release
- Sample Location
- Flow Lines
- Pumping Unit
- Excavation

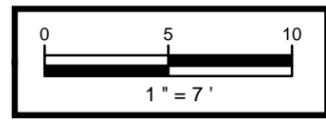
*Note: SH14 sidewall, located against the well cellar has been completely removed. No further soil remained for sample collection

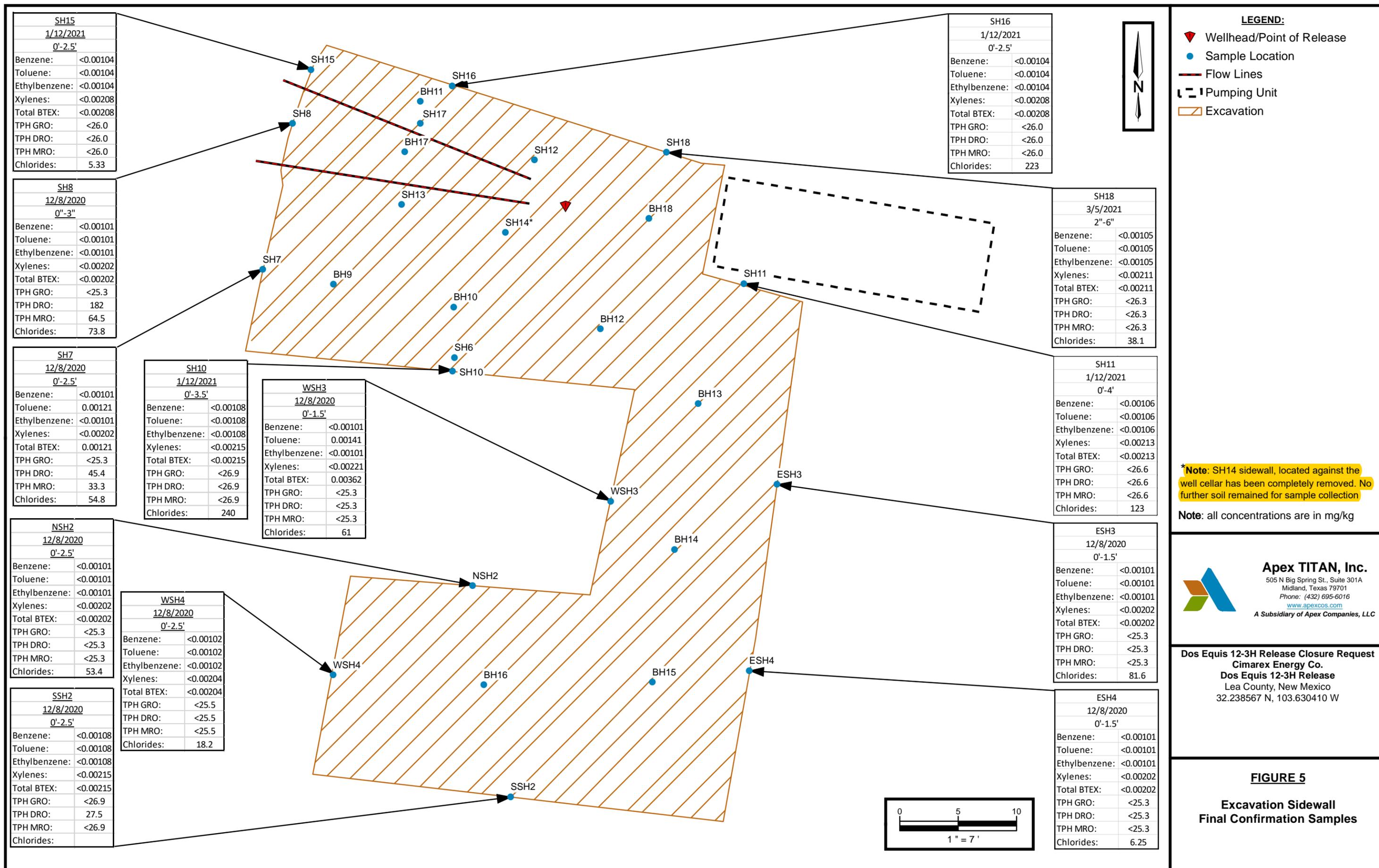
Note: all concentrations are in mg/kg

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FIGURE 4
Excavation Base
Final Confirmation Samples





SH15	
1/12/2021	
0'-2.5'	
Benzene:	<0.00104
Toluene:	<0.00104
Ethylbenzene:	<0.00104
Xylenes:	<0.00208
Total BTEX:	<0.00208
TPH GRO:	<26.0
TPH DRO:	<26.0
TPH MRO:	<26.0
Chlorides:	5.33

SH16	
1/12/2021	
0'-2.5'	
Benzene:	<0.00104
Toluene:	<0.00104
Ethylbenzene:	<0.00104
Xylenes:	<0.00208
Total BTEX:	<0.00208
TPH GRO:	<26.0
TPH DRO:	<26.0
TPH MRO:	<26.0
Chlorides:	223

SH8	
12/8/2020	
0'-3"	
Benzene:	<0.00101
Toluene:	<0.00101
Ethylbenzene:	<0.00101
Xylenes:	<0.00202
Total BTEX:	<0.00202
TPH GRO:	<25.3
TPH DRO:	182
TPH MRO:	64.5
Chlorides:	73.8

SH18	
3/5/2021	
2"-6"	
Benzene:	<0.00105
Toluene:	<0.00105
Ethylbenzene:	<0.00105
Xylenes:	<0.00211
Total BTEX:	<0.00211
TPH GRO:	<26.3
TPH DRO:	<26.3
TPH MRO:	<26.3
Chlorides:	38.1

SH7	
12/8/2020	
0'-2.5'	
Benzene:	<0.00101
Toluene:	0.00121
Ethylbenzene:	<0.00101
Xylenes:	<0.00202
Total BTEX:	0.00121
TPH GRO:	<25.3
TPH DRO:	45.4
TPH MRO:	33.3
Chlorides:	54.8

SH10	
1/12/2021	
0'-3.5'	
Benzene:	<0.00108
Toluene:	<0.00108
Ethylbenzene:	<0.00108
Xylenes:	<0.00215
Total BTEX:	<0.00215
TPH GRO:	<26.9
TPH DRO:	<26.9
TPH MRO:	<26.9
Chlorides:	240

WSH3	
12/8/2020	
0'-1.5'	
Benzene:	<0.00101
Toluene:	0.00141
Ethylbenzene:	<0.00101
Xylenes:	<0.00221
Total BTEX:	0.00362
TPH GRO:	<25.3
TPH DRO:	<25.3
TPH MRO:	<25.3
Chlorides:	61

SH11	
1/12/2021	
0'-4'	
Benzene:	<0.00106
Toluene:	<0.00106
Ethylbenzene:	<0.00106
Xylenes:	<0.00213
Total BTEX:	<0.00213
TPH GRO:	<26.6
TPH DRO:	<26.6
TPH MRO:	<26.6
Chlorides:	123

NSH2	
12/8/2020	
0'-2.5'	
Benzene:	<0.00101
Toluene:	<0.00101
Ethylbenzene:	<0.00101
Xylenes:	<0.00202
Total BTEX:	<0.00202
TPH GRO:	<25.3
TPH DRO:	<25.3
TPH MRO:	<25.3
Chlorides:	53.4

WSH4	
12/8/2020	
0'-2.5'	
Benzene:	<0.00102
Toluene:	<0.00102
Ethylbenzene:	<0.00102
Xylenes:	<0.00204
Total BTEX:	<0.00204
TPH GRO:	<25.5
TPH DRO:	<25.5
TPH MRO:	<25.5
Chlorides:	18.2

ESH3	
12/8/2020	
0'-1.5'	
Benzene:	<0.00101
Toluene:	<0.00101
Ethylbenzene:	<0.00101
Xylenes:	<0.00202
Total BTEX:	<0.00202
TPH GRO:	<25.3
TPH DRO:	<25.3
TPH MRO:	<25.3
Chlorides:	81.6

SSH2	
12/8/2020	
0'-2.5'	
Benzene:	<0.00108
Toluene:	<0.00108
Ethylbenzene:	<0.00108
Xylenes:	<0.00215
Total BTEX:	<0.00215
TPH GRO:	<26.9
TPH DRO:	27.5
TPH MRO:	<26.9
Chlorides:	

ESH4	
12/8/2020	
0'-1.5'	
Benzene:	<0.00101
Toluene:	<0.00101
Ethylbenzene:	<0.00101
Xylenes:	<0.00202
Total BTEX:	<0.00202
TPH GRO:	<25.3
TPH DRO:	<25.3
TPH MRO:	<25.3
Chlorides:	6.25

- LEGEND:**
- Wellhead/Point of Release
 - Sample Location
 - Flow Lines
 - Pumping Unit
 - Excavation

*Note: SH14 sidewall, located against the well cellar has been completely removed. No further soil remained for sample collection

Note: all concentrations are in mg/kg

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FIGURE 5
Excavation Sidewall
Final Confirmation Samples

TABLE 1
 Dos Equis 12-3H
 Lea County, NM
 Soil Confirmation Sample Analytical Data



Sample Identification	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO C ₁₂ -C ₂₈ (mg/kg)	TPH MRO C ₂₈ -C ₃₅ (mg/kg)	Total TPH (mg/kg)	Chlorides (mg/kg)
NMOCD Remediation Limits			10	NE	NE	NE	50	1,000		2,500	10,000	
ESH3	12/8/2020	0-1.5	<0.00101	<0.00101	<0.00101	<0.00202	<0.00202	<25.3	<25.3	<25.3	<25.3	81.6
ESH4	12/8/2020	0-1.5	<0.00101	<0.00101	<0.00101	<0.00202	<0.00202	<25.3	<25.3	<25.3	<25.3	6.25
SSH2	12/8/2020	0-2.5	<0.00108	<0.00108	<0.00108	<0.00215	<0.00215	<26.9	27.5	<26.9	27.5	32.0
WSH4	12/8/2020	0-2.5	<0.00102	<0.00102	<0.00102	<0.00204	<0.00204	<25.5	<25.5	<25.5	<25.5	18.2
NSH2	12/8/2020	0-2.5	<0.00101	<0.00101	<0.00101	<0.00202	<0.00202	<25.3	<25.3	<25.3	<25.3	53.4
WSH3	12/8/2020	0-1.5	<0.00101	0.00141	<0.00101	0.00221	0.00362	<25.3	<25.3	<25.3	<25.3	61
SH6	12/8/2020	0-2.5	<0.00102	<0.00102	<0.00102	<0.00204	<0.00204	<25.5	123	27.90	151	15.3
SH7	12/8/2020	0-2.5	<0.00101	0.00121	<0.00101	<0.00202	0.00121	<25.3	45.4	33.30	78.7	54.8
SH8	12/8/2020	0-3"	<0.00101	<0.00101	<0.00101	<0.00202	<0.00202	<25.3	182	64.5	246	73.8
SH9	12/8/2020	0-3"	<0.00101	<0.00101	<0.00101	<0.00202	<0.00202	<25.3	238	85.5	323	81.3
BH1	12/8/2020	2.5	<0.0206	<0.0206	<0.0206	<0.0412	<0.0412	76.1	2,780	510	3,370	794
BH2	12/8/2020	2.5	<0.0206	<0.0206	<0.0206	<0.0412	<0.0412	<25.8	686	185	871	286
BH3	12/8/2020	3"	<0.00101	<0.00101	<0.00101	0.0032	0.0032	66	2,680	575	3,320	3,220
BH4	12/8/2020	2.5	<0.00102	<0.00204	<0.00102	<0.00204	<0.00204	<25.5	614	106	720	540
BH5	12/8/2020	1.5	<0.00103	0.00206	<0.00103	0.00206	<0.00206	<25.8	118	<25.8	118	77.9
BH6	12/8/2020	1.5	<0.00101	<0.00202	<0.00101	<0.00202	<0.00202	38.70	1,710	230	1,980	262
BH7	12/8/2020	1.5	<0.00102	<0.00204	<0.00102	<0.00204	<0.00204	<25.5	323	69.7	393	355
BH8	12/8/2020	1	<0.00101	<0.00202	<0.00101	<0.00202	<0.00202	<25.3	218	72	290	492
SH10	1/12/2021	0-3.5	<0.00108	<0.00108	<0.00108	<0.00215	<0.00215	<26.9	<26.9	<26.9	<26.9	240
SH11	1/12/2021	0-4	<0.00106	<0.00106	<0.00106	<0.00213	<0.00213	<26.6	<26.6	<26.6	<26.6	123
SH12	1/12/2021	0-2.5	<0.00106	<0.00106	<0.00106	<0.00213	<0.00213	<26.6	<26.6	<26.6	<26.6	139
SH13	1/12/2021	2	<0.00105	0.00141	<0.00105	<0.00211	<0.00211	<26.3	45.9	<26.3	45.9	209
SH14*	1/12/2021	0-3.5	0.00720	0.356	0.317	1.73	1.73	521	4,380	452	5,350	121
SH15	1/12/2021	0-2.5	<0.00104	<0.00104	<0.00104	<0.00208	<0.00208	<26.0	<26.0	<26.0	<26.0	5.33
SH16	1/12/2021	0-2.5	<0.00104	<0.00104	<0.00104	<0.00208	<0.00208	<26.0	<26.0	<26.0	<26.0	223
SH17	1/12/2021	2	<0.00105	<0.00105	<0.00105	<0.00211	<0.00211	<26.3	<26.3	<26.3	<26.3	101
BH9	1/12/2021	4	<0.00109	<0.00109	<0.00109	<0.00217	<0.00217	<27.2	<27.2	<27.2	<27.2	88.9
BH10	1/12/2021	4	<0.00111	<0.00111	<0.00111	<0.00222	<0.00222	<27.8	29.8	<27.8	29.80	169
BH11	1/12/2021	3.5	<0.00109	<0.00109	<0.00109	<0.00217	<0.00217	<27.2	<27.2	<27.2	<27.2	166
BH12	1/12/2021	4	<0.00112	<0.00112	<0.00112	<0.00225	<0.00225	<28.1	<28.1	<28.1	<28.1	<1.12
BH13	1/12/2021	3.5	<0.00109	<0.00109	<0.00109	<0.00217	<0.00217	<27.2	32.9	<27.2	32.9	235
BH14	1/12/2021	4	<0.00112	<0.00112	<0.00112	<0.00225	<0.00225	<28.1	<28.1	<28.1	<28.1	1.96
BH15	1/12/2021	4	<0.00112	<0.00112	<0.00112	<0.00225	<0.00225	<28.1	<28.1	<28.1	<28.1	<1.12
BH16	1/12/2021	4	<0.00110	<0.00110	<0.00110	<0.00220	<0.00220	<27.5	<27.5	<27.5	<27.5	1.32
SH18	3/5/2021	2-6"	<0.00105	<0.00105	<0.00105	<0.00211	<0.00211	<26.3	<26.3	<26.3	<26.3	38.1

*Note: SH14 sidewall, located against the well cellar has been completely removed. No further soil remained for sample collection

TABLE 1											
Dos Equis 12-3H											
Lea County, NM											
Soil Confirmation Sample Analytical Data											



Sample Identification	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO C ₁₂ -C ₂₈ (mg/kg)	TPH MRO C ₂₈ -C ₃₅ (mg/kg)	Total TPH (mg/kg)	Chlorides (mg/kg)
NMOCD Remediation Limits			10	NE	NE	NE	50	1,000		2,500		10,000
BH17	3/5/2021	1	<0.00105	<0.00105	<0.00105	<0.00211	<0.00211	<26.3	<26.3	<26.3	<26.3	21.7
BH18	3/5/2021	4"	<0.00105	<0.00105	<0.00105	<0.00211	<0.00211	<26.3	167	<26.3	167	23.8
Backfill	1/12/2021	-	<0.00105	<0.00105	<0.00105	<0.00211	<0.00211	<26.3	<26.3	<26.3	<26.3	117

bold analytical result indicates sample above applicable Protective Concentration Level.

NA = Not Applicable

NE = Not Established



APPENDIX A

C-141 and NMOCD Correspondence

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: lluig@cimarex.com	Incident # (assigned by OCD)
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.238574 _____ Longitude -103.630435 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Dos Equis 12 Federal Com 3H	Site Type: Well Site
Date Release Discovered: 8/29/2020	API# (if applicable) 30-025-40792

Unit Letter	Section	Township	Range	County
C	12	24S	32E	Lea

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 5	Volume Recovered (bbls) 0.5
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Human Error

This well had been shut in due to high line pressure with Lucid Midstream and the lease operator forgot to turn the power off to the pumping unit. The pumping unit turned on while the well was shut in and the packing blew out releasing 5 barrels of oil mostly in the form of a mist. We were able to recover 1/2 a barrel of oil. The impacted soil will be delineated to determine pathway forward.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
---	--

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
 By: Gloria Garza
 To: EMNRD OCD District 1, RMann at SLO, BLM NM CFO Spill, Cristina Eads and Victoria Venegas
 By: Email

Initial Response

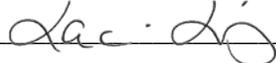
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Laci Luig _____ Title: Engineer Tech. _____
 Signature:  _____ Date: 9/4/2020 _____
 email: llug@cimarex.com _____ Telephone: (432) 571-7810 _____

OCD Only
 Received by: _____ Date: _____

Incident ID	nRM2025348983
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_ 487 _ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	nRM2025348983
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Laci Luig _____ Title: Engineer Tech. _____

Signature:  _____ Date: 1/25/2021 _____

email: lluig@cimarex.com _____ Telephone: (432) 571-7810 _____

OCD Only

Received by: Cristina Eads _____ Date: 10/02/2020 _____

Incident ID	nRM2025348983
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

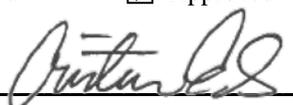
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Laci Luig _____ Title: Engineer Tech. _____
 Signature:  _____ Date: 1/25/2021 _____
 email: lluig@cimarex.com _____ Telephone: (432) 571-7810 _____

OCD Only

Received by: Cristina Eads _____ Date: 10/02/2020 _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  _____ Date: 02/04/2021 _____

Incident ID	nRM2025348983
District RP	
Facility ID	
Application ID	

Closure

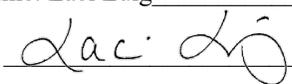
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Laci Luig Title: ESH Specialist

Signature:  Date: 4/14/2021

email: lluig@cimarex.com Telephone: (432) 571-7810

OCD Only

Received by: Chad Hensley Date: 07/29/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: 07/29/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

Hank W. McConnell

Subject: FW: [EXT] FW: [External] The Oil Conservation Division (OCD) has approved the application PO: 2CNPH-201002-C-1410.

FYI. This is for the Dos Equis 12 Fed Com 3H.

Please call to discuss.

Gloria Garza
432.234.3204

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, February 4, 2021 3:30 PM
To: Gloria Garza <ggarza@cimarex.com>
Subject: [External] The Oil Conservation Division (OCD) has approved the application PO: 2CNPH-201002-C-1410.

WARNING: This email originated from outside of Cimarex Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

To whom it may concern (c/o Gloria Garza for CIMAREX ENERGY CO.),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM2025348983, with the following conditions:

- **Well C-01932 registered with the NMOSE is located approximately 0.40 miles southwest of the incident site and indicates depth to water may be between 51-100 feet below ground surface (bgs). Remediation should meet 19.15.12 Table I Closure Criteria for sites where groundwater is between 51 and 100 feet bgs.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Cristina Eads
Environmental Scientist and Specialist
505-670-5601
Cristina.Eads@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505



APPENDIX B

Bills of Lading



Permian Basin

Customer: CIMAREX-MIDLAND
Customer #: CRI2030
Ordered by: KENNY HUGHES
AFE #:
PO #:
Manifest #: 50534
Manif. Date: 3/26/2021
Hauler: H & R ENTERPRIZES
Driver: MARTIN
Truck #: T5
Card #:
Job Ref #

Ticket #: 700-1201728
Bid #: O6UJ9A000HA1
Date: 3/26/2021
Generator: CIMAREX
Generator #:
Well Ser. #: 40792
Well Name: DOS EQUIS 12 FEDERAL COI
Well #: 003H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service Quantity Units

Oil-Contaminated Debris (RCRA Exempt) 20.00 yards

Table with 12 columns: Cell, pH, Cl, Cond., %Solids, TDS, PCI/GM, MR/HR, H2S, % Oil, Weight. Lab Analysis row shows values: 50/51, 0.00, 0.00, 0.00, 0, 0.

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended.
MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Handwritten signature

Approved By: _____

Date: _____



Customer: CIMAREX-MIDLAND
Customer #: CRI2030
Ordered by: KENNY HUGHES
AFE #:
PO #:
Manifest #: 50542
Manif. Date: 1/13/2021
Hauler: H & R ENTERPRIZES
Driver: ADOLFO
Truck #: 1
Card #:
Job Ref #

Ticket #: 700-1188955
Bid #: O6UJ9A000HA1
Date: 1/13/2021
Generator: CIMAREX
Generator #:
Well Ser. #: 40792
Well Name: DOS EQUIS 12 FEDERAL COI
Well #: 003H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Permian Basin

Facility: CRI

Table with 12 columns: Product / Service, Quantity, Units, Cell, pH, Cl, Cond., %Solids, TDS, PCI/GM, MR/HR, H2S, % Oil, Weight. Row 1: Contaminated Soil (RCRA Exempt), 20.00 yards.

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:
[X] RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
[] RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
[] MSDS Information [] RCRA Hazardous Waste Analysis [] Process Knowledge [] Other (Provide description above)

Driver/ Agent Signature R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____ [Signature]



Customer: CIMAREX-MIDLAND
Customer #: CRI2030
Ordered by: JOSH JONES
AFE #:
PO #:
Manifest #: 50269
Manif. Date: 3/26/2021
Hauler: H & R ENTERPRIZES
Driver: MARTIN
Truck #: T5
Card #:
Job Ref #

Ticket #: 700-1201696
Bid #: O6UJ9A000HA1
Date: 3/26/2021
Generator: CIMAREX
Generator #:
Well Ser. #: 40792
Well Name: DOS EQUIS 12 FEDERAL COM
Well #: 003H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Permian Basin

Facility: CRI

Table with 2 columns: Product / Service, Quantity Units. Row 1: Oil-Contaminated Debris (RCRA Exempt), 20.00 yards. Row 2: Lab Analysis with columns for Cell, pH, Cl, Cond., %Solids, TDS, PCI/GM, MR/HR, H2S, % Oil, Weight.

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended.
MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CIMAREX-MIDLAND
 Customer #: CRI2030
 Ordered by: JOSH JONES
 AFE #:
 PO #:
 Manifest #: 50237
 Manif. Date: 3/26/2021
 Hauler: H & R ENTERPRIZES
 Driver: MARTIN
 Truck #: T5
 Card #
 Job Ref #

Ticket #: 700-1201823
 Bid #: O6UJ9A000HA1
 Date: 3/26/2021
 Generator: CIMAREX
 Generator #:
 Well Ser. #: 40792
 Well Name: DOS EQUIS 12 FEDERAL COI
 Well #: 003H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units										
Oil-Contaminated Debris (RCRA Exempt)	20.00 yards										
	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CIMAREX-MIDLAND
 Customer #: CRI2030
 Ordered by: JOSH JONES
 AFE #:
 PO #:
 Manifest #: 50267
 Manif. Date: 3/26/2021
 Hauler: H & R ENTERPRIZES
 Driver: MARTIN
 Truck #: T5
 Card #
 Job Ref #

Ticket #: 700-1201784
 Bid #: O6UJ9A000HA1
 Date: 3/26/2021
 Generator: CIMAREX
 Generator #:
 Well Ser. #: 40792
 Well Name: DOS EQUIS 12 FEDERAL COI
 Well #: 003H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units										
Oil-Contaminated Debris (RCRA Exempt)	20.00 yards										
	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

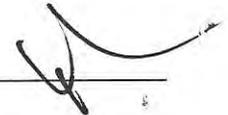
- RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
- RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature _____ **R360 Representative Signature** _____

Customer Approval _____

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____ 



Customer: CIMAREX-MIDLAND
Customer #: CRI2030
Ordered by: JOSH JONES
AFE #:
PO #:
Manifest #: 50536
Manif. Date: 3/29/2021
Hauler: H & R ENTERPRIZES
Driver: MARTIN
Truck #: T5
Card #:
Job Ref #

Ticket #: 700-1202166
Bid #: O6UJ9A000HA1
Date: 3/29/2021
Generator: CIMAREX
Generator #:
Well Ser. #: 40792
Well Name: DOS EQUIS 12 FEDERAL COI
Well #: 003H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service Quantity Units

Oil-Contaminated Debris (RCRA Exempt) 20.00 yards

Table with 12 columns: Cell, pH, Cl, Cond., %Solids, TDS, PCI/GM, MR/HR, H2S, % Oil, Weight. Row 1: Lab Analysis: 50/51, 0.00, 0.00, 0.00, 0, ...

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- [X] RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
[] RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended.
[] MSDS Information [] RCRA Hazardous Waste Analysis [] Process Knowledge [] Other (Provide description above)

Driver/ Agent Signature R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CIMAREX-MIDLAND
Customer #: CRI2030
Ordered by: JOSH JONES
AFE #:
PO #:
Manifest #: 50537
Manif. Date: 3/29/2021
Hauler: H & R ENTERPRIZES
Driver: MARTIN
Truck #: T5
Card #:
Job Ref #

Ticket #: 700-1202237
Bid #: O6UJ9A000HA1
Date: 3/29/2021
Generator: CIMAREX
Generator #:
Well Ser. #: 40792
Well Name: DOS EQUIS 12 FEDERAL COI
Well #: 003H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Permian Basin

Facility: CRI

Table with 11 columns: Product / Service, Quantity, Units, Cell, pH, Cl, Cond., %Solids, TDS, PCI/GM, MR/HR, H2S, % Oil, Weight. Row 1: Oil-Contaminated Debris (RCRA Exempt), 20.00 yards.

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- [X] RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
[] RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended.
[] MSDS Information [] RCRA Hazardous Waste Analysis [] Process Knowledge [] Other (Provide description above)

Driver/ Agent Signature R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Handwritten signature

Approved By: _____

Date: _____



Permian Basin

Customer: CIMAREX-MIDLAND
Customer #: CRI2030
Ordered by: JOSH JONES
AFE #:
PO #:
Manifest #: 50535
Manif. Date: 3/29/2021
Hauler: H & R ENTERPRIZES
Driver: MARTIN
Truck #: T5
Card #:
Job Ref #

Ticket #: 700-1202197
Bid #: O6UJ9A000HA1
Date: 3/29/2021
Generator: CIMAREX
Generator #:
Well Ser. #: 40792
Well Name: DOS EQUIS 12 FEDERAL COM
Well #: 003H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service Quantity Units

Table with 12 columns: Cell, pH, Cl, Cond., %Solids, TDS, PCI/GM, MR/HR, H2S, % Oil, Weight. Row 1: Oil-Contaminated Debris (RCRA Exempt) 20.00 yards. Row 2: Lab Analysis: 50/51 0.00 0.00 0.00 0

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- X RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended.
MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Customer: CIMAREX-MIDLAND
 Customer #: CRI2030
 Ordered by: JOSH JONES
 AFE #:
 PO #:
 Manifest #: 343035
 Manif. Date: 3/5/2021
 Hauler: STONE OILFIELD SERVICE
 Driver: MIGUEL
 Truck #: SV4
 Card #:
 Job Ref #:

Ticket #: 700-1197429
 Bid #: O6UJ9A000HA1
 Date: 3/5/2021
 Generator: CIMAREX
 Generator #:
 Well Ser #: 40792
 Well Name: DOS EQUIS 12 FEDERAL COF
 Well #: 003H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service:

Quantity Units

Contaminated Soil (RCRA Exempt)

15.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PC/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	14	0.00	0.00	0.00	0						

Jet Wash (Recycled Water)

1.00 hour

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
- RCRA Non-Exempt Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information
- RCRA Hazardous Waste Analysis
- Process Knowledge
- Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: CIMAREX-MIDLAND
 Customer #: CRI2030
 Ordered by: JOSH JONES
 AFE #:
 PO #:
 Manifest #: 343039
 Manif. Date: 3/8/2021
 Hauler: STONE OILFIELD SERVICE
 Driver: MIGUEL
 Truck #: SV4
 Card #:
 Job Ref #:

Ticket #: 700-1197895
 Bid #: O6UJ9A000HA1
 Date: 3/8/2021
 Generator: CIMAREX
 Generator #:
 Well Ser. #: 40792
 Well Name: DOS EQUIS 12 FEDERAL COF
 Well #: 003H
 Field:
 Field #:
 Rig: NON-DRILLING
 County: LEA (NM)

Facility: CRI

Product / Service Quantity Units

Contaminated Soil (RCRA Exempt) 16.00 yards

Lab Analysis:	Cell	pH	Cl	Cond	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
	13	0.00	0.00	0.00	0						

Jet Wash (Recycled Water) 1.00 hour

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

- RCRA Exempt; Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
- RCRA Non-Exempt; Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):
- MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

Driver/ Agent Signature R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____

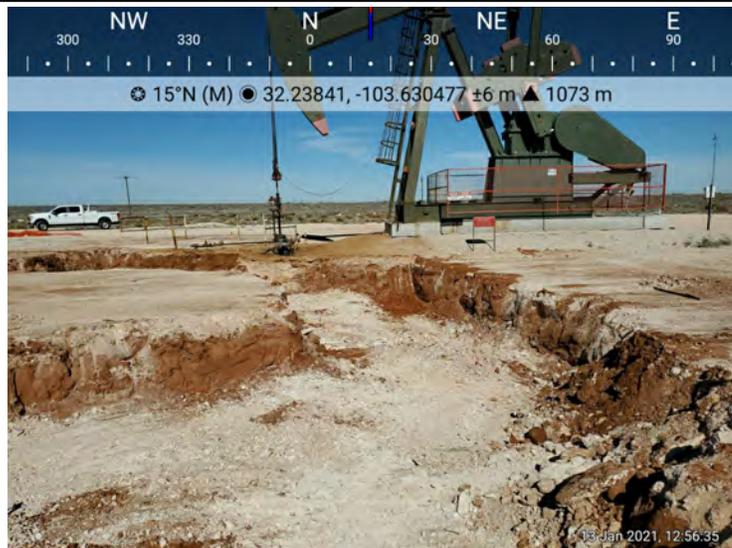


APPENDIX C
Photographic Documentation

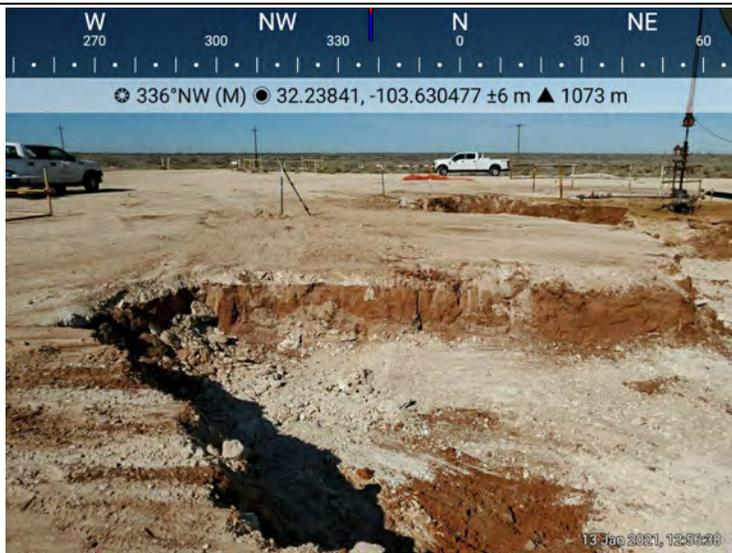
Photograph 1
Description: Northwest end of excavation. Facing east.



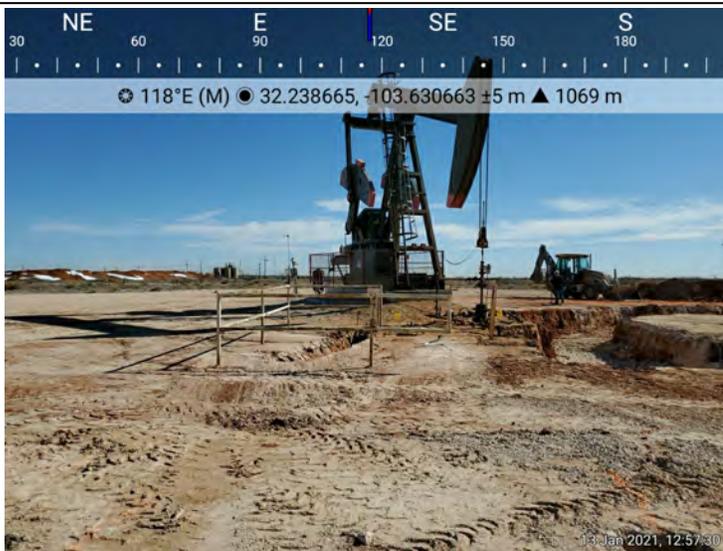
Photograph 2
Description: Southeast corner of the excavation. Facing northeast.



Photograph 3
Description: South side of the excavation. Facing northwest.



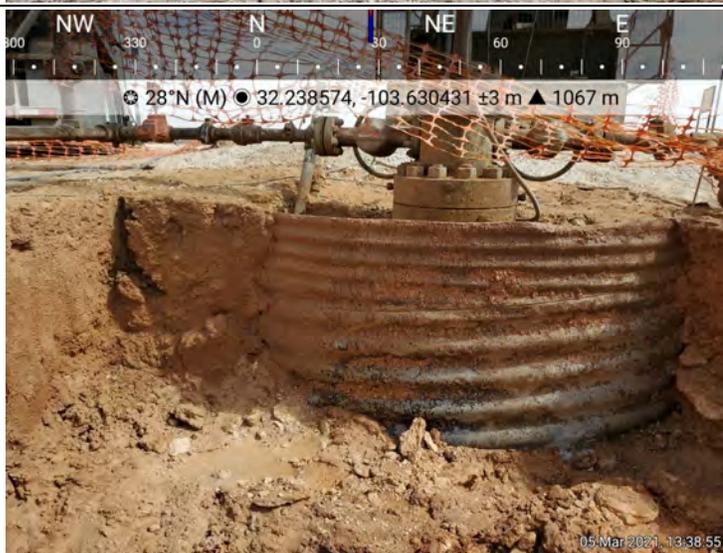
Photograph 4
Description: View of the north side of the excavation overlying flowlines to well head.



Photograph 5
Description: View of the excavated area in between the well head and pumping unit.



Photograph 6
Description: Sidewall removed around well cellar west of the well head.



Photograph 7
Description: View of the excavation above flow lines to the well head.



Photograph 8
Description: View of the excavation above flow lines to the well head, post-excitation.





Appendix D
Laboratory Data Sheets
& Chain of Custody Documentation

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Hank W McConnell
Apex Environmental
505 N. Big Spring Street #301A
Midland, TX 79701

Project: Cimarex Dos Equis Closure

Project Number: 725070635031

Location: NM

Lab Order Number: 0L09002



NELAP/TCEQ # T104704516-17-8

Report Date: 12/15/20

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ESH3 @ 0"-1.5'	0L09002-01	Soil	12/08/20 10:10	12-08-2020 16:50
ESH4 @ 0"-1.5'	0L09002-02	Soil	12/08/20 10:15	12-08-2020 16:50
SSH2 @ 0"-2.5'	0L09002-03	Soil	12/08/20 10:22	12-08-2020 16:50
WSH4 @ 0"-2.5'	0L09002-04	Soil	12/08/20 10:30	12-08-2020 16:50
NSH2 @ 0"-2.5'	0L09002-05	Soil	12/08/20 10:36	12-08-2020 16:50
WSH3 @ 0"-1.5'	0L09002-06	Soil	12/08/20 10:45	12-08-2020 16:50
SH6 @ 0"-2.5'	0L09002-07	Soil	12/08/20 11:00	12-08-2020 16:50
SH7 @ 0"-2.5'	0L09002-08	Soil	12/08/20 11:05	12-08-2020 16:50
SH8 @ 0"-3"	0L09002-09	Soil	12/08/20 11:16	12-08-2020 16:50
SH9 @ 0"-3"	0L09002-10	Soil	12/08/20 11:20	12-08-2020 16:50
BH-1 @ 2.5'-2.5'	0L09002-11	Soil	12/08/20 12:28	12-08-2020 16:50
BH-2 @ 2.5'-2.5'	0L09002-12	Soil	12/08/20 13:00	12-08-2020 16:50
BH-3 @ 0"-3"	0L09002-13	Soil	12/08/20 13:05	12-08-2020 16:50

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

ESH3 @ 0"-1.5'
0L09002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.9 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	81.6	1.01	mg/kg dry	1	P0L1007	12/10/20	12/10/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0L1005	12/10/20	12/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		78.6 %	70-130		P0L0907	12/09/20	12/10/20	TPH 8015M	
Surrogate: o-Terphenyl		87.4 %	70-130		P0L0907	12/09/20	12/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	12/09/20	12/10/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

ESH4 @ 0"-1.5'
0L09002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.8 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6.25	1.01	mg/kg dry	1	P0L1007	12/10/20	12/10/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0L1005	12/10/20	12/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.9 %	70-130		P0L0907	12/09/20	12/10/20	TPH 8015M	
Surrogate: o-Terphenyl		92.7 %	70-130		P0L0907	12/09/20	12/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	12/09/20	12/10/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SSH2 @ 0"-2.5'**0L09002-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.**BTEX by 8021B**

Benzene	ND	0.00108	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.7 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	32.0	1.08	mg/kg dry	1	P0L1007	12/10/20	12/10/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0L1005	12/10/20	12/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
>C12-C28	27.5	26.9	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.5 %	70-130		P0L0907	12/09/20	12/10/20	TPH 8015M	
Surrogate: o-Terphenyl		99.9 %	70-130		P0L0907	12/09/20	12/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	27.5	26.9	mg/kg dry	1	[CALC]	12/09/20	12/10/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

WSH4 @ 0''-2.5'
0L09002-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.2	1.02	mg/kg dry	1	P0L1007	12/10/20	12/10/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0L1005	12/10/20	12/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.4 %	70-130		P0L0907	12/09/20	12/10/20	TPH 8015M	
Surrogate: o-Terphenyl		98.6 %	70-130		P0L0907	12/09/20	12/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	12/09/20	12/10/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

NSH2 @ 0''-2.5'
0L09002-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	53.4	1.01	mg/kg dry	1	P0L1007	12/10/20	12/10/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0L1005	12/10/20	12/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0L0907	12/09/20	12/10/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.0 %	70-130		P0L0907	12/09/20	12/10/20	TPH 8015M	
Surrogate: o-Terphenyl		91.2 %	70-130		P0L0907	12/09/20	12/10/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	12/09/20	12/10/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

WSH3 @ 0''-1.5'
0L09002-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	0.00141	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	0.00221	0.00202	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.3 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	61.2	1.01	mg/kg dry	1	P0L1007	12/10/20	12/10/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0L1005	12/10/20	12/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	12/09/20	12/11/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SH6 @ 0''-2.5'
0L09002-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.0 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	15.3	1.02	mg/kg dry	1	P0L1007	12/10/20	12/10/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0L1005	12/10/20	12/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C12-C28	123	25.5	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C28-C35	27.9	25.5	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	151	25.5	mg/kg dry	1	[CALC]	12/09/20	12/11/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SH7 @ 0''-2.5'
0L09002-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	0.00121	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		96.6 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	54.8	1.01	mg/kg dry	1	P0L1007	12/10/20	12/10/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0L1005	12/10/20	12/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C12-C28	45.4	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C28-C35	33.3	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		98.8 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		96.7 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	78.7	25.3	mg/kg dry	1	[CALC]	12/09/20	12/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SH8 @ 0"-3"
0L09002-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.4 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		106 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	73.8	1.01	mg/kg dry	1	P0L1007	12/10/20	12/10/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0L1005	12/10/20	12/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C12-C28	182	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C28-C35	64.5	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	246	25.3	mg/kg dry	1	[CALC]	12/09/20	12/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SH9 @ 0"-3"
0L09002-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	81.3	1.01	mg/kg dry	1	P0L1007	12/10/20	12/10/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0L1005	12/10/20	12/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C12-C28	238	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C28-C35	85.5	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.9 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	323	25.3	mg/kg dry	1	[CALC]	12/09/20	12/11/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH-1 @ 2.5'-2.5'**0L09002-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.**BTEX by 8021B**

Benzene	ND	0.0206	mg/kg dry	20	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	ND	0.0206	mg/kg dry	20	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.0206	mg/kg dry	20	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.0412	mg/kg dry	20	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.0206	mg/kg dry	20	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %		80-120	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		143 %		80-120	P0L1004	12/10/20	12/11/20	EPA 8021B	S-GC

General Chemistry Parameters by EPA / Standard Methods

Chloride	794	1.03	mg/kg dry	1	P0L1007	12/10/20	12/10/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0L1005	12/10/20	12/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	76.1	25.8	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C12-C28	2780	25.8	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C28-C35	510	25.8	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %		70-130	P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: o-Terphenyl		137 %		70-130	P0L0910	12/09/20	12/11/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	3370	25.8	mg/kg dry	1	[CALC]	12/09/20	12/11/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH-2 @ 2.5'-2.5'**0L09002-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.**BTEX by 8021B**

Benzene	ND	0.0206	mg/kg dry	20	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	ND	0.0206	mg/kg dry	20	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.0206	mg/kg dry	20	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.0412	mg/kg dry	20	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.0206	mg/kg dry	20	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		131 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		96.8 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	286	1.03	mg/kg dry	1	P0L1007	12/10/20	12/10/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0L1005	12/10/20	12/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C12-C28	686	25.8	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C28-C35	185	25.8	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.6 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	871	25.8	mg/kg dry	1	[CALC]	12/09/20	12/11/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH-3 @ 0"-3"
0L09002-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (p/m)	0.00218	0.00202	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Xylene (o)	0.00101	0.00101	mg/kg dry	1	P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		108 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		114 %	80-120		P0L1004	12/10/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	3220	5.05	mg/kg dry	5	P0L1007	12/10/20	12/10/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0L1005	12/10/20	12/10/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	66.0	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C12-C28	2680	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
>C28-C35	575	25.3	mg/kg dry	1	P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	
Surrogate: o-Terphenyl		132 %	70-130		P0L0910	12/09/20	12/11/20	TPH 8015M	S-GC
Total Petroleum Hydrocarbon C6-C35	3320	25.3	mg/kg dry	1	[CALC]	12/09/20	12/11/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0L1004 - General Preparation (GC)**Blank (P0L1004-BLK1)**

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.5	80-120			

LCS (P0L1004-BS1)

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.111	0.00100	mg/kg wet	0.100		111	70-130			
Toluene	0.0994	0.00100	"	0.100		99.4	70-130			
Ethylbenzene	0.108	0.00100	"	0.100		108	70-130			
Xylene (p/m)	0.197	0.00200	"	0.200		98.6	70-130			
Xylene (o)	0.0992	0.00100	"	0.100		99.2	70-130			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	80-120			

LCS Dup (P0L1004-BSD1)

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.112	0.00100	mg/kg wet	0.100		112	70-130	1.49	20	
Toluene	0.103	0.00100	"	0.100		103	70-130	3.88	20	
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130	2.89	20	
Xylene (p/m)	0.208	0.00200	"	0.200		104	70-130	5.10	20	
Xylene (o)	0.103	0.00100	"	0.100		103	70-130	3.89	20	
Surrogate: 4-Bromofluorobenzene	0.135		"	0.120		113	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			

Calibration Check (P0L1004-CCV1)

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.111	0.00100	mg/kg wet	0.100		111	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.4	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			

Permian Basin Environmental Lab, L.P.

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Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0L1004 - General Preparation (GC)**Calibration Check (P0L1004-CCV2)**

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.111	0.00100	mg/kg wet	0.100		111	80-120			
Toluene	0.0999	0.00100	"	0.100		99.9	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		95.2	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			

Calibration Check (P0L1004-CCV3)

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.107	0.00100	mg/kg wet	0.100		107	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.1	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	75-125			

Matrix Spike (P0L1004-MS1)

Source: 0L04003-03

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.0749	0.00102	mg/kg dry	0.102	ND	73.4	80-120			QM-05
Toluene	0.0574	0.00102	"	0.102	ND	56.2	80-120			QM-05
Ethylbenzene	0.0507	0.00102	"	0.102	ND	49.7	80-120			QM-05
Xylene (p/m)	0.0721	0.00204	"	0.204	ND	35.3	80-120			QM-05
Xylene (o)	0.0358	0.00102	"	0.102	ND	35.1	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.134		"	0.122		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.122		103	80-120			

Matrix Spike Dup (P0L1004-MSD1)

Source: 0L04003-03

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.0780	0.00102	mg/kg dry	0.102	ND	76.4	80-120	4.03	20	QM-05
Toluene	0.0583	0.00102	"	0.102	ND	57.1	80-120	1.54	20	QM-05
Ethylbenzene	0.0520	0.00102	"	0.102	ND	51.0	80-120	2.66	20	QM-05
Xylene (p/m)	0.0767	0.00204	"	0.204	ND	37.6	80-120	6.09	20	QM-05
Xylene (o)	0.0379	0.00102	"	0.102	ND	37.1	80-120	5.54	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.126		"	0.122		103	80-120			
Surrogate: 1,4-Difluorobenzene	0.133		"	0.122		109	80-120			

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
 505 N. Big Spring Street #301A
 Midland TX, 79701

Project: Cimarex Dos Equis Closure
 Project Number: 725070635031
 Project Manager: Hank W McConnell

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L1005 - *** DEFAULT PREP ***										
Blank (P0L1005-BLK1) Prepared & Analyzed: 12/10/20										
% Moisture	ND	0.1	%							
Blank (P0L1005-BLK2) Prepared & Analyzed: 12/10/20										
% Moisture	ND	0.1	%							
Blank (P0L1005-BLK3) Prepared & Analyzed: 12/10/20										
% Moisture	ND	0.1	%							
Blank (P0L1005-BLK4) Prepared & Analyzed: 12/10/20										
% Moisture	ND	0.1	%							
Blank (P0L1005-BLK5) Prepared & Analyzed: 12/10/20										
% Moisture	ND	0.1	%							
Blank (P0L1005-BLK6) Prepared & Analyzed: 12/10/20										
% Moisture	ND	0.1	%							
Duplicate (P0L1005-DUP1) Source: 0L09002-04 Prepared & Analyzed: 12/10/20										
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P0L1005-DUP2) Source: 0L09003-01 Prepared & Analyzed: 12/10/20										
% Moisture	16.0	0.1	%		16.0			0.00	20	
Duplicate (P0L1005-DUP3) Source: 0L09006-02 Prepared & Analyzed: 12/10/20										
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P0L1005-DUP4) Source: 0L09010-02 Prepared & Analyzed: 12/10/20										
% Moisture	7.0	0.1	%		7.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

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Project Number: 725070635031
Project Manager: Hank W McConnell

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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L1005 - *** DEFAULT PREP ***										
Duplicate (P0L1005-DUP5) Source: 0L09012-01 Prepared & Analyzed: 12/10/20										
% Moisture	17.0	0.1	%		17.0			0.00	20	
Duplicate (P0L1005-DUP6) Source: 0L09012-11 Prepared & Analyzed: 12/10/20										
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P0L1005-DUP7) Source: 0L09015-14 Prepared & Analyzed: 12/10/20										
% Moisture	12.0	0.1	%		11.0			8.70	20	
Duplicate (P0L1005-DUP8) Source: 0L09016-01 Prepared & Analyzed: 12/10/20										
% Moisture	5.0	0.1	%		4.0			22.2	20	R3
Duplicate (P0L1005-DUP9) Source: 0L09019-06 Prepared & Analyzed: 12/10/20										
% Moisture	4.0	0.1	%		3.0			28.6	20	R3
Duplicate (P0L1005-DUPA) Source: 0L09020-10 Prepared & Analyzed: 12/10/20										
% Moisture	12.0	0.1	%		12.0			0.00	20	
Batch P0L1007 - *** DEFAULT PREP ***										
Blank (P0L1007-BLK1) Prepared & Analyzed: 12/10/20										
Chloride	ND	1.00	mg/kg wet							
LCS (P0L1007-BS1) Prepared & Analyzed: 12/10/20										
Chloride	430	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P0L1007-BSD1) Prepared & Analyzed: 12/10/20										
Chloride	431	1.00	mg/kg wet	400		108	80-120	0.102	20	

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Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L1007 - *** DEFAULT PREP ***										
Calibration Check (P0L1007-CCV1)				Prepared & Analyzed: 12/10/20						
Chloride	21.4		mg/kg	20.0		107	0-200			
Calibration Check (P0L1007-CCV2)				Prepared & Analyzed: 12/10/20						
Chloride	22.1		mg/kg	20.0		110	0-200			
Calibration Check (P0L1007-CCV3)				Prepared: 12/10/20 Analyzed: 12/11/20						
Chloride	22.7		mg/kg	20.0		114	0-200			
Matrix Spike (P0L1007-MS1)				Source: 0L08001-23			Prepared & Analyzed: 12/10/20			
Chloride	601	1.11	mg/kg dry	556	28.9	103	80-120			
Matrix Spike (P0L1007-MS2)				Source: 0L09002-07			Prepared & Analyzed: 12/10/20			
Chloride	559	1.02	mg/kg dry	510	15.3	107	80-120			
Matrix Spike Dup (P0L1007-MSD1)				Source: 0L08001-23			Prepared & Analyzed: 12/10/20			
Chloride	612	1.11	mg/kg dry	556	28.9	105	80-120	1.82	20	
Matrix Spike Dup (P0L1007-MSD2)				Source: 0L09002-07			Prepared & Analyzed: 12/10/20			
Chloride	556	1.02	mg/kg dry	510	15.3	106	80-120	0.562	20	

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Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0907 - TX 1005										
Blank (P0L0907-BLK1)										
Prepared & Analyzed: 12/09/20										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	54.4		"	50.0		109	70-130			
LCS (P0L0907-BS1)										
Prepared & Analyzed: 12/09/20										
C6-C12	1000	25.0	mg/kg wet	1000		100	75-125			
>C12-C28	1180	25.0	"	1000		118	75-125			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	57.0		"	50.0		114	70-130			
LCS Dup (P0L0907-BSD1)										
Prepared & Analyzed: 12/09/20										
C6-C12	1010	25.0	mg/kg wet	1000		101	75-125	1.25	20	
>C12-C28	1160	25.0	"	1000		116	75-125	1.63	20	
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	60.1		"	50.0		120	70-130			
Calibration Check (P0L0907-CCV1)										
Prepared & Analyzed: 12/09/20										
C6-C12	519	25.0	mg/kg wet	500		104	85-115			
>C12-C28	567	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	57.6		"	50.0		115	70-130			
Calibration Check (P0L0907-CCV2)										
Prepared & Analyzed: 12/09/20										
C6-C12	479	25.0	mg/kg wet	500		95.9	85-115			
>C12-C28	555	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	54.0		"	50.0		108	70-130			

Permian Basin Environmental Lab, L.P.

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Apex Environmental
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Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0L0907 - TX 1005**Matrix Spike (P0L0907-MS1)**

Source: 0L08003-01

Prepared: 12/09/20 Analyzed: 12/10/20

C6-C12	943	25.3	mg/kg dry	1010	13.7	92.0	75-125			
>C12-C28	1140	25.3	"	1010	12.4	112	75-125			
Surrogate: 1-Chlorooctane	125		"	101		123	70-130			
Surrogate: o-Terphenyl	56.4		"	50.5		112	70-130			

Matrix Spike Dup (P0L0907-MSD1)

Source: 0L08003-01

Prepared: 12/09/20 Analyzed: 12/10/20

C6-C12	901	25.3	mg/kg dry	1010	13.7	87.8	75-125	4.70	20	
>C12-C28	1070	25.3	"	1010	12.4	104	75-125	6.58	20	
Surrogate: 1-Chlorooctane	113		"	101		112	70-130			
Surrogate: o-Terphenyl	46.8		"	50.5		92.7	70-130			

Batch P0L0910 - TX 1005**Blank (P0L0910-BLK1)**

Prepared: 12/09/20 Analyzed: 12/11/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	56.6		"	50.0		113	70-130			

LCS (P0L0910-BS1)

Prepared: 12/09/20 Analyzed: 12/11/20

C6-C12	981	25.0	mg/kg wet	1000		98.1	75-125			
>C12-C28	1160	25.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	60.1		"	50.0		120	70-130			

LCS Dup (P0L0910-BSD1)

Prepared: 12/09/20 Analyzed: 12/11/20

C6-C12	967	25.0	mg/kg wet	1000		96.7	75-125	1.44	20	
>C12-C28	1160	25.0	"	1000		116	75-125	0.685	20	
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	59.6		"	50.0		119	70-130			

Permian Basin Environmental Lab, L.P.

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Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L0910 - TX 1005										
Calibration Check (P0L0910-CCV1)										
				Prepared: 12/09/20 Analyzed: 12/11/20						
C6-C12	474	25.0	mg/kg wet	500		94.8	85-115			
>C12-C28	574	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	56.3		"	50.0		113	70-130			
Calibration Check (P0L0910-CCV2)										
				Prepared: 12/09/20 Analyzed: 12/11/20						
C6-C12	500	25.0	mg/kg wet	500		100	85-115			
>C12-C28	572	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	57.7		"	50.0		115	70-130			
Matrix Spike (P0L0910-MS1)										
		Source: 0L09005-01		Prepared: 12/09/20 Analyzed: 12/11/20						
C6-C12	986	26.0	mg/kg dry	1040	16.1	93.1	75-125			
>C12-C28	1620	26.0	"	1040	700	87.8	75-125			
Surrogate: 1-Chlorooctane	120		"	104		115	70-130			
Surrogate: o-Terphenyl	54.2		"	52.1		104	70-130			
Matrix Spike Dup (P0L0910-MSD1)										
		Source: 0L09005-01		Prepared: 12/09/20 Analyzed: 12/11/20						
C6-C12	995	26.0	mg/kg dry	1040	16.1	94.0	75-125	0.922	20	
>C12-C28	1690	26.0	"	1040	700	95.5	75-125	8.34	20	
Surrogate: 1-Chlorooctane	122		"	104		117	70-130			
Surrogate: o-Terphenyl	57.8		"	52.1		111	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

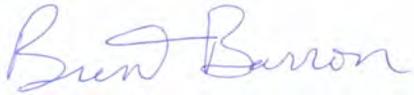
Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

Notes and Definitions

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- ROI Received on Ice
- R3 The RPD exceeded the acceptance limit due to sample matrix effects.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- BULK Samples received in Bulk soil containers
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:  Date: 12/15/2020

Brent Barron, Laboratory Director/Technical Director

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis Closure
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

0109002

CHAIN OF CUSTODY RECORD

APEX
 Office Location Midland
505 N. Big Spring St. 301A
Midland, TX 79701
 Project Manager H. McConnell

Laboratory: PBEL
 Address: 1400 Rankin Hwy
Midland, TX 79701
 Contact: B. Barron
 Phone: _____
 PO/SO #: _____

ANALYSIS REQUESTED
BTEX
TPH 8015 (GRO, PRG, MRO)
Chlorides 300

Lab use only
 Due Date: _____
 Temp. of coolers when received (C°):
 1 | 2 | 3 | 4 | 5
 Page 1 of 2

Sampler's Name: John Faught
 Sampler's Signature: [Signature]

Proj. No. 725070635031
 Project Name Cimarron Dos Equis 12-3H
 No/Type of Containers 13

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1Ll.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
1 5	12/8/20	10:10	X		ESH3	0	1.5'				X		X X X
2 5		10:15	X		ESH4	0	1.5'				X		X L X
3 5		10:22	X		SSH2	0	2.5'				X		X X X
4 5		10:30	X		WSH4	0	2.5'				X		X X X
5 5		10:36	X		NSH2	0	2.5'				X		X X X
6 5		10:45	X		WSH3	0	1.5'				X		X X X
7 5		11:00	X		SH6	0	2.5'				X		X L X
8 5		11:05	X		SH7	0	2.5'				X		X L X
9 5		11:16	X		SH8	0	3"				X		X L X
10 5		11:20	X		SH9	0	3"				X		X X X

Turn around time Normal 25% Rush 50% Rush 100% Rush

Relinquished by (Signature) [Signature] Date: 12/8 Time: 10:50 Received by: (Signature) _____ Date: _____ Time: _____

Relinquished by (Signature) _____ Date: _____ Time: _____ Received by: (Signature) _____ Date: _____ Time: _____

Relinquished by (Signature) _____ Date: _____ Time: _____ Received by: (Signature) _____ Date: _____ Time: _____

Relinquished by (Signature) _____ Date: _____ Time: _____ Received by: (Signature) _____ Date: 12/8/20 Time: 11:50

Matrix Container: WW - Wastewater, W - Water, S - Soil, SD - Solid, L - Liquid, A - Air Bag, C - Charcoal tube, SL - Sludge, O - Oil
 VOA - 40 ml vial, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other

4011050 CFU

0109002

CHAIN OF CUSTODY RECORD



Office Location Midland
505 N. Big Spring TX
Midland, TX 79701

Project Manager H. McConnell

Laboratory: PBEL
 Address: 1400 Rankin Hwy
Midland, TX 79701
 Contact: B. Barron
 Phone: _____
 PO/SO #: _____

ANALYSIS REQUESTED

BTEX
TPH 8015 (GPO, DPO, MPO)
Chlorides 300

Lab use only
 Due Date: _____
 Temp. of coolers when received (C°):

1	2	3	4	5
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 Page 2 of 2

Sampler's Name John Faught Sampler's Signature *John Faught*

Proj. No. 725070435031 Project Name Cimarex Dos Equis 12-3H No/Type of Containers 13

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1Ll.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)		
S	12/8/20	1228	X		BH1	25'	2.5'				X		X	X	
S		1300			BH2	25'	2.5'				X		X	X	
S		1305			BH3	0	3"				X		X	X	
NFE															

Turn around time Normal 25% Rush 50% Rush 100% Rush

Relinquished by (Signature) <i>John Faught</i>	Date: <u>12/19/20</u>	Time: <u>1650</u>	Received by: (Signature) <i>[Signature]</i>	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature) <i>[Signature]</i>	Date: <u>12/20</u>	Time: <u>1100</u>

NOTES:

Matrix Container: WW - Wastewater, VOA - 40 ml vial, W - Water, S - Soil, SD - Solid, L - Liquid, A - Air Bag, C - Charcoal tube, SL - Sludge, O - Oil, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other

W0710 50 CFL

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Hank W McConnell
Apex Environmental
505 N. Big Spring Street #301A
Midland, TX 79701

Project: Cimarex Dos Equis 12-3H

Project Number: 725070635031

Location: New Mexico

Lab Order Number: 0L11004



NELAP/TCEQ # T104704516-17-8

Report Date: 12/21/20

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH4 @ 2.5'	0L11004-01	Soil	12/08/20 12:15	12-11-2020 10:37
BH5 @ 1.5'	0L11004-02	Soil	12/08/20 12:18	12-11-2020 10:37
BH6 @ 1.5'	0L11004-03	Soil	12/08/20 12:22	12-11-2020 10:37
BH7 @ 1.5'	0L11004-04	Soil	12/08/20 12:25	12-11-2020 10:37
BH8 @ 1'	0L11004-05	Soil	12/08/20 12:53	12-11-2020 10:37

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH4 @ 2.5'
0L11004-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Toluene	ND	0.00204	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.0 %	80-120		P0L1612	12/14/20	12/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	80-120		P0L1612	12/14/20	12/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	540	1.02	mg/kg dry	1	P0L1008	12/10/20	12/11/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0L1404	12/14/20	12/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
>C12-C28	614	25.5	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
>C28-C35	106	25.5	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.1 %	70-130		P0L1401	12/14/20	12/14/20	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P0L1401	12/14/20	12/14/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	720	25.5	mg/kg dry	1	[CALC]	12/14/20	12/14/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH5 @ 1.5'
0L11004-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Toluene	ND	0.00206	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	80-120		P0L1612	12/14/20	12/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.8 %	80-120		P0L1612	12/14/20	12/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	77.9	1.03	mg/kg dry	1	P0L1008	12/10/20	12/11/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0L1404	12/14/20	12/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
>C12-C28	118	25.8	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.3 %	70-130		P0L1401	12/14/20	12/14/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0L1401	12/14/20	12/14/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	118	25.8	mg/kg dry	1	[CALC]	12/14/20	12/14/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH6 @ 1.5'
0L11004-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	80-120		P0L1612	12/14/20	12/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	80-120		P0L1612	12/14/20	12/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	262	1.01	mg/kg dry	1	P0L1008	12/10/20	12/11/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0L1404	12/14/20	12/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	38.7	25.3	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
>C12-C28	1710	25.3	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
>C28-C35	230	25.3	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.8 %	70-130		P0L1401	12/14/20	12/14/20	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P0L1401	12/14/20	12/14/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	1980	25.3	mg/kg dry	1	[CALC]	12/14/20	12/14/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
 505 N. Big Spring Street #301A
 Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
 Project Number: 725070635031
 Project Manager: Hank W McConnell

Fax:

BH7 @ 1.5'
0L11004-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Toluene	ND	0.00204	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	80-120		P0L1612	12/14/20	12/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	80-120		P0L1612	12/14/20	12/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	355	1.02	mg/kg dry	1	P0L1403	12/14/20	12/14/20	EPA 300.0	
% Moisture	2.0	0.1	%	1	P0L1404	12/14/20	12/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
>C12-C28	323	25.5	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
>C28-C35	69.7	25.5	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
Surrogate: 1-Chlorooctane		98.3 %	70-130		P0L1401	12/14/20	12/14/20	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0L1401	12/14/20	12/14/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	393	25.5	mg/kg dry	1	[CALC]	12/14/20	12/14/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH8 @ 1'
0L11004-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00101	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Toluene	ND	0.00202	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P0L1612	12/14/20	12/16/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	80-120		P0L1612	12/14/20	12/16/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	80-120		P0L1612	12/14/20	12/16/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	492	1.01	mg/kg dry	1	P0L1403	12/14/20	12/14/20	EPA 300.0	
% Moisture	1.0	0.1	%	1	P0L1404	12/14/20	12/14/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
>C12-C28	218	25.3	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
>C28-C35	72.0	25.3	mg/kg dry	1	P0L1401	12/14/20	12/14/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.3 %	70-130		P0L1401	12/14/20	12/14/20	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P0L1401	12/14/20	12/14/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	290	25.3	mg/kg dry	1	[CALC]	12/14/20	12/14/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0L1612 - General Preparation (GC)**Blank (P0L1612-BLK1)**

Prepared: 12/14/20 Analyzed: 12/16/20

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			

LCS (P0L1612-BS1)

Prepared: 12/14/20 Analyzed: 12/16/20

Benzene	0.118	0.00100	mg/kg wet	0.100		118	70-130			
Toluene	0.119	0.00200	"	0.100		119	70-130			
Ethylbenzene	0.118	0.00100	"	0.100		118	70-130			
Xylene (p/m)	0.237	0.00200	"	0.200		118	70-130			
Xylene (o)	0.106	0.00100	"	0.100		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.136		"	0.120		114	80-120			

LCS Dup (P0L1612-BSD1)

Prepared: 12/14/20 Analyzed: 12/16/20

Benzene	0.107	0.00100	mg/kg wet	0.100		107	70-130	9.55	20	
Toluene	0.102	0.00200	"	0.100		102	70-130	15.3	20	
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130	15.4	20	
Xylene (p/m)	0.198	0.00200	"	0.200		99.2	70-130	17.5	20	
Xylene (o)	0.0919	0.00100	"	0.100		91.9	70-130	14.5	20	
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	80-120			

Calibration Check (P0L1612-CCV1)

Prepared: 12/14/20 Analyzed: 12/16/20

Benzene	0.118	0.00100	mg/kg wet	0.100		118	80-120			
Toluene	0.118	0.00200	"	0.100		118	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.233	0.00200	"	0.200		117	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.5	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0L1612 - General Preparation (GC)**Calibration Check (P0L1612-CCV2)**

Prepared: 12/14/20 Analyzed: 12/16/20

Benzene	0.117	0.00100	mg/kg wet	0.100		117	80-120			
Toluene	0.112	0.00200	"	0.100		112	80-120			
Ethylbenzene	0.116	0.00100	"	0.100		116	80-120			
Xylene (p/m)	0.217	0.00200	"	0.200		109	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		99.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		104	75-125			

Calibration Check (P0L1612-CCV3)

Prepared: 12/14/20 Analyzed: 12/17/20

Benzene	0.117	0.00100	mg/kg wet	0.100		117	80-120			
Toluene	0.115	0.00200	"	0.100		115	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.219	0.00200	"	0.200		110	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			

Matrix Spike (P0L1612-MS1)

Source: 0L09009-03

Prepared: 12/14/20 Analyzed: 12/17/20

Benzene	0.0595	0.00104	mg/kg dry	0.104	ND	57.1	80-120			QM-07
Toluene	0.0478	0.00208	"	0.104	0.00148	44.5	80-120			QM-07
Ethylbenzene	0.0332	0.00104	"	0.104	ND	31.9	80-120			QM-07
Xylene (p/m)	0.0483	0.00208	"	0.208	ND	23.2	80-120			QM-07
Xylene (o)	0.0189	0.00104	"	0.104	ND	18.1	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.143		"	0.125		114	80-120			
Surrogate: 4-Bromofluorobenzene	0.222		"	0.125		178	80-120			S-GC

Matrix Spike Dup (P0L1612-MSD1)

Source: 0L09009-03

Prepared: 12/14/20 Analyzed: 12/17/20

Benzene	0.0562	0.00104	mg/kg dry	0.104	ND	53.9	80-120	5.74	20	QM-07
Toluene	0.0395	0.00208	"	0.104	0.00148	36.5	80-120	19.6	20	QM-07
Ethylbenzene	0.0266	0.00104	"	0.104	ND	25.5	80-120	22.1	20	QM-07
Xylene (p/m)	0.0354	0.00208	"	0.208	ND	17.0	80-120	30.7	20	QM-07
Xylene (o)	0.0171	0.00104	"	0.104	ND	16.4	80-120	9.72	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.128		"	0.125		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.139		"	0.125		111	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L1008 - *** DEFAULT PREP ***										
Blank (P0L1008-BLK1)										
Chloride	ND	1.00	mg/kg wet							Prepared: 12/10/20 Analyzed: 12/11/20
LCS (P0L1008-BS1)										
Chloride	430	1.00	mg/kg wet	400		107	80-120			Prepared: 12/10/20 Analyzed: 12/11/20
LCS Dup (P0L1008-BSD1)										
Chloride	440	1.00	mg/kg wet	400		110	80-120	2.23	20	Prepared: 12/10/20 Analyzed: 12/11/20
Calibration Check (P0L1008-CCV1)										
Chloride	21.5		mg/kg	20.0		107	0-200			Prepared: 12/10/20 Analyzed: 12/11/20
Calibration Check (P0L1008-CCV2)										
Chloride	24.0		mg/kg	20.0		120	0-200			Prepared: 12/10/20 Analyzed: 12/11/20
Calibration Check (P0L1008-CCV3)										
Chloride	19.4		mg/kg	20.0		96.8	0-200			Prepared: 12/10/20 Analyzed: 12/14/20
Matrix Spike (P0L1008-MS1)										
Chloride	601	1.05	mg/kg dry	526	38.2	107	80-120			Source: 0L09010-04 Prepared: 12/10/20 Analyzed: 12/11/20
Matrix Spike (P0L1008-MS2)										
Chloride	585	1.05	mg/kg dry	526	31.4	105	80-120			Source: 0L09015-16 Prepared: 12/10/20 Analyzed: 12/11/20
Matrix Spike Dup (P0L1008-MSD1)										
Chloride	611	1.05	mg/kg dry	526	38.2	109	80-120	1.51	20	Source: 0L09010-04 Prepared: 12/10/20 Analyzed: 12/11/20
Matrix Spike Dup (P0L1008-MSD2)										
Chloride	576	1.05	mg/kg dry	526	31.4	104	80-120	1.45	20	Source: 0L09015-16 Prepared: 12/10/20 Analyzed: 12/11/20

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
 505 N. Big Spring Street #301A
 Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
 Project Number: 725070635031
 Project Manager: Hank W McConnell

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0L1403 - *** DEFAULT PREP ***										
Blank (P0L1403-BLK1) Prepared & Analyzed: 12/14/20										
Chloride	ND	1.00	mg/kg wet							
LCS (P0L1403-BS1) Prepared & Analyzed: 12/14/20										
Chloride	430	1.00	mg/kg wet	400		107	80-120			
LCS Dup (P0L1403-BSD1) Prepared & Analyzed: 12/14/20										
Chloride	421	1.00	mg/kg wet	400		105	80-120	2.03	20	
Calibration Check (P0L1403-CCV1) Prepared & Analyzed: 12/14/20										
Chloride	21.3		mg/kg	20.0		106	0-200			
Calibration Check (P0L1403-CCV2) Prepared & Analyzed: 12/14/20										
Chloride	22.1		mg/kg	20.0		110	0-200			
Calibration Check (P0L1403-CCV3) Prepared & Analyzed: 12/14/20										
Chloride	21.6		mg/kg	20.0		108	0-200			
Matrix Spike (P0L1403-MS1) Source: 0L08001-02 Prepared & Analyzed: 12/14/20										
Chloride	1730	5.75	mg/kg dry	575	1200	92.5	80-120			
Matrix Spike (P0L1403-MS2) Source: 0L11004-04 Prepared & Analyzed: 12/14/20										
Chloride	897	1.02	mg/kg dry	510	355	106	80-120			
Matrix Spike Dup (P0L1403-MSD1) Source: 0L08001-02 Prepared & Analyzed: 12/14/20										
Chloride	1770	5.75	mg/kg dry	575	1200	98.2	80-120	1.89	20	
Matrix Spike Dup (P0L1403-MSD2) Source: 0L11004-04 Prepared & Analyzed: 12/14/20										
Chloride	880	1.02	mg/kg dry	510	355	103	80-120	1.81	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
 505 N. Big Spring Street #301A
 Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
 Project Number: 725070635031
 Project Manager: Hank W McConnell

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0L1404 - * DEFAULT PREP *****

Blank (P0L1404-BLK1)

Prepared & Analyzed: 12/14/20

% Moisture	ND	0.1	%							
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Duplicate (P0L1404-DUP1)

Source: 0L11004-05

Prepared & Analyzed: 12/14/20

% Moisture	1.0	0.1	%		1.0			0.00	20	
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Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P0L1401 - TX 1005**Calibration Check (P0L1401-CCV2)**

Prepared & Analyzed: 12/14/20

C6-C12	502	25.0	mg/kg wet	500		100	85-115			
>C12-C28	558	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	51.2		"	50.0		102	70-130			

Matrix Spike (P0L1401-MS1)

Source: 0L11004-05

Prepared & Analyzed: 12/14/20

C6-C12	917	25.3	mg/kg dry	1010	ND	90.8	75-125			
>C12-C28	1200	25.3	"	1010	218	96.8	75-125			
Surrogate: 1-Chlorooctane	120		"	101		119	70-130			
Surrogate: o-Terphenyl	54.1		"	50.5		107	70-130			

Matrix Spike Dup (P0L1401-MSD1)

Source: 0L11004-05

Prepared & Analyzed: 12/14/20

C6-C12	911	25.3	mg/kg dry	1010	ND	90.2	75-125	0.667	20	
>C12-C28	1160	25.3	"	1010	218	93.3	75-125	3.66	20	
Surrogate: 1-Chlorooctane	120		"	101		119	70-130			
Surrogate: o-Terphenyl	53.5		"	50.5		106	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

Notes and Definitions

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- ROI Received on Ice
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- BULK Samples received in Bulk soil containers
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:  Date: 12/21/2020

Brent Barron, Laboratory Director/Technical Director

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If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

0L11004

CHAIN OF CUSTODY RECORD



Office Location Midland
505 N. Big Spring Ste. 301A
Midland, TX 79701

Laboratory: PBEL
Address: 1400 Rankin Hwy
Midland, TX 79701
Contact: B. Barron
Phone: _____
PO/SO #: _____

ANALYSIS REQUESTED

BTEX
TPH 80ISM (DEQ 600, MPO)
Chlorides EPA 300

Lab use only
Due Date: _____
Temp. of coolers when received (C°):
1 2 3 4 5
Page 1 of 1

Sampler's Name John Faught Sampler's Signature *John Faught*

Proj. No. 725070635031 Project Name Cimarron Dos Equis 12-3H No/Type of Containers 5

Matrix	Date	Time	Coed	Grd	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	AG 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
1 S	12/8/20	1215	X		BH4	25'	25'				1		X X X
2 S	12/8/20	1218	X		BH5	1.5'	1.5'				1		X X X
3 S	12/8/20	1222	X		BH6	1.5'	1.5'				1		X X X
4 S	12/8/20	1225	X		BH7	1.5'	1.5'				1		X X X
5 S	12/8/20	1253	X		BH8	1'	1'				1		X X X
<i>NFE</i> <i>(JP)</i>													

Turn around time Normal 25% Rush 50% Rush 100% Rush

Relinquished by (Signature) <i>John Faught</i>	Date: <u>12/11/20</u>	Time: <u>10:37</u>	Received by: (Signature) <i>Hana Bednec</i>	Date: <u>12/11/20</u>	Time: <u>10:57</u>
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:
4.8 CFH
5.8 L2

Matrix Container WW - Wastewater VOA - 40 ml vial W - Water A/G - Amber / Or Glass 1 Liter S - Soil SD - Solid L - Liquid 250 ml - Glass wide mouth A - Air Bag C - Charcoal tube SL - Sludge O - Oil P/O - Plastic or other

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Hank W McConnell
Apex Environmental
505 N. Big Spring Street #301A
Midland, TX 79701

Project: Cimarex Dos Equis 12-3H

Project Number: 725070635031

Location: New Mexico

Lab Order Number: 1A14003



NELAP/TCEQ # T104704516-17-8

Report Date: 01/25/21

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SH14 @ 0-3.5'	1A14003-01	Soil	01/12/21 12:50	01-14-2021 09:52
SH13 @ 2'-2'	1A14003-02	Soil	01/12/21 13:00	01-14-2021 09:52
BH-10 @ 4'	1A14003-03	Soil	01/12/21 13:10	01-14-2021 09:52
BH9 @ 4'	1A14003-04	Soil	01/12/21 15:03	01-14-2021 09:52
SH12 @ 0-2.5'	1A14003-05	Soil	01/12/21 15:08	01-14-2021 09:52
SH15 @ 0-2.5'	1A14003-06	Soil	01/12/21 15:13	01-14-2021 09:52
SH16 @ 0-2.5'	1A14003-07	Soil	01/12/21 15:18	01-14-2021 09:52
SH17 @ 2'-2'	1A14003-08	Soil	01/12/21 15:23	01-14-2021 09:52
SH10 @ 0-3.5'	1A14003-09	Soil	01/12/21 16:35	01-14-2021 09:52
BH13 @ 3.5'	1A14003-10	Soil	01/12/21 16:51	01-14-2021 09:52
SH11 @ 0-4'	1A14003-11	Soil	01/13/21 11:30	01-14-2021 09:52
BH14 @ 4'	1A14003-12	Soil	01/13/21 11:33	01-14-2021 09:52
BH15 @ 4'	1A14003-13	Soil	01/13/21 11:36	01-14-2021 09:52
BH16 @ 4'	1A14003-14	Soil	01/13/21 11:40	01-14-2021 09:52
BH11 @ 3.5'	1A14003-15	Soil	01/13/21 11:25	01-14-2021 09:52
BH12 @ 4'	1A14003-16	Soil	01/13/21 12:35	01-14-2021 09:52
BACKFILL	1A14003-17	Soil	01/13/21 12:20	01-14-2021 09:52

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SH14 @ 0-3.5'
1A14003-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	0.00720	0.00108	mg/kg dry	1	PIA1403	01/14/21	01/14/21	EPA 8021B	
Toluene	0.356	0.00108	mg/kg dry	1	PIA1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	0.317	0.00108	mg/kg dry	1	PIA1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	0.818	0.00215	mg/kg dry	1	PIA1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	0.236	0.00108	mg/kg dry	1	PIA1403	01/14/21	01/14/21	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		50.4 %	80-120		PIA1403	01/14/21	01/14/21	EPA 8021B	S-GC
<i>Surrogate: 1,4-Difluorobenzene</i>		90.0 %	80-120		PIA1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	121	1.08	mg/kg dry	1	PIA1503	01/15/21	01/17/21	EPA 300.0	
% Moisture	7.0	0.1	%	1	PIA1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	521	26.9	mg/kg dry	1	PIA1404	01/14/21	01/16/21	TPH 8015M	
>C12-C28	4380	26.9	mg/kg dry	1	PIA1404	01/14/21	01/16/21	TPH 8015M	
>C28-C35	452	26.9	mg/kg dry	1	PIA1404	01/14/21	01/16/21	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		118 %	70-130		PIA1404	01/14/21	01/16/21	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		128 %	70-130		PIA1404	01/14/21	01/16/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	5350	26.9	mg/kg dry	1	[CALC]	01/14/21	01/16/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SH13 @ 2'-2'
1A14003-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Toluene	0.00141	0.00105	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-120		P1A1403	01/14/21	01/15/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.3 %	80-120		P1A1403	01/14/21	01/15/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	209	1.05	mg/kg dry	1	P1A1503	01/15/21	01/18/21	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
>C12-C28	45.9	26.3	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-130		P1A1404	01/14/21	01/16/21	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P1A1404	01/14/21	01/16/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	45.9	26.3	mg/kg dry	1	[CALC]	01/14/21	01/16/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH-10 @ 4'
1A14003-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.9 %	80-120		P1A1403	01/14/21	01/15/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-120		P1A1403	01/14/21	01/15/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	169	1.11	mg/kg dry	1	P1A1503	01/15/21	01/18/21	EPA 300.0	
% Moisture	10.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
>C12-C28	29.8	27.8	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P1A1404	01/14/21	01/16/21	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P1A1404	01/14/21	01/16/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	29.8	27.8	mg/kg dry	1	[CALC]	01/14/21	01/16/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH9 @ 4'
1A14003-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1A1403	01/14/21	01/15/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.9 %	80-120		P1A1403	01/14/21	01/15/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.1 %	80-120		P1A1403	01/14/21	01/15/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	88.9	1.09	mg/kg dry	1	P1A1503	01/15/21	01/17/21	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P1A1404	01/14/21	01/16/21	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P1A1404	01/14/21	01/16/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	01/14/21	01/16/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SH12 @ 0-2.5'
1A14003-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.3 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	139	1.06	mg/kg dry	1	P1A1503	01/15/21	01/17/21	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P1A1404	01/14/21	01/16/21	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P1A1404	01/14/21	01/16/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	01/14/21	01/16/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SH15 @ 0-2.5'
1A14003-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.9 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.0 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5.33	1.04	mg/kg dry	1	P1A1503	01/15/21	01/17/21	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P1A1404	01/14/21	01/16/21	TPH 8015M	
Surrogate: 1-Chlorooctane		118 %	70-130		P1A1404	01/14/21	01/16/21	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P1A1404	01/14/21	01/16/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/14/21	01/16/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SH16 @ 0-2.5'
1A14003-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.9 %		80-120	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.6 %		80-120	P1A1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	223	1.04	mg/kg dry	1	P1A1503	01/15/21	01/17/21	EPA 300.0	
% Moisture	4.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %		70-130	P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: o-Terphenyl		110 %		70-130	P1A1406	01/14/21	01/14/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	01/14/21	01/14/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SH17 @ 2'-2'
1A14003-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.0 %		80-120	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.6 %		80-120	P1A1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	101	1.05	mg/kg dry	1	P1A1503	01/15/21	01/17/21	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %		70-130	P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: o-Terphenyl		112 %		70-130	P1A1406	01/14/21	01/14/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/14/21	01/14/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SH10 @ 0-3.5'
1A14003-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.6 %		80-120	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.9 %		80-120	P1A1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	240	1.08	mg/kg dry	1	P1A1503	01/15/21	01/17/21	EPA 300.0	
% Moisture	7.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: 1-Chlorooctane		113 %		70-130	P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: o-Terphenyl		113 %		70-130	P1A1406	01/14/21	01/14/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	01/14/21	01/14/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH13 @ 3.5'
1A14003-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.0 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.7 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	235	1.09	mg/kg dry	1	P1A1503	01/15/21	01/17/21	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C12-C28	32.9	27.2	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P1A1406	01/14/21	01/14/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	32.9	27.2	mg/kg dry	1	[CALC]	01/14/21	01/14/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SH11 @ 0-4'
1A14003-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.4 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.5 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	123	1.06	mg/kg dry	1	P1A1503	01/15/21	01/17/21	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P1A1406	01/14/21	01/14/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	01/14/21	01/14/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH14 @ 4'
1A14003-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.6 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.1 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.96	1.12	mg/kg dry	1	P1A1806	01/18/21	01/19/21	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: 1-Chlorooctane		88.2 %	70-130		P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: o-Terphenyl		92.0 %	70-130		P1A1406	01/14/21	01/14/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	01/14/21	01/14/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH15 @ 4'
1A14003-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.8 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.5 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.12	mg/kg dry	1	P1A1806	01/18/21	01/19/21	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: 1-Chlorooctane		112 %	70-130		P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P1A1406	01/14/21	01/14/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	01/14/21	01/14/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH16 @ 4'
1A14003-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.1 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.6 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.32	1.10	mg/kg dry	1	P1A1806	01/18/21	01/19/21	EPA 300.0	
% Moisture	9.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P1A1406	01/14/21	01/14/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	01/14/21	01/14/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH11 @ 3.5'
1A14003-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.4 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.1 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	166	1.09	mg/kg dry	1	P1A1806	01/18/21	01/19/21	EPA 300.0	
% Moisture	8.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P1A1406	01/14/21	01/14/21	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P1A1406	01/14/21	01/14/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	01/14/21	01/14/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH12 @ 4'
1A14003-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00112	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		90.9 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.1 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.12	mg/kg dry	1	P1A1806	01/18/21	01/19/21	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	28.1	mg/kg dry	1	P1A1406	01/14/21	01/15/21	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P1A1406	01/14/21	01/15/21	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P1A1406	01/14/21	01/15/21	TPH 8015M	
Surrogate: 1-Chlorooctane		98.6 %	70-130		P1A1406	01/14/21	01/15/21	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P1A1406	01/14/21	01/15/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	01/14/21	01/15/21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BACKFILL
1A14003-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.0 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.9 %	80-120		P1A1403	01/14/21	01/14/21	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	117	1.05	mg/kg dry	1	P1A1806	01/18/21	01/19/21	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1A1504	01/15/21	01/15/21	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1A1406	01/14/21	01/15/21	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1A1406	01/14/21	01/15/21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1A1406	01/14/21	01/15/21	TPH 8015M	
Surrogate: 1-Chlorooctane		117 %	70-130		P1A1406	01/14/21	01/15/21	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P1A1406	01/14/21	01/15/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	01/14/21	01/15/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1A1403 - General Preparation (GC)**Blank (P1A1403-BLK1)**

Prepared & Analyzed: 01/14/21

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.3	80-120			

LCS (P1A1403-BS1)

Prepared & Analyzed: 01/14/21

Benzene	0.105	0.00100	mg/kg wet	0.100		105	70-130			
Toluene	0.101	0.00100	"	0.100		101	70-130			
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130			
Xylene (p/m)	0.237	0.00200	"	0.200		118	70-130			
Xylene (o)	0.112	0.00100	"	0.100		112	70-130			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.6	80-120			

LCS Dup (P1A1403-BSD1)

Prepared & Analyzed: 01/14/21

Benzene	0.111	0.00100	mg/kg wet	0.100		111	70-130	5.26	20	
Toluene	0.113	0.00100	"	0.100		113	70-130	11.4	20	
Ethylbenzene	0.115	0.00100	"	0.100		115	70-130	12.8	20	
Xylene (p/m)	0.238	0.00200	"	0.200		119	70-130	0.766	20	
Xylene (o)	0.119	0.00100	"	0.100		119	70-130	6.01	20	
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	80-120			

Calibration Blank (P1A1403-CCB1)

Prepared & Analyzed: 01/14/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.2	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1A1403 - General Preparation (GC)**Calibration Blank (P1A1403-CCB2)**

Prepared & Analyzed: 01/14/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.5	80-120			

Calibration Blank (P1A1403-CCB3)

Prepared & Analyzed: 01/14/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.3	80-120			

Calibration Check (P1A1403-CCV1)

Prepared & Analyzed: 01/14/21

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.239	0.00200	"	0.200		120	80-120			
Xylene (o)	0.116	0.00100	"	0.100		116	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.1	75-125			

Calibration Check (P1A1403-CCV2)

Prepared & Analyzed: 01/14/21

Benzene	0.107	0.00100	mg/kg wet	0.100		107	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1A1403 - General Preparation (GC)**Calibration Check (P1A1403-CCV3)**

Prepared & Analyzed: 01/14/21

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.0	75-125			

Matrix Spike (P1A1403-MS1)

Source: 1A14003-17

Prepared & Analyzed: 01/14/21

Benzene	0.0855	0.00105	mg/kg dry	0.105	ND	81.2	80-120			
Toluene	0.0830	0.00105	"	0.105	0.000526	78.4	80-120			QM-07
Ethylbenzene	0.0913	0.00105	"	0.105	ND	86.7	80-120			
Xylene (p/m)	0.180	0.00211	"	0.211	ND	85.4	80-120			
Xylene (o)	0.0851	0.00105	"	0.105	ND	80.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.126		97.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.126		97.3	80-120			

Matrix Spike Dup (P1A1403-MSD1)

Source: 1A14003-17

Prepared & Analyzed: 01/14/21

Benzene	0.0870	0.00105	mg/kg dry	0.105	ND	82.7	80-120	1.81	20	
Toluene	0.0815	0.00105	"	0.105	0.000526	76.9	80-120	1.82	20	QM-07
Ethylbenzene	0.0909	0.00105	"	0.105	ND	86.4	80-120	0.404	20	
Xylene (p/m)	0.180	0.00211	"	0.211	ND	85.7	80-120	0.380	20	
Xylene (o)	0.0873	0.00105	"	0.105	ND	82.9	80-120	2.48	20	
Surrogate: 4-Bromofluorobenzene	0.121		"	0.126		96.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.126		94.1	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1A1503 - *** DEFAULT PREP ***										
Blank (P1A1503-BLK1) Prepared: 01/15/21 Analyzed: 01/18/21										
Chloride	ND	1.00	mg/kg wet							
LCS (P1A1503-BS1) Prepared: 01/15/21 Analyzed: 01/16/21										
Chloride	385	1.00	mg/kg wet	400		96.3	90-110			
LCS Dup (P1A1503-BSD1) Prepared: 01/15/21 Analyzed: 01/16/21										
Chloride	390	1.00	mg/kg wet	400		97.5	90-110	1.24	20	
Calibration Check (P1A1503-CCV1) Prepared: 01/15/21 Analyzed: 01/16/21										
Chloride	20.3		mg/kg	20.0		101	90-110			
Calibration Check (P1A1503-CCV2) Prepared: 01/15/21 Analyzed: 01/17/21										
Chloride	20.7		mg/kg	20.0		104	90-110			
Calibration Check (P1A1503-CCV3) Prepared: 01/15/21 Analyzed: 01/17/21										
Chloride	21.2		mg/kg	20.0		106	90-110			
Matrix Spike (P1A1503-MS1) Source: 1A13002-03 Prepared: 01/15/21 Analyzed: 01/17/21										
Chloride	4800	10.5	mg/kg dry	1050	3330	140	80-120			QM-05
Matrix Spike (P1A1503-MS2) Source: 1A14003-02 Prepared: 01/15/21 Analyzed: 01/17/21										
Chloride	755	1.05	mg/kg dry	526	209	104	80-120			
Matrix Spike Dup (P1A1503-MSD1) Source: 1A13002-03 Prepared: 01/15/21 Analyzed: 01/17/21										
Chloride	4880	10.5	mg/kg dry	1050	3330	147	80-120	1.62	20	QM-05
Matrix Spike Dup (P1A1503-MSD2) Source: 1A14003-02 Prepared: 01/15/21 Analyzed: 01/17/21										
Chloride	812	1.05	mg/kg dry	526	209	115	80-120	7.37	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1A1504 - * DEFAULT PREP *****

Blank (P1A1504-BLK1)				Prepared & Analyzed: 01/15/21						
% Moisture	ND	0.1	%							
Blank (P1A1504-BLK2)				Prepared & Analyzed: 01/15/21						
% Moisture	ND	0.1	%							
Duplicate (P1A1504-DUP1)				Source: 1A14002-04		Prepared & Analyzed: 01/15/21				
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P1A1504-DUP2)				Source: 1A14003-10		Prepared & Analyzed: 01/15/21				
% Moisture	8.0	0.1	%		8.0			0.00	20	
Duplicate (P1A1504-DUP3)				Source: 1A14004-08		Prepared & Analyzed: 01/15/21				
% Moisture	6.0	0.1	%		6.0			0.00	20	

Batch P1A1806 - * DEFAULT PREP *****

Blank (P1A1806-BLK1)				Prepared: 01/18/21 Analyzed: 01/19/21						
Chloride	ND	1.00	mg/kg wet							
LCS (P1A1806-BS1)				Prepared: 01/18/21 Analyzed: 01/19/21						
Chloride	364	1.00	mg/kg wet	400		90.9	90-110			
LCS Dup (P1A1806-BSD1)				Prepared: 01/18/21 Analyzed: 01/19/21						
Chloride	362	1.00	mg/kg wet	400		90.4	90-110	0.554	20	
Calibration Check (P1A1806-CCV1)				Prepared: 01/18/21 Analyzed: 01/19/21						
Chloride	19.5		mg/kg	20.0		97.7	90-110			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
 505 N. Big Spring Street #301A
 Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
 Project Number: 725070635031
 Project Manager: Hank W McConnell

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1A1806 - *** DEFAULT PREP ***										
Calibration Check (P1A1806-CCV2)				Prepared: 01/18/21 Analyzed: 01/19/21						
Chloride	19.3		mg/kg	20.0		96.7	90-110			
Calibration Check (P1A1806-CCV3)				Prepared: 01/18/21 Analyzed: 01/20/21						
Chloride	19.8		mg/kg	20.0		99.2	90-110			
Matrix Spike (P1A1806-MS1)				Source: 1A08016-02		Prepared: 01/18/21 Analyzed: 01/19/21				
Chloride	2470	5.43	mg/kg dry	543	2150	60.0	80-120			
Matrix Spike (P1A1806-MS2)				Source: 1A15013-01		Prepared: 01/18/21 Analyzed: 01/19/21				
Chloride	604	1.18	mg/kg dry	588	29.4	97.7	80-120			
Matrix Spike Dup (P1A1806-MSD1)				Source: 1A08016-02		Prepared: 01/18/21 Analyzed: 01/19/21				
Chloride	2600	5.43	mg/kg dry	543	2150	83.3	80-120	4.99	20	
Matrix Spike Dup (P1A1806-MSD2)				Source: 1A15013-01		Prepared: 01/18/21 Analyzed: 01/20/21				
Chloride	620	1.18	mg/kg dry	588	29.4	100	80-120	2.57	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1A1404 - TX 1005**Blank (P1A1404-BLK1)**

Prepared: 01/14/21 Analyzed: 01/15/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	92.4		"	100		92.4	70-130			
Surrogate: o-Terphenyl	47.2		"	50.0		94.5	70-130			

LCS (P1A1404-BS1)

Prepared: 01/14/21 Analyzed: 01/15/21

C6-C12	880	25.0	mg/kg wet	1000		88.0	75-125			
>C12-C28	957	25.0	"	1000		95.7	75-125			
Surrogate: 1-Chlorooctane	118		"	100		118	70-130			
Surrogate: o-Terphenyl	49.0		"	50.0		97.9	70-130			

LCS Dup (P1A1404-BSD1)

Prepared: 01/14/21 Analyzed: 01/15/21

C6-C12	914	25.0	mg/kg wet	1000		91.4	75-125	3.80	20	
>C12-C28	981	25.0	"	1000		98.1	75-125	2.52	20	
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	56.0		"	50.0		112	70-130			

Calibration Check (P1A1404-CCV1)

Prepared: 01/14/21 Analyzed: 01/15/21

C6-C12	467	25.0	mg/kg wet	500		93.4	85-115			
>C12-C28	478	25.0	"	500		95.6	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	47.0		"	50.0		94.0	70-130			

Calibration Check (P1A1404-CCV2)

Prepared: 01/14/21 Analyzed: 01/16/21

C6-C12	460	25.0	mg/kg wet	500		92.0	85-115			
>C12-C28	492	25.0	"	500		98.3	85-115			
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	48.0		"	50.0		96.0	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1A1404 - TX 1005**Matrix Spike (P1A1404-MS1)**

Source: 1A14003-06

Prepared: 01/14/21 Analyzed: 01/16/21

C6-C12	770	26.0	mg/kg dry	1040	ND	73.9	75-125			QM-05
>C12-C28	827	26.0	"	1040	ND	79.4	75-125			
Surrogate: 1-Chlorooctane	122		"	104		117	70-130			
Surrogate: o-Terphenyl	53.6		"	52.1		103	70-130			

Matrix Spike Dup (P1A1404-MSD1)

Source: 1A14003-06

Prepared: 01/14/21 Analyzed: 01/16/21

C6-C12	948	26.0	mg/kg dry	1040	ND	91.0	75-125	20.8	20	QM-05
>C12-C28	977	26.0	"	1040	ND	93.8	75-125	16.7	20	
Surrogate: 1-Chlorooctane	114		"	104		110	70-130			
Surrogate: o-Terphenyl	62.7		"	52.1		120	70-130			

Batch P1A1406 - TX 1005**Blank (P1A1406-BLK1)**

Prepared & Analyzed: 01/14/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	56.3		"	50.0		113	70-130			

LCS (P1A1406-BS1)

Prepared & Analyzed: 01/14/21

C6-C12	958	25.0	mg/kg wet	1000		95.8	75-125			
>C12-C28	1030	25.0	"	1000		103	75-125			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	62.8		"	50.0		126	70-130			

LCS Dup (P1A1406-BSD1)

Prepared & Analyzed: 01/14/21

C6-C12	951	25.0	mg/kg wet	1000		95.1	75-125	0.733	20	
>C12-C28	1010	25.0	"	1000		101	75-125	1.25	20	
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	62.0		"	50.0		124	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1A1406 - TX 1005										
Calibration Check (P1A1406-CCV1)				Prepared & Analyzed: 01/14/21						
C6-C12	474	25.0	mg/kg wet	500		94.7	85-115			
>C12-C28	508	25.0	"	500		102	85-115			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	56.2		"	50.0		112	70-130			
Calibration Check (P1A1406-CCV2)				Prepared & Analyzed: 01/14/21						
C6-C12	455	25.0	mg/kg wet	500		91.0	85-115			
>C12-C28	485	25.0	"	500		97.0	85-115			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	51.9		"	50.0		104	70-130			
Calibration Check (P1A1406-CCV3)				Prepared: 01/14/21 Analyzed: 01/15/21						
C6-C12	437	25.0	mg/kg wet	500		87.4	85-115			
>C12-C28	443	25.0	"	500		88.5	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	48.4		"	50.0		96.7	70-130			
Matrix Spike (P1A1406-MS1)				Source: 1A14003-15		Prepared: 01/14/21 Analyzed: 01/15/21				
C6-C12	988	27.2	mg/kg dry	1090	12.7	89.7	75-125			
>C12-C28	1050	27.2	"	1090	10.6	95.4	75-125			
Surrogate: 1-Chlorooctane	119		"	109		109	70-130			
Surrogate: o-Terphenyl	65.9		"	54.3		121	70-130			
Matrix Spike Dup (P1A1406-MSD1)				Source: 1A14003-15		Prepared: 01/14/21 Analyzed: 01/15/21				
C6-C12	917	27.2	mg/kg dry	1090	12.7	83.2	75-125	7.57	20	
>C12-C28	994	27.2	"	1090	10.6	90.5	75-125	5.28	20	
Surrogate: 1-Chlorooctane	137		"	109		126	70-130			
Surrogate: o-Terphenyl	63.1		"	54.3		116	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

Notes and Definitions

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- ROI Received on Ice
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- BULK Samples received in Bulk soil containers
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:  Date: 1/25/2021

Brent Barron, Laboratory Director/Technical Director

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

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If you have received this material in error, please notify us immediately at 432-686-7235.

1A14003

CHAIN OF CUSTODY RECORD



Office Location Midland
505 N. Big Spring St. 301A
Midland, TX 79701

Laboratory: PBEL
Address: 1400 Rankin Hwy
Midland, TX 79701
Contact: B. Barron
Phone: _____
PO/SO #: Dos Equis 12-3H

ANALYSIS REQUESTED

BTEX
TPH (GRO, DRO, MRO)
Chlorides

Lab use only
Due Date: CFE
Temp. of coolers when received (C°): 4.8
5.8
Page 1 of 2

Sampler's Name: John Faught
Sampler's Signature: [Signature]
Proj. No.: 725070635031
Project Name: Cimarron Dos Equis Closure
No/Type of Containers: 17

Matrix	Date	Time	Coed	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1L	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
1 S	1/12/21	1250	X		SH14	0	3.5'				X		
2 S	1/12/21	1300	X		SH13	2'	2'				1		
3 S	1/12/21	1310	X		BH10	4'	4'				1		
4 S	1/12/21	1503	X		BH9	4'	4'				1		
5 S	1/12/21	1508	X		SH12	0	2.5'				1		
6 S	1/12/21	1513	X		SH15	0	2.5'				1		
7 S	1/12/21	1518	X		SH16	0	2.5'				1		
8 S	1/12/21	1523	X		SH17	2'	2'				1		
9 S	1/12/21	1635	X		SH10	0	3.5'				1		
10 S	1/12/21	1651	X		BH13	3.5'	3.5'				1		

Turn around time Normal 25% Rush 50% Rush 100% Rush

Relinquished by (Signature): <u>[Signature]</u>	Date: <u>1/14/21</u>	Time: <u>0952</u>	Received by (Signature): <u>[Signature]</u>	Date: <u>1/14/20</u>	Time: <u>9:52</u>
Relinquished by (Signature): _____	Date: _____	Time: _____	Received by (Signature): _____	Date: _____	Time: _____
Relinquished by (Signature): _____	Date: _____	Time: _____	Received by (Signature): _____	Date: _____	Time: _____
Relinquished by (Signature): _____	Date: _____	Time: _____	Received by (Signature): _____	Date: _____	Time: _____

NOTES:
- Samples collected in New Mexico time zone
- Bill Cimarron directly
- All samples are 5 point composites

Matrix Container: WW - Wastewater, VOA - 40 ml vial, W - Water, S - Soil, SD - Solid, L - Liquid, A - Air Bag, C - Charcoal tube, SL - Sludge, O - Oil, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other

1A14003

CHAIN OF CUSTODY RECORD



Office Location Midland
505 N. Big Spring Stc 301A
Midland, TX 79701

Laboratory: PBEL
Address: 1400 Rankin Hwy
Midland, TX 79701
Contact: B. Barron
Phone: _____
PO/SO #: Dos Equis 12-3H

ANALYSIS REQUESTED

Lab use only
Due Date: 07/12

Temp. of coolers when received (C°) 48
5.8

1	2	3	4	5
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Page 2 of 2

*BTEX
TPH (GRO, DEQ, MRO)
Chlorides*

Sampler's Name John Faught Sampler's Signature John Faught

Proj. No. 725070635031 Project Name Cimarrax Dos Equis Closure No/Type of Containers 17

11
12
13
14
15
16
17

Matrix	Date	Time	Coed	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt.	250 ml	Glass Jar	P/O	Lab Sample ID (Lab Use Only)
S	1/13/21	1130	X		SH11	0	4'				1		X X X
S	1/13/21	1133	X		BH14	4'	4'				1		X X X
S	1/13/21	1136	X		BH15	4'	4'				1		X X X
S	1/13/21	1140	X		BH16	4'	4'				1		X X X
S	1/13/21	1125	X		BH11	35'	35'				1		X X X
S	1/13/21	1235	X		BH12	4'	4'				1		X X X
S	1/13/21	1220	X		Backfill	/	/				1		X X X
NFE													

Turn around time Normal 25% Rush 50% Rush 100% Rush

Relinquished by (Signature) <u>John Faught</u>	Date: <u>1/14/21</u> Time: <u>0952</u>	Received by: (Signature) <u>Bill Barron</u>	Date: <u>1/14/21</u> Time: <u>9:52</u>	NOTES: <u>- Samples collected in New Mexico time zone.</u> <u>- Bill Cimarrax Directly</u> <u>- All samples are 5 point composites</u>
Relinquished by (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	
Relinquished by (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	
Relinquished by (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	

Matrix Container WW - Wastewater VOA - 40 ml vial W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - Sludge O - Oil A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Hank W McConnell
Apex Environmental
505 N. Big Spring Street #301A
Midland, TX 79701

Project: Cimarex Dos Equis 12-3H

Project Number: 725070635031

Location:

Lab Order Number: 1C08005



Current Certification

Report Date: 03/09/21

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH17 @ 1'	1C08005-01	Soil	03/05/21 11:47	03-08-2021 11:50
SH18 @ 2"-6"	1C08005-02	Soil	03/05/21 11:55	03-08-2021 11:50
BH18 @ 4"	1C08005-03	Soil	03/05/21 13:30	03-08-2021 11:50

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH17 @ 1'
1C08005-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 11:42	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 11:42	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 11:42	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 11:42	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 11:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.5 %	80-120		P1C0808	03/08/21 13:04	03/09/21 11:42	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.4 %	80-120		P1C0808	03/08/21 13:04	03/09/21 11:42	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	21.7	1.05	mg/kg dry	1	P1C0806	03/08/21 09:40	03/08/21 14:43	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1C0905	03/09/21 09:36	03/09/21 09:41	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1C0810	03/08/21 13:35	03/08/21 15:59	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1C0810	03/08/21 13:35	03/08/21 15:59	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1C0810	03/08/21 13:35	03/08/21 15:59	TPH 8015M	
Surrogate: 1-Chlorooctane		83.8 %	70-130		P1C0810	03/08/21 13:35	03/08/21 15:59	TPH 8015M	
Surrogate: o-Terphenyl		91.3 %	70-130		P1C0810	03/08/21 13:35	03/08/21 15:59	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/08/21 13:35	03/08/21 15:59	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

SH18 @ 2"-6"
1C08005-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 12:03	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 12:03	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 12:03	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 12:03	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 12:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	80-120		P1C0808	03/08/21 13:04	03/09/21 12:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.7 %	80-120		P1C0808	03/08/21 13:04	03/09/21 12:03	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	38.1	1.05	mg/kg dry	1	P1C0806	03/08/21 09:40	03/08/21 15:03	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1C0905	03/09/21 09:36	03/09/21 09:41	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1C0810	03/08/21 13:35	03/08/21 16:21	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1C0810	03/08/21 13:35	03/08/21 16:21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1C0810	03/08/21 13:35	03/08/21 16:21	TPH 8015M	
Surrogate: 1-Chlorooctane		94.0 %	70-130		P1C0810	03/08/21 13:35	03/08/21 16:21	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P1C0810	03/08/21 13:35	03/08/21 16:21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/08/21 13:35	03/08/21 16:21	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BH18 @ 4"
1C08005-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 12:24	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 12:24	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 12:24	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 12:24	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1C0808	03/08/21 13:04	03/09/21 12:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.6 %		80-120	P1C0808	03/08/21 13:04	03/09/21 12:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.5 %		80-120	P1C0808	03/08/21 13:04	03/09/21 12:24	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	23.8	1.05	mg/kg dry	1	P1C0806	03/08/21 09:40	03/08/21 15:22	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1C0905	03/09/21 09:36	03/09/21 09:41	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P1C0810	03/08/21 13:35	03/08/21 16:43	TPH 8015M	
>C12-C28	167	26.3	mg/kg dry	1	P1C0810	03/08/21 13:35	03/08/21 16:43	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1C0810	03/08/21 13:35	03/08/21 16:43	TPH 8015M	
Surrogate: 1-Chlorooctane		93.7 %		70-130	P1C0810	03/08/21 13:35	03/08/21 16:43	TPH 8015M	
Surrogate: o-Terphenyl		102 %		70-130	P1C0810	03/08/21 13:35	03/08/21 16:43	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	167	26.3	mg/kg dry	1	[CALC]	03/08/21 13:35	03/08/21 16:43	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1C0808 - * DEFAULT PREP *******Blank (P1C0808-BLK1)**

Prepared: 03/08/21 Analyzed: 03/09/21

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.6	80-120			

LCS (P1C0808-BS1)

Prepared: 03/08/21 Analyzed: 03/09/21

Benzene	0.0832	0.00100	mg/kg wet	0.100		83.2	70-130			
Toluene	0.0899	0.00100	"	0.100		89.9	70-130			
Ethylbenzene	0.120	0.00100	"	0.100		120	70-130			
Xylene (p/m)	0.210	0.00200	"	0.200		105	70-130			
Xylene (o)	0.104	0.00100	"	0.100		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.5	80-120			

LCS Dup (P1C0808-BSD1)

Prepared: 03/08/21 Analyzed: 03/09/21

Benzene	0.0832	0.00100	mg/kg wet	0.100		83.2	70-130	0.0120	20	
Toluene	0.0899	0.00100	"	0.100		89.9	70-130	0.0222	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130	5.37	20	
Xylene (p/m)	0.213	0.00200	"	0.200		107	70-130	1.42	20	
Xylene (o)	0.105	0.00100	"	0.100		105	70-130	0.874	20	
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.6	80-120			

Calibration Blank (P1C0808-CCB1)

Prepared: 03/08/21 Analyzed: 03/09/21

Benzene	0.00		mg/kg wet							
Toluene	0.420		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.4	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
 505 N. Big Spring Street #301A
 Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
 Project Number: 725070635031
 Project Manager: Hank W McConnell

Fax:

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1C0808 - * DEFAULT PREP *****

Calibration Check (P1C0808-CCV1)

Prepared: 03/08/21 Analyzed: 03/09/21

Benzene	0.0806	0.00100	mg/kg wet	0.100		80.6	80-120			
Toluene	0.0857	0.00100	"	0.100		85.7	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.7	80-120			
Xylene (o)	0.0964	0.00100	"	0.100		96.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		96.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.4	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P1C0806 - *** DEFAULT PREP ***										
Blank (P1C0806-BLK1) Prepared & Analyzed: 03/08/21										
Chloride	ND	1.00	mg/kg wet							
LCS (P1C0806-BS1) Prepared & Analyzed: 03/08/21										
Chloride	402	1.00	mg/kg wet	400		100	90-110			
LCS Dup (P1C0806-BSD1) Prepared & Analyzed: 03/08/21										
Chloride	401	1.00	mg/kg wet	400		100	90-110	0.135	20	
Calibration Check (P1C0806-CCV1) Prepared & Analyzed: 03/08/21										
Chloride	19.8		mg/kg	20.0		99.2	90-110			
Calibration Check (P1C0806-CCV2) Prepared & Analyzed: 03/08/21										
Chloride	20.0		mg/kg	20.0		100	90-110			
Matrix Spike (P1C0806-MS1) Source: 1B26007-01 Prepared & Analyzed: 03/08/21										
Chloride	3840	11.4	mg/kg dry	1140	3370	41.5	80-120			QM-05
Matrix Spike Dup (P1C0806-MSD1) Source: 1B26007-01 Prepared & Analyzed: 03/08/21										
Chloride	4620	11.4	mg/kg dry	1140	3370	110	80-120	18.5	20	
Batch P1C0905 - *** DEFAULT PREP ***										
Blank (P1C0905-BLK1) Prepared & Analyzed: 03/09/21										
% Moisture	ND	0.1	%							
Duplicate (P1C0905-DUP1) Source: 1C08005-01 Prepared & Analyzed: 03/09/21										
% Moisture	5.0	0.1	%		5.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
 505 N. Big Spring Street #301A
 Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
 Project Number: 725070635031
 Project Manager: Hank W McConnell

Fax:

**General Chemistry Parameters by EPA / Standard Methods - Quality Control
 Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P1C0905 - * DEFAULT PREP *****

Duplicate (P1C0905-DUP2)	Source: 1C08011-01			Prepared & Analyzed: 03/09/21						
% Moisture	26.0	0.1	%		26.0			0.00	20	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch PIC0810 - TX 1005										
Blank (PIC0810-BLK1)										
Prepared & Analyzed: 03/08/21										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	83.7		"	100		83.7	70-130			
Surrogate: o-Terphenyl	45.4		"	50.0		90.9	70-130			
LCS (PIC0810-BS1)										
Prepared & Analyzed: 03/08/21										
C6-C12	945	25.0	mg/kg wet	1000		94.5	75-125			
>C12-C28	953	25.0	"	1000		95.3	75-125			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	46.0		"	50.0		92.0	70-130			
LCS Dup (PIC0810-BSD1)										
Prepared & Analyzed: 03/08/21										
C6-C12	950	25.0	mg/kg wet	1000		95.0	75-125	0.541	20	
>C12-C28	949	25.0	"	1000		94.9	75-125	0.398	20	
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	50.3		"	50.0		101	70-130			
Calibration Check (PIC0810-CCV1)										
Prepared & Analyzed: 03/08/21										
C6-C12	480	25.0	mg/kg wet	500		96.0	85-115			
>C12-C28	529	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	46.6		"	50.0		93.2	70-130			
Calibration Check (PIC0810-CCV2)										
Prepared & Analyzed: 03/08/21										
C6-C12	466	25.0	mg/kg wet	500		93.2	85-115			
>C12-C28	538	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	97.4		"	100		97.4	70-130			
Surrogate: o-Terphenyl	45.0		"	50.0		89.9	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
 505 N. Big Spring Street #301A
 Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
 Project Number: 725070635031
 Project Manager: Hank W McConnell

Fax:

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch PIC0810 - TX 1005

Matrix Spike (PIC0810-MS1)

Source: 1C08005-01 Prepared: 03/08/21 Analyzed: 03/09/21

C6-C12	874	26.3	mg/kg dry	1050	ND	83.0	75-125			
>C12-C28	803	26.3	"	1050	ND	76.3	75-125			
Surrogate: 1-Chlorooctane	117		"	105		111	70-130			
Surrogate: o-Terphenyl	45.1		"	52.6		85.6	70-130			

Matrix Spike Dup (PIC0810-MSD1)

Source: 1C08005-01 Prepared: 03/08/21 Analyzed: 03/09/21

C6-C12	915	26.3	mg/kg dry	1050	ND	86.9	75-125	4.58	20	
>C12-C28	880	26.3	"	1050	ND	83.6	75-125	9.09	20	
Surrogate: 1-Chlorooctane	112		"	105		106	70-130			
Surrogate: o-Terphenyl	46.4		"	52.6		88.1	70-130			

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Apex Environmental
505 N. Big Spring Street #301A
Midland TX, 79701

Project: Cimarex Dos Equis 12-3H
Project Number: 725070635031
Project Manager: Hank W McConnell

Fax:

Notes and Definitions

- ROI Received on Ice
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- BULK Samples received in Bulk soil containers
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:  Date: 3/9/2021

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

CHAIN OF CUSTODY RECORD

APEX
 Office Location Midland
505 N. Big Spring Ste 301A
Midland, TX 79701
 Project Manager H. McConnell

Laboratory: PBEL
 Address: 1400 Rankin Hwy
Midland, TX 79701
 Contact: B. Barron
 Phone: _____
 PO/SO #: _____

AnalYSIS REQUESTED

Lab use only
 Due Date: _____
 Temp. of coolers when received (C°): 60 To 70
CFH

1 2 3 4 5
 Page 1 of 1

Proj. No.			Project Name				No/Type of Containers					AnalYSIS REQUESTED					Lab Sample ID (Lab Use Only)								
725070635031			Dos Equis 12-3H Release				3					BTEX TPH Chlorides NFE													
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	AG 1L	250 ml	Glass Jar	P/O													
S	3/5/21	1147	X		BH17	1'	1'				1		X	X	X										
S	3/5/21	1155	X		SH18	2"	6"				1		X	X	X										
S	3/5/21	1330	X		BH18	4"	4"				1		X	X	X										
NFE																									
(JK)																									

Turn around time Normal 25% Rush 50% Rush 100% Rush 24 hr turn around

Relinquished by (Signature): <u>John Felt</u>	Date: <u>3/7/21</u>	Time: <u>1700</u>	Received by (Signature): <u>CFH</u>	Date: <u>3/7/21</u>	Time: <u>1700</u>	NOTES:
Relinquished by (Signature): <u>CFH</u>	Date: <u>3/8/21</u>	Time: <u>1150</u>	Received by (Signature): <u>Ornela Bedre</u>	Date: <u>3/8/21</u>	Time: <u>11:50</u>	
Relinquished by (Signature):	Date:	Time:	Received by (Signature):	Date:	Time:	
Relinquished by (Signature):	Date:	Time:	Received by (Signature):	Date:	Time:	

Matrix Container: WW - Wastewater, VOA - 40 ml vial, W - Water, S - Soil, SD - Solid, L - Liquid, A - Air Bag, C - Charcoal tube, SL - Sludge, O - Oil, AG - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS
 Action 25772

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 25772
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	7/29/2021